



CPUC Docket: A.21-06-021
Exhibit Number: TURN-15-Atch1
Witness: David Cheng

**PREPARED TESTIMONY OF
DAVID CHENG**

**ADDRESSING FIELD METERING, RULE 20A, CUSTOMER AND
COMMUNICATIONS, AND INFORMATION TECHNOLOGY**

ATTACHMENTS

Submitted on Behalf of

THE UTILITY REFORM NETWORK

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June 13, 2022

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PACIFIC GAS AND ELECTRIC COMPANY
2023 General Rate Case Phase I
Application 21-06-021
Data Response

PG&E Data Request No.:	TURN_127-Q001		
PG&E File Name:	GRC-2023-PhI_DR_TURN_127-Q001		
Request Date:	February 16, 2022	Requester DR No.:	TURN-PG&E-127
Date Sent:	March 3, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Tamon Norimoto	Requester:	David Cheng

SUBJECT: PG&E-4, CHAPTER 19, RULE 20A

QUESTION 001

Please provide the recorded 2021 Rule 20A capital expenditure amount.

ANSWER 001

PG&E objects to this request to the extent it seeks final 2021 recorded costs prior to the deadline set forth in the Assigned Commissioner's Scoping Memo and Ruling (dated October, 1, 2021). The Scoping Memo and Ruling directs PG&E to provide 2021 recorded costs by March 22, 2022. Accordingly, PG&E will provide final 2021 recorded costs on or before March 22, 2022 as directed . Subject to that objection and without waiving its right to object to the use of its response in this proceeding, PG&E responds as follows:

PG&E's 2021 recorded Rule 20A capital expenditures (in MWC 30) were \$37,818,200.

PACIFIC GAS AND ELECTRIC COMPANY
2023 General Rate Case Phase I
Application 21-06-021
Data Response

PG&E Data Request No.:	TURN_127-Q002		
PG&E File Name:	GRC-2023-PhI_DR_TURN_127-Q002		
Request Date:	February 16, 2022	Requester DR No.:	TURN-PG&E-127
Date Sent:	March 3, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Tamon Norimoto	Requester:	David Cheng

SUBJECT: PG&E-4, CHAPTER 19, RULE 20A

QUESTION 002

Please provide the balance of the Rule 20A Balancing Account at the end of 2021.

ANSWER 002

PG&E objects to this request to the extent it seeks final 2021 recorded costs prior to the deadline set forth in the Assigned Commissioner's Scoping Memo and Ruling (dated October, 1, 2021). The Scoping Memo and Ruling directs PG&E to provide 2021 recorded costs by March 22, 2022. Accordingly, PG&E will provide final 2021 recorded costs on or before March 22, 2022 as directed.

Subject to that objection and without waiving its right to object to the use of its response in this proceeding, PG&E responds as follows:

See GRC-2023-PhI_DR_TURN_127-Q002Atch01.xlsx

Year	2017	2018	2019	2020	2021
GRC Adopted Capex \$ Amount	\$57,919,000	\$53,804,000	\$52,067,000	\$33,420,000	\$34,312,000
Carryover from previous year		\$29,663,665	\$50,060,470	\$55,149,944	\$50,362,092
Recorded Capex in MWC 30	(\$28,255,335)	(\$32,610,208)	(\$45,758,461)	(\$38,272,588)	(\$37,818,200)
Recorded Amounts in MWC IG		(\$796,987)	(\$1,219,064)	\$64,736	(\$209,169)
Ending Balancing Account Carryover	\$29,663,665	\$50,060,470	\$55,149,944	\$50,362,092	\$46,646,723

PACIFIC GAS AND ELECTRIC COMPANY
2023 General Rate Case Phase I
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Data Response

PG&E Data Request No.:	TURN_134-Q004		
PG&E File Name:	GRC-2023-PhI_DR_TURN_134-Q004		
Request Date:	February 22, 2022	Requester DR No.:	TURN-PG&E-134
Date Sent:	March 8, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Craig Kurtz	Requester:	David Cheng

SUBJECT: PG&E-4 – CHAPTER 8, FIELD METERING

QUESTION 004

Page 8-9 states, “The drivers for the increase are labor escalation and the projected increase in field employees necessary to support energy theft investigations.”

- a. Please provide support for the increase, including any supporting documentations and analysis.
- b. Please provide the number of historical energy theft investigations for 2017-2021.
- c. Please provide the forecasted number of energy theft investigations for this GRC period and provide support for the forecast.

ANSWER 004

a. In 2017, the Revenue Assurance Representative team began a three-year transition from non-represented technical employees to an IBEW union represented workforce. During this time, there was significant attrition while the negotiations and restructuring occurred. After agreement was reached on the formal work duties and conditions of this team in late 2019, the first class of IBEW Energy Diversion Investigators was hired at the end of 2020. This was the first step to building back the coworkers necessary to properly identify and rectify energy theft across PG&E’s large service territory.

MWC IU	Year 2020	Year 2021	Year 2022	Year 2023
Costs(1000s)	\$1,499	\$1,500	\$1,570	\$2,250
Number of Investigators	16	23	24	30

b. The number of formal investigations by year is reflected in the table below. Please note that due to shelter-in-place orders driven by COVID 19 during 2020 and 2021, PG&E energy theft investigation was limited to identifying public safety issues and supporting mandatory law enforcement activities.

Year	Case Volume
2017	7,360
2018	6,571
2019	4,793
2020	1,184
2021	3,328

c. Forecasted case volume is expected to raise year over year based on increased investigators, new investigator proficiency increasing and a return to more normal energy theft operations.

Year	Case Volume
2023	7,500
2024	8,500
2025	9,000

PACIFIC GAS AND ELECTRIC COMPANY
2023 General Rate Case Phase I
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Data Response

PG&E Data Request No.:	TURN_158-Q002		
PG&E File Name:	GRC-2023-Phi_DR_TURN_158-Q002		
Request Date:	March 9, 2022	Requester DR No.:	TURN-PG&E-158
Date Sent:	March 23, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Jason Guenther	Requester:	David Cheng

SUBJECT: PG&E-6 – CHAPTER 2, CUSTOMER ENGAGEMENT

QUESTION 002

Page 2-21 states,

“the increase is primarily attributable to \$7.3 million forecasted for increased demand for Non-Tariffed Products and Services such as the Utility Energy Services Contract (UESC) and Sustainable Solutions Turnkey (SST) programs. It is also attributable to a forecasted \$1.5 million increase in labor to support increased demand for Non-Tariffed Products and Services as well as escalation.”

Please:

- a. Provide support for the statements asserting increased demand.
- b. Provide the historical recorded demand for 2016-2021 for all Non-Tariffed Products and Services, providing breakout for each product.
- c. Forecast the increase in revenue generated for Non-Tariffed Products and Services as a result of the \$8.8 million increased spending.
- d. For the forecasted increase in revenue in part c) above, provide a breakout of how much of the increased revenue would go to shareholders, and how much would go to ratepayers.

ANSWER 002

- a. PG&E has typically used a three-year average to inform forecasts for SST and UESC product lines. Based on historical performance and known contracts at the time of the 2023 GRC forecast, PG&E anticipated growth in both the SST and UESC product lines between 2020 and 2023. Please see the detailed historical expenses for all product lines in part “b” below. The increase in expense is offset by corresponding Other Operating Revenue; see Exhibit (PG&E-10), Chapter 16 testimony and workpapers served February 28, 2022 for additional details.

- b. See the table below for the historical recorded demand for 2016-2021 for all Non-Tariffed Products and Services.

Product Line Expense	2016	2017	2018	2019	2020	2021
NRD ATS	\$297,067	\$426,740	\$584,619	\$621,055	\$71,563	\$40,505
NRD Facilities Maintenance	\$1,656,879	\$628,835	\$1,588,127	\$3,378,931	\$4,885,293	\$11,769,325
NRD Fiber Services	\$3,285,293	\$3,409,761	\$2,395,952	\$2,075,517	\$1,775,676	\$1,420,558
NRD Intellectual Property	\$167,767	\$107,902	\$91,868	\$215,483	\$1,227,284	\$228,139
NRD LED	\$365,235	\$179				
NRD Mover Services	\$428,465	\$660,151	\$592,859	\$577,931	\$636,223	\$768,790
NRD New Products	\$2,837	\$57,104	\$655,039	\$690,808	\$332,164	\$558,748
NRD Other and New Products	\$404,859	\$322,610	\$1,106,874	\$1,793,512	\$1,057,521	\$1,030,084
NRD Poletop and Streetlight Attachments	\$70,093	\$68,671	\$95,027	\$89,561	\$125,108	\$181,384
NRD SST	\$9,934,870	\$3,704,455	\$7,167,743	\$17,809,153	\$17,563,956	\$24,012,829
NRD UESC	\$13,895,256	\$14,570,426	\$25,315,544	\$14,637,475	\$14,396,734	\$20,987,260
NRD Wireless	\$11,100,536	\$12,856,908	\$14,543,970	\$13,362,267	\$14,670,010	\$15,024,377

- c. See Exhibit (PG&E-10) Chapter 16 workpapers, WP 16-4 and WP 16-5, “2023 GRC TY” column, served February 28, 2022. The line items with “MWC EL NRD” noted in the “Forecast Method/Comments” column relate to Non-Tariffed Products and Services.

PACIFIC GAS & ELECTRIC COMPANY
ELECTRIC DEPARTMENT
2020 RECORDED ADJUSTED AND 2021-2023 FORECAST

ALL REVENUES ARE GROSS

Line No.		Forecast				Forecast Method / Comments
		2020	2021	2022	2023 GRC TY	
450	D FORFEITED DISCOUNTS	733,289	56,510	135,625	135,625	No MWC, Corporate Accounting Item Forecast
451	D MISCELLANEOUS SERVICE REVENUES	1,455,932	1,455,932	1,455,932	1,455,932	Base Year Recorded
4	D NRD Revenue	277,276	316,208	271,269	273,981	MWC EL NRD Forecast
5	TT NRD Revenue	1,151,974	1,343,665	1,152,703	1,164,230	MWC EL NRD Forecast
6	D Direct Access Chrgs	-	-	-	-	
7	D Revenue Protection/Assurance	586,172	800,316	817,923	837,553	MWC IU Forecast
8	D Customer Fund Management	4,001,411	4,102,665	4,192,923	4,293,553	MWC EV Forecast
9	Total Recorded Adjusted	7,472,765	8,018,786	7,890,750	8,025,250	
10						
11	FERC	1,151,974	1,343,665	1,152,703	1,164,230	
12	CPUC	6,320,791	6,675,121	6,738,047	6,861,020	
13						
453	H SALES OF WATER AND WATER POWER					
15	H Water Sales	4,720,958	4,720,958	4,720,958	4,720,958	Base Year Recorded
16	Total Recorded Adjusted	4,720,958	4,720,958	4,720,958	4,720,958	
17						
454	D RENT FROM ELECTRIC PROPERTY					
19	Special Facilities					
20	D Distribution	18,329,853	18,329,853	18,329,853	18,329,853	Base Year Recorded
21	HT High Transmission	1,452,916	1,452,916	1,452,916	1,452,916	Base Year Recorded
22	LT Low Transmission	1,625,419	1,625,419	1,625,419	1,625,419	Base Year Recorded
23	GT Gen-Ties	11,111,159	11,111,159	11,111,159	11,111,159	Base Year Recorded
24	DC Direct Connects	1,769,078	1,769,078	1,769,078	1,769,078	Base Year Recorded
25	Lease/Rentals/Other					
26	F Fossil	23,709	23,709	23,709	230,594	Base Year Recorded, 2023 Forecast Year includes rental revenue from the Oakland Lakeside Lease
27	N Nuclear	1,089,539	1,089,539	1,089,539	4,621,888	Base Year Recorded, 2023 Forecast Year includes rental revenue from the Oakland Lakeside Lease
28	H Hydro	176,291	176,291	176,291	1,437,162	Base Year Recorded, 2023 Forecast Year includes rental revenue from the Oakland Lakeside Lease
29	HT High Transmission	1,578,059	1,578,059	1,578,059	2,450,054	Base Year Recorded, 2023 Forecast Year includes rental revenue from the Oakland Lakeside Lease
30	LT Low Transmission	1,766,684	1,766,684	1,766,684	3,302,960	Base Year Recorded, 2023 Forecast Year includes rental revenue from the Oakland Lakeside Lease
31	D Distribution	5,530,871	5,530,871	5,530,871	15,347,183	Base Year Recorded, 2023 Forecast Year includes rental revenue from the Oakland Lakeside Lease
32	Telecom					
33	D Distribution - Rent (1)	10,804,025	4,800,671	4,268,277	4,444,662	MWC EL NRD Forecast
34	TT Transmission - Rent	38,024,431	8,119,764	7,367,105	7,554,089	MWC EL NRD Forecast
35	D Distribution - NRD Fee	1,291,136	564,926	463,681	536,103	MWC EL NRD Forecast
36	TT Transmission - NRD Fee	3,590,748	2,043,092	1,947,917	2,328,128	MWC EL NRD Forecast
37	Total Account 454	98,163,916	59,982,029	58,500,557	76,541,247	
38						
39	FERC	59,149,416	27,697,092	26,849,259	29,824,725	
40	CPUC	39,014,500	32,284,936	31,651,299	46,716,522	
41						

WP 16-4

PACIFIC GAS & ELECTRIC COMPANY
ELECTRIC DEPARTMENT
2020 RECORDED ADJUSTED AND 2021-2023 FORECAST

ALL REVENUES ARE GROSS					
Line No.		Forecast			
		2020	2021	2022	2023 GRC TY
42	456 OTHER ELECTRIC REVENUES	-	-	-	-
43	LT Transmission Wheeling - Low	2,787,769	2,787,769	2,787,769	2,787,769
44	HT Transmission Wheeling - High	39,866,874	42,202,985	44,100,282	45,681,184
45	D CIAC Gross-up	21,329,750	21,329,750	21,329,750	21,329,750
46	DT Misc Dist FERC	3,263,666	-	-	-
47	(a) Wheeling Payments Timing	523,630	800,000	1,200,000	1,200,000
48	H RECREATION FAC. REVENUES	39,832	50,000	70,000	210,000
49	H TIMER SALES	650,161	-	-	-
50	T MCI Rights-of-Way	(650,161)	-	-	-
51	T MCI Rights-of-Way Adjustment	70,574,259	-	-	-
52	(a) UNBILLED REVENUES (NET EFFECT)	71,012	-	-	-
53	D Other Revenue - Affiliates	2,302,664	1,976,479	2,019,962	2,068,441
54	D Other Revenue - Damage Claims	5,328	-	-	-
55	D Other Revenue - Mobile Home Park	-	-	-	-
56	D Other Revenue - Direct Access	32,208,380	-	-	-
57	(a) Other Revenue - Other Balancing Accounts	39,748,776	72,779,223	47,574,447	49,368,068
58	D Dist New Products	-	2,787,994	3,180,056	5,087,310
59	D Wireless Tower Licenses	9,389,188	12,824,830	13,012,378	13,517,957
60	TT Trans Telecom	-	-	-	-
61	REIMBURSED ELECTRIC REV.	-	-	-	-
62	D Distribution	39,383,419	36,552,193	37,334,210	38,191,229
63	T Transmission	1,304,416	1,304,416	1,304,416	1,304,416
64	H Hydro	8,250,697	1,542,346	944,014	944,014
65	N Nuclear	905,950	58,366	60,117	61,921
66	(a) Public Purpose and B/A	3,648,189	-	-	-
67	F Fossil	47,562	47,562	47,562	47,562
68	H Irrigation Districts	27,500	-	-	-
69		53,567,734	39,504,883	39,690,320	40,549,142
70		(416,607,371)	-	-	-
71	(a) OTHER ELECTRIC REV - DIWR	(56,360,402)	-	-	-
72	(a) CPUC REIMBURSEMENTS	(197,208,911)	197,143,913	174,964,963	182,599,620
73	Total Acct 456 Other Electric Rev.	165,993,356	197,143,913	174,964,963	182,599,620
74		-	-	-	-
75	Total Acct 456 Less (a) Items	34,811,123	38,346,766	38,434,313	38,939,892
76	FERC (excluding (a) Items)	131,182,233	158,797,148	136,530,650	143,659,727
77	CPUC (excluding (a) Items)	(363,202,267)	-	-	-
78	Non-GRC CPUC (total (a))	-	-	-	-
79		-	-	-	-
80		-	-	-	-
81	Total by UCC	13,738,907	7,289,594	7,111,262	8,512,133
82	H Hydro	71,271	71,271	71,271	278,156
83	F Fossil	1,995,489	1,147,905	1,149,656	4,683,809
84	N Nuclear	164,397,026	192,256,825	169,675,311	186,050,676
85	D Distribution	1,769,078	1,769,078	1,769,078	1,769,078
86	DC Distribution Direct Connects	181,971,770	202,534,673	179,776,578	202,093,852
87	Total CPUC	-	-	-	-
88		-	-	-	-
89	HT Transmission - High	6,470,952	6,470,952	6,470,952	7,342,946
90	LT Transmission - Low	4,044,311	4,044,311	4,044,311	5,580,587
91	GT Gen-Ties	11,111,159	11,111,159	11,111,159	11,111,159
92	TT Transmission - Telecom	52,156,341	24,431,351	23,480,103	24,564,404
93	DT Distribution FERC	21,329,750	21,329,750	21,329,750	21,329,750
94	Total FERC	95,112,514	67,387,523	66,436,275	69,928,847
95		-	-	-	-
96	(a) Non-GRC CPUC	(363,202,267)	-	-	-
97		-	-	-	-
98	Total by UCC	(86,117,983)	269,922,195	246,212,853	272,022,699
99	(a) Items not applicable to the forecast	-	-	-	-

Note

(1) Line number 33, column 2021 Forecast values vary from the values listed in the Results of Operations (RO) Model due to errata. These amounts do not align to the RO Model provided to the Public Advocates Office at the time of filing. The RO will be updated to incorporate these errata with the Joint Comparison Exhibit submittal.

- d. 100% of forecasted net revenue for MWC EL goes to ratepayers. Assuming the full expense and full OOR for MWC EL are approved, ratepayers will receive the full benefit.

PACIFIC GAS AND ELECTRIC COMPANY
2023 General Rate Case Phase I
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Data Response

PG&E Data Request No.:	TURN_158-Q004		
PG&E File Name:	GRC-2023-PhI_DR_TURN_158-Q004		
Request Date:	March 9, 2022	Requester DR No.:	TURN-PG&E-158
Date Sent:	March 23, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Jason Guenther	Requester:	David Cheng

SUBJECT: PG&E-6 – CHAPTER 2, CUSTOMER ENGAGEMENT

QUESTION 004

Page 2-24 states,

“PG&E’s capital forecast of \$18.7 million for the Internal Fleet Electrification Program from 2021-2026 includes \$6.3 million in 2023, \$7.0 million in 2024, \$2.2 million in 2025, and \$3.3 million in 2026.”

Please

- a. Provide the recorded historical spending from 2016-2021 for the Internal Fleet Electrification Program.
- b. Identify whether the Internal Fleet Electrification Program was previously approved by the Commission. If so, identify the Commission decision.

ANSWER 004

- a. The recorded historical spending for the Internal Fleet Electrification Program from 2016-2021 was \$0.
- b. The Internal Fleet Electrification Program was not previously approved by the Commission. However, PG&E’s requested \$18.7 million capital forecast is critical to ensuring the Company meets its public commitment to electrify 100% of its light-duty fleet by 2030 in support of California’s goals to reduce GHG emissions.

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PG&E Data Request No.:	TURN_158-Q005		
PG&E File Name:	GRC-2023-PhI_DR_TURN_158-Q005		
Request Date:	March 9, 2022	Requester DR No.:	TURN-PG&E-158
Date Sent:	March 23, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Jason Guenther	Requester:	David Cheng

SUBJECT: PG&E-6 – CHAPTER 2, CUSTOMER ENGAGEMENT

QUESTION 005

Page 2-37 includes a line for EV – Station Infrastructure (Line 2), which jumps from \$2,300 in 2022 to \$8,550 in 2023. Please provide all supporting documents to justify the forecasted increase

ANSWER 005

The forecasted increase is for the inclusion of the PG&E Internal Fleet Electrification Program in the amount of \$6.25 million. Please see WP 2-45 in Exhibit (PG&E-6), Chapter 2 workpapers filed February 28, 2022 for more details. Internal fleet electrification infrastructure is necessary to meet PG&E commitments to electrify the Company's fleet in support of California's goals to reduce GHG emissions. The anticipated enactment of the California Air Resources Board's Advanced Clean Fleets draft regulation¹ will also provide additional mandates for fleet electrification which require infrastructure to be planned for and installed starting in 2023.

¹ <https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets/advanced-clean-fleets-draft-regulation-and-comments>

PACIFIC GAS AND ELECTRIC COMPANY
2023 General Rate Case Phase I
Application 21-06-021
Data Response

PG&E Data Request No.:	TURN_163-Q001		
PG&E File Name:	GRC-2023-PhI_DR_TURN_163-Q001		
Request Date:	March 10, 2022	Requester DR No.:	TURN-PG&E-163
Date Sent:	March 24, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Trish Williams	Requester:	David Cheng

SUBJECT: PG&E-6 – CHAPTER 5, CUSTOMER SERVICE OFFICES

QUESTION 001

Page WP 5-23 contains a table of FTE counts. Please provide an updated table that contains record 2021 figures.

ANSWER 001

See below for the updated table of FTE counts in WP 5-23 which includes 2021 recorded figures.

Year	Total Count	No. of EE	No. of Sup
2014	234	222	12
2015	228	216	12
2016	238	226	12
2017	212	201	11
2018	197	190	7
2019	169	161	8
2020	123	116	7
2021	95	90	5

PACIFIC GAS AND ELECTRIC COMPANY
2023 General Rate Case Phase I
Application 21-06-021
Data Response

PG&E Data Request No.:	TURN_165-Q001		
PG&E File Name:	GRC-2023-PhI_DR_TURN_165-Q001		
Request Date:	March 10, 2022	Requester DR No.:	TURN-PG&E-165
Date Sent:	March 24, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Matt Hedges	Requester:	David Cheng

SUBJECT: PG&E-6 – CHAPTER 10, CUSTOMER CARE TECHNOLOGY PROJECTS

QUESTION 001

Page 10-8 states, “PG&E forecasts \$9.0 million (2021-2023) in total expense and \$165 million in total capital (2021-2024) for the Billing System Upgrade project.” Please:

- a. Indicate whether PG&E conducted a business case or cost-benefit analysis for the Billing System Upgrade. If yes, please provide the analyses conducted and all supporting documentation.
- b. For the Billing System Upgrade project, please identify each level of PG&E management review and approval obtained for the project and associated costs, the job title of each person whose approval or review was obtained in the management approval process, and the date on which each approval was provided.
- c. For the Billing System Upgrade project, please provide all written materials and emails provided to PG&E management in the course of obtaining management review and approval for the project and associated costs.
- d. To the extent management review or approval was obtained based in part on oral communications, please describe in detail each oral communication that was a basis for seeking or obtaining PG&E management approval, including the contents of the communication, the name and job title of each person who participated in the oral communication, and the date of the communication.

ANSWER 001

- a. PG&E did not rely on a cost benefit analysis to determine that a Billing System Upgrade was necessary. A project of this size and complexity does not typically have a positive cost benefit. Instead, PG&E recognized the need to upgrade its existing Billing System owing to the constraints a complex, outdated, inflexible billing system framework imposed on the delivery of timely and efficient solutions.¹

¹ See Exhibit (PG&E-6) Chapter 10 testimony, pp. 10-9 to 10-12, served February 28, 2022, and Exhibit (PG&E-6) Chapter 10 workpapers, WP 10-12 to 10-15, served February 28, 2022.

- b. PG&E objects to this request as overbroad and unduly burdensome to the extent it asks for all levels of management review and approval, including dates. Subject to and notwithstanding its objection, PG&E responds as follows:

Because PG&E's forecast was not developed at a project level, leadership approvals were not provided at a project level. PG&E's 2023 GRC forecast for IT was reviewed and approved at various levels by multiple levels of leadership at different stages throughout development of PG&E's 2023 GRC application. Please see PG&E's response to GRC-2023-PhI_DR_TURN_168-Q001, subpart G for further details.

Regarding the programs within the overall IT forecast: with respect to this question, the Billing System Upgrade is the primary forecast driver for the Billing and Rates value stream. The program level forecast and supporting documentation for the Billing and Rates value stream were reviewed and approved for inclusion in PG&E's 2023 GRC application by leaders at various levels of management, whose titles include IT Senior Vice President and Chief Information Officer; IT Vice President of Application and Infrastructure Services; IT Vice President of Products and Enterprise Platforms; IT Senior Director of Enterprise Strategy & Architecture; Senior Manager of Business Technology; IT Director of the Office of the CIO; IT Director of Investment Management; and Director of Business Finance. These leaders reviewed drafts of the 2023 GRC program-level forecasts and supporting materials periodically throughout development of the 2023 GRC application from February through June of 2021, with final GRC witness approval provided in June of 2021.

- c. PG&E objects to this request as overbroad and unduly burdensome to the extent it asks for "all written materials and emails provided to PG&E management in the course of obtaining management review and approval for the project and associated costs." Subject to and notwithstanding its objection, PG&E responds as follows:

Please refer to PG&E's response to subpart b above.

- d. PG&E objects to this request as overbroad and unduly burdensome to the extent it asks for a detailed description all oral communications related to management approval of IT programs. Subject to and notwithstanding its objection, PG&E responds as follows:

Please refer to PG&E's response to subpart b above.

PACIFIC GAS AND ELECTRIC COMPANY
2023 General Rate Case Phase I
Application 21-06-021
Data Response

PG&E Data Request No.:	TURN_168-Q001		
PG&E File Name:	GRC-2023-Phi_DR_TURN_168-Q001		
Request Date:	March 11, 2022	Requester DR No.:	TURN-PG&E-168
Date Sent:	March 25, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Paul Nielsen Ajay Pathak	Requester:	David Cheng

SUBJECT: PG&E-7 – CHAPTER 8, INFORMATION TECHNOLOGY

QUESTION 001

Page 8-30 contains two tables, Table 8-6 for expense forecast and Table 8-7 for capital forecast. Please:

- a. Provide a list of projects, details for the projects, and associated expense and capital costs that make up the forecasted expense and capital costs for these tables.
- b. For each of the projects identified in part a) above, please identify which potential consequences of lost network connectivity (Table 8-8 on page 8- 32) would be mitigated by each project. Please also explain why PG&E's current technology would not be able to mitigate these potential consequences.
- c. For each of the projects identified in part a) above, please identify which key areas (listed from page 8-32 to page 8-34) would be addressed by each project.
- d. For each of the projects identified in part a) above, if the project includes replacement of current systems, please indicate whether it is PG&E's assertion that the current systems would no longer be operational or functional during the current GRC period. Please provide any evidence for the systems that PG&E is making this assertion.
- e. For each of the projects identified in part a) above, if the project includes replacement of current systems, please provide a list of capital projects and dollar amounts that were/are still in ratebase associated with or spent on the systems being replaced, starting with the year 2021 through 2026. Please also provide the best estimate of total remaining revenue requirements (for as long as the project remains on ratebase) associated with each project.
- f. For each of the projects identified in part a) above, please indicate whether PG&E conducted a business case or cost-benefit analysis for the project. If yes, please provide the analyses conducted and all supporting documentation.
- g. For each of the projects identified in part a) above, please identify each level of PG&E management review and approval obtained for the project and associated costs, the job title of each person whose approval or review was obtained in the management approval process, and the date on which each approval was provided.

- h. For each of the projects identified in part a) above, please provide all written materials and emails provided to PG&E management in the course of obtaining management review and approval for the project and associated costs.
- i. To the extent management review or approval was obtained based in part on oral communications, please describe in detail each oral communication that was a basis for seeking or obtaining PG&E management approval, including the contents of the communication, the name and job title of each person who participated in the oral communication, and the date of the communication.
- j. Provide updated Table 8-6 and Table 8-7 that include recorded actuals for 2016-2021.

ANSWER 001

Please note the attachment related to this response contains a vendor-generated footer that states "Confidential - For internal discussion." PG&E does not consider this document confidential in accordance with previously agreed upon guidance.

- a. PG&E developed its 2023 GRC forecast for the Core Network Infrastructure and Operations value stream at an overall program level but did not develop a corresponding detailed cost breakdown by project. Please refer to Exhibit (PG&E-7), Chapter 8 Workpapers (pages WP 8-38 through WP 8-45) for additional information regarding the overall program, including more detailed descriptions of the proposed program scope, its justification and key drivers, and high-level assumptions regarding program costs and benefits.
- b. Please refer to PG&E's response to subpart a above. The consequences indicated in Table 8-8 represent consequences that could occur if PG&E's current technology were to fail. In other words, the current technology is what carries the risk that needs to be mitigated—it cannot serve as its own mitigation.
- c. Please refer to PG&E's response to subpart a above. Investments in the Core Network Infrastructure and Operations value stream will address all of the key areas referenced on pages 8-32 to 8-34.
- d. Please refer to PG&E's response to subpart a above. In cases where work involves replacement of current systems, it is not PG&E's assertion that the current systems would no longer be operational or functional during the current GRC period. As a general practice, a current system would typically remain operational/functional until the replacement system is fully operationalized.
- e. Please refer to PG&E's response to subpart a above. PG&E cannot provide the requested information because the revenue requirement is generated and authorized at the functional level (Electric Distribution, Gas Distribution, Gas Transmission & Storage, and Energy Supply) not the project level.
- f. Please refer to PG&E's response to subpart a above. The referenced section of Exhibit (PG&E-7), Chapter 8 Workpapers (pages WP 8-38 through WP 8-45) contains additional details regarding the program's costs and benefits.
- g. PG&E objects to this request as overbroad and unduly burdensome to the extent it asks for all levels of management review and approval, including dates.

Subject to and notwithstanding its objection, PG&E responds as follows:

Please refer to PG&E's response to subpart a above regarding individual projects; because PG&E's forecast was not developed at a project level, leadership approvals were not provided at a project level. PG&E's 2023 GRC forecast for IT was reviewed and approved at various levels by multiple levels of leadership at different stages throughout development of PG&E's 2023 GRC application. PG&E's total IT forecast (inclusive of all cost recovery sources) was reviewed and approved by leaders whose titles included Chief Financial Officer; Chief Risk Officer; IT Senior Vice President and Chief Information Officer; Vice President of Business Finance; IT Vice President of Products and Enterprise Platforms; IT Senior Director of Application and Infrastructure Services; IT Director of the Office of the CIO; IT Director of Investment Management; and Director of Business Finance. Approval of this overall IT forecast was provided orally in a meeting in January 2021 based on presentation materials provided as GRC-2023-Phi_DR_TURN_168-Q001Atch01. Please note that the financials presented in this attachment are not directly comparable to the final numbers presented in Exhibit (PG&E-7), Chapter 8 of the 2023 GRC for several reasons: (1) the presentation includes costs recovered outside of the GRC; (2) the presentation includes costs presented in other Exhibits and Chapters within the 2023 GRC (such as Exhibit (PG&E-6), Chapter 10); (3) the presentation does not include overhead allocations and accounting adjustments; and (4) the presentation does not organize costs in the same way that they were organized for final inclusion in the 2023 GRC, as program level forecasts were refined over the course of finalizing the 2023 GRC application.

Regarding the programs within the overall IT forecast: The program-level forecast and supporting documentation for the Core Network Infrastructure and Operations value stream were reviewed and approved for inclusion in PG&E's 2023 GRC application by leaders at various levels of management, whose titles include IT Senior Vice President and Chief Information Officer; IT Vice President of Application and Infrastructure Services; IT Vice President of Products and Enterprise Platforms; IT Senior Director of Enterprise Strategy & Architecture; IT Director of Enterprise Network Solutions; IT Director of Business Technology; IT Director of the Office of the CIO; IT Director of Investment Management; and Director of Business Finance. These leaders reviewed drafts of the 2023 GRC program-level forecasts and supporting materials periodically throughout development of the 2023 GRC application from February through June of 2021, with final GRC witness approval provided in June of 2021.

- h. PG&E objects to this request as overbroad and unduly burdensome to the extent it asks for "all written materials and emails provided to PG&E management in the course of obtaining management review and approval for the project and associated costs." Subject to and notwithstanding its objection, PG&E responds as follows:

Please refer to PG&E's response to subpart g above.

- i. PG&E objects to this request as overbroad and unduly burdensome to the extent it asks for a detailed description all oral communications related to management

approval of IT programs. Subject to and notwithstanding its objection, PG&E responds as follows:

Please refer to PG&E's response to subpart g above.

j. Please refer to the tables below:

UPDATED TABLE 8-6
FOUNDATIONAL TECHNOLOGY: CORE NETWORK INFRASTRUCTURE AND OPERATIONS
2016-2023 EXPENSE
(THOUSANDS OF NOMINAL DOLLARS)

Line No.	MWC	2016 Recorded Adjusted	2017 Recorded Adjusted	2018 Recorded Adjusted	2019 Recorded Adjusted	2020 Recorded Adjusted	2021 Recorded Adjusted	2022 Forecast	2023 Forecast
1	JV ¹	1,631	2,376	936	2,593	12,677	4,408	4,500	14,600

UPDATED TABLE 8-7
FOUNDATIONAL TECHNOLOGY: CORE NETWORK INFRASTRUCTURE AND OPERATIONS
2016-2026 CAPITAL
(THOUSANDS OF NOMINAL DOLLARS)

Line No.	MWC	2016 Recorded Adjusted	2017 Recorded Adjusted	2018 Recorded Adjusted	2019 Recorded Adjusted	2020 Recorded Adjusted	2021 Recorded Adjusted	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast
1	2F	57,286	40,170	39,376	23,598	59,965	101,395	99,500	114,900	120,600	125,200	125,400

¹ Note: 2019, 2020, and 2021 Recorded Adjusted values include adjustments in MWC ZC

PACIFIC GAS AND ELECTRIC COMPANY
2023 General Rate Case Phase I
Application 21-06-021
Data Response

PG&E Data Request No.:	TURN_168-Q012		
PG&E File Name:	GRC-2023-PhI_DR_TURN_168-Q012		
Request Date:	March 11, 2022	Requester DR No.:	TURN-PG&E-168
Date Sent:	March 25, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Paul Nielsen Ajay Pathak	Requester:	David Cheng

SUBJECT: PG&E-7 – CHAPTER 8, INFORMATION TECHNOLOGY

QUESTION 012

Page 8-74 states,

“Key non-labor drivers – which represent approximately 80.5 percent of the increase include commercial cloud subscriptions and other vendor service agreements, application and infrastructure license fees, network telecommunication leases, managed services support contracts, and hardware maintenance contracts.”

Please:

- a. Provide a list of commercial cloud subscriptions and other vendor service agreements, application and infrastructure license fees, network telecommunication leases, managed services support contracts, and hardware maintenance contracts and associated costs, recorded actuals for 2016-2021 and forecasts for 2022-2026.
- b. For any of the listed subscriptions/agreements/leases/contracts with forecasted increase, please provide all supporting documentation that supports the forecasted increase

ANSWER 012

- a. Please refer to Workpaper Table 8-20 on page WP 8-100 of Exhibit (PG&E-7), Chapter 8 workpapers for a summary of recorded and forecast IT Baseline O&M Non-Labor costs. Please refer to the table below for an updated version of the non-labor section of Workpaper Table 8-20 that includes 2021 Recorded Adjusted actuals. PG&E does not have an expense forecast for the attrition years. PG&E requests to apply the attrition framework for years 2024, 2025 and 2026.
Please refer to Attachment GRC-2023-PhI_DR_TURN_168-Q012Atch01 for additional details regarding 2016-2021 recorded costs. Please note that commercial cloud subscriptions, vendor service agreements, application and infrastructure license fees, and hardware maintenance contracts are not easily

distinguishable from one another in PG&E's financial data so they have been grouped together in a single category in the attachment. PG&E's IT Baseline O&M Non-Labor forecast was developed at an aggregated level and was not broken out by specific subscriptions/agreements/leases/contracts. For additional details regarding 2022-2023 forecast costs, please refer to the documentation referenced in PG&E's response to subpart b below.

IT BASELINE O&M NON-LABOR COSTS
UPDATED FROM EXHIBIT (PG&E-7), CHAPTER 8 WORKPAPER TABLE 8-20
2016-2023 EXPENSE
(THOUSANDS OF NOMINAL DOLLARS)

Line	Non-Labor Cost Subcategory	Recorded Adjusted						Forecast	
		2016	2017	2018	2019	2020	2021	2022	2023
1	Infrastructure & Operations Contracts	96,232	112,893	114,823	131,919	143,976	143,896	160,475	182,675
2	End-User Services	50,019	45,889	49,589	48,015	54,053	50,000	54,100	54,100
3	IT Baseline O&M Labor Total	146,251	158,782	164,412	179,934	198,029	193,896	214,575	236,775

b. PG&E's IT Baseline O&M Non-Labor forecast was developed at an aggregated level and was not broken out by specific subscriptions/agreements/leases/contracts. For documentation supporting the overall IT Baseline O&M Non-Labor forecast increase, please refer to p. WP 8-105 of Exhibit (PG&E-7), Chapter 8 workpapers as well as the following responses to prior data requests and their associated attachments:

- GRC-2023-PhI_DR_CalAdvocates_017-Q04
- GRC-2023-PhI_DR_CalAdvocates_017-Q08
- GRC-2023-PhI_DR_CalAdvocates_058-Q07
- GRC-2023-PhI_DR_CalAdvocates_058-Q12
- GRC-2023-PhI_DR_CalAdvocates_058-Q13
- GRC-2023-PhI_DR_CalAdvocates_058-Q14

IT Baseline O&M Non-Labor Details: 2016-2021 Recorded Adjusted Expense (In Dollars)

Note: minor differences between costs reported in the 2023 GRC filing and costs reported in this response are due to normal operational accounting adjustments and rounding.
Line items with "not assigned" in the vendor name column include normal operational accounting adjustments and PG&E labor and non-purchase order costs.

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
1	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5017150	PHOC SFOIC RDCIO Rent and HVAC	2029745	Abv Std HVAC Charges	Contract	CARTER VALUOUS OPERATING			1,064			
2	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5017150	PHOC SFOIC RDCIO Rent and HVAC	2029745	Abv Std HVAC Charges	Contract	Not assigned	(332,964)				1,363,241	(0)
3	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5017150	PHOC SFOIC RDCIO Rent and HVAC	2029745	Abv Std HVAC Charges	Labor Internal	Not assigned						26
4	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5017150	PHOC SFOIC RDCIO Rent and HVAC	2029745	Abv Std HVAC Charges	Other	CARTER VALUOUS OPERATING			2,946,182	3,646,019	2,510,502	
5	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5017150	PHOC SFOIC RDCIO Rent and HVAC	2029745	Abv Std HVAC Charges	Other	GLOBAL GOLF CAMP LLC	3,215,213	3,289,499	555,059			
6	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5017150	PHOC SFOIC RDCIO Rent and HVAC	2029745	Abv Std HVAC Charges	Other	M A LIMITED PARTNERSHIP	1,920	-				
7	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5017150	PHOC SFOIC RDCIO Rent and HVAC	2029745	Abv Std HVAC Charges	Contract	Not assigned						4,138,434
8	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Contract	GRABBAR ELECTRIC CO INC	35,110			7,397		
9	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Contract	MICROSAM FREQUENCY				6,015		
10	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Contract	Not assigned	519,583	451,505	518,663	343,470		
11	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Contract	STAKESEER PTY LTD	18,750		20,045	20,045		
12	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Contract	ZONES WIDE TECHNOLOGY LLC	15,910	219,153	74,539	259,974	(901)	-
13	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Contract	WORLD WIDE TECHNOLOGY LLC				3,453		
14	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Labor External	Not assigned	102,093					
15	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Materials	Not assigned		62,224	5,657			
16	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Other	GRABBAR ELECTRIC CO INC	(702)			(148)		
17	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Other	Not assigned	702	2,481	556			
18	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Other	WORLD WIDE TECHNOLOGY LLC		(467)	(186)		(140)	(47)
19	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031332	I&O Infra Ops- BL Data Contracts- VQ	Other	ZONES CORPORATE SOLUTIONS				(0)		
20	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Contract	CURVATURE INC			37,508	43,447	(1,241)	
21	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Contract	NETWORK HARDWARE RESALE LLC		28,154				
22	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Contract	NHR NEWCO HOLDINGS LLC	6,509	35,575				
23	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Contract	Not assigned	2,884,253	3,811,284	6,708,802	6,408,598	(0)	(0)
24	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Contract	WORLD WIDE TECHNOLOGY LLC	110,124		168,406	556,550		
25	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Labor External	Not assigned	1,411,103	1,875,134	157,457			
26	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Labor External	WORLD WIDE TECHNOLOGY LLC	143,110					
27	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Materials	Not assigned			81	31		
28	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Materials	ENCSOURCE SUPPLY SOLUTIONS LLC			8,064	3,099		
29	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Other	NETWORK HARDWARE RESALE LLC		(563)				
30	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Other	Not assigned	96	(1,314)	589	127,870		
31	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Other	WORLD WIDE TECHNOLOGY LLC	(96)					
32	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2031484	I&O Infra Ops- SmartNet Contracts- Dat	Contract	Not assigned	254,369					
33	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2037885	I&O Infra Ops- CISCO SmartNet Maint. Re	Contract	Not assigned	455,097					
34	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2037885	I&O Infra Ops- CISCO SmartNet Maint. Re	Materials	Not assigned	43,786					
35	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2037885	I&O Infra Ops- CISCO SmartNet Maint. Re	Other	Not assigned	28,949					
36	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2037885	I&O Infra Ops- CISCO SmartNet Maint. Re	Contract	Not assigned	195,691	213,482				
37	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2037885	I&O Infra Ops- CISCO SmartNet Maint. Re	Materials	Not assigned	17,968					
38	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2037885	I&O Infra Ops- CISCO SmartNet Maint. Re	Other	Not assigned	1,698	0				
39	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2037887	I&O Infra Ops- CISCO SmartNet Maint. (NE	Contract	WORLD WIDE TECHNOLOGY LLC			7,642			
40	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2037887	I&O Infra Ops- CISCO SmartNet Maint. (NE	Other	Not assigned			19			
41	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2037887	I&O Infra Ops- CISCO SmartNet Maint. (NE	Other	WORLD WIDE TECHNOLOGY LLC			(19)			
42	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2041705	TNS CISCO SmartNet Maint. (LOB)	Contract	RMS ENTERPRISE SOLUTIONS INC	12,440					
43	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2041705	TNS CISCO SmartNet Maint. (LOB)	Contract	WORLD WIDE TECHNOLOGY LLC	97,437	6,143				
44	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2041705	TNS CISCO SmartNet Maint. (LOB)	Materials	Not assigned	1,450	1				
45	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2041705	TNS CISCO SmartNet Maint. (LOB)	Materials	WORLD WIDE TECHNOLOGY LLC	38,367	116				
46	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2041705	TNS CISCO SmartNet Maint. (LOB)	Other	Not assigned	4,143	31				
47	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2041705	TNS CISCO SmartNet Maint. (LOB)	Other	RMS ENTERPRISE SOLUTIONS INC		(249)				
48	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	2041705	TNS CISCO SmartNet Maint. (LOB)	Other	WORLD WIDE TECHNOLOGY LLC	(268)	(6)				
49	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021214	I&O Infra Ops- BL Data Contracts- JVQ	70028946	I&O Infra Ops- Internet Contracts- JVH	Contract	IBM CORPORATION		8,000	28,000	-	(2,766)	
50	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021215	I&O Infra Ops- Com Fac Contracts- JVS	2031610	I&O/O - Other Unite Study Excludables	Contract	Not assigned	315,417					
51	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021215	I&O Infra Ops- Com Fac Contracts- JVS	2031610	I&O/O - Other Unite Study Excludables	Contract	ELECTROSONIC INC		30,479	10,930	75,397		
52	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021215	I&O Infra Ops- Com Fac Contracts- JVS	2031610	I&O/O - Other Unite Study Excludables	Contract	Not assigned	132,903	197,497	428,851	891,017	0	
53	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021215	I&O Infra Ops- Com Fac Contracts- JVS	2031610	I&O/O - Other Unite Study Excludables	Contract	RMS ENTERPRISE SOLUTIONS INC	82,263	81,473		144,413		
54	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021215	I&O Infra Ops- Com Fac Contracts- JVS	2031610	I&O/O - Other Unite Study Excludables	Contract	TRACITION GUEST INC						
55	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021215	I&O Infra Ops- Com Fac Contracts- JVS	2031610	I&O/O - Other Unite Study Excludables	Other	WORLD WIDE TECHNOLOGY LLC	27,171		106,507			
56	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021215	I&O Infra Ops- Com Fac Contracts- JVS	2031610	I&O/O - Other Unite Study Excludables	Labor External	Not assigned	517,544	515,589	515,589			
57	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021215	I&O Infra Ops- Com Fac Contracts- JVS	2031610	I&O/O - Other Unite Study Excludables	Other	Not assigned		1,645	1,329	2,888		
58	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021215	I&O Infra Ops- Com Fac Contracts- JVS	2031610	I&O/O - Other Unite Study Excludables	Other	RMS ENTERPRISE SOLUTIONS INC		(1,645)	(1,629)			
59	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021215	I&O Infra Ops- Com Fac Contracts- JVS	2031610	I&O/O - Other Unite Study Excludables	Other	TRACITION GUEST INC				(2,888)		
60	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2031334	TNS Voice Contracts- JVX	Contract	IPC SYSTEMS INC	23,900	18,828	(2,085)			
61	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2031334	TNS Voice Contracts- JVX	Contract	Not assigned	28,434	151,065	2,742	373,993	(0)	
62	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2031334	TNS Voice Contracts- JVX	Contract	VERINT AMERICA INC	30,213		49,058	72,388		
63	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2031334	TNS Voice Contracts- JVX	Contract	VESTA SOLUTIONS INC	23,495	23,495	23,495			
64	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2031334	TNS Voice Contracts- JVX	Other	Not assigned		(0)	491			
65	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2031334	TNS Voice Contracts- JVX	Contract	VERINT AMERICA INC			(891)			
66	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2031611	I&O Infra Ops- Voice Logger Contracts- JVH	Contract	Not assigned		151,674	86,671			
67	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2031611	I&O Infra Ops- Voice Logger Contracts- JVH	Contract	VERINT AMERICA INC		21,668				
68	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2031611	I&O Infra Ops- Voice Logger Contracts- JVH	Labor Internal	Not assigned					96	
69	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2033825	I&O Infra Ops- Voice Call Center Contra	Contract	Not assigned			137,597	(0)		
70	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2033825	I&O Infra Ops- Voice Call Center Contra	Contract	WORLD WIDE TECHNOLOGY LLC				27,519		
71	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2033825	I&O Infra Ops- Voice Call Center Contra	Labor External	Not assigned	1,236,337	1,136,338	1,136,338	568,169		
72	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021216	I&O Infra Ops- Voice Contracts- JVX	2033825	I&O Infra Ops- Voice Call Center Contra	Labor External	WORLD WIDE TECHNOLOGY LLC	94,695					
73	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021217	I&O Infra Ops- Transport Contracts- JVY	2031335	I&O Infra Ops- Transport Contracts- JVY	Contract	CORIANT AMERICA INC	10,393	17,905				
74	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021217	I&O Infra Ops- Transport Contracts- JVY	2031335	I&O Infra Ops- Transport Contracts- JVY	Contract	ELECTRIC LIGHTWAVE LLC	1,407,509					
75	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021217	I&O Infra Ops- Transport Contracts- JVY	2031335	I&O Infra Ops- Transport Contracts- JVY	Contract	LIGHTFIBER TECHNOLOGIES INC	11,047	8,500	8,500			
76	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021217	I&O Infra Ops- Transport Contracts- JVY	2031335	I&O Infra Ops- Transport Contracts- JVY	Contract	MEGASYS ENTERPRISES LTD	15,515	49,546	40,391			
77	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021217	I&O Infra Ops- Transport Contracts- JVY	2031335	I&O Infra Ops- Transport Contracts- JVY	Contract	728,787	880,789	808,936	702,964			
78	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021217	I&O Infra Ops- Transport Contracts- JVY	2031335	I&O Infra Ops- Transport Contracts- JVY	Contract	PERCON CORPORATION			92,500			
79	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021217	I&O Infra Ops- Transport Contracts- JVY	2031335	I&O Infra Ops- Transport Contracts- JVY	Other	LIGHTFIBER TECHNOLOGIES INC	(1,660)	(170)		(510)		
80	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021217	I&O Infra Ops- Transport Contracts- JVY	2031335	I&O Infra Ops- Transport Contracts- JVY	Contract	Not assigned	12,279	10,989	11,588			
81	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5021217	I&O Infra Ops- Transport Contracts- JVY	2031335	I&O Infra Ops- Transport Contracts- JVY	Other	ZAVO GROUP HOLDINGS INC		724,936	(724,936)		(802,287)	
82	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5024949	I&O Maint, Comd, & Client Support	9188110	IT- FERC Acc't- Arbores CV	Contract	VESTA SOLUTIONS INC		3,500				
83	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5024949	I&O Maint, Comd, & Client Support	9021009	IT- FERC Acc't- 5009	Contract	Not assigned		(7,750)				
84	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5024949	I&										

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
110	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	EASPOWER LLC	8,199					
111	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	GOENGINEER INC	9,557					
112	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	METTLER-TOLEDO INC	1,163					
113	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	MIKROSOFT CORP	1,111					
114	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	NATIONAL INSTRUMENTS	17,363					
115	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	Not assigned	303,667	11,764	4,985		19,408	58,406
116	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	POWER SETTLEMENTS CONSULTING AND	42,000					
117	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	POWERBRI LLC	33,000	33,000				
118	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	RICH AMERICAS CORPORATION	14,595	12,416	9,878	65,249	875	
119	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	SAFE ENGINEERING SERVICES &	63,237					
120	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	SATCOM GLOBAL FZE	3,806					
121	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	SHI INTERNATIONAL CORP						(2,140)
122	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	SKF USA INC		6,350				
123	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	THE MATHWORKS INC	3,867					
124	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	YS INC	2,250					
125	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Contract	ZONES CORPORATE SOLUTIONS	9,528					
126	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Labor External	Not assigned	10,175	7,523	6,280	8		
127	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Labor External	ZONES CORPORATE SOLUTIONS	13					
128	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Labor Internal	Not assigned	180,719	103,818	97,621	777	1,477	7,758
129	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	ASM INTERNATIONAL	4,445					
130	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	CORNING JOHNSON	1,197	355	252			
131	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	DELL MARKETING LP	226					
132	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	HAROLD A SCHULTZ	67					
133	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	IDONDAMANG INC	32,181	1,446				
134	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	JANNY HANN						54
135	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	MATTHEW J JACKSON		216				
136	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	MICHAEL S BOBEN	17					
137	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	MICHAEL T LUI	15					
138	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	MITCHELL SNOOK INC	114					
139	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	MOBILE MOUNTING SOLUTIONS INC	263	222				
140	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	Not assigned	9,685	41	105	9	12	4
141	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	PATRICK J CAMARGA	163					
142	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	POWER PRODUCTS HOLDING CO	686					
143	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	SUSAN M MCWAIN	272	549				
144	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	ZONES CORPORATE SOLUTIONS	18,541	2,465	7,626	487	874	
145	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Materials	ZONES LLC			2,324	155	293	358
146	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	3D SYSTEMS INC	(78)					
147	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	AMERICAN MESSAGING SERVICES LLC	537	428	291	315	364	339
148	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	AT&T MOBILITY LLC	57,507	26,695	33,836	40,880	58,845	72,709
149	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	BRAIN STANLEY		234				
150	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	DAVID J HUNG		109				
151	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	EASPOWER LLC	(164)					
152	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	GENEYS COMPREHENSIVE	208	0				
153	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	GOENGINEER INC	(19)					
154	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	HAROLD A SCHULTZ	573					
155	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	IDONDAMANG INC	(894)	(36)				
156	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	MOBILE MOUNTING SOLUTIONS INC	83,733	88,609	99,331	114,308	141,069	65,982
157	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	JOHN C SKUTT		231				
158	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	JOHN PRINCE	10					
159	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	MITCHELL SNOOK INC	(2)	(5)				
160	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	MOBILE MOUNTING SOLUTIONS INC						
161	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	NEXTEL COMMUNICATIONS	2,367	889	1,162	2,300	8,547	11,385
162	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	NI SATELLITE INC	801	1,359	1,506	2,009	5,838	6,670
163	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	Not assigned	157,994	144,190	151,452	114,454	172,079	219,941
164	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	POWERBRI LLC	(130)					
165	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	RICH AMERICAS CORPORATION						(27)
166	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	SATCOM GLOBAL FZE	2,643	2,284	3,406	2,192	2,846	2,351
167	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	SAFE ENGINEERING SERVICES LLC	(70)					
168	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	SHI INTERNATIONAL CORP						(18)
169	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	U S CELLULAR		216	(6)			
170	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	USA MOBILITY WIRELESS INC	571	626	409	412	339	355
171	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	WATSON WIRELESS	631	526,005	529,929	581,173	736,436	911,026
172	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	ZONES CORPORATE SOLUTIONS	(42)	4	(17)	(1)	(1)	
173	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032731	EUS- ELECTRIC STRATEGY & ASSET MGMT	70030084	EUS- Electric Strategy & Asset Mgmt	Other	ZONES LLC			18	(0)		(1)
174	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Contract	ACME SECURE SYSTEMS	1,407					
175	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Contract	D&D CRAWFORD INC	2,040	(720)				
176	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Contract	SECURE BUSINESS SOLUTIONS LLC	12,434					
177	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Contract	ZONES CORPORATE SOLUTIONS	7,395					
178	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Labor External	Not assigned	88					
179	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Labor Internal	Not assigned	27,814	779				
180	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Materials	CORNING JOHNSON	442					
181	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Materials	D&D CRAWFORD INC	373					
182	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Materials	IDONDAMANG INC	531					
183	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Materials	MITCHELL SNOOK INC	171					
184	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Materials	Not assigned	187	5	3			
185	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Materials	ZONES CORPORATE SOLUTIONS	11,380					
186	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Materials	ZONES LLC				292		
187	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Other	AT&T MOBILITY LLC	32,963	3,990				
188	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Other	D&D CRAWFORD INC	(43)					
189	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Other	IDONDAMANG INC	(13)					
190	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Other	INTRADO ENTERPRISE COLLABORATION	24,574	16,168		27,840	46,094	
191	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Other	MITCHELL SNOOK INC	(3)					
192	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030080	EUS- Gas BPM & Other	Other	NI SATELLITE INC	701	279				
193	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032732	EUS- GAS BPM & OTHER	70030									

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
224	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	DAVID S SELSTAD		418				
225	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	DELL MARKETING LP		289	(289)			
226	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	DRIVASERVERS INC.	185					
227	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	EDWARD J MARSH		150	71			
228	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	EPIC MARKETING COMPANY INC		808				
229	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	GRABBAR ELECTRIC CO INC		4,124	729			
230	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	GREGORY PINCHEZ		306				
231	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	HAROLD A SCHULTZ		191	740	108		
232	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	IIDONDMANO INC		5,914	448			
233	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	IWO SILVEIRA			6			
234	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	LEBBY GARCIA		422				
235	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	JOHN PRINCE		293	58	21		
236	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	KENNETH D KOLBY		101	61	15		
237	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	LEMUEL M STUBBLEFIELD JR.		1,797	1,034	791	(968)	
238	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	LEVIN NODS		617				
239	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	LORETTA L SMITH		785				
240	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	MARK K BUTLER		981				
241	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	MATTHEW J JACKSON	898	362	201	900		
242	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	MATTHEW N REDELL		8				
243	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	MICHAEL L SMITH	162					
244	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	MICHAEL S BODEN	54	343				
245	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	MICHAEL T LI						
246	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	MITCHELL SNOOW INC	1,232	540	500			
247	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	MI SALES INC		300				
248	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	MOBILE MOUNTING SOLUTIONS INC	52,776	26,370	17,726			
249	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	MORICA LOPEZ	1,348					
250	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	Not assigned	17,508	9,283	15,750	58	299	
251	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	OFFICE RELIEF	55					
252	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	OPCON TECHNOLOGIES INC	52,853	(4,253)				
253	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	PATRICK J CANADA	102	90				
254	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	PHILLIP N JONES		68				
255	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	POWER PRODUCTS HOLDING CO	2,615	252	275			
256	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	RICHARD A PRATT		4				
257	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	RICOH AMERICAS CORPORATION	175	54				
258	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	ROBERT LEDBETTER	576	54	50			
259	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	SAMUEL HERBERT	1,528					
260	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	SHANNON BLAKE		76				
261	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	STEVE R NOLASCO			222			
262	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	STUART S WATSON	429	599				
263	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	SUPPLY TECHNOLOGY INC						
264	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	TALLEY COMMUNICATIONS CORP	1,552	569	344			
265	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	THERESA N LAITA	130	138	22			
266	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	WORLD WIDE TECHNOLOGY LLC		101	212			
267	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	ZONES CORPORATE SOLUTIONS	178,332	28,491	2,638	25,437		
268	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Materials	ZONES LLC	476	6,733	2,729	4,465		
269	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	ACAM SECURITY SYSTEMS	(739)					
270	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	ALI BESHARA		1,204				
271	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	ALICE K WU	319					
272	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	AMERICAN MESSAGING SERVICES LLC	2,101	1,847	1,494	1,590	1,498	1,473
273	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	ANTHONY P SUMMERS		433				
274	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	AT&T TOLLFREE LLC	284,051	151,826	176,805	179,556	220,981	249,846
275	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	CARL J KOSTLER	149					
276	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	CELLULAR ACCESSORIES FOR LESS	(112)	(53)				
277	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	DANIEL KAYHRES		167				
278	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	DANIEL M LABRE	7,882			1,915		
279	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	DEBBIE B SERIO	611					
280	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	DINDO ANGIO		48				
281	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	DRIVASERVERS INC	(54)	(46)	(49)			
282	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	EDWARD J HOOD	30					
283	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	GENESEYS CONFERRING	35,688					
284	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	GEORGE A MORILLO	80					
285	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	GRIFFIN J LEE	11,236	9,937	10,987	2,970		
286	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	GRABBAR ELECTRIC CO INC	(63)	(17)				
287	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	HAROLD A SCHULTZ	336		69			
288	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	HEAVEN NETWORK SYSTEMS LLC		161,483	158,575	156,130	164,600	33,193
289	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	IIDONDMANO INC	(113)	(10)				
290	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	INTRADO ENTERPRISE COLLABORATION	158,015	154,951	150,975	293,462	363,804	146,468
291	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	JAMES D BULLER III	187	11				
292	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	JANIS M KATLIN	0					
293	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	JESSE G GARCIA		70	163			
294	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	JOHN C SKUTT		1,144				
295	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	JOHN PRINCE		35				
296	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	JOSEPH LEE	678					
297	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	LEMUEL M STUBBLEFIELD JR.		38	149			
298	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	MITCHELL SNOOW INC	(15)	(9)	(8)			
299	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	MI SALES INC		(8)				
300	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	MOBILE MOUNTING SOLUTIONS INC	(840)	(427)	(844)			
301	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	NEXTEL COMMUNICATIONS	50,838	37,948	28,736	23,048	22,519	16,291
302	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	NI SATELLITE INC	69,751	71,719	82,252	185,277	201,913	218,307
303	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	Not assigned	508,020	371,377	435,899	464,489	395,462	448,751
304	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	OPCON TECHNOLOGIES INC		(884)				
305	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	POWER PRODUCTS HOLDING CO	(431)	(5)				
306	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	RICHARD A PRATT		196				
307	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	RICHARD J ARCHULETA		111				
308	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	RICOH AMERICAS CORPORATION	(19)	(22)	(17)			
309	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	SAMUEL HERBERT	2,334					
310	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	SHERRY M MARR		64,591	66,692	67,361	60,558	47,865
311	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	SHI INTERNATIONAL CORP					(1)	(5)
312	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	SUSAN MCHUGHAN			1,652			
313	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	TALLEY COMMUNICATIONS CORP	(25)	(3)	(2)			
314	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	THERESA N LAITA	109					
315	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032769	EUS- Electric Distribution	70029973	EUS- ELECTRIC DISTRIBUTION	Other	U S CELLULAR	539	221	228	389	355	
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Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
338	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Contract	PRIMATE TECHNOLOGIES INC	80,400					
339	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Contract	RICOH AMERICAS CORPORATION	37,601	175	13,788	12,968	9,795	
340	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Contract	SECURE BUSINESS SOLUTIONS LLC	28,847					
341	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Contract	SHI INTERNATIONAL CORP						0
342	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Contract	SIEMENS INDUSTRY INC		15,125				
343	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Contract	SYSTEMS INTEGRATION SPECIALISTS	2,500					
344	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Contract	UNWRIGED REVOLUTION						
345	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Contract	WORLD WIDE TECHNOLOGY LLC			212	14,026		
346	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Contract	ZONES CORPORATE SOLUTIONS	20,056	22,649	266			
347	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Labor External	DELL MARKETING LP			189			(149)
348	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Labor External	DRIVERSVERS INC		2,376				
349	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Labor External	Not assigned	40,683	17,393	14,496	1,502	252	
350	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Labor Internal	Not assigned	417,450	302,751	264,713	32,008	3,060	6,077
351	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	AMORIN BALLESTEROS JR.	13					
352	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	ANDREW I LATTA				94		
353	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	BRUCE M HARBERT	59	33				
354	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	CADENCE LEASING INC	15,829					
355	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	CELLULAR ACCESSORIES FOR LESS	236		558			
356	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	CORINNE JOHNSON	2,300	980		943		
357	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	DARRIN H ARBUCKLE			32			
358	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	DAVID G DECASTA	196					
359	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	DAVID S KILGAD	2,176					
360	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	DRIVERSVERS INC		2,473				
361	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	EDWARD J HODD				382		
362	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	GEORGE A MARULLO			36			
363	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	GRABBAR ELECTRIC CO INC	2,306	731				
364	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	IONDOMANO INC	249					
365	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	JAMES I WIDEMAN	2,500					
366	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	JOHN HANSEN						316
367	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	JESSE L KENNEY			385			
368	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	JOHN PRINCE	32					
369	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	JOHNA PRINCE	28					
370	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	MICHAEL S KOON	50					
371	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	MITCHELL S NOWIN INC		654				
372	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	MOBILE MOUNTING SOLUTIONS INC	3,854	3,182	1,920			
373	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	MONICA LOPEZ	1,273					
374	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	Not assigned	4,643	739	1,890	271	425	20
375	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	POWER PRODUCTS HOLDING CO	481	451				
376	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	RICHARD APRATT	189	2,897				
377	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	RYAN KENNEDY	81					
378	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	STEVE A SATO						
379	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	TALLEY COMMUNICATIONS CORP	287	122				
380	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	THOMAS E NOLP	685					
381	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	WALTER S NOWIN INC	54					
382	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	WORLD WIDE TECHNOLOGY LLC	2,059		8,026		(757)	
383	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	ZONES CORPORATE SOLUTIONS	41,817	22,520	8,206	1,420	14,304	345
384	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Materials	ZONES LLC		11,038	25,276	24,722	28,923	1,398
385	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	ALI BESHAM			255			
386	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	AMERICAN MESSAGING SERVICES LLC	535	415	394	439	497	463
387	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	ANDREW I LATTA			3,374			
388	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	ATE T MOBILE LLC	165,565	109,644	116,713	134,402	138,149	155,428
389	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	CELLULAR ACCESSORIES FOR LESS	(5)		(11)			
390	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	DARRIN H ARBUCKLE			408			
391	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	DCL SYSTEMS INC			(216)			
392	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	DRIVERSVERS INC	(48)	30	(46)			
393	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	EDWARD J HODD			30			
394	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	ELECTRIC POWER GROUP LLC	(72)					
395	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	GRABBAR ELECTRIC CO INC	(93)	(20)				
396	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	GREGORY A WILLIAMS		697				
397	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	GREGORY SANCHEZ			36			
398	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	HUGHES NETWORK SYSTEMS LLC	9,116	7,560		7,360	6,300	1,008
399	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	IONDOMANO INC	50					
400	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	INTRADO ENTERPRISE COLLABORATION	106,720	141,853	156,674	314,747	400,307	117,606
401	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	JAMES D BUEHLER III	74					
402	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	JAMES HANSEN			20			
403	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	JESSE L KENNEY	30					
404	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	JOHN C SKUTT			232			
405	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	KEVIN E LATTA	112					
406	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	MICHAEL S NOWIN	141					
407	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	MICHAEL S SMITH	4					
408	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	MITCHELL S NOWIN INC			(14)			
409	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	MOBILE MOUNTING SOLUTIONS INC			(28)			
410	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	NEXTEL COMMUNICATIONS	8,209	5,856	6,084	7,291	9,352	9,472
411	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	NI SATELLITE INC	46,139	49,682	53,445	61,842	61,772	67,972
412	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	Not assigned	179,692	175,619	207,999	177,560	226,726	243,574
413	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	PAUL G LANOURIA		520				
414	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	POWER PRODUCTS HOLDING CO	(9)	(9)				
415	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	RICHARD J ARBUCKLE			43			
416	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	RICOH AMERICAS CORPORATION	(17)	(6)	(7)			
417	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	SATCOM GLOBAL FZE	25,401	26,190	26,811	33,263	28,642	26,496
418	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	SHERYL M MARR	252					
419	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	SHI INTERNATIONAL CORP						(57)
420	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	TALLEY COMMUNICATIONS CORP	(6)					
421	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	U S CELLULAR	622	656	638	1,186	612	355
422	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	USA MOBILITY WIRELESS INC	489	247	374	249	249	253
423	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	WIRELESS VISION	1,035,603	926,681	995,275	1,329,331	1,485,582	1,466,831
424	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	WESLEY F PATRICK						
425	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	WORLD WIDE TECHNOLOGY LLC	(5)		(4)			
426	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	ZONES CORPORATE SOLUTIONS	(131)	(52)	(61)	(3)	(36)	
427	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032770	EUS- Electric	70029974	EUS- ELECTRIC	Other	ZONES LLC			(58)	(51)	(54)	(3)
428	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029985	EUS- POWER GENERATION	Contract	CANUS CORPORATION	4,277	180				
429	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029985	EUS- POWER GENERATION	Contract	Not assigned		1,345			6,752	19,806
430	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance												

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
452	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	HUGHES NETWORK SYSTEMS LLC	46,150	56,868	53,887	51,149	50,185	26,991
453	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	IBONDENDAMG INC	(4)					
454	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	INTRADO ENTERPRISE COLLABORATION	33,724	46,365	55,248	49,524	50,729	23,957
455	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	MOBILE MOUNTING SOLUTIONS	(15)					
456	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	NEXTEL COMMUNICATIONS	2,365	1,216	1,235	2,029	2,893	3,199
457	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	NI SATELLITE INC	4,565	7,662	8,335	10,957	11,950	14,098
458	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	Net assigned	50,574	54,774		50,574	93,952	88,054
459	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	PLATINUM GLOBAL LLC	(1,417)					
460	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	SATCOM GLOBAL FZE	22,293	21,091	21,925	21,406	20,495	24,404
461	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	SHI INTERNATIONAL CORP					(3)	(58)
462	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	U.S. CELLULAR INC	170	767	678			
463	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	USA MOBILITY WIRELESS INC	340	343	164	165	166	168
464	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	VERIZON WIRELESS	247,119	243,603	258,381	301,472	340,243	373,700
465	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	X2NAT INC	13,463	11,609	11,652	11,885	11,987	11,412
466	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	ZONES CORPORATE SOLUTIONS	(24)	(9)				
467	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032771	EUS- Power Generation	70029885	EUS- POWER GENERATION	Other	ZONES LLC	(21)	(12)	(0)	(0)	(2)	(1)
468	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Contract	CANUS CORPORATION	2,277	50				
469	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Contract	DELL MARKETING LP			358			
470	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Contract	FAIR ISAAC CORPORATION	77,760					
471	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Contract	GLOBAL SOFTWARE RESOURCES INC						153
472	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Contract	Not assigned					5,951	17,320
473	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Contract	RICHM AMERICAS CORPORATION				175	68,378	
474	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Contract	S&P GLOBAL INC		44,070				
475	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Contract	SECURE BUSINESS SOLUTIONS LLC	765					
476	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Contract	SHI INTERNATIONAL CORP		6,821				
477	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Contract	THE MATHWORKS INC	28,992					-
478	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Contract	ZONES CORPORATE SOLUTIONS	1,854					
479	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Labor External	APPVISE INC			990	180	270	630
480	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Labor External	GLOBAL SOFTWARE RESOURCES INC					45	
481	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Labor External	INFOSYS LTD	2,901	6,839	143			
482	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Labor External	NETCENTRIC TECHNOLOGIES INC		111				138
483	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Labor External	Not assigned	7,062	4,527	1,576		1,427	
484	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Labor Internal	Not assigned	57,897	51,808	1,477	1,339	1,131	
485	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Materials	JANNY HANAN	10					
486	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Materials	Not assigned	90		74	5	10	
487	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Materials	ZONES CORPORATE SOLUTIONS	8,061				961	
488	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Materials	ZONES LLC		7,358	383			
489	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	ALFREDA SMITH		358				
490	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	ANTHONY L BOTTOMS		8				
491	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	AT&T MOBILITY LLC	15,992	12,005	13,645	15,265	24,252	42,710
492	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	FAIR ISAAC CORPORATION	(778)					
493	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	INTRADO ENTERPRISE COLLABORATION	29,887	58,283	70,890	54,652	56,463	9,880
494	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	NEXTEL COMMUNICATIONS					1,121	1,052
495	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	Not assigned	40,629	51,409	46,324	20,931	24,795	27,265
496	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	SATCOM GLOBAL FZE	4,476	4,478	4,958	4,410	4,349	4,431
497	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	SHI INTERNATIONAL CORP						(3)
498	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	VERIZON WIRELESS						
499	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	ZONES CORPORATE SOLUTIONS	53,371	53,771	61,374	64,051	67,132	94,487
500	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032772	EUS- Energy Procurement	70029875	EUS- ENERGY PROCUREMENT	Other	ZONES LLC	(16)			(0)	(2)	(0)
501	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Contract	AUTOMATION SOLUTIONS INC	11,937		274	78,741	54,376	
502	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Contract	CANUS CORPORATION	5,752					
503	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Contract	Not assigned	1,236,869	1,436,982	1,367,989	741,650	6,244	19,573
504	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Contract	RICHM AMERICAS CORPORATION					21,499	
505	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Contract	SHI INTERNATIONAL CORP					13	-
506	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Contract	Not assigned	17,382					
507	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Contract	SWORD CORP		7,490				
508	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Contract	TEP EVENTS INTERNATIONAL INC	15,000					
509	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Contract	ZONES CORPORATE SOLUTIONS	4,423					
510	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Labor External	INDUSTRIAL TRAINING SERVICES INC	197,865					
511	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Labor External	Not assigned	4,366	9,473	2,077			242
512	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Labor External	TATA AMERICA INTERNATIONAL CORP		1,617				
513	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Labor Internal	Not assigned	50,559	14,540	17,704	895		8,144
514	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Materials	ALAN D TISCARENO	169					
515	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Materials	CORINNE JOHNSON			249			
516	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Materials	DESSANDRA INC	266					
517	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Materials	JANNY HANAN						1,267
518	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Materials	MI SALES INC		550				
519	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Materials	Not assigned	336	12	31	13	2	13
520	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Materials	ZONES LLC	10,439	690		137		
521	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Materials	ZONES LLC		1,501	1,178	233		
522	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	ADAM E LATTA	472					
523	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	AT&T MOBILITY LLC	89,487	47,483	56,362	43,169	54,007	50,574
524	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	GENEVEY CONFERENCING	1,446					
525	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	HUGHES NETWORK SYSTEMS LLC					8,190	1,638
526	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	IBONDENDAMG INC	(5)					
527	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	INTRADO ENTERPRISE COLLABORATION	50,011	64,759	66,336	41,924	44,426	19,469
528	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	MI SALES INC	(15)					
529	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	NEXTEL COMMUNICATIONS	2,793	2,184	2,112	3,436	5,444	4,715
530	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	NI SATELLITE INC	9,502	10,599	9,938	11,176	14,174	19,816
531	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	Not assigned	50,749	41,274	49,516	43,323	75,604	75,436
532	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	SATCOM GLOBAL FZE	743	1,017	1,424	2,119	2,886	2,898
533	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	SHI INTERNATIONAL CORP						(17)
534	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	Not assigned						
535	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	SWORD CORP		(150)				
536	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773	EUS- GAS ASSET MGMT & SYSTEM OPERATIONS	70030082	EUS- Gas Asset Mgmt & System Operations	Other	USA MOBILITY WIRELESS INC	408	408	409	653	642	659
537	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032773											

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
566	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	HUGHES NETWORK SYSTEMS LLC	10,228	9,920	9,891	9,828	1,638	
567	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	INTRADO ENTERPRISE COLLABORATION	25,742	32,349	34,230	3,046	0	
568	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	MI SALES INC			(26)			
569	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	NEXTEL COMMUNICATIONS	2,588	2,565	2,549	182		
570	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	NI SATELLITE INC	14,983	16,160	19,388	3,693	2,330	2,343
571	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	Not assigned	31,061	34,225	15,818	15		
572	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	PATRICK CANADA			(18)	17		
573	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	RICH AMERICAS CORPORATION						
574	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	SATCOM GLOBAL FZE	3,852	3,899	4,260	2,408	2,244	2,230
575	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	USA MOBILITY WIRELESS INC	448	244	223	19		
576	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	VERIZON WIRELESS	11,271	93,326	103,536	9,086	749	11
577	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	ZONES CORPORATE SOLUTIONS	(24)	(4)				
578	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032774	EUS - GAS SYSTEM OPERATIONS	70030081	EUS - Gas System Operations	Other	ZONES LLC			(8)	12		
579	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Contract	CANUS CORPORATION	21,548	2,395				
580	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Contract	DELL MARKETING LP		268	(269)			
581	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Contract	Not assigned					17,201	52,361
582	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Contract	RICH AMERICAS CORPORATION	175	950		701	57,928	
583	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Contract	SHI INTERNATIONAL CORP					648	(6)
584	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Contract	ZONES CORPORATE SOLUTIONS	710		4,768			
585	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Labor External	Not assigned	8,802	12,109	4,768			
586	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Labor External	TATAMERICA INTERNATIONAL CORP		2,696				
587	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Labor Internal	Not assigned	92,246	110,977	56,635	1,146	113	776
588	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	CORINNE JOHNSON		3,172	1,819			
589	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	DAVID CAUNT	165					
590	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	GAFF R DIANA		735	395			
591	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	GRABBAR ELECTRIC CO INC		1,201	804			
592	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	GREGORY SANCHEZ	134					
593	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	HAROLD A SCHULTZ	76					
594	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	INDUSTRIAL INSULATION	1,290					
595	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	JERRY GARS	13					
596	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	KENNETH D KOLBY			481			
597	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	KEVIN K ROBERTS	17					
598	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	MICHAEL S ECKON	180					
599	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	MICHAEL T LUI	234					
600	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	MITCHELL S NOWIN		65				
601	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	MOBILE MOUNTING SOLUTIONS INC	9,111	9,828	1,095	6,195		
602	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	Not assigned	1,186	461	298	105	51	
603	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	RICHARD APRATT	69					
604	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	RYAN A WETMORE	178					
605	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	SAMUEL HERBERT			676			
606	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	TALLEY COMMUNICATIONS CORP	333					
607	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	WORLD WIDE TECHNOLOGY LLC	1,780					
608	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	ZONES CORPORATE SOLUTIONS	16,670	4,277	6,880			
609	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Materials	ZONES LLC	13,496	1,450	1,008	4,276	5,137	
610	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	AMERICAN MESSAGING SERVICES LLC	732	590	556	620	701	653
611	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	AT&T MOBILITY LLC	152,547	72,650	92,239	96,220	112,578	106,606
612	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	BRILLIANT USA		837	513			
613	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	GRABBAR ELECTRIC CO INC	(24)		(18)			
614	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	HAROLD A SCHULTZ	352					
615	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	HUGHES NETWORK SYSTEMS LLC	2,268	2,268	2,268	2,268	1,638	252
616	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	INTRADO ENTERPRISE COLLABORATION	57,690	47,576	59,641	95,773	113,337	44,998
617	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	KEVIN BRYANT	46					
618	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	MICHAEL S NOWIN		(2)				
619	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	MOBILE MOUNTING SOLUTIONS INC	(180)	(190)	(22)			
620	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	NEXTEL COMMUNICATIONS	14,972	9,731	11,913	9,586	7,925	5,147
621	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	NI SATELLITE INC	4,286	5,888	20,467	32,925	42,375	
622	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	NI SATELLITE INC	9,123	10,787	86,763	69,634	44,555	49,972
623	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	RICH AMERICAS CORPORATION	(4)	(19)				
624	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	SATCOM GLOBAL FZE	3,232	2,099	2,857	2,338	1,094	
625	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	SHI INTERNATIONAL CORP					(2)	(68)
626	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	TALLEY COMMUNICATIONS CORP		(3)				
627	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	USA MOBILITY WIRELESS INC	483	346	164	177	83	84
628	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	VERIZON WIRELESS	949,119	897,172	1,013,231	1,068,614	2,216,001	1,207,066
629	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	WORLDWIDE CORPORATE SOLUTIONS	(33)	(10)				(2)
630	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032775	EUS - GAS T&D CONSTRUCTION	70029977	EUS - Gas T&D Construction	Other	ZONES LLC		(8)	(12)	(10)	(12)	
631	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Contract	CANUS CORPORATION	79,761	1,704				
632	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Contract	JOE PERFORMANCE SYSTEMS INC	8,400	8,400				
633	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Contract	Not assigned		429		24,884	75,905	
634	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Contract	RICH AMERICAS CORPORATION	1,638	75	2,056	1,583	83,931	
635	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Contract	SECURE BUSINESS SOLUTIONS LLC	66,094					
636	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Contract	SHI INTERNATIONAL CORP						811
637	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Contract	WORLD WIDE TECHNOLOGY LLC	246					
638	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Contract	ZONES CORPORATE SOLUTIONS	4,486					
639	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Contract	IRTH SOLUTIONS INC	191,171					
640	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Labor External	Not assigned		257,294	9,934	99	162	
641	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Labor External	Not assigned	381,796	205,068	143,755	2,012	1,014	4,404
642	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Materials	ALAN D TISCARENO	63	91				
643	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Materials	ANTHONY SCHMIDT	65					
644	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Materials	CELLULAR ACCESSORIES FOR LESS						
645	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Materials	CORINNE JOHNSON	83	348	1,329	2,943		
646	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Materials	DARRELL J CURTIS	69					
647	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Materials	DAVID D ECOSTA	1,661					
648	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Materials	DAVID J WEST	7					
649	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Materials	DEBBIE K SERIO	1,777					
650	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Materials							

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
680	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	BRUCE M HARBERT		23				
681	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	(3)	CELLULAR ACCESSORIES FOR LESS						
682	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	DINDO ANICO	609					
683	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	GENEVEY CONFERENCING	565					
684	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	GLOBAL CROSSING TELECOMMUNICATIONS	0					
685	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	GRABAR ELECTRIC CO INC	(10)					
686	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	HARGOLD & SCHULZ	18					
687	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	HUGHES NETWORK SYSTEMS LLC	7,017	6,552	6,050	6,060	5,716	1,449
688	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	IDONDMANO INC	(262)	(12)				
689	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	INTRADO ENTERPRISE COLLABORATION	54,686	80,422	92,842	223,354	285,137	78,422
690	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	ISSUE MANAGEMENT	98					
691	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	MOBILE MOUNTING SOLUTIONS INC	(8,145)	(193)	(113)	(84)		
692	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	NEXTEL COMMUNICATIONS INC	71,718	47,248	33,384	23,924	18,623	10,937
693	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	NI SATELLITE INC	32,572	30,605	33,736	29,711	30,201	
694	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	NI SATELLITE INC	191,110	191,151	205,577	131,257	121,435	118,127
695	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	RICHARD J ARCHULETA	112					
696	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	RICH AMERICAS CORPORATION	(7)	(2)				
697	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	S&S TOOL & SUPPLY INC	(3)					
698	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	SAMUEL HERBERT	1,654					
699	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	SATCOM GLOBAL FZE	8,640	8,558	8,336	9,480	10,207	9,806
700	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	SHERYL H MAR	1,025					
701	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	SHI INTERNATIONAL CORP						(11)
702	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	TALLEY COMMUNICATIONS CORP	(2)					
703	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	TIMOTHY M EUBANKS	217					
704	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	USA MOBILITY WIRELESS INC	1,184	814	36	36	249	253
705	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	VERIZON WIRELESS	2,246,379	1,991,153	2,185,066	2,019,457	2,174,496	2,145,371
706	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	ZONES CORPORATE SOLUTIONS	(60)	(63)	(34)		(4)	(1)
707	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70030083	EUS - Gas T&D Operations	Other	ZONES LLC	(1)	(1)	2	0	(5)	(1)
708	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70040061	SVC TO MAIN - ALAMEDA COUNTY	Labor External	Not assigned						
709	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70040061	SVC TO MAIN - ALAMEDA COUNTY	Labor Internal	Not assigned					9,140	566
710	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70040062	SVC TO MAIN - AMADOR COUNTY	Labor Internal	Not assigned						
711	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70040063	SVC TO MAIN - BUTTE COUNTY	Labor Internal	Not assigned					7,367	4,330
712	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70040064	SVC TO MAIN - COLUSA COUNTY	Labor Internal	Not assigned					816	
713	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032776	EUS - GAS T&D OPERATIONS	70040100	SVC TO MAIN - CONTRA COSTA COUNTY	Labor Internal	Not assigned					5,741	
714	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Contract	CANUS CORPORATION	927	66				
715	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Contract	RICH AMERICAS CORPORATION	Not assigned			1,797		6,079
716	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Contract	RICH AMERICAS CORPORATION	Not assigned		350			
717	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Contract	SECURE BUSINESS SOLUTIONS LLC	254					
718	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Contract	ZONES CORPORATE SOLUTIONS	1,430					
719	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Labor External	Not assigned	1,555	598	16			
720	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Labor Internal	Not assigned	41,591	19,637	37,070	19,512	178	
721	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Materials	CELLULAR ACCESSORIES FOR LESS	224					
722	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Materials	IDONDMANO INC	16					
723	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Materials	NI SATELLITE INC	35		259	19		
724	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Materials	STADTNER CO INC	0		5,038			
725	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Materials	ZONES CORPORATE SOLUTIONS	2,395		1,473	451		
726	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Materials	ZONES LLC	1,167		1,167	1,456		
727	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	ALFREDA SMITH	188					
728	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	AMERICAN MESSAGING SERVICES LLC	170	202	175	185	204	190
729	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	AT&T MOBILITY LLC	6,210	8,938	4,821	9,664	10,498	10,291
730	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	CELLULAR ACCESSORIES FOR LESS	(4)					
731	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	GENEVEY CONFERENCING	204					
732	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	HUGHES NETWORK SYSTEMS LLC	756	756	756	756	756	126
733	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	INTRADO ENTERPRISE COLLABORATION	9,235	21,441	44,559	26,850	6,633	2,087
734	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	NEXTEL COMMUNICATIONS	246					
735	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	NI SATELLITE INC	234	950	753	19,783	15,772	21,843
736	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	Not assigned	11,684	11,986	8,631	6,644	10,592	11,494
737	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	RICH AMERICAS CORPORATION	0					
738	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	SATCOM GLOBAL FZE	212	2,815	2,396	6,722	5,561	3,876
739	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	STADTNER CO INC	(59)					
740	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	USA MOBILITY WIRELESS INC		43				
741	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	VERIZON WIRELESS	19,608	37,120	55,620	63,795	69,268	64,391
742	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	ZONES CORPORATE SOLUTIONS	(6)	(1)				
743	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032777	EUS - OTHER	70029983	EUS - Other	Other	ZONES LLC			2	2		
744	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Contract	CANUS CORPORATION	1,590	44				
745	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Contract	RICH AMERICAS CORPORATION	4,661				3,042	5,966
746	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Contract	RICH AMERICAS CORPORATION	Not assigned					
747	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Labor External	DR MCNATTY & ASSOCIATES INC	112,792					
748	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Labor External	Not assigned	5,253	1,544				
749	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Labor Internal	Not assigned	27,289	7,239	16,200	197		
750	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Materials	Not assigned	188	4	4			
751	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Materials	ZONES CORPORATE SOLUTIONS	11,412	415				
752	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Materials	ZONES LLC			355	359		
753	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Other	AT&T MOBILITY LLC	41,454	21,705	24,025	3,843	2,545	2,562
754	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Other	INTRADO ENTERPRISE COLLABORATION	56,927	47,636	35,594	2,841		
755	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Other	NEXTEL COMMUNICATIONS	5,481	2,243	2,037	157		
756	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Other	NI SATELLITE INC	540	293				
757	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Other	Not assigned	68,760	48,123	18,479	25		
758	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Other	SATCOM GLOBAL FZE	636	649	55			
759	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Other	USA MOBILITY WIRELESS INC	82	76				
760	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Other	VERIZON WIRELESS	144,714	129,742	126,587	14,502	6,060	3,463
761	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Other	ZONES CORPORATE SOLUTIONS	(20)	(4)				
762	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032778	EUS - GAS MAJOR PROJECTS & PROGRAMS	70029984	EUS - Gas Major Projects & Programs	Other	ZONES LLC						
763	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS - Nuclear Generation	70029981	EUS - NUCLEAR GENERATION	Contract	AUTODISK INC		288	(1)	(1)		
764	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS - Nuclear Generation	70029981	EUS - NUCLEAR GENERATION	Contract	CANUS CORPORATION	25,677	5,456				
765	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS - Nuclear Generation	70029981	EUS - NUCLEAR GENERATION	Contract	Not assigned	5,114	3,063				
766	Cloud Subscriptions, Vendor Service Agreements,												

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
794	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	GLOBALSTAR USA	827	751	991	270		
795	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	HUGHES NETWORK SYSTEMS LLC	756	756	756	1,529	362	
796	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	IDONDMAND INC	(11)					
797	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	INTRADO ENTERPRISE COLLABORATION	24,894	28,103	31,009	118,166	134,940	61,436
798	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	KENNETH J SCHROEDER	139					
799	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	MARCUS GONSALES	1,212					
800	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	MICHAEL GROVES	960					
801	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	MOBILE MOUNTING SOLUTIONS INC	(5)					
802	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	NEXTEL COMMUNICATIONS	855	692	606	652	2,396	2,223
803	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	NI SATELLITE INC	15,368	15,043	15,096	12,590	13,325	12,581
804	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	NI SATELLITE INC	309,631	262,385	214,541	107,055	54,869	61,324
805	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	RICOH AMERICAS CORPORATION	(4)			(7)		
806	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	SATCOM GLOBAL FZE	17,402	18,078	19,921	19,589	18,208	18,226
807	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	SHI INTERNATIONAL CORP						(2)
808	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	SHI INTERNATIONAL CORP	130	137	74	76	83	84
809	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	VERIZON WIRELESS	370,303	314,370	342,025	370,806	369,405	341,052
810	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	ZONES CORPORATE SOLUTIONS	(26)	(4)	17			
811	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032779	EUS- Nuclear Generation	70029981	EUS- NUCLEAR GENERATION	Other	ZONES LLC					(8)	
812	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	BAY BRIDGE DECISION TECH INC	64,747					
813	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	CANUS CORPORATION	74,415	3,505				
814	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	DELL MARKETING LP				149		
815	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	DRIVESWERS INC	1,989	9,260	97			
816	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	ITRON		49,673				
817	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	KERN USA LLC	41,172	61,966	3,964	35,000	42,000	28,000
818	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	MILNER TECHNOLOGIES INC	20,700					
819	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	NI ASSOCIATES		313			21,532	(21,532)
820	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	RICOH AMERICAS CORPORATION	951	175	403			
821	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	SALESFORCE.COM		18,900	20,223			
822	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	SECURE BUSINESS SOLUTIONS LLC	34,895					
823	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	SHI INTERNATIONAL CORP						(811)
824	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	TABULAI SOFTWARE INC	92,801					
825	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Contract	ZONES CORPORATE SOLUTIONS	29,446					
826	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Labor External	DRIVESWERS INC	22,638					
827	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Labor External	DRIVESWERS INC		2,358				
828	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Labor External	INFSYS LTD	412	443				
829	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Labor External	KERN USA LLC	21,680					
830	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Labor External	KERN USA LLC		6,999	38,501			
831	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Labor External	NI ASSOCIATES	46,410	44,650	32,059	25		
832	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Labor Internal	NI ASSOCIATES	62,234	353,497	204,605	2,122	3,651	
833	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	ABE MEDICAL LAB	118	15				
834	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	ALAN D TISCARENO	105					
835	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	CORNING JOHNSON	996	1,534	3,898	-		
836	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	DELL MARKETING LP		209				
837	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	DENNY & SCHOENBERG	487					
838	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	DRIVESWERS INC	54	294				
839	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	GRABBAR ELECTRIC CO INC	350	336			2,122	
840	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	HARCO FARMERS	134					
841	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	HAROLD A SCHULTZ	98	182				
842	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	IDONDMAND INC	4,048	365				
843	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	JOHN P T MARTIN	676	193				
844	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	KIRK R BILBRO	59					
845	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	MATTHEW J JACKSON	2,236	134				
846	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	MICHAEL J MITCHELL	155					
847	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	MICHAEL S HEDEN	214	55				
848	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	MICHAEL S HEDEN	57	65				
849	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	MOBILE MOUNTING SOLUTIONS INC	34,578	7,735	4,211			
850	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	NI ASSOCIATES	2,975	221	105	272		
851	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	NI ASSOCIATES	49					
852	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	ROBERT C EVERHORN	4					
853	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	S&S TOOL & SUPPLY INC	228					
854	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	SALESFORCE.COM	18,000	92				
855	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	SAMUEL HERBERT	10	92				
856	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	SHERYL M MAR	362					
857	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	SHI INTERNATIONAL CORP		251				
858	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	SHI INTERNATIONAL CORP	3,257	1,820	1,344		21,940	
859	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	SHI INTERNATIONAL CORP	68,234	15,804	293	287	1,787	
860	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Materials	ZONES CORP	1,660	11,660	10,169	1,342		
861	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	AMERICAN MESSAGING SERVICES LLC	449	478	383	412	458	427
862	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	ANTHONY L BOTTOMS		12				
863	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	AT&T MOBILITY LLC	233,342	103,164	124,477	94,254	94,036	102,241
864	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	DRIVESWERS INC	(41)	(141)	(49)			
865	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	GENEVOY CORP/GENCO INC	3,012	92				
866	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	GLOBALSTAR USA	5,399	1,435				
867	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	GRABBAR ELECTRIC CO INC	(7)				(42)	
868	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	HAROLD A SCHULTZ	209					
869	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	HUGHES NETWORK SYSTEMS LLC	12,264	10,049	9,423	9,156	2,142	126
870	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	IDONDMAND INC	(90)	(8)				
871	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	INTRADO ENTERPRISE COLLABORATION	189,936	224,499	245,283	175,454	174,353	80,216
872	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	JAMES MOUNTAIN		12				
873	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	JESSE G GARCIA		46	820			
874	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	JOHN C SKUTT						
875	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	JOHN PRINCE	30					
876	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	KERN USA LLC	(319)	(1,389)	(779)	(850)	(770)	(560)
877	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	MICHAEL J SMITH	257					
878	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	MICHAEL S HEDEN	(1)	(2)				
879	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	MOBILE MOUNTING SOLUTIONS INC	(45)	(145)	(82)			
880	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	NEXTEL COMMUNICATIONS	5,484	3,382	2,356	2,457	3,962	3,048
881	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	NI SATELLITE INC	70,610	98,297	107,781	12,202	7,270	4,444
882	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS- CUSTOMER CARE	Other	NI ASSOCIATES	240,401	276,650	300,556	203,905	306,114	205,704
883	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032780	EUS- Customer Care	70029972	EUS								

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
908	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Labor External	DR MCNATTY & ASSOCIATES INC	16,979					
909	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Labor External	INFOSYS LTD		89				
910	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Labor External	Not assigned	35,103					
911	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Labor External	PRIMO COMMERCIAL LLC	180,000					
912	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Labor Internal	Not assigned	529,922	115,156				
913	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	ALAN D TISCARENO	22					
914	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	CORNING JOWNSON	1,105	3,428	827			
915	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	DEBBIE B SERIO	184					
916	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	GRABBAR ELECTRIC CO INC	9,520	435				
917	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	GREGORY SANCHEZ	946					
918	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	HANCOIL & SCHULTZ	1					
919	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	IDONEDIMANO INC	1,030	83				
920	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	JOSHUA FRISK	201					
921	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	MATTHEW J JACKSON	247					
922	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	MICHAEL S ROEN	51					
923	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	MITCHELL SNOW INC	1,074					
924	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	MOBILE MOUNTING SOLUTIONS INC	5,098	368				
925	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	Not assigned	4,106		43			
926	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	RICHARD J ARCHULETA	160	269			50	3
927	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	S&S TOOL & SUPPLY INC	401					
928	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	SAMUEL HERBERT	16					
929	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	STANDARD REGISTOR INC	67					
930	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	STUART B WATSON	136					
931	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	WORLD WIDE TECHNOLOGY LLC	3,257					
932	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	ZONES CORPORATE SOLUTIONS	32,904	4,514		265		
933	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Materials	ZONES LLC	4,718	3,510			319	
934	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	AL A BUENAVENTURA	258					
935	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	AMERICAN MESSAGING SERVICES LLC	2,029	867				
936	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	ANTHONY SCOTTONE	10					
937	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	ASCENDANT STRATEGY MANAGEMENT	(191)					
938	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	AT&T	335					
939	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	AT&T MOBILITY LLC	165,617	15,211				
940	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	CYNTHIA S ROEN	198					
941	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	DEBBIE B SERIO	1,035		3,379			
942	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	DRIVESAVERS INC	(49)					
943	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	EDGEWORKS CONFERRING	461					
944	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	GLOBALSTAR USA	827	174				
945	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	GRABBAR ELECTRIC CO INC	(190)	(8)				
946	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	GREGORY A WILLIAMS	22					
947	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	HUGHES NETWORK SYSTEMS LLC	87	86				
948	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	HUGHES NETWORK SYSTEMS LLC	2,268	945				
949	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	IDONEDIMANO INC	(19)	(2)				
950	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	INTRAMOD ENTERPRISE COLLABORATION	190,855	89,060		2,243	5,343	
951	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	JOHN C SAUT	83					
952	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	MICHAEL J MITCHELL	486					
953	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	MICHAEL J SMITH	32					
954	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	MICHAEL J SNOW INC	(14)					
955	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	MOBILE MOUNTING SOLUTIONS INC	(102)	(7)				
956	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	NEXTEL COMMUNICATIONS	9,457	3,514				
957	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	NI SATELLITE INC	20,373	6,283				
958	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	Not assigned	20,317	32,585	308	341	28	
959	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	RICH AMERICAS CORPORATION	(23)	(1)	(7)			
960	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	S&S TOOL & SUPPLY INC	(1)					
961	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	SATCOM GLOBAL FZE	16,514	6,361				
962	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	SUSAN M MCGRAW	7					
963	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	US CELLULAR	813	301				
964	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	USA MOBILITY WIRELESS INC	1,135	337				
965	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	WIRELESS COMMUNICATIONS	927,400	273,730	562			
966	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	WORLD WIDE TECHNOLOGY LLC						
967	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	ZONES CORPORATE SOLUTIONS	(93)	(97)	(1)			
968	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032781	EUS - Safety & Shared Services	70029887	EUS - SAFETY & SHARED SERVICES	Other	ZONES LLC			(9)	(9)		
969	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	A PLUS TREE INC		4,800				
970	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	AUBURN METROLOGY LAB INC	105					
971	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	AVANT US INC					730	
972	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	BENEFARM ASSOCIATES INC	20,000					
973	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	BLOK CONSTRUCTION CO INC		1,100				
974	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	CANUS CORPORATION	121,612	4,678				
975	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	DRIVESAVERS INC	20,466	14,161	3,407			2,511
976	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	ETI TELECOM INC			455		(285)	
977	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	GREENLIGHT TECHNOLOGIES INC	30,000					
978	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	KINETIC DATA INC	9,500					
979	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	MATTHEW J JACKSON					50	
980	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	METROPOLITAN ELECTRICAL CONST INC		267				
981	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	MICROSOFT CORP	1,033					
982	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	MRO INTEGRATED SOLUTIONS LLC		2,163				
983	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	NEWCOMB TREE EXPORTS INC			514			
984	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	Not assigned		609	901	-	6,794	20,728
985	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	RICH AMERICAS CORPORATION	1,052	1,140	1,989	653	22,919	
986	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	S&S TOOL & SUPPLY INC		56				
987	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	SECURE BUSINESS SOLUTIONS LLC	118,257					
988	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	SHI INTERNATIONAL CORP			3,316			1,522
989	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	SHIMON INC	299					
990	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	SUSAN M MCGRAW		20	36			
991	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	TABLAU SOFTWARE INC	22,389					
992	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	W BRADLEY ELECTRIC INC		383				
993	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	ZONES CORPORATE SOLUTIONS	103,306	7,953	11,135			
994	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Contract	ZONES LLC		1,882	1,137		648	-
995	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Labor External	COGNIZANT WORLDWIDE LIMITED						
996	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	70029880	EUS - INFORMATION TECHNOLOGY	Labor External	DEVELOPMENT DIMENSIONS		900		</		

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
1022	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	DRIVESAVERS INC	875	3,219	(86)			97
1023	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	EDWARD J HOOD	719	57	128			
1024	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	ELECTROSONIC INC		1,846				
1025	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	MARCEL S WEIDNER		1,000				
1026	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	GE MDS LLC	1,562			103		
1027	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	GEORGE A MURILLO		450				
1028	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	GRABBAR ELECTRIC CO INC	8,994	5,739	12,025	4,914	1,971	
1029	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	GREGORY SCHNEITZ						
1030	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	GUY ROBERTS		419				
1031	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	HEALTH EDUCATION SERVICES LLC		181				
1032	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	ICHONSON INC	2,688					
1033	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	I A HOOD		472				
1034	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	JAMES J HARBERT		101				
1035	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	JANNY HANAN						36
1036	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	JERRY KUHN	168					
1037	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	JESSE G GARCIA		235				
1038	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	JOHN PRINCE	36			96		
1039	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	JOSHPH A PEARCE	1,205					
1040	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	JOSHUA FRISK	342					
1041	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	JOSHUA T TROTT		416				
1042	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	KATHLEEN CHAPMAN	40					
1043	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	KENNETH D KOLEBY	175		95			
1044	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	KIKUYU U SHAW		394				
1045	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	LIGHTWAVE TECHNOLOGIES INC		366	358			
1046	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	LORETTA SMITH		664				
1047	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	MATTHEW JACKSON	4,540	3,425	2,325	654		
1048	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	METROPOLITAN ELECTRICAL CONST INC		4,355				
1049	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	MICHAEL S BOEN	263	13	199			
1050	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	MICHAEL TULL						
1051	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	MITCHELL SNAOW INC	9,707	10,399	10,311	1,147		
1052	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	MJ SALES INC	70					
1053	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	MOBILE MOUNTING SOLUTIONS INC	11,366	1,116	883	375		
1054	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	MORICALOPE		162				
1055	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	MRO INTEGRATED SOLUTIONS LLC		23,849	40,929	5,251		1,113
1056	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	NAL CAM MOVING SERVICES			800	400	(40)	
1057	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	Net Hosted	37,299	15,473	14,551	938		20
1058	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	OFFICE RELIEF	1,734	1,046	262			
1059	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	ONESOURCE SUPPLY SOLUTIONS LLC	14					
1060	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	PATRICK J CANADA	95					
1061	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	PAUL GJ LAMARCA		2,435				
1062	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	PIVOT INTERIORS INC		1,756	1,756			
1063	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	POWER PRODUCTS HOLDING CO		205				
1064	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	RMG ENTERPRISE SOLUTIONS INC			18,338			
1065	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	ROBERT F YOUNG	900					
1066	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	RYAN A WETMORE	141	6				
1067	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	S&S TOOL & SUPPLY INC	16,023	9,979				
1068	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	S&S DESIGN INC		2,723	304			
1069	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	SAMUEL HERBERT	238					
1070	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	SAN LUIS POWERHOUSE			1,007			
1071	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	SCHWEITZER ENGINEERING LABS INC	(7,871)					
1072	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	SIGNAL FIBERZ LTD		203				
1073	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	STANDARD REGISTER INC	397					
1074	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	STAR MICROWAVE SERVICE CO		2,152				
1075	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	STEVE A SATO		487				
1076	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	STEVEN WATSON		477				
1077	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	SUPPLY TECHNOLOGY INC	172					
1078	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	SUSAN M MCSWAIN	29	682				
1079	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	TALLY COMMUNICATIONS CORP	2,744		4,694	1,193		
1080	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	THE STANDARD REGISTER COMPANY	13					
1081	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	THERESA N LATA		130	433			
1082	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	THOMAS ENLOPE	448					
1083	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	TIMOTHY MELBURNKS	65					
1084	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	VEEK INC		632				
1085	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	W BRADLEY ELECTRIC INC		383				
1086	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	WORLDWIDE TECHNOLOGY LLC		4,555	64			
1087	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	ZONES CORPORATE SOLUTIONS	742,659	41,766	66,945	33,500	46,342	772
1088	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Materials	ZONES LLC		486	35,971	27,603	45,511	
1089	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	ALAN D VISCARENO		422	62			
1090	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	ALFRED SHAW		697	48			
1091	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	ALONZO M BECERRA						
1092	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	AMERICAN MESSAGING SERVICES LLC	1,051	759	593	677	782	612
1093	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	ANTHONY D JONES			162			
1094	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	ANTHONY L BOTTOMS	130	343				
1095	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	ANTHONY P SUMMERS	33	314				
1096	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	ANTHONY SCHMIDT	1,361					
1097	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	AT&T	210	820		3,398		125
1098	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	AT&T CORP		1,226				
1099	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	AT&T INC			1,918			
1100	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	AT&T MOBILITY LLC	453,488	131,607	207,230	182,985	214,449	114,436
1101	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	AUBURN METROLOGY LAB INC		(16)	(2)			
1102	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	BRIAN A GORDON		331				
1103	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	BRIUCE M HARBERT	33	63				
1104	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	CELLULAR ACCESSORIES FOR LESS		(29)				
1105	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	CHAD A ENOS			286			
1106	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	CHARLENE C WONG	52					
1107	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	CHARTER COMMUNICATIONS HOLDING LLC				814		
1108	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	CHRYSTIE GREEN		402				
1109	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	DARRIN V ARBUCKLE	43					
1110	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	DARRI S KEHRRES		1,058				
1111	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	DAVID D HENNING						
1112	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	DAVID S SELSTAD						
1113	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	DINDO ANICO	669					
1114	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	DIRECTV LLC						257
1115	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	TECHNOSPARK INC	(339)	(163)	(95)			
1116	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information										

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
1136	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	JAMES M MOUNT		45				
1137	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	JARVIS M WHITFIELD		80				
1138	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	JESSE G GARCIA		123				
1139	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	JOHN C SATO		1,901	135			
1140	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	JOHN E POOLE		465				
1141	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	JOHN LEE		141				
1142	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	JOSHUA HAMMON		88				
1143	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	KETH L JOHNSON	604					
1144	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	KIKUFU U SHAUW	150					
1145	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	KINETIC DATA INC	(190)					
1146	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	KURTIS W BREMER	445					
1147	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	LAARIN I REYES- ECHHORN	174					
1148	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	LAURAL I IZANO	1,866					
1149	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	LEVEL 1 COMMUNICATIONS LLC						70,932
1150	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	LIGHTVEER TECHNOLOGIES INC	(7)	(7)				
1151	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	LINKSOURCE TECHNOLOGIES LLC	125,000					
1152	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	LORRETTA L SMITH		74	185		784	
1153	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MARCUS GONSALES	562					
1154	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MARX A FEGLEY						
1155	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MARK R WEBB	130					
1156	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MARLO EVANS	337					
1157	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MATTHEW J JACKSON	9	340	70			
1158	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MATTHEW N REDDELL	682					
1159	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	METROPOLITAN ELECTRICAL CONST INC			(33)			
1160	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MICHAEL S BERN		1,084	5,616			
1161	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MICHAEL W STATES	625					
1162	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MITCHELL S NOW INC	703	(168)	(111)	(8)		
1163	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MI SALES INC	(2)					
1164	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MOBILE MOUNTING SOLUTIONS INC	(129)	(23)	(18)			
1165	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MONICA LOPEZ	28		236			
1166	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	MRO INTEGRATED SOLUTIONS LLC	(507)	(826)	(63)	(28)		
1167	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	NEXCOMB TREE EXPORTS INC	10		5,916	8,290	7,443	
1168	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	NEXTEL COMMUNICATIONS	12,439	7,214				
1169	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	NI SATELLITE INC	21,537	26,084	29,705	31,811	30,372	74,546
1170	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	NORTH AMERICAN UTILITY TRAINING		(724)				
1171	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	NETSCOUT	160,000	205,044	280,694	240,314	451,966	323,834
1172	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	OFFICE RELIEF	(9)	(6)				
1173	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	PATRICK H CUTTS			69			
1174	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	PAUL G LAMOURIA		14				
1175	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	PERFORMA TECHNICAL REHABILITATION NETWORK	204					
1176	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	PONDEROSA TELEPHONE CO						556
1177	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	PPN INTERMEDIATE HOLDCO INC & SURS		140				
1178	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	R A LOPEZ			39			
1179	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	RANDY A VARGAS						84
1180	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	RATTAMANN S SANIKONE	7					
1181	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	RICHARD J ACHULETA		11				
1182	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	RIEDEL AMERICAN CORPORATION	(5)	(3)	(4)	(5)		
1183	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	S&S TOOL & SUPPLY INC	(22)	(13)				
1184	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	SAFE DESIGNS INC	(73)	(6)				
1185	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	SATCOM GLOBAL FBZ	12,614	18,583	20,647	17,961	17,548	11,128
1186	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	SHELBY L MAE	186					
1187	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	SHI INTERNATIONAL CORP						(63)
1188	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	STANDARD REGISTER INC	(8)					
1189	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	STAR MICROWAVE SERVICE CO			(47)			
1190	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	STEVE A		102				
1191	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	SUSAN M MCSWAIN	3,136	1,892	2,816			
1192	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	TALLY COMMUNICATIONS CORP	(77)	(68)				
1193	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	THE GIST GROUP INC	248	(28)				
1194	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	THERESA N LAITA		330				
1195	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	THOMAS ENLOPE	856					
1196	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	TIMOTHY M EUBANKS	115					
1197	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	UTELLUM			23			
1198	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	USA MOBILITY WIRELESS INC	2,305	1,590	987	812	498	590
1199	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	VEEX INC		(11)				
1200	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	VERIZON BUSINESS NETWORK SERVICES						20,411
1201	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	VERIZON WIRELESS	1,631,266	1,071,107	1,377,220	1,312,076	1,333,651	1,209,217
1202	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	WATLAND N TOM	60					
1203	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	WOMBAT SECURITY TECHNOLOGIES INC	(1,094)	(1,094)	(1,094)			
1204	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	WORLDVIEW TECHNOLOGY LLC						
1205	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	X2NSAT	2,310	382	116	268	3,940	
1206	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	ZONES CORPORATE SOLUTIONS	(1,234)	(121)	(168)	(75)	(94)	(2)
1207	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032782	EUS - Information Technology	7002980	EUS - INFORMATION TECHNOLOGY	Other	ZONES LLC		(94)	(71)	(62)	(39)	
1208	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	BRIGHTGLOVE INC		20,332				
1209	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	CANUS CORPORATION	4,569					
1210	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	DRIVESAVERS INC	2,430					
1211	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	E-RESOURCES LLC	11,400					
1212	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	FINANCE PRO CONSULTING LLC	36,180					
1213	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	Not assigned	72,360	325,620				
1214	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	ZONES CORPORATE SOLUTIONS	4,211					
1215	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	Not assigned		496				
1216	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	Not assigned	56,596	2,264				
1217	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	DRIVESAVERS INC	162					
1218	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	Not assigned	145	1				
1219	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	ZONES CORPORATE SOLUTIONS	7,734	91				
1220	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	AL A BUENAVENTURA	339					
1221	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	ATB MOBILITY IT LLC	33,433	1,773				
1222	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	BRIGHTGLOVE INC						
1223	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	DRIVESAVERS INC	(52)					
1224	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	E-RESOURCES LLC	(289)					
1225	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	ENTERPRISE CORP/CONFEDING						
1226	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	INTRADO ENTERPRISE COLLABORATION	30,561	12,402				
1227	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	NEXTEL COMMUNICATIONS	3,464	652				
1228	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032783	EUS - TALENT MANAGEMENT AND INCLUSION	7003008	EUS - Talent Management and Inclusion	Contract	Not assigned	37,092	5,549				
1229	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts,												

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021	
1250	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Materials	Not assigned	178	83	9	2	3		
1251	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Materials	RICHARD J ARCHULETA	98						
1252	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Materials	STAYTNER CO INC			271				
1253	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Materials	ZONES CORPORATE SOLUTIONS	11,945	783		58			
1254	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Materials	ZONES LLC		360	132		342		
1255	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	ALFREDA SMITH			606				
1256	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	ANTHONY BOTTOMS			288				
1257	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	ASCENDANT STRATEGIC MANAGEMENT			191				
1258	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	AT&T MOBILITY LLC	32,832	25,087	24,069	25,261	25,777	22,230	
1259	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	DRIVESIVERS INC	(97)	(192)					
1260	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	INTRADO ENTERPRISE COLLABORATION	64,865	85,575	98,917	54,959	34,792	14,208	
1261	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	MI SALS INC		(2)					
1262	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	NI SATELLITE INC	1,456	1,341	1,507	129			
1263	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	Not assigned	88,088	74,799	68,249	39,888	56,356	41,193	
1264	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	RICH AMERICAS CORPORATION							
1265	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	SATCOM GLOBAL FZE	637	638	707	61			
1266	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	SHI INTERNATIONAL CORP						(3)	
1267	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	USAMOBILITY WIRELESS INC	83	83	82	7			
1268	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	VERIZON WIRELESS	94,503	80,834	90,493	86,506	86,993	83,116	
1269	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	WINGSHUTTLE LLC			(102)				
1270	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	ZONES CORPORATE SOLUTIONS	(44)	(3)		(0)			
1271	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032784	EUS - Finance & Risk	70029976	EUS - FINANCE & RISK	Other	ZONES LLC			(3)		(3)		
1272	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	ARTICULATE GLOBAL INC	29,125						
1273	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	ASCENDANT STRATEGIC MANAGEMENT			2,345				
1274	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	AUTHOR IT SOFTWARE CORPORATION			89,600				
1275	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	CANUS CORPORATION			6,812	182			
1276	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	DRIVESIVERS INC			4,959				
1277	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	FOCUS LEARNING CORPORATION			11,197				
1278	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	MCROSS CORP			2,053				
1279	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	Not assigned		224,100	-		6,921	19,418	
1280	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	RICH AMERICAS CORPORATION			3,676		21,933		
1281	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	SECURE BUSINESS SOLUTIONS LLC			7,574				
1282	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	SHI INTERNATIONAL CORP					244	(811)	
1283	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	ZONES CORPORATE SOLUTIONS			19,262				
1284	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	ZONES LLC			174				
1285	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	LABOR EXTERNAL	8,645	16,693	8,911				
1286	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	LABOR INTERNAL	69,186	67,173	49,294				
1287	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	ALAN D TISCARENO			122				
1288	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	CORINNE JOHNSON			150				
1289	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	DRIVESIVERS INC			162				
1290	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	IDONDMANO INC			33				
1291	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	Not assigned		174	45	13	4		
1292	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	ZONES CORPORATE SOLUTIONS		5,727	4,501	1,173	232		
1293	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	ZONES LLC					148		
1294	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	AMERICAN MESSAGING SERVICES LLC			125				
1295	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	ASCENDANT STRATEGIC MANAGEMENT			(47)				
1296	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	AT&T MOBILITY LLC	28,146						
1297	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	DRIVESIVERS INC	(102)	24,197	30,413	36,934	42,830	42,288	
1298	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	GENEVEY CONFERENCING		6,643	1,050				
1299	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	HUGHES NETWORK SYSTEMS LLC		756	756	756	756	126	
1300	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	Not assigned	63,999	72,191	112,765	75,821	97,781	58,687	
1301	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	JAMES M MOUNT			10				
1302	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	NEXTEL COMMUNICATIONS		5,919	4,468	4,565	3,920	4,632	4,305
1303	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	Not assigned		69,205	65,104	65,551	36,978	39,886	6,606
1304	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	SATCOM GLOBAL FZE		1,324	2,024	2,875	904	723	
1305	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	SHI INTERNATIONAL CORP		(5)	5			(1)	(15)
1306	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029976	EUS - FINANCE & RISK	Other	USAMOBILITY WIRELESS INC		245	239	164	165	166	154
1307	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029976	EUS - FINANCE & RISK	Other	VERIZON WIRELESS	161,648	172,160	245,594	218,751	225,880	360,707	
1308	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	ZONES CORPORATE SOLUTIONS	(51)	(1)	4				
1309	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032785	EUS - Human Resources	70029979	EUS - Human Resources and EVP	Contract	ZONES LLC			(6)				
1310	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	CANUS CORPORATION		553					
1311	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	Not assigned			2,430				
1312	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	Not assigned					7,259	21,354	
1313	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	RICH AMERICAS CORPORATION					23,827		
1314	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	SHI INTERNATIONAL CORP							
1315	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	LABOR EXTERNAL		586	2,138	1,811			
1316	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	LABOR INTERNAL		5,718	37,090	49,285	594		894
1317	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	DRIVESIVERS INC			183				
1318	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	Not assigned							
1319	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	ZONES CORPORATE SOLUTIONS			234				
1320	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	ZONES LLC			195				
1321	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	AT&T MOBILITY LLC	14,306	12,996	18,736	195	22,222	20,917	23,763
1322	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	DRIVESIVERS INC							
1323	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029976	EUS - FINANCE & RISK	Other	INTRADO ENTERPRISE COLLABORATION		12,668	31,850	46,757	46,125	31,871	13,602
1324	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	NEXTEL COMMUNICATIONS		748	1,562	2,330	2,265	2,767	2,424
1325	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	NI SATELLITE INC			573	694	9,330	9,307	
1326	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	Not assigned		41,369	63,905	73,740	38,941	37,115	30,749
1327	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	SATCOM GLOBAL FZE		53	426	424	721	61	
1328	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	SHI INTERNATIONAL CORP						(24)	
1329	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	USAMOBILITY WIRELESS INC		204	245	226	89	83	
1330	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	VERIZON WIRELESS	66,765	91,901	124,280	117,284	108,555	99,326	
1331	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032786	EUS - General Counsel	70029978	EUS - GENERAL COUNSEL	Contract	ZONES CORPORATE SOLUTIONS			(3)				
1332	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032787	EUS - Regulatory Affairs	70029980	EUS - REGULATORY AFFAIRS	Contract	ROADVANTAGE INC			31,909				
1333	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032787	EUS - Regulatory Affairs	70029980	EUS - REGULATORY AFFAIRS	Contract	CANUS CORPORATION			2,806	397			
1334	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032787	EUS - Regulatory Affairs	70029980	EUS - REGULATORY AFFAIRS	Contract	IHS GLOBAL INC			2,267				
1335	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032787	EUS - Regulatory Affairs	70029980	EUS - REGULATORY AFFAIRS	Contract	Not assigned					37,220	18,458	
1336	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032787	EUS - Regulatory Affairs	70029980	EUS - REGULATORY AFFAIRS	Contract	PAULS COMPANY LLC				1,836			

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021	
1364	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032787	EUS - Regulatory Affairs	70029886	EUS - REGULATORY AFFAIRS	Other	VERIZON WIRELESS	Other	50,359	43,743	54,315	102,284	120,241	112,254
1365	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032787	EUS - Regulatory Affairs	70029886	EUS - REGULATORY AFFAIRS	Other	ZONES CORPORATE SOLUTIONS	(13)	(2)					
1366	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032787	EUS - Regulatory Affairs	70029886	EUS - REGULATORY AFFAIRS	Other	ZONES LLC							
1367	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Contract	CANUS CORPORATION	4,459	127					
1368	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Contract	DELL MARKETING LP	110						
1369	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Contract	Not assigned						1,493	4,311
1370	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Contract	RELL INC.		1,847					
1371	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Contract	RICHAM AMERICAS CORPORATION						4,833	
1372	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Contract	RMG ENTERPRISE SOLUTIONS INC.		6,878					
1373	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Contract	SECURE BUSINESS SOLUTIONS LLC		3,345					
1374	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Contract	SHI INTERNATIONAL CORP		547					
1375	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Contract	TEALUM INC.	33,000	(33,000)					
1376	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Contract	WORKFRONT INC.		18,800		18,802		18,802	
1377	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Contract	ZONES CORPORATE SOLUTIONS	4,759						
1378	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Labor External	Not assigned	11,513	3,318	736				
1379	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Labor External	OPINIONLAB INC.		98,025					
1380	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Labor External	SHI INTERNATIONAL CORP	3,889						
1381	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Labor Internal	Not assigned	69,538	25,915	13,680				
1382	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Materials	DELL MARKETING LP	227						
1383	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Materials	Not assigned	428	(20)	(74)	4			
1384	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Materials	RETURN PATH INC.	35,250	(1,960)	(7,390)				
1385	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Materials	SHI INTERNATIONAL CORP		2,019					
1386	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Materials	ZONES CORPORATE SOLUTIONS	2,146	(4)		406			
1387	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	ALFREDA SMITH		248					
1388	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	AMERICAN MESSAGING SERVICES LLC	141						
1389	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	AT&T MOBILITY I LLC	17,830	9,589	9,968	3,135	2,234	2,864	
1390	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	DINDO ANICO	21						
1391	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	INTRADO ENTERPRISE COLLABORATION	95,277	115,204	21,908	8,861	6,549	2,144	
1392	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	MARC CORP	547						
1393	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	NEXTEL COMMUNICATIONS	953	1,129	151				
1394	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	NI SATELLITE INC.	2,758	2,680	2,887	1,616	843	778	
1395	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	Not assigned	45,108	18	6,997	5,546	4,488	5,277	
1396	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	Not assigned		(34)					
1397	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	SATCOM GLOBAL FZE		324					
1398	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	VERIZON WIRELESS	167,470	137,030	132,584	53,251	47,527	52,113	
1399	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032788	EUS - Corporate Affairs	70029891	EUS - CORPORATE AFFAIRS	Other	ZONES CORPORATE SOLUTIONS		(15)					
1400	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Contract	AXIOM SERVICES INC.	3,306						
1401	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Contract	BUCKLES-SMITH & STATE ELECTRIC	-						
1402	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Contract	CANUS CORPORATION	8,148	330					
1403	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Contract	Not assigned	18,100						
1404	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Contract	Not assigned		42,721	4,452		18,176	59,953	
1405	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Contract	OPERATION TECHNOLOGY INC	1,733						
1406	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Contract	RICHAMERICAS CORPORATION	57,163		17,660	10,037	65,062		
1407	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Contract	SECURE BUSINESS SOLUTIONS LLC		26,249					
1408	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Contract	SHI INTERNATIONAL CORP	18,014						656
1409	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Contract	ZONES CORPORATE SOLUTIONS	6,204			189			
1410	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Labor External	Not assigned	1,499	3,021	3,346				
1411	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Labor Internal	Not assigned	139,975	47,146	37,509		414	2,005	
1412	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Materials	BRUCE M HARBERT	83						
1413	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Materials	CELLULAR ACCESSORIES FOR LESS							
1414	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Materials	JOHNNIE JOHNSON	1,226	336	8,031				
1415	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Materials	DAVID J WEST	436						
1416	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Materials	MICHELLE SNOW INC	122						
1417	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Materials	Not assigned	389	52	89	6		1	
1418	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Materials	Not assigned	52						
1419	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Materials	TIMOTHY M EUBANKS	788						
1420	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Materials	ZONES CORPORATE SOLUTIONS	26,797	1,260	831	193		109	
1421	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Materials	Not assigned							
1422	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	AT&T MOBILITY I LLC	60,317	37,662	44,727	80,591	78,044	81,387	
1423	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	BUCKLES-SMITH & STATE ELECTRIC	(15)						
1424	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	CELLULAR ACCESSORIES FOR LESS							
1425	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	INTRADO ENTERPRISE COLLABORATION	25,076	47,709	61,704	81,277	81,763	39,623	
1426	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	MICHELLE SNOW INC	(2)						
1427	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	NEXTEL COMMUNICATIONS	2,619	2,169	1,732	6,749	7,299	4,936	
1428	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	NI SATELLITE INC.	987	672	945	9,196	8,778	5,161	
1429	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	Not assigned	95,987	92,066	117,309	93,526	105,064	100,115	
1430	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	PHILLIP J NUNES			49				
1431	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	RICHAMERICAS CORPORATION				(7)			
1432	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	SHI INTERNATIONAL CORP	-						(80)
1433	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	TIMOTHY M EUBANKS	19						
1434	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	U S CELLULAR	180						
1435	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	USAMOBILITY WIRELESS INC	163	157	82	158	90	77	
1436	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	VERIZON WIRELESS	205,790	160,530	198,554	376,343	401,721	392,148	
1437	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	ZONES CORPORATE SOLUTIONS	(66)	(1)	(1)	(0)		(0)	
1438	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032789	EUS - GAS PORTFOLIO MGMT & ENGINEERING	70029892	EUS - Gas Portfolio Mgmt & Engineering	Other	ZONES LLC				(1)			
1439	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032790	EUS - ENTERPRISE PROGRAMS	70029898	EUS - Enterprise Programs	Contract	CANUS CORPORATION	2,643						
1440	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032790	EUS - ENTERPRISE PROGRAMS	70029898	EUS - Enterprise Programs	Contract	SECURE BUSINESS SOLUTIONS LLC	848						
1441	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032790	EUS - ENTERPRISE PROGRAMS	70029898	EUS - Enterprise Programs	Contract	ZONES CORPORATE SOLUTIONS	2,969	2,394					
1442	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032790	EUS - ENTERPRISE PROGRAMS	70029898	EUS - Enterprise Programs	Labor External	Not assigned	2,900	128					
1443	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032790	EUS - ENTERPRISE PROGRAMS	70029898	EUS - Enterprise Programs	Labor Internal	Not assigned	39,211	671					
1444	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032790	EUS - ENTERPRISE PROGRAMS	70029898	EUS - Enterprise Programs	Materials	Not assigned	81	14			4		
1445	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5032790	EUS - ENTERPRISE PROGRAMS	70029898	EUS - Enterprise Programs	Materials	ZONES CORPORATE SOLUTIONS	6,135	1,359					
1446	Cloud Sub													

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
1478	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029953	AS IS Nwkw EUS (LegCon) Tait/Harris	Contract	TAIT NORTH AMERICA INC	104,550	40,198	196,518			
1479	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029953	AS IS Nwkw EUS (LegCon) Tait/Harris	Contract	TALLEY COMMUNICATIONS CORP		0				
1480	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029953	AS IS Nwkw EUS (LegCon) Tait/Harris	Labor External	COMSEARCH						
1481	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029953	AS IS Nwkw EUS (LegCon) Tait/Harris	Materials	COMSEARCH			15,341			
1482	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029953	AS IS Nwkw EUS (LegCon) Tait/Harris	Materials	Not assigned						
1483	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029953	AS IS Nwkw EUS (LegCon) Tait/Harris	Other	Not assigned			1,012			
1484	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029958	AS IS Nwkw EUS (LegCon) Continuum	Contract	CONTINUUM INC						
1485	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029951	AS IS Nwkw EUS (LegCon) Continuum	Labor Internal	Not assigned	2,456	119			5,764	
1486	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029958	AS IS Nwkw EUS (LegCon) Continuum	Other	Not assigned		31				
1487	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	1 E LIMITED	44,625					
1488	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	ENVIAC INC		1,418		25,000		
1489	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	FLEXERA SOFTWARE LLC				54,588		
1490	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	MICROSOFT CORP	71,941	101,096	30,208	149,550	-	-
1491	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	Not assigned	5,085,387	5,860,426	9,825,915	12,394,316	87	-
1492	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	OPEN TEXT INC		99,495				
1493	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	PHAROS SYSTEMS INTERNATIONAL INC			108,125			
1494	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	REMEDY INTERACTIVE INC		16,667	47,500			
1495	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	SECURE BUSINESS SOLUTIONS LLC		11,648				
1496	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	SHI INTERNATIONAL CORP			36,205	90,500	-	-
1497	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	TANGOE US INC	210,000					
1498	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	UNWIRRED REVOLUTION	129,357	82,713				
1499	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	ZONES CORPORATE SOLUTIONS		31,000	9,933	30,437		
1500	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Contract	ZONES LLC			43,027			
1501	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Labor External	MICROSOFT	11,550					
1502	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Labor External	MULLAN CONSULTING LLC			125,000			
1503	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Labor Internal	Not assigned	476,071					
1504	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Labor External	Not assigned	233	175				
1505	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Materials	Not assigned						
1506	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Materials	ZONES CORPORATE SOLUTIONS			17,796			
1507	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Other	MULLAN CONSULTING LLC			2,571			
1508	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Other	Not assigned	852	19,742	4,023	18		
1509	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Other	PHAROS SYSTEMS INTERNATIONAL INC		(2,163)				
1510	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Other	ZONES CORPORATE SOLUTIONS	(852)	(75)	(66)	(93)		
1511	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70029959	AS IS Nwkw EUS (LegCon) *Close*	Other	ZONES LLC			(108)			
1512	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70040802	AS IS Nwkw EUS (LegCon) Zang	Contract	Not assigned					107,012	112,903
1513	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70040802	AS IS Cloud Computing Sol (Legacy Contracts)	Labor External	Not assigned						
1514	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70040808	AS IS Nwkw EUS (LegCon) Talley	Contract	Not assigned					52,169	78,147
1515	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70040808	AS IS Nwkw EUS (LegCon) Talley	Contract	TALLEY COMMUNICATIONS CORP					6,512	
1516	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70040810	AS IS Nwkw EUS (LegCon) Telesoft	Contract	TELESOFT CORP					43,014	
1517	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70040810	AS IS Nwkw EUS (LegCon) Telesoft	Contract	TELESOFT LLC						45,201
1518	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034631	AS IS Network EUS (Legacy Contracts)	70040810	AS IS Nwkw EUS (LegCon) Telesoft	Other	TELESOFT LLC						(904)
1519	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Contract	CITRIX SYSTEMS INC			46,205			
1520	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Contract	HEWLETT PACKARD ENTERPRISE	33,062					
1521	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Contract	TECATECH, INC		121,860		71,505		0
1522	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Contract	Not assigned	644,776	930,100	857,205	718,496	429,027	446,825
1523	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Contract	PROPOINT INC	81,738					
1524	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Contract	ZONES CORPORATE SOLUTIONS	6,098					
1525	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Materials	TECHTECH INC		172,626				
1526	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Materials	MCKIE / ALLMAN	49					
1527	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Materials	Not assigned	0	1,726				
1528	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Other	TECH SYSTEMS INC			(824)			
1529	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Other	HEWLETT PACKARD ENTERPRISE			(661)			
1530	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Other	Not assigned	2,316	15,012	924			
1531	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Other	PROPOINT INC	(1,635)					
1532	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70029900	AS IS Cloud Computing Sol (Legacy Contracts)	Contract	ZONES CORPORATE SOLUTIONS	(15)					
1533	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70031702	ITCS End User Services - Wintel/Windows	Contract	ZONES CORPORATE SOLUTIONS	10,130	10,637				
1534	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70031702	ITCS End User Services - Wintel/Windows	Other	Not assigned		25	-	-	-	-
1535	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70031702	ITCS End User Services - Wintel/Windows	Contract	ZONES CORPORATE SOLUTIONS	(25)					
1536	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70040806	AS IS Cloud Computing Sol (Legacy Contracts)	Contract	CURVATURE INC			5,665			
1537	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70040806	AS IS Cloud Computing Sol (Legacy Contracts)	Contract	Not assigned			127,526	16,994		
1538	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70040806	AS IS Cloud Computing Sol (Legacy Contracts)	Labor External	Not assigned					242	
1539	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70040807	AS IS Cloud Computing Sol (Legacy Contracts)	Contract	BARBART EDWARDS INTERNATIONAL CORP		12,199				
1540	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70040807	AS IS Cloud Computing Sol (Legacy Contracts)	Contract	Not assigned		6,009	73,193	73,193		
1541	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70040807	AS IS Cloud Computing Sol (Legacy Contracts)	Labor External	Not assigned					242	
1542	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034632	AS IS Cloud Computing Sol (Legacy Contracts)	70040807	AS IS Cloud Computing Sol (Legacy Contracts)	Other	Not assigned						
1543	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70029941	TNS - TELEPHONY CALL CTR DV SVC CNTRT	Contract	WORLD WIDE TECHNOLOGY LLC			7,628	182,694		
1544	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70029941	TNS - TELEPHONY CALL CTR DV SVC CNTRT	Labor Internal	Not assigned	939	62				
1545	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70029941	TNS - TELEPHONY CALL CTR DV SVC CNTRT	Other	Not assigned		19				
1546	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70029941	TNS - TELEPHONY CALL CTR DV SVC CNTRT	Contract	WORLD WIDE TECHNOLOGY LLC			(151)			
1547	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70029949	MSFT EA & EA TruUp	Contract	MICROSOFT CORP				281,928	402,160	
1548	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70029949	MSFT EA & EA TruUp	Contract	Not assigned				13,235,947	15,050,458	
1549	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70029949	MSFT EA & EA TruUp	Contract	SHI INTERNATIONAL CORP				12,965	(1,010)	
1550	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70029949	MSFT EA & EA TruUp	Labor External	MULLAN CONSULTING LLC					125,000	
1551	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70029949	MSFT EA & EA TruUp	Labor Internal	Not assigned	165					
1552	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70029949	MSFT EA & EA TruUp	Other	SHI INTERNATIONAL CORP					(2)	
1553	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040800	AS IS CE EUS (LegCon) Adobe Pro	Contract	Not assigned				674,060	836,093	
1554	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040800	AS IS CE EUS (LegCon) Adobe Pro	Contract	FIGE					(20,278)	
1555	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040800	AS IS CE EUS (LegCon) Adobe Pro	Contract	SHI INTERNATIONAL CORP				113,768	27,314	
1556	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040800	AS IS CE EUS (LegCon) Adobe Pro	Labor External	Not assigned					242	
1557	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040801	AS IS CE EUS (LegCon) Unwired NetOp	Contract	Not assigned				122,474	122,474	
1558	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040801	AS IS CE EUS (LegCon) Unwired NetOp	Labor External	Not assigned					242	
1559	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040803	AS IS CE EUS (LegCon) JAMF	Contract	SHI INTERNATIONAL CORP					38,800	
1560	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040803	AS IS CE EUS (LegCon) JAMF	Contract	ZONES CORPORATE SOLUTIONS				37,245	188,000	
1561	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040803	AS IS CE EUS (LegCon) JAMF	Labor External	Not assigned					202	
1562	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040803	AS IS CE EUS (LegCon) JAMF	Other	SHI INTERNATIONAL CORP					(97)	
1563	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040804	AS IS CE EUS (LegCon) Citrix	Contract	Not assigned				185,246	202,183	
1564	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5034714	AS IS Client Exp EUS (Legacy Contracts)	70040804	AS IS CE EUS (LegCon) Citrix	Labor External	Not assigned						

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
1592	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5036680	EUS - Pass Through PC SCV	3021487	EUS - Pass Through PC SCV	Labor Internal	Not assigned	376,527	664,590	635,151	423,131	(906,946)	(75,709)
1593	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037979	IO CSO Application Packaging EUS	70032681	IO CSO Application Packaging EUS	Labor External	Not assigned	75,747	362,264	359,087			
1594	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037979	Infrastructure Ops CSO EUS	70032581	IO CSO Application Packaging EUS	Labor External	THE ACT 1 GROUP INC		29,725				
1595	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037979	Infrastructure Ops CSO EUS	70032581	IO CSO Application Packaging EUS	Labor Internal	Not assigned	345,934	1,058,911	426,257			
1596	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037979	Infrastructure Ops CSO EUS	70032581	IO CSO Application Packaging EUS	Other	Not assigned		3,329	589			
1597	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037979	Infrastructure Ops CSO EUS	70032581	IO CSO Application Packaging EUS	Other	THE ACT 1 GROUP INC			(629)			
1598	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037979	Infrastructure Ops CSO EUS	70033842	IO CSO Storage EUS	Labor Internal	Not assigned		119,378	1,702			
1599	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037979	Infrastructure Ops CSO EUS	70033843	IO CSO ION Windows EUS	Labor Internal	Not assigned		32,446				
1600	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037979	Infrastructure Ops CSO EUS	70035943	IO CSO Virtual Datap Client Compute EUS	Labor External	Not assigned		90,617				
1601	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037979	Infrastructure Ops CSO EUS	70035943	IO CSO Virtual Datap Client Compute EUS	Labor External	TATAAMERICA INTERNATIONAL CORP		9,969				
1602	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037979	Infrastructure Ops CSO EUS	70037979	IO CSO Virtual Datap Client Compute EUS	Labor Internal	Not assigned		10,715	864,306			
1603	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033557	IO EUS - SNO Voice PBX Support	Labor Internal	Not assigned		2,222				
1604	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033640	IO EUS - SNO VoIP Support	Labor Internal	Not assigned		2,085				
1605	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033791	IO SNO Voice Legacy (PBX) EUS	Labor Internal	Not assigned		37,517	21,340			
1606	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033792	IO SNO Voice Specialists Trng EUS	Labor Internal	Not assigned		6,883	4,419			
1607	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033792	IO SNO Voice Specialists Trng EUS	Other	DAVID E WORKMAN		62	93			
1608	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033793	IO SNO Voice VMS EUS	Labor Internal	Not assigned		28,967	34,828			
1609	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033794	IO SNO Voice VOP EUS	Labor Internal	Not assigned		77,869	49,488			
1610	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033794	IO SNO Voice VOP EUS	Other	DAVID E WORKMAN		19				
1611	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033795	IO SNO Radio Operations EUS	Labor Internal	Not assigned		201,275	132,667			
1612	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033795	IO SNO Radio Operations EUS	Materials	ALEXANDER T SUBLETTE		183				
1613	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033795	IO SNO Radio Operations EUS	Materials	AMETEK POWER INSTRUMENTS		6,349				
1614	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033795	IO SNO Radio Operations EUS	Materials	Not assigned		562	1,305			
1615	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033795	IO SNO Radio Operations EUS	Materials	TERRY L EVANS		40	48			
1616	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033795	IO SNO Radio Operations EUS	Other	Not assigned		609	88			
1617	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033795	IO SNO Radio Operations EUS	Other	TERRY L EVANS		189	156			
1618	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033797	IO SNO Radio Training EUS	Labor Internal	Not assigned		558	48,326			
1619	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033797	IO SNO Radio Training EUS	Materials	Not assigned		24				
1620	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033797	IO SNO Radio Training EUS	Materials	TERRY L EVANS		2,419				
1621	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033797	IO SNO Radio Training EUS	Other	Not assigned		164				
1622	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033797	IO SNO Radio Training EUS	Other	TERRY L EVANS		467				
1623	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033798	IO SNO Radio RF Import EUS	Labor Internal	Not assigned		4,601	1,480			
1624	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033799	IO SNO Radio FCC RF Lic Renewals EUS	Labor Internal	Not assigned		41,955	1,182			
1625	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033799	IO SNO Radio FCC RF Lic Renewals EUS	Materials	MICKIE J ALLEMAN		3,600	970			
1626	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033799	IO SNO Radio FCC RF Lic Renewals EUS	Materials	Not assigned		36	10			
1627	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033799	IO SNO Radio FCC RF Lic Renewals EUS	Other	MICKIE J ALLEMAN		228				
1628	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033799	IO SNO Radio FCC RF Lic Renewals EUS	Other	Not assigned		288	69			
1629	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033840	IO SNO Transport EUS	Labor Internal	Not assigned		954,253	579,204			
1630	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033840	IO SNO Transport EUS	Materials	LIGHTWTRV TECHNOLOGIES INC		3,789				
1631	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033840	IO SNO Transport EUS	Materials	AMETEK POWER INSTRUMENTS		182				
1632	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033840	IO SNO Transport EUS	Materials	Not assigned		38	34			
1633	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033840	IO SNO Transport EUS	Materials	RICHARD L STORER		3,767				
1634	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033840	IO SNO Transport EUS	Other	LIGHTWTRV TECHNOLOGIES INC		(76)				
1635	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033840	IO SNO Transport EUS	Other	WARR & BARAKATZ INC		3,343	3,445			
1636	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033840	IO SNO Transport EUS	Other	Not assigned		410	260			
1637	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033840	IO SNO Transport EUS	Other	RICHARD L STORER		3,791	1,344			
1638	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033841	IO SNO Transports Training Classes EUS	Labor Internal	Not assigned		30,237	10,946			
1639	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033841	IO SNO Transports Training Classes EUS	Materials	Not assigned		5				
1640	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033841	IO SNO Transports Training Classes EUS	Materials	RICHARD L STORER		65				
1641	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033841	IO SNO Transports Training Classes EUS	Materials	WORLD WIDE TECHNOLOGY LLC		466				
1642	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033841	IO SNO Transports Training Classes EUS	Other	Not assigned		447				
1643	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5037982	Infrastructure Ops SNO EUS	70033841	IO SNO Transports Training Classes EUS	Other	RICHARD L STORER		466				
1644	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	3D INFOTECH INC		9,244	6,880	18,905	22,515	
1645	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	ARMONIC TECHNICAL SERVICES INC		20,000				
1646	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	ARCOSIL INC		52,800	102,034	157,445	96,710	
1647	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	ARCOSIL INC			(12,500)			
1648	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	CHESAPEAKE TECHNOLOGY INC		3,617		1,395		
1649	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	CONQUEST POWER SYSTEMS LLC	51,060	9,000				
1650	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	CYREFORM USA INC		15,190	24,372		33,936	
1651	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	CREAM INTERNATIONAL T-H INC		3,543	3,659	7,750		6,839
1652	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	ESPASPOWER LLC		8,449	8,703	8,964	24,318	
1653	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	GENERAL ELECTRIC CO		25,000		13,800	28,070	-
1654	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	HEXAGON METROLOGY INC		6,900	6,900			
1655	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	HYDROTECH TOOL CO INC		1,903		35	5,328	
1656	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	NATIONAL INSTRUMENTS		19,957	823			
1657	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	NAVCON ENGINEERING NETWORK			6,000		4,615	3,325
1658	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	Not assigned		121,333	477,448	1,730,747	1,677,721	44,400
1659	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	OPTIMIZED THERMAL SYSTEMS INC					6,555	
1660	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	PALISADE COMPANY LLC		2,410				
1661	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	POINTS PERFECTED INC				6,000	6,000	
1662	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	POWERGEN LLC			33,000			
1663	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	PURVIS INC				4,288		
1664	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	RTDS TECHNOLOGIES INC				20,800	10,400	
1665	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	SAFE ENGINEERING SERVICES & CONSULTING INC		56,429	56,993	57,563	58,138	
1666	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	SAFE SOFTWARE INC	5,694					
1667	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	SEAFLOOR SYSTEMS INC		5,400	20,917	23,400		
1668	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	SHI INTERNATIONAL CORP		9,383	80,797	52,370	96,365	
1669	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	SKF USA INC	6,350		6,350			
1670	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	THE MATHWORKS INC	7,462	5,013	6,211	1,685	8,750	
1671	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	TRISTAR INC			47,310	14,680	17,340	
1672	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	USAC HOLDINGS LLC		682	26,510	3,467	2,260	
1673	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	YSI INC		2,250	2,450			
1674	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	ZONES CORP		6,728	6,855	5,599		
1675	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	ZONES LLC		608	1,325			
1676	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Contract	Not assigned			6,000			
1677	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat & AM (Contract)	Labor External	CYME INTERNATIONAL T-H INC						
1678	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041599	EUS - Electric Strat & AM (Contract)	70033816	EUS - Electric Strat &								

Line #	Baseline O&M Non-Labor Category	Bidding Order	Planning Order Description	Order	Order Description	Vendor Name	2016	2017	2018	2019	2020	2021
1706	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	S&P GLOBAL INC					28,950	29,813
1707	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Contract		4,018				
1708	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Contract			5,352	5,865	7,922	13,031
1709	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Contract			7,617			
1710	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Contract					3,528	
1711	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Contract				1,851		266
1712	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Contract		587	201			
1713	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Contract		Not assigned				
1714	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Contract		2,269	589	295	3,032	3,498
1715	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Other			(12)	(6)	(20)	(6)
1716	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Other				795	2,792	4,404
1717	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Other						(1)
1718	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	73033819	BUS- Gas Asset Mgmt & Sys Ops Contract	Other			(2)			
1719	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041602	BUS- Gas Asset Mgmt & Sys Ops Contract	7304785	BUS- Oracle Primavera Utiliter	Contract					635,700	63,570
1720	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041603	BUS- Gas System Operations (Contracts)	73033860	BUS- Gas System Operations (Contracts)	Contract						
1721	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041603	BUS- Gas System Operations (Contracts)	73033860	BUS- Gas System Operations (Contracts)	Contract			128	37,090		
1722	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041603	BUS- Gas System Operations (Contracts)	73033860	BUS- Gas System Operations (Contracts)	Contract			183			
1723	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041603	BUS- Gas System Operations (Contracts)	73033860	BUS- Gas System Operations (Contracts)	Other			1,662	144		
1724	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041604	BUS- Gas T&B Construction (Contracts)	73033861	BUS- Gas T&B Construction (Contracts)	Contract					6,434	
1725	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041604	BUS- Gas T&B Construction (Contracts)	73033861	BUS- Gas T&B Construction (Contracts)	Contract				1,676	11,295	104,685
1726	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041604	BUS- Gas T&B Construction (Contracts)	73033861	BUS- Gas T&B Construction (Contracts)	Contract						
1727	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041604	BUS- Gas T&B Construction (Contracts)	73033861	BUS- Gas T&B Construction (Contracts)	Contract				9,253		610
1728	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041604	BUS- Gas T&B Construction (Contracts)	73033861	BUS- Gas T&B Construction (Contracts)	Contract						
1729	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041604	BUS- Gas T&B Construction (Contracts)	73033861	BUS- Gas T&B Construction (Contracts)	Contract				79		
1730	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041604	BUS- Gas T&B Construction (Contracts)	73033861	BUS- Gas T&B Construction (Contracts)	Contract		1,615	1,521	3,584	14,508	1,074
1731	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041604	BUS- Gas T&B Construction (Contracts)	73033861	BUS- Gas T&B Construction (Contracts)	Other			(3)	(24)	(262)	(8)
1732	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041604	BUS- Gas T&B Construction (Contracts)	73033861	BUS- Gas T&B Construction (Contracts)	Other						
1733	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041604	BUS- Gas T&B Construction (Contracts)	73033861	BUS- Gas T&B Construction (Contracts)	Other						
1734	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract				58,595		
1735	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract				4,362	16,537	
1736	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract				36,750	38,500	38,500
1737	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract				84,736	84,736	
1738	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract				3,698	5,183	5,489
1739	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract		16,470				
1740	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1741	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1742	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract				227		
1743	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract		268				
1744	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1745	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1746	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1747	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1748	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1749	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1750	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1751	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1752	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1753	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041605	BUS- Gas T&B Operations (Contracts)	73033862	BUS- Gas T&B Operations (Contracts)	Contract						
1754	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041606	BUS- Gas Major Prog & Prg Contracts	73033863	BUS- Gas Major Prog & Prg Contracts	Contract						
1755	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041606	BUS- Gas Major Prog & Prg Contracts	73033863	BUS- Gas Major Prog & Prg Contracts	Contract						
1756	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041606	BUS- Gas Major Prog & Prg Contracts	73033863	BUS- Gas Major Prog & Prg Contracts	Contract						
1757	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041606	BUS- Gas Major Prog & Prg Contracts	73033863	BUS- Gas Major Prog & Prg Contracts	Contract						
1758	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041606	BUS- Gas Major Prog & Prg Contracts	73033863	BUS- Gas Major Prog & Prg Contracts	Contract						
1759	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1760	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1761	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1762	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1763	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1764	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1765	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1766	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1767	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1768	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1769	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1770	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1771	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1772	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1773	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1774	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1775	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1776	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1777	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1778	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1779	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1780	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1781	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1782	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1783	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1784	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041607	BUS- Land & Environment (Contracts)	73033864	BUS- Land & Environment (Contracts)	Contract						
1785	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1786	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1787	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1788	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1789	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1790	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1791	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1792	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1793	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1794	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1795	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1796	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1797	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1798	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1799	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1800	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1801	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1802	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						
1803	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041608	BUS- Gas Portfolio & Eng Contracts	73033865	BUS- Gas Portfolio Mgmt & Eng Contract	Contract						

Baseline QSM Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
1820 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041650	BUS- Misc Gas (Contracts)	73033867	BUS- Misc Gas (Contracts)	Other	SHI INTERNATIONAL CORP				(1)		
1821 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041650	BUS- Misc Gas (Contracts)	73033867	BUS- Misc Gas (Contracts)	Other	ZONES CORPORATE SOLUTIONS			(6)			
1822 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Contract	ITRON				54,806		56,998
1823 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Contract	ITRON INC				52,698		
1824 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Contract	Not assigned					71,938	107,308
1825 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Contract	SHI INTERNATIONAL CORP		299	2,147	2,747	24,857	26,411
1826 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Contract	SMART ENERGY SYSTEMS INC					91,362	44,302
1827 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Contract	CAK HOLDINGS LLC					3,967	
1828 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Contract	ZONES CORPORATE SOLUTIONS		13,565	122	3,722		98
1829 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Contract	ZONES LLC		751				
1830 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Labor External	SMART ENERGY SYSTEMS INC					11,816	
1831 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Labor Internal	Not assigned		5	401			
1832 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Materials	Not assigned						
1833 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Materials	ZONES CORPORATE SOLUTIONS			463			
1834 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Other	Not assigned		10,693	6,580	21,208	64,962	27,576
1835 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Other	SHI INTERNATIONAL CORP				(10)		(20)
1836 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Other	SMART ENERGY SYSTEMS INC					(984)	(467)
1837 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Other	CAK HOLDINGS LLC				(8)		
1838 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Other	VERIZON WIRELESS						13,048
1839 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Other	ZONES CORPORATE SOLUTIONS		(28)		(9)		
1840 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041651	BUS- Electric Distribution (Contracts)	73033868	BUS- Electric Distribution (Contracts)	Other	ZONES LLC				(8)		
1841 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	DC SYSTEMS INC		16,200	27,000			
1842 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	Not assigned						
1843 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	ENDORSER DIVISION OF DOBLE		171,004	156,668	99,755		92,763
1844 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	HESS INC			10,420	22,050	31,700	31,925
1845 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	NANUK CORPORATION INC		14,400				
1846 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	SHI INTERNATIONAL CORP				87,817	437,143	237,144
1847 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	OPCON TECHNOLOGIES INC						26,070
1848 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	POWER LINE SYSTEMS INC			66,510	70,452	(5,405)	
1849 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	POWER LETTERWEIGHTS CONSULTING AND		42,000				
1850 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	POWERWORLD SOFTWARE CONSULTING			6,000		13,200	17,820
1851 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	PRIMATE TECHNOLOGIES INC		80,400				
1852 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	SAP SOFTWARE INC				3,620	6,400	
1853 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	SHI INTERNATIONAL CORP			775		91,410	37,075
1854 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	SIEMENS SYSTEMS INC			15,625	16,500	42,000	
1855 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	SYSTEMS INTEGRATION SPECIALISTS				2,150		2,500
1856 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	THE METHUENWORKS		2,655	5,984	6,818	6,360	6,399
1857 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	ZONES CORPORATE SOLUTIONS			15,007	14,293		
1858 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Contract	ZONES LLC		324				
1859 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Labor Internal	Not assigned				830		1,104
1860 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Other	SHI INTERNATIONAL CORP		(234)				
1861 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Other	Not assigned		8,203	3,451	4,482	30,171	8,717
1862 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Other	OPCON TECHNOLOGIES INC					(521)	(694)
1863 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Other	PRIMATE TECHNOLOGIES INC		(1,206)				
1864 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Other	SHI INTERNATIONAL CORP				(1)	(63)	(224)
1865 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Other	ZONES CORPORATE SOLUTIONS				(38)	(24)	
1866 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041652	BUS- Electric Trans (Contracts)	73033869	BUS- Electric Trans (Contracts)	Other	ZONES LLC				(1)		
1867 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Contract	SHI INTERNATIONAL CORP		94,279	102,230	94,415	87,122	82,714
1868 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Contract	PAULSADE COMPANY LLC					9,614	
1869 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Contract	PLATINUM DB CONSULTING INC					117,600	
1870 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Contract	SHI INTERNATIONAL CORP		1,789	4,879	5,848	22,025	22,274
1871 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Contract	SAP SOFTWARE INC		3,345	6,848	7,066	7,666	7,092
1872 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Contract	CAK HOLDINGS LLC			585			
1873 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Contract	ZONES CORPORATE SOLUTIONS			343		716	535
1874 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Contract	ZONES LLC				72		
1875 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Labor Internal	Not assigned						
1876 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Other	Not assigned		2,081	2,390	1,277	9,311	3,396
1877 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Other	PLATINUM DB CONSULTING INC			(1,794)	(181)		
1878 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Other	SHI INTERNATIONAL CORP		(36)		(13)	(50)	
1879 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Other	CAK HOLDINGS LLC				(12)		
1880 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Other	VERIZON WIRELESS					213	178
1881 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041653	BUS- Power Generation (Contracts)	73033870	BUS- Power Generation (Contracts)	Other	ZONES CORPORATE SOLUTIONS			(1)		(2)	(1)
1882 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Contract	SHI INTERNATIONAL CORP			22,696	1,386	19,430	13,561
1883 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Contract	SBP GLOBAL INC			44,730		28,550	29,818
1884 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Contract	SAS INSTITUTE INC			30,400			
1885 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Contract	SHI INTERNATIONAL CORP			1,650	8,926	9,284	3,973
1886 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Contract	THE FARMERS INC					10,006	645
1887 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Contract	ZONES CORPORATE SOLUTIONS					5,188	(8,327)
1888 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Contract	ZONES LLC		402	219			
1889 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Contract	SHI INTERNATIONAL CORP			1,012	1,177	6,496	
1890 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Other	PAULSADE COMPANY LLC				(406)	(24)	1,949
1891 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Other	SHI INTERNATIONAL CORP				(2)	(22)	(23)
1892 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Other	ZONES CORPORATE SOLUTIONS					(13)	
1893 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041654	BUS- Energy Procurement (Contracts)	73033871	BUS- Energy Procurement (Contracts)	Labor Internal	Not assigned						
1894 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041655	BUS- Other (Contracts)	73033872	BUS- Other (Contracts)	Other	Not assigned		23				
1895 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041655	BUS- Other (Contracts)	73033872	BUS- Other (Contracts)	Other	Not assigned		289	144		72	
1896 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	SHI INTERNATIONAL CORP					30,930	30,930
1897 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	GENESSEE INC					28,166	
1898 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	AMERICAN ELECTRIC RELIABILITY					1,000	
1899 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	RNG ENTERPRISE SOLUTIONS INC					13,391	12,000
1900 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	PAULSADE COMPANY LLC					64,730	7,700
1901 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	SHI INTERNATIONAL CORP			622	5,185	5,771	13,683
1902 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	TURNING TECHNOLOGIES LLC			5,117	4,816		
1903 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	CAK HOLDINGS LLC						
1904 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	ZONES CORPORATE SOLUTIONS				195	21,610	277
1905 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	ZONES LLC			1,198	182		1,817
1906 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	ZONES CORPORATE SOLUTIONS						
1907 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Labor External	Not assigned						40
1908 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Contract	SHI INTERNATIONAL CORP			237			
1909 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Other	CYNTHIA SILVEIRA				3,160		
1910 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Other	JOHN I BERGE					1,763	
1911 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Other	AMERICAN ELECTRIC RELIABILITY				(20)	20	
1912 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Other	SHI INTERNATIONAL CORP		6,788	2,251	1,096		3,970
1913 Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041656	BUS- Nuclear Generation (Contracts)	73033874	BUS- Nuclear Generation (Contracts)	Other	SBP GLOBAL INC						(920)
1914 Cloud Subscriptions, Vendor Service												

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
1934	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041657	EUS - Customer Care (Contracts)	70033875	EUS - Customer Care (Contracts)	Other	INTRADO ENTERPRISE COLLABORATION		847	2,184	174		
1935	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041657	EUS - Customer Care (Contracts)	70033875	EUS - Customer Care (Contracts)	Other	KERN USA LLC			(715)	(556)	(952)	(1,080)
1936	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041657	EUS - Customer Care (Contracts)	70033875	EUS - Customer Care (Contracts)	Other	LIGHTING ANALYTICS INC		(26)				
1937	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041657	EUS - Customer Care (Contracts)	70033875	EUS - Customer Care (Contracts)	Other	Lighting Associates	4,636	6,176	3,755	35,811	4,475	
1938	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041657	EUS - Customer Care (Contracts)	70033875	EUS - Customer Care (Contracts)	Other	RICH AMERICA CORPORATION				(7)		
1939	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041657	EUS - Customer Care (Contracts)	70033875	EUS - Customer Care (Contracts)	Other	SHI INTERNATIONAL CORP				(13)	(37)	(76)
1940	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041657	EUS - Customer Care (Contracts)	70033875	EUS - Customer Care (Contracts)	Other	VERICON WIRELESS		240	561	48	81	71
1941	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041657	EUS - Customer Care (Contracts)	70033875	EUS - Customer Care (Contracts)	Other	ZONES CORPORATE SOLUTIONS				(14)	(31)	(6)
1942	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041657	EUS - Customer Care (Contracts)	70033875	EUS - Customer Care (Contracts)	Other	ZONES LLC				(2)	(1)	
1943	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Contract	CORELOGIC INC						
1944	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Contract	CoreLogic Pacific LLC	304,134	9,584	41,331			
1945	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Contract	Not assigned						
1946	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Contract	PETROSON POWER SYSTEMS INC				32,010	18,389	
1947	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Contract	IRON DUPRATT FORD INC			47,905	50,953	55,242	
1948	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Contract	SHI INTERNATIONAL CORP				1,124	1,868	7,835
1949	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Contract	SNAP-ON INDUSTRIAL		6,790	31,525			
1950	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Contract	ZONES CORPORATE SOLUTIONS		3,775				
1951	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Contract	LEANING BROTHERS CUSTOM						
1952	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Contract	HFACS					9,863	4,358
1953	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Materials	Not assigned				387		
1954	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Materials	SEAN W WILLADSEN				38,659		
1955	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Materials	ZONES CORPORATE SOLUTIONS						
1956	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Other	CORELOGIC INC			(3,041)			
1957	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Other	LEANING BROTHERS CUSTOM						(61)
1958	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Other	Not assigned		5,065	794	3,595	3,392	1,155
1959	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Other	SHI INTERNATIONAL CORP				(7)		(20)
1960	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041658	EUS - Safety & Health (Contracts)	70033876	EUS - Safety & Health (Contracts)	Other	ZONES CORPORATE SOLUTIONS				(9)		
1961	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	BERKSHIRE ASSOCIATES INC			20,000			
1962	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	CANON SOLUTIONS AMERICA INC					1,302	
1963	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	ENERGYXPT LLC		1,326				
1964	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	GOINGNEER INC					6,434	
1965	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	LUCA GLOSYSTEMS INC						-
1966	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	TOPIC TECH INC		34,000	8,500			
1967	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	Not assigned				84,769	135,791	134,369
1968	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	OPEN ACCESS TECHNOLOGY					1,960	9,000
1969	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	PALSADE COMPANY LLC		3,745				
1970	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	SALESFORCE.COM	6,000					
1971	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	SAS INSTITUTE INC		5,112	2,700	2,820	2,960	
1972	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	SHI INTERNATIONAL CORP	20,355	142,419	156,945	264,034	249,375	
1973	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	SMITHSONIAN	295					
1974	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	US CAD HOLDINGS LLC		29,957	-	23,800	23,800	
1975	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	ZONES CORPORATE SOLUTIONS		60,296	9,582	22,875	9,369	747
1976	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	ZONES LLC		8,450	7,225	2,660	1,370	504
1977	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	LABOR EXTERNAL						
1978	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	Not assigned						
1979	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	STUDIO31 US INC		74	1,875			
1980	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Contract	LABOR EXTERNAL				671		
1981	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Materials	Not assigned		217				
1982	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Other	BELLAR GARCIA					6,830	
1983	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Other	CYNTHIA SILVEIRA			3,995			1,788
1984	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Other	Not assigned	24,217	6,757	5,864	27,571	9,391	
1985	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Other	PALSADE COMPANY LLC			(75)			
1986	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Other	SHI INTERNATIONAL CORP				(843)	(374)	(611)
1987	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Other	US CAD HOLDINGS LLC				(17)	(425)	(476)
1988	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Other	ZONES CORPORATE SOLUTIONS				(8)		(2)
1989	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041659	EUS - Information Technology (Contracts)	70033878	EUS - Information Technology (Contracts)	Other	ZONES LLC				(48)	(12)	(1)
1990	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Contract	BELLAR GARCIA					198	
1991	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Contract	ZONES LLC	143,000	60,245	55,030	5,535		
1992	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Contract	JAMES E HUGHES						1,945
1993	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Contract	KOFAX INC		5,803	39,434	31,166	41,490	
1994	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Contract	PALSADE COMPANY LLC		49,091	38,462			
1995	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Contract	SHI INTERNATIONAL CORP			1,806	5,843	5,399	19,686
1996	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Contract	ZONES CORPORATE SOLUTIONS					93	2,161
1997	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Contract	ZONES LLC			201	99		
1998	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Contract	LABOR EXTERNAL						
1999	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Contract	NIMBLE CONSULTING SOLUTIONS INC			42,819			
2000	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Other	ARGUS MEDICAL					6,432	6,625
2001	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Other	CYNTHIA SILVEIRA			317		198	100
2002	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Other	ICC DATA LP					300	1,000
2003	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Other	Not assigned						
2004	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Other	PALSADE COMPANY LLC				3,657	3,009	1,740
2005	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Other	POWERMIX INC				(892)	(769)	
2006	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Other	SHI INTERNATIONAL CORP				(3)	(15)	(10)
2007	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Other	ZONES CORPORATE SOLUTIONS						(5)
2008	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041660	EUS - Finance & Risk (Contracts)	70033880	EUS - Finance & Risk (Contracts)	Other	ZONES LLC				(6)		
2009	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	BERKSHIRE ASSOCIATES INC				20,000		
2010	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	EMPOWER THE USER INC						22,000
2011	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	E-RESOURCES LLC			49,400	49,400	49,400	
2012	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	FOCUS LEARNING CORPORATION		11,197				
2013	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	GRAVITY PRO CONSULTING LLC			113,975	38,752		
2014	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	Not assigned		119,607	867,164	829,009	1,041,516	893,217
2015	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	SAP INDUSTRIES INC						117,892
2016	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	SHI INTERNATIONAL CORP		11,264	22,285	5,337	57,935	41,645
2017	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	SMART ENERGY SYSTEMS INC						68,009
2018	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	SMART UTILITY SYSTEMS INC		135,750	115,015	69,753	69,753	
2019	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	THE ACT 1 GROUP INC		62,690				
2020	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041661	EUS - Human Resources (Contracts)	70033881	EUS - Human Resources (Contracts)	Contract	ZONES CORPORATE SOLUTIONS			21,150	37,711		
2021	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts												

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
2048	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Contract	Not assigned			56,425	226,027	312,045	368,986
2049	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Contract	OPTIMIZELY INC					25,177	-
2050	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Contract	PAISADE COMPANY LLC			1,928	2,024	1,765	-
2051	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Contract	SHI INTERNATIONAL CORP			9,601	4,778	7,433	4,580
2052	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Contract	TEALUJINC		92,080	9,404		400	15,621
2053	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Contract	THE MATHWORKS INC						1,406
2054	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Contract	VERINT AMERICAS INC					81,681	88,110
2055	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Contract	WORKFRONT INC	18,802	18,802				
2056	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Contract	XOVERTIME INC	45,000	22,500				
2057	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Contract	ZONES CORPORATE SOLUTIONS					2,998	788
2058	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Contract	ZONES LLC	1,082	61				
2059	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Labor External	OPINONLAB INC			98,025			
2060	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Other	IHS GLOBAL INC					(54)	-
2061	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Other	Not assigned			4,880	1,120	221	3,320
2062	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Other	PAISADE COMPANY LLC						794
2063	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Other	SHI INTERNATIONAL CORP			(5)	(12)	(19)	(7)
2064	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Other	TEALUJINC			(527)	(194)		
2065	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Other	VERINT AMERICAS INC					(817)	
2066	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Other	XOVERTIME INC		(900)	(850)			
2067	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041663	EUS - Regulatory Affairs (Contracts)	70033883	EUS - Regulatory Affairs (Contracts)	Other	ZONES CORPORATE SOLUTIONS						(2)
2068	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041664	EUS - Corporate Affairs (Contracts)	70033885	EUS - Corporate Affairs (Contracts)	Contract	OPTIMIZELY INC			55,771	2,984	62,187	
2069	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041664	EUS - Corporate Affairs (Contracts)	70033885	EUS - Corporate Affairs (Contracts)	Contract	RMS ENTERPRISE SOLUTIONS INC		7,104	9,421			
2070	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041664	EUS - Corporate Affairs (Contracts)	70033885	EUS - Corporate Affairs (Contracts)	Contract	VERINT AMERICAS INC				77,791		
2071	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041664	EUS - Corporate Affairs (Contracts)	70033885	EUS - Corporate Affairs (Contracts)	Contract	WORKFRONT INC						19,750
2072	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041664	EUS - Corporate Affairs (Contracts)	70033885	EUS - Corporate Affairs (Contracts)	Labor External	OPTIMIZELY INC		59,627	(845)			
2073	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041664	EUS - Corporate Affairs (Contracts)	70033885	EUS - Corporate Affairs (Contracts)	Other	Not assigned		505				
2074	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Contract	CANUS CORPORATION		1,769				
2075	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Contract	Not assigned					5,683	17,813
2076	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Contract	RICH AMERICAS CORPORATION					15,566	
2077	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Labor External	Not assigned		4,172	2,399			
2078	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Labor Internal	Not assigned		85,295	49,094	1,157		145
2079	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Materials	ALONZO M BICCHIO		223				
2080	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Materials	ANTHONY S'CHMITZ						
2081	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Materials	CELLULAR ACCESSORIES FOR LESS						
2082	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Materials	MICHELLE S'NOW INC		55				
2083	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Materials	MOBILE MOUNTING SOLUTIONS INC		1,333	49			
2084	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Materials	Not assigned		257	20		4	4
2085	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Materials	WORLD WIDE TECHNOLOGY LLC		323	664			
2086	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Materials	ZONES CORPORATE SOLUTIONS		578	193			
2087	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Materials	ZONES LLC		1,333	1,309	410	360	
2088	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	AT&T MOBILITY LLC		10,541	13,472	12,606	14,514	19,207
2089	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	HUGHES NETWORK SYSTEMS LLC		882	1,512	1,512	756	126
2090	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	INTRADO ENTERPRISE COLLABORATION		7,801	14,194	22,775	23,714	11,492
2091	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	MICHELLE S'NOW INC						
2092	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	MOBILE MOUNTING SOLUTIONS INC		(35)	(1)			
2093	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	NEXTEL COMMUNICATIONS		650	486		417	417
2094	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	Not assigned		9,096				
2095	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	PAUL G LAMOURIA		1,189	27,934	18,839	22,454	16,418
2096	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	RICHARD J ARCHULETA		76				
2097	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	U S CELLULAR		303	685	35		
2098	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	VERIZON WIRELESS					76	92
2099	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	VERIZON WIRELESS		142,833	214,523	251,290	263,795	269,148
2100	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	WORLD WIDE TECHNOLOGY LLC			(2)			
2101	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	ZONES CORPORATE SOLUTIONS			(1)			
2102	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041830	EUS - Fleet Services	70033986	EUS - FLEET SERVICES	Other	ZONES LLC			(1)		(1)	(1)
2103	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Contract	CANUS CORPORATION		580				
2104	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Contract	DRIVESIVERS INC		1,959				
2105	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Contract	Not assigned					3,806	11,359
2106	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Contract	RICH AMERICAS CORPORATION		250			13,148	-
2107	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Contract	SHI INTERNATIONAL CORP				244		
2108	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Labor External	Not assigned		11,310	8,668			
2109	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Labor External	TATA AMERICA INTERNATIONAL CORP						
2110	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Labor Internal	Not assigned		49,090	46,586	91		
2111	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Materials	DRIVESIVERS INC		97				
2112	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Materials	EMERGE A MARELLO			14			
2113	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Materials	MATTHEW J JACKSON		212				
2114	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Materials	MOBILE MOUNTING SOLUTIONS INC				27,752		
2115	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Materials	Not assigned		225	17	358	7	4
2116	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Materials	STUART B WATSON		38				
2117	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Materials	ZONES CORPORATE SOLUTIONS		116	314	8,075		
2118	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Materials	ZONES LLC		360	1,322	722	399	
2119	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	ALFREDA SMITH		394				
2120	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	AMERICAN MESSAGING SERVICES LLC						
2121	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	AT&T MOBILITY LLC		22,621	25,339	24,926	24,836	23,983
2122	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	CHAD A ENOS						
2123	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	DRIVESIVERS INC		(42)				
2124	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	INTRADO ENTERPRISE COLLABORATION		27,097	51,327	44,095	43,830	21,241
2125	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	JAMES M MOUNT		22				
2126	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	JESSE G GARCIA			29			
2127	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	MOBILE MOUNTING SOLUTIONS INC				(311)		
2128	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	NEXTEL COMMUNICATIONS		839	1,060	1,248	1,133	1,101
2129	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	NI SATELLITE INC			3,928	8,781	8,140	15,496
2130	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	Not assigned		34,600	37,413	24,428	32,433	32,946
2131	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	RICH AMERICAS CORPORATION			(5)		(10)	
2132	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	SATCOM GLOBAL FZE		2,621	4,968	5,140	5,071	4,894
2133	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	SHI INTERNATIONAL CORP					(1)	(2)
2134	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	U S CELLULAR		93				
2135	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	VERIZON WIRELESS		168,134	346,191	331,924	308,128	330,321
2136	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	ZONES CORPORATE SOLUTIONS				(13)		
2137	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041831	EUS - Supply Chain	70033988	EUS - SUPPLY CHAIN	Other	ZONES LLC		(1)	(9)		(2)	(1)
2138	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5041833	EUS - Fleet Services (Contracts)	70040068	EUS - Fleet Services (Contracts)	Contract	CUMM						

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
2162	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS - CRESS	Materials	STADTNER CO INC			562	(44)		
2163	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS -CRESS	Materials	ZONES CORPORATE SOLUTIONS	35					
2164	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS -CRESS	Other	AT&T MOBILITY LLC	4,248	5,347	5,183	4,731	3,995	
2165	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS -CRESS	Other	CYNTHIA SILVEIRA					2,580	
2166	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS -CRESS	Other	INTRADO ENTERPRISE COLLABORATION	11,781	23,147	65,588	70,587	33,848	
2167	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS -CRESS	Other	NEXTEL COMMUNICATIONS			(142)			248
2168	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS -CRESS	Other	NI SATELLITE INC	6,547	10,159	9,355	10,214	10,731	
2169	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS -CRESS	Other	NOT ASSIGNED	57,878	17,184		13,629	7,955	
2170	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS -CRESS	Other	RICH AMERICAS CORPORATION			(7)	(7)		
2171	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS -CRESS	Other	SATCOM GLOBAL FZE	4,144	8,440	8,907	9,173	8,994	
2172	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS -CRESS	Other	SHI INTERNATIONAL CORP	25				67,602	
2173	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042149	EUS - CRESS	70034280	EUS -CRESS	Other	VERIZON WIRELESS	64,275	94,448	90,896	108,408	71,908	
2174	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Contract	CANUS CORPORATION	44				6,965	19,929
2175	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Contract	Not assigned					22,195	
2176	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS - LAND & ENVIRONMENT	Contract	RICH AMERICAS CORPORATION					565	-
2177	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS - LAND & ENVIRONMENT	Contract	SHI INTERNATIONAL CORP						
2178	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Labor External	Not assigned	3,439	4,066				
2179	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Labor Internal	Not assigned	42,650	40,273	22			444
2180	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS - LAND & ENVIRONMENT	Materials	CORNING JOHNSON		739				
2181	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Materials	Not assigned	11	23				
2182	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Materials	ZONES CORPORATE SOLUTIONS	1,059	1,568				
2183	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	AMERICAN MESSAGING SERVICES LLC	845	1,882	1,840	1,727		
2184	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	AT&T MOBILITY LLC	29,981	38,728	43,573	43,757	47,681	
2185	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	CYNTHIA SILVEIRA				100	200	
2186	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	GLOBALSTAR USA	577	981				
2187	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	INTRADO ENTERPRISE COLLABORATION	62,745	124,859	83,820	102,326	28,603	
2188	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	NEXTEL COMMUNICATIONS	1,722	2,334	1,536	6,718	5,948	
2189	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	NI SATELLITE INC	6,719	10,581	11,591	12,429	14,171	
2190	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	NOT ASSIGNED	62,355	71,389	67,718	71,389	67,602	
2191	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS - LAND & ENVIRONMENT	Other	SATCOM GLOBAL FZE	3,093	3,224	3,645	3,422	3,636	
2192	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	SHI INTERNATIONAL CORP					(8)	
2193	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	USA MOBILITY WIRELESS INC		257	886	389	392	448
2194	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	VERIZON WIRELESS	207,430	367,738	356,989	340,159	338,711	
2195	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042150	EUS - LAND & ENVIRONMENT	70034281	EUS -LAND & ENVIRONMENT	Other	ZONES CORPORATE SOLUTIONS	(3)	(4)				
2196	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Contract	Not assigned	1,231			1,525	4,666	
2197	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Contract	RICH AMERICAS CORPORATION		3,195	1,587	5,135		
2198	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Contract	SHI INTERNATIONAL CORP						
2199	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Labor External	Not assigned	1,088	938				
2200	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Labor External	TATAMERICA INTERNATIONAL CORP	1,887					
2201	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Labor Internal	Not assigned	16,870	22,526	2,593			901
2202	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Materials	Not assigned	3	7				
2203	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Materials	ZONES CORPORATE SOLUTIONS	294	743				
2204	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Other	AT&T MOBILITY LLC	6,060	10,629	13,835	24,762	30,457	
2205	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Other	VERIZON WIRELESS	1,512	1,512				
2206	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Other	INTRADO ENTERPRISE COLLABORATION	12,167	23,153	7,716	6,431	3,116	
2207	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Other	NEXTEL COMMUNICATIONS	353	425	513	845	516	
2208	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Other	NI SATELLITE INC	445	619	6,479	12,876	5,517	
2209	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Other	Not assigned	12,767	16,945	10,132	(225,467)	(99,287)	
2210	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Other	SATCOM GLOBAL FZE	1,597	3,997	2,895	5,732	8,150	
2211	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Other	SHI INTERNATIONAL CORP					(1)	
2212	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Other	VERIZON WIRELESS				76		
2213	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Other	VERIZON WIRELESS	31,696	52,138	56,604	675,512	664,019	
2214	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042151	EUS - ELECTRIC OVERHEAD & MISC	70034282	EUS -ELECTRIC OVERHEAD & MISC	Other	ZONES CORPORATE SOLUTIONS			(1)	(2)		
2215	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Contract	CANUS CORPORATION	12					
2216	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Contract	NOT ASSIGNED	2,466					
2217	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Contract	Not assigned					3,277	9,413
2218	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Contract	RICH AMERICAS CORPORATION					10,567	
2219	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Contract	SHI INTERNATIONAL CORP					648	
2220	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Labor External	Not assigned	3,113	903				242
2221	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Labor Internal	Not assigned	23,943	15,706	402			792
2222	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Materials	Not assigned		3				
2223	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Materials	ZONES LLC		200				
2224	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Other	AT&T MOBILITY LLC	9,015	12,229	13,435	14,576	14,138	
2225	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Other	HUGHES NETWORK SYSTEMS LLC	441	756	756	1,386	252	
2226	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Other	INTRADO ENTERPRISE COLLABORATION	27,429	36,753	36,753	28,137	10,693	
2227	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Other	NEXTEL COMMUNICATIONS	2,737	3,627	5,207	4,825		
2228	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Other	NI SATELLITE INC	508	756	1,510	585	85	
2229	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Other	Not assigned	20,671	33,360	21,463	33,654	19,387	
2230	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Other	SATCOM GLOBAL FZE	378	709	282			
2231	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Other	SHI INTERNATIONAL CORP					(1)	
2232	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Other	USA MOBILITY WIRELESS INC					(2)	
2233	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042152	EUS - SAFETY & HEALTH	70034283	EUS -SAFETY & HEALTH	Other	VERIZON WIRELESS	74,640	125,857	142,636	136,528	120,246	
2234	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Contract	ZONES LLC			(1)			
2235	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Contract	Not assigned					1,483	4,216
2236	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Contract	RICH AMERICAS CORPORATION					4,746	
2237	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Contract	SHI INTERNATIONAL CORP						
2238	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Contract	STADTNER CO INC		2,191				
2239	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Labor External	Not assigned	1,595	698				
2240	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Labor Internal	Not assigned	7,788	6,592				
2241	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Other	AT&T MOBILITY LLC		5,001				
2242	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Other	INTRADO ENTERPRISE COLLABORATION	6,872	5,241	12,370	13,096	6,347	
2243	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Other	NEXTEL COMMUNICATIONS				979	1,952	1,674
2244	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Other	NI SATELLITE INC	903	1,502	3,163	1,698	1,545	
2245	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5042153	EUS - GAS MISC	70034284	EUS -GAS MISC	Other	Not assigned	4,395	13,619	21,783	17,910	(95,235)	
2246	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other</												

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
2276	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235471	IT/OIO - Contracts	8115393	OIO - Corporate Executive Board	Labor External	CEB INC			70,600			
2277	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235471	IT/OIO - Contracts	8115397	OIO - Allstate (Ira)	Contract	Not assigned					137,085	194,489
2278	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235471	IT/OIO - Contracts	8115397	OIO - Allstate (Ira)	Contract	SHI INTERNATIONAL CORP					99,215	25,689
2279	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235471	IT/OIO - Contracts	8115397	OIO - Allstate (Ira)	Contract	SHI INTERNATIONAL CORP					(205)	(64)
2280	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235471	IT/OIO - Contracts	8115398	OIO - Apollo	Labor External	APPIO INC					380,625	228,000
2281	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115244	PEP Corp Svcs - Concur Transaction Fee	Contract	CONCUR TECHNOLOGIES INC				171,008	516,654	551,731
2282	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115244	PEP Corp Svcs - Concur Transaction Fee	Contract	Not assigned			291,736			
2283	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115244	PEP Corp Svcs - Concur Transaction Fee	Labor External	CONCUR TECHNOLOGIES INC	272,297		315,003	212,564		
2284	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115244	PEP Corp Svcs - Concur Transaction Fee	Labor External	Not assigned			(265,480)			
2285	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115246	PEP Corp Svcs - RiskMaster	Contract	CSC CYBERTR CORPORATION	61,439	63,939	63,939	61,439	61,439	61,439
2286	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115246	PEP Corp Svcs - RiskMaster	Contract	CSC CYBERTR CORPORATION	1,229	1,229				
2287	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115246	PEP Corp Svcs - RiskMaster	Other	Not assigned		1,229	1,279	1,279		
2288	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115249	PEP Corp Svcs - ThomasReuter OneSource	Contract	Not assigned					-	
2289	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115249	PEP Corp Svcs - ThomasReuter OneSource	Contract	THOMSON REUTERS INC	28,282		85,561	26,520	118,837	59,367
2290	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115249	PEP Corp Svcs - ThomasReuter OneSource	Materials	Not assigned		240				
2291	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115249	PEP Corp Svcs - ThomasReuter OneSource	Materials	THOMSON REUTERS INC	24,040					
2292	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8115249	PEP Corp Svcs - ThomasReuter OneSource	Other	Not assigned		2,010				
2293	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8150446	PEP MSO - Systems Software	Contract	INSURITY CLAIMS SOFTWARE LLC	88,187				38,488	85,746
2294	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8150446	PEP MSO - Systems Software	Contract	Not assigned		70,976	106,464	70,976		93,482
2295	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8161437	PEP Corp Svcs - EQR Powerhark	Contract	LINKS TECHNOLOGY SOLUTIONS INC	13,012	16,025	75,259	73,530		
2296	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8161437	PEP Corp Svcs - EQR Powerhark	Contract	Not assigned					45,660	39,318
2297	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8161437	PEP Corp Svcs - EQR Powerhark	Labor External	LINKS TECHNOLOGY SOLUTIONS INC	2,250					
2298	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8161437	PEP Corp Svcs - EQR Powerhark	Other	LINKS TECHNOLOGY SOLUTIONS INC	(105)	(205)				
2299	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8161437	PEP Corp Svcs - EQR Powerhark	Other	Not assigned		305	205	1,213		
2300	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8162846	AS Ops & CC - AS - SAS Institute Gas Grid	Contract	Not assigned		149,819	50,569			
2301	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8162846	AS Ops & CC - AS - SAS Institute Gas Grid	Contract	SAS INSTITUTE INC		53,540				
2302	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8170083	AS Ops & CC - AS - Teradata	Contract	TERADATA OPERATIONS INC				31,355		
2303	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8174811	AS Ops & CC - AS - Anasoft	Contract	WORLD WIDE TECHNOLOGY LLC				9,411		
2304	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8174811	AS Ops & CC - AS - Anasoft	Contract	ZONES CORPORATE SOLUTIONS			5,475	2,778		
2305	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8174811	AS Ops & CC - AS - Anasoft	Other	Not assigned		46,585	24			
2306	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8174811	AS Ops & CC - AS - Anasoft	Other	WORLD WIDE TECHNOLOGY LLC	(24)					
2307	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8174811	AS Ops & CC - AS - Anasoft	Other	ZONES CORPORATE SOLUTIONS	(14)					
2308	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8181705	AS Ops & CC - SAS Economics TMS	Contract	SAS INSTITUTE INC		35,995				
2309	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8183007	AS Ops & CC - SAS - Law & Hargre	Contract	SAS INSTITUTE INC				81,896		
2310	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8183617	AS Ops & CC - AS - Tableau Elite Support	Contract	ZONES CORPORATE SOLUTIONS				51,015		
2311	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	8183617	AS Ops & CC - AS - Tableau Elite Support	Contract	Not assigned						
2312	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	9021950	2018 Correct FEREC Account - IT (From)	Contract	Not assigned				92,852	5,846,072	
2313	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	9021950	2018 Correct FEREC Account - IT (From)	Other	Not assigned				600,000		
2314	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	9021951	2018 Correct FEREC Account - IT (From)	Contract	Not assigned				(5,116,333)		
2315	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	9021951	2018 Correct FEREC Account - IT (From)	Labor Internal	Not assigned				(885,310)		
2316	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	9021951	2018 Correct FEREC Account - IT (From)	Materials	Not assigned				(21)		
2317	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - MSO - Application Services	9021951	2018 Correct FEREC Account - IT (From)	Other	Not assigned				(12,656)		
2318	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235512	PEP - BA/Corp Svc Contracts	8115088	PEP Corp Svcs - Powerplan	Contract	Not assigned	290,975	308,434	326,940	173,278	367,350	378,370
2319	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8115088	PEP Corp Svcs - Powerplan	Contract	POWERPLAN INC		0		17,378		
2320	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8115088	PEP Corp Svcs - Powerplan	Other	Not assigned			0			
2321	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116212	PEP Corp Svcs - SAP Annual Mrc	Contract	Not assigned				4,475,486	4,329,920	4,265,168
2322	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116212	PEP Corp Svcs - SAP Annual Mrc	Contract	SAP SYSTEMS INC				91,040		
2323	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116229	PEP BA/CC CES - Open Text	Contract	Not assigned		177,578	266,367	266,367	221,973	250,627
2324	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116229	PEP BA/CC CES - Open Text	Contract	OPEN TEXT INC	12,173	88,789			43,771	
2325	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116229	PEP BA/CC CES - Open Text	Labor External	Not assigned		266,367				
2326	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116233	PEP BA/CC CES - Open Text	Labor External	OPEN TEXT INC						
2327	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116233	PEP Corp Svcs - SAP Taulia	Contract	Not assigned	37,285	327,414	327,414	381,853	422,500	
2328	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116235	PEP Corp Svcs - Epi-Use Advantage	Contract	EPI-USE LABS LLC	48,437	49,018	50,346	51,308	44,611	44,611
2329	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116241	PEP Corp Svcs - Serena	Contract	Not assigned		5,583	64,600	59,216		
2330	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116241	PEP Corp Svcs - Taulia (Mgn Replcmnt)	Contract	Not assigned	306,797		102,266			
2331	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116245	PEP Corp Svcs - Blackbaud (Microfeed)	Contract	BLACKBAUD INC		31,253	64,000	66,628	65,571	65,600
2332	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116245	PEP Corp Svcs - Blackbaud (Microfeed)	Other	BLACKBAUD INC		(1,480)	(1,480)			
2333	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116245	PEP Corp Svcs - Blackbaud (Microfeed)	Contract	Not assigned			1,280			
2334	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116247	PEP Corp Svcs - Envanic	Contract	ENVANIC INC		15,063		75,317	45,190	45,190
2335	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116247	PEP Corp Svcs - Envanic	Contract	Not assigned	162,000	165,697	180,760	105,443	135,570	135,570
2336	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116261	PEP Corp Svcs - AssetWorks - Fleet Any	Contract	ASSETWORKS LLC		0	30,016	21,012	40,731	
2337	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116263	PEP Corp Svcs - AssetWorks - Fleet Any	Contract	Not assigned	108,235		105,058	63,114	124,671	130,904
2338	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116263	PEP Corp Svcs - AssetWorks - Fleet Any	Other	Not assigned				(6)		
2339	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116262	PEP Corp Svcs - BottomLine	Contract	BOTTOMLINE TECHNOLOGIES INC		28,125				
2340	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116263	PEP Corp Svcs - BottomLine	Contract	USPERV CHECKERATE SERVICES CORP		10,868				
2341	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116269	PEP Corp Svcs - GXS Monthly Service	Contract	OPEN TEXT INC			251,100	11,411	11,982	
2342	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116269	PEP Corp Svcs - GXS Monthly Service	Labor External	GLOBAL EXCHANGE SERVICES INC (GXS)		226,075				
2343	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116269	PEP Corp Svcs - GXS Monthly Service	Labor External	Not assigned			84,700			
2344	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8116269	PEP Corp Svcs - GXS Monthly Service	Labor External	OPEN TEXT INC	21,175	148,225				
2345	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8123248	PEP Corp Svcs - Oracle Global Knowledge	Contract	ORACLE AMERICA INC		1,015				1,212
2346	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8123248	PEP Corp Svcs - Oracle Global Knowledge	Contract	ZONES CORPORATE SOLUTIONS	49,001	50,471	103,231	57,800	60,735	
2347	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8123248	PEP Corp Svcs - Oracle Global Knowledge	Other	Not assigned		123	126	258		
2348	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8123248	PEP Corp Svcs - Oracle Global Knowledge	Contract	ZONES CORPORATE SOLUTIONS	(1,233)	(1,233)	(1,233)	(145)	(149)	
2349	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8123585	PEP Corp Svcs - Utilities International	Contract	Not assigned					150,000	100,000
2350	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8123585	PEP Corp Svcs - Utilities International	Contract	UTILITIES INTERNATIONAL INC		50,000	50,000	50,000	30,000	50,000
2351	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8123787	PEP Corp Svcs - Softlink	Materials	Not assigned		2,833	8,448	6,070	8,676	9,261
2352	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8123787	PEP Corp Svcs - Softlink	Contract	SOFTLINK AMERICA INC		37				
2353	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8123787	PEP Corp Svcs - Softlink	Materials	SOFTLINK AMERICA INC		3,665				
2354	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8123787	PEP Corp Svcs - Softlink	Other	Not assigned		350				
2355	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8123787	PEP Corp Svcs - Softlink	Contract	SOFTLINK AMERICA INC				-		
2356	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8139660	PEP Corp Svcs - QuestionMark Corp	Contract	QUESTIONMARK CORPORATION	34,568	69,820	69,820	59,347	62,838	66,329
2357	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8148445	PEP Corp Svcs - ACQUIRE	Contract	SHI INTERNATIONAL CORP					24,716	24,716
2358	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8148445	PEP Corp Svcs - ACQUIRE	Contract	ZONES CORPORATE SOLUTIONS	24,477	25,700	25,700			
2359	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA/Corp Svc Contracts	8148445									

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
2390	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6100280	PEP Corp Svcs - SHI Atlasian	Labor Internal	Not assigned	-					
2391	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6100280	PEP Corp Svcs - SHI Atlasian	Other	Not assigned	62					
2392	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6100280	PEP Corp Svcs - SHI Atlasian	Other	ZONES CORPORATE SOLUTIONS	(62)					
2393	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6100416	PEP Corp Svcs - Ascendant (Clearpoint)	Contract	ASCENDANT STRATEGIC MANAGEMENT				28,900		
2394	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6100416	PEP Corp Svcs - Ascendant (Clearpoint)	Contract	Not assigned	131,481	147,500	227,900			
2395	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6100416	PEP Corp Svcs - Ascendant (Clearpoint)	Labor External	Not assigned	18,462					
2396	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6100416	PEP Corp Svcs - Ascendant (Clearpoint)	Other	Not assigned		(0)				
2397	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6101549	PEP Corp Svcs - Sungard ResIQ	Contract	PIS DATA SYSTEMS INC				44,157		
2398	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6101549	PEP Corp Svcs - Sungard ResIQ	Contract	SUNGARD AVANTGARD LLC	37,075	39,299	41,657			
2399	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6101549	PEP Corp Svcs - Sungard ResIQ	Other	FIS DATA SYSTEMS INC						
2400	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6101666	PEP Corp Svcs - Oracle Primavera	Contract	Not assigned	1,031,952	1,052,591	964,858	1,052,572	1,052,572	1,073,624
2401	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6101666	PEP Corp Svcs - Oracle Primavera	Contract	SHI INTERNATIONAL CORP				87,714		
2402	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6101666	PEP Corp Svcs - Oracle Primavera	Other	Not assigned		(0)				
2403	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6102702	PEP Corp Svcs - Softtech Tight Vector	Contract	Not assigned	300,000	300,000	300,000	275,000	300,000	300,000
2404	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6102702	PEP Corp Svcs - Softtech Tight Vector	Contract	SOFT TECH INC				25,000		
2405	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6105600	PEP Corp Svcs - S&W Software	Contract	SAFE SOFTWARE INC	25,820	70,802				
2406	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6105953	PEP Corp Svcs - IBM SUSE License	Contract	IBM CORPORATION	45,203					
2407	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6107081	PEP Corp Svcs - Rhombiome	Contract	ZONES CORPORATE SOLUTIONS	3,600					
2408	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6107081	PEP Corp Svcs - Rhombiome	Contract	Not assigned	9					
2409	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6107081	PEP Corp Svcs - Rhombiome	Other	ZONES CORPORATE SOLUTIONS	(9)					
2410	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6108374	PEP Corp Svcs - Pipeline Maxxvera	Contract	Not assigned		124,838	152,552	100,058	106,899	93,169
2411	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6108374	PEP Corp Svcs - Pipeline Maxxvera	Contract	PIPELINE SOFTWARE LLC	151,099			49,654	20,513	31,135
2412	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6108374	PEP Corp Svcs - Pipeline Maxxvera	Other	Not assigned	1,511	0				
2413	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6108374	PEP Corp Svcs - Pipeline Maxxvera	Other	PIPELINE SOFTWARE LLC	(1,511)					
2414	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6172474	PEP Corp Svcs - S&W Technologies	Contract	Not assigned	284,000					
2415	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6172474	PEP Corp Svcs - S&W Technologies	Materials	Not assigned		286,840				
2416	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6172474	PEP Corp Svcs - S&W Technologies	Other	S&W TECHNOLOGIES INC						
2417	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6172474	PEP Corp Svcs - S&W Technologies	Other	Not assigned		20,595				
2418	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6175286	PEP Corp Svcs - Dr McNatty	Contract	DR MCNATTY & ASSOCIATES INC			465,447			
2419	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6175286	PEP Corp Svcs - Dr McNatty	Contract	Not assigned			594,916			873,156
2420	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6175286	PEP Corp Svcs - Dr McNatty	Labor External	DR MCNATTY & ASSOCIATES INC	18,110					
2421	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6175286	PEP Corp Svcs - Dr McNatty	Labor External	Not assigned		1,007,938				
2422	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6175286	PEP Corp Svcs - Dr McNatty	Other	DR MCNATTY & ASSOCIATES INC			(2,868)	839,454	1,000,014	
2423	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6175286	PEP Corp Svcs - Dr McNatty	Other	Not assigned			(0)	1,868		
2424	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6176020	PEP Corp Svcs - Metric Stream	Contract	METRICSTREAM INC				13,880	159,933	155,855
2425	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6176020	PEP Corp Svcs - Metric Stream	Contract	Not assigned				41,640	111,041	
2426	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6176020	PEP Corp Svcs - Metric Stream	Contract	ZONES CORPORATE SOLUTIONS	87,611	87,611	173,359			
2427	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6176020	PEP Corp Svcs - Metric Stream	Other	METRICSTREAM INC					(3,199)	(3,117)
2428	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6176020	PEP Corp Svcs - Metric Stream	Other	Not assigned	219		433			
2429	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6176020	PEP Corp Svcs - Metric Stream	Contract	ZONES CORPORATE SOLUTIONS		219	(833)			
2430	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6176156	PEP Corp Svcs - Confluence	Contract	ZONES CORPORATE SOLUTIONS	9,183	3,457				
2431	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6176156	PEP Corp Svcs - Confluence	Other	Not assigned						
2432	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6176156	PEP Corp Svcs - Confluence	Other	ZONES CORPORATE SOLUTIONS		(32)				
2433	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6177058	PEP Corp Svcs - Dolphin/Serrala	Contract	SERRALA SOLUTIONS US CORP	14,688	14,981	15,281	15,281	15,281	15,479
2434	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6177058	PEP Corp Svcs - Dolphin/Serrala	Other	Not assigned						
2435	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6177058	PEP Corp Svcs - Dolphin/Serrala	Other	SERRALA SOLUTIONS US CORP	593	306	306			
2436	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6177776	PEP Corp Svcs - Infosol	Contract	INFOSOL INC				(306)	(306)	(310)
2437	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6177776	PEP Corp Svcs - Infosol	Contract	Not assigned			7,109		6,043	
2438	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6177776	PEP Corp Svcs - Infosol	Other	INFOSOL INC			(2,421)		(171)	(121)
2439	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6177856	PEP Corp Svcs - 2nd Watch	Contract	2ND WATCH INC			220,248			
2440	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6177856	PEP Corp Svcs - 2nd Watch	Contract	Not assigned			31,309	(4,271)		
2441	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6177856	PEP Corp Svcs - 2nd Watch	Labor External	2ND WATCH INC				278,350	821,422	373,639
2442	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6177856	PEP Corp Svcs - 2nd Watch	Other	2ND WATCH INC	(1,453)			(500)		
2443	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6177856	PEP Corp Svcs - 2nd Watch	Other	Not assigned				500		
2444	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6178160	PEP Corp Svcs - Accenture ADOB	Contract	ACCENTURE LLP			9,162		7,592	
2445	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6178160	PEP Corp Svcs - SAP HANA	Contract	GRAVITY PRO CONSULTING LLC	26,455	26,455	26,455	26,455		
2446	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6178160	PEP Corp Svcs - SAP HANA	Contract	Not assigned			51,697	776,545	746,778	
2447	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6178160	PEP Corp Svcs - SAP HANA	Contract	SAP SYSTEMS INC			258,826			
2448	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6178160	PEP Corp Svcs - SAP HANA	Other	GRAVITY PRO CONSULTING LLC	(66)	(66)	(66)	(66)		
2449	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6178160	PEP Corp Svcs - SAP HANA	Other	Not assigned			66			
2450	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6178307	PEP Corp Svcs - Shibumi	Contract	Not assigned		345,000	250,000	125,001		
2451	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6178307	PEP Corp Svcs - Shibumi	Contract	SHIBUMI						
2452	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6178307	PEP Corp Svcs - Shibumi	Other	Not assigned				1,821		
2453	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6178307	PEP Corp Svcs - Shibumi	Other	SHIBUMI.COM INC				(1,821)		
2454	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6179797	PEP Corp Svcs - FMSystems	Contract	ARROWHEAD SOLUTIONS LLC			161			
2455	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6179797	PEP Corp Svcs - FMSystems	Contract	FM SYSTEMS INC			81,710	109,059		8,338
2456	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6179797	PEP Corp Svcs - FMSystems	Contract	Not assigned					92,973	93,634
2457	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6179797	PEP Corp Svcs - FMSystems	Labor External	FAIR WESTERN ANTHROPOLOGICAL SOLUTIONS INC			328			
2458	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6179797	PEP Corp Svcs - FMSystems	Labor External	Not assigned			76			
2459	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6179797	PEP Corp Svcs - FMSystems	Materials	FM SYSTEMS INC			81,710			
2460	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6179797	PEP Corp Svcs - FMSystems	Materials	Not assigned			817			
2461	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6179797	PEP Corp Svcs - FMSystems	Other	Not assigned			7,106			
2462	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6180420	PEP Corp Svcs - Hypercursion, Inc.	Contract	HYPERCURSION INC			92,200	95,260	92,200	92,200
2463	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6180420	PEP Corp Svcs - Hypercursion, Inc.	Other	HYPERCURSION INC	(1,844)	(1,844)	(1,905)	(1,844)	(1,213)	
2464	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6180420	PEP Corp Svcs - Hypercursion, Inc.	Other	Not assigned			1,844	1,905		
2465	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6181087	PEP Corp Svcs - Zones W502	Contract	W502 INC			25,000			
2466	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6181087	PEP Corp Svcs - Zones W502	Contract	Not assigned			575			
2467	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6182788	PEP Corp Svcs - TruQua Enterprises	Contract	TRUQUA ENTERPRISES LLC			30,000	30,000	20,000	30,000
2468	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6182788	PEP Corp Svcs - TruQua Enterprises	Other	TRUQUA ENTERPRISES LLC			-	(554)	(400)	
2469	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6183618	PEP Corp Svcs - Predictive Solutions	Contract	INTELIX TECHNOLOGIES LLC					53,333	
2470	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6183618	PEP Corp Svcs - Predictive Solutions	Contract	Not assigned						106,667
2471	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6183618	PEP Corp Svcs - Predictive Solutions	Contract	PREDICTIVE SOLUTIONS CORPORATION			266,667	320,000	293,333	186,667
2472	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6183618	PEP Corp Svcs - Predictive Solutions	Other	Not assigned			4,267	9,733		
2473	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6183618	PEP Corp Svcs - Predictive Solutions	Other	PREDICTIVE SOLUTIONS CORPORATION			(4,267)	(5,333)	(2,140)	(6,400)
2474	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6183936	PEP Corp Svcs - Winhuttle, LLC	Contract	WINHUTTEL LLC			21,008	5,134	(6,134)	
2475	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Svc Contracts	6183936	PEP Corp Svcs - Winhuttle, LLC	Other							

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
2504	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8189456	PEP Corp Svcs - Workiva	Contract	Not assigned					28,500	142,500
2505	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8189456	PEP Corp Svcs - Workiva	Contract	WORKIVA INC		60,000			(25,700)	133,300
2506	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8189458	PEP Corp Svcs - SAP Cloud Platform	Contract	Not assigned					146,633	230,423
2507	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8189458	PEP Corp Svcs - SAP Cloud Platform	Contract	SAP INDUSTRIES INC					20,542	83,237
2508	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8182442	PEP Corp Svcs - Zones MapR Converged Ed	Contract	ZONES CORPORATE SOLUTIONS					28,600	
2509	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8182442	PEP Corp Svcs - Zones MapR Converged Ed	Other	ZONES CORPORATE SOLUTIONS					(77)	
2510	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8183302	PEP Corp Svcs - SAP MaxAttention BL	Labor External	Not assigned					546,561	731,414
2511	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8183302	PEP Corp Svcs - SAP MaxAttention BL	Labor External	SAP INDUSTRIES INC					183,853	
2512	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8185686	PEP Corp Svcs - Kyriba	Contract	KYRIBA CORPORATION					87,276	87,276
2513	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8185686	PEP Corp Svcs - Kyriba	Other	KYRIBA CORPORATION					(1,746)	(1,746)
2514	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8187118	PEP Corp Svcs - SAS for Amazon Redshift	Contract	SAS INSTITUTE INC					25,274	
2515	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8188576	PEP Corp Svcs - KirttyHawk	Contract	Not assigned					132,000	
2516	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8189380	PEP Corp Svcs - IBIX & MCG Health OIG	Contract	MCG HEALTH LLC					18,350	
2517	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	8189380	PEP Corp Svcs - IBIX & MCG Health OIG	Other	MCG HEALTH LLC						
2518	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	9200596	PEP Corp Svcs - Reduany Unified Platform	Contract	Not assigned					112,500	
2519	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	9021016	IT-FERC Act 9021039/9021040	Contract	Not assigned		16,069				
2520	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	9021016	IT-FERC Act 9021039/9021040	Labor Internal	Not assigned		972				
2521	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	9021016	IT-FERC Act 9021039/9021040	Materials	Not assigned		229,928				
2522	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	9021039	IT-FERC Act 5235513-9039	Contract	Not assigned					(16,025)	
2523	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	9021040	IT-FERC Act 5235513-5570	Contract	Not assigned					(44)	
2524	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	9021040	IT-FERC Act 5235513-5570	Labor Internal	Not assigned					(872)	
2525	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235513	PEP - BA Corp Sec Contracts	9021040	IT-FERC Act 5235513-5570	Materials	Not assigned		(229,928)				
2526	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235514	Data CoE Contracts	8181082	Data CoE - Collibra	Contract	COLIBRIA INC					15,768	
2527	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235514	Data CoE Contracts	8181082	Data CoE - Collibra	Contract	Not assigned						
2528	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235514	Data CoE Contracts	8189304	Data CoE - AWS Usage	Contract	AMAZON WEB SERVICES LLC				47,750	174,785	141,909
2529	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235514	Data CoE Contracts	9021041	IT-FERC Act 5235124	Contract	Not assigned			(812,414)			503,778
2530	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235514	Data CoE Contracts	9021067	IT-FERC Act 9021041	Contract	Not assigned			812,414			
2531	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115264	PEP BACES - eGain	Contract	EGAIN CORPORATION				45,623		
2532	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115264	PEP BACES - eGain	Contract	Not assigned				133,971		
2533	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115271	PEP BACES (non C&B) - Aspect eWF	Contract	ASPECT SOFTWARE INC		60,830				
2534	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115271	PEP BACES (non C&B) - Aspect eWF	Contract	Not assigned		113,922	122,105	252,027	259,844	265,111
2535	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115274	PEP BACES (non C&B) - Interwoven	Contract	Not assigned		478,327				270,377
2536	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115274	PEP BACES (non C&B) - Interwoven	Other	Not assigned			(0)			
2537	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115277	PEP BACES (non C&B) - eGain	Contract	EGAIN CORPORATION					46,208	
2538	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115277	PEP BACES (non C&B) - eGain	Contract	Not assigned		116,655	116,655			
2539	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115278	PEP BACES (non C&B) - Verint	Contract	WORLDWIDE TECHNOLOGY LLC					75,625	
2540	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115277	PEP BACES (non C&B) - eGain	Other	EGAIN CORPORATION				(924)		
2541	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115277	PEP BACES (non C&B) - eGain	Other	WORLDWIDE TECHNOLOGY LLC						(118)
2542	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115278	PEP BACES (non C&B) - Verint	Contract	Not assigned		252,860	548,383	665,057	706,453	502,647
2543	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115278	PEP BACES (non C&B) - Verint	Contract	VERINT AMERICAS INC		50,572				520,164
2544	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8115278	PEP BACES (non C&B) - Verint	Other	Not assigned		0	(0)			
2545	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8123894	PEP BACES - SHI International	Contract	SHI INTERNATIONAL CORP		345			11,134	
2546	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8123894	PEP BACES - SHI International	Other	Not assigned		7				
2547	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8123894	PEP BACES - SHI International	Other	SHI INTERNATIONAL CORP		(7)				
2548	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8148917	PEP BACES - Nuance	Contract	Not assigned		464,561	437,982	406,486	307,897	302,588
2549	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8148917	PEP BACES - Nuance	Contract	NUANCE COMMUNICATIONS INC					86,181	55,521
2550	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8148917	PEP BACES - Nuance	Other	Not assigned		0				26,372
2551	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8148917	PEP BACES - Nuance	Other	NUANCE COMMUNICATIONS INC					(484)	
2552	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187199	PEP BACES - Google API Map	Contract	GOOGLE INC		40,000	40,000	40,000		
2553	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187199	PEP BACES - Google API Map	Contract	Not assigned					83,036	35,587
2554	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187199	PEP BACES - Google API Map	Contract	SHI INTERNATIONAL CORP					24,235	23,725
2555	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187199	PEP BACES - Google API Map	Other	GOOGLE INC		(800)		(800)		
2556	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187199	PEP BACES - Google API Map	Other	Not assigned		800	800	61		
2557	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187199	PEP BACES - Google API Map	Other	SHI INTERNATIONAL CORP					(61)	
2558	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187978	PEP BACES - SSB Active Standard	Contract	IBM AC INC			24,435			
2559	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187978	PEP BACES - SSB Active Standard	Contract	MAGUS RESEARCH LIMITED		38,800				
2560	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187978	PEP BACES - SSB Active Standard	Contract	SHI INTERNATIONAL CORP					49,497	
2561	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187978	PEP BACES - SSB Active Standard	Other	Not assigned				(483)		
2562	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187978	PEP BACES - SSB Active Standard	Other	MAGUS RESEARCH LIMITED		(1,106)				
2563	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187978	PEP BACES - SSB Active Standard	Other	Not assigned		1,106			483	
2564	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187981	PEP BACES - Ecomy	Contract	EGAIN CORPORATION			45,445		47,717	
2565	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187981	PEP BACES - Ecomy	Contract	WORLDWIDE TECHNOLOGY LLC		43,281				
2566	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187981	PEP BACES - Ecomy	Other	EGAIN CORPORATION				(2,469)		
2567	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8187981	PEP BACES - Ecomy	Other	Not assigned				2,269		
2568	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8186168	PEP BACES - EMC Revelle	Contract	EMC CORPORATION		81,108				
2569	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8186168	PEP BACES - EMC Revelle	Contract	SHI INTERNATIONAL CORP			98,703	98,703		
2570	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8186168	PEP BACES - EMC Revelle	Other	Not assigned			1,974	247		
2571	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8186168	PEP BACES - EMC Revelle	Other	SHI INTERNATIONAL CORP			-	(247)		
2572	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8189821	PEP BACES - Webtrends	Contract	Not assigned						
2573	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8189821	PEP BACES - Webtrends	Contract	WEBTRENDS INCORPORATED					76,500	26,075
2574	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8189821	PEP BACES - Webtrends	Labor External	Not assigned		181,460	166,573	124,929		
2575	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8189821	PEP BACES - Webtrends	Labor External	WEBTRENDS INCORPORATED				13,881		
2576	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8170427	PEP BACES - IBM XL	Contract	EDGE SOLUTIONS & CONSULTING INC/OSS					(73)	
2577	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8170427	PEP BACES - IBM XL	Other	EDGE SOLUTIONS & CONSULTING INC/OSS						
2578	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8170427	PEP BACES - IBM XL	Other	Not assigned					73	
2579	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8171716	PEP BACES - Interdim	Contract	Not assigned				19,480	155,840	37,012
2580	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8171716	PEP BACES - Interdim	Contract	Not assigned		204,050	222,600	214,280	185,060	222,072
2581	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8174396	PEP BACES - HP Enterprise Care	Contract	HP INC		20,481				
2582	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8174396	PEP BACES - HP Enterprise Care	Contract	Not assigned		71,683		30,721		
2583	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8174396	PEP BACES - HP Enterprise Care	Other	Not assigned				(0)		
2584	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8174877	PEP BACES - Energy Insight Capstone	Contract	INFOSOL INC				6,768		
2585	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8174877	PEP BACES - Energy Insight Capstone	Contract	ZONES CORPORATE SOLUTIONS		9,183				
2586	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8174877	PEP BACES - Energy Insight Capstone	Other	Not assigned				23		
2587	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8174877	PEP BACES - Energy Insight Capstone	Other	ZONES CORPORATE SOLUTIONS		(23)				
2588	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8178442	PEP BACES - ProWeb	Contract	EXPIRIAN MARKETING SOLUTIONS INC				74,809		
2589	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8180094	PEP BACES - 2nd Watch	Contract	2ND WATCH INC					(86,561)	180,000
2590	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8180094	PEP BACES - 2nd Watch	Contract	Not assigned				193,500		(6,641)
2591	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8180095	PEP BACES - Open Text Liveste	Contract	Not assigned			422,379	564,190	564,190	493,667
2592	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8180095</									

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
2618	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8109616	PEP BACES - Open Text Offsite	Labor Internal	Not assigned						242
2619	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8109308	PEP BACES - AWS Usage ACP	Contract	AMAZON WEB SERVICES LLC						28,514
2620	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8202536	PEP BACES - Collibra	Contract	COLLIBRA INC						12,500
2621	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235515	PEP - BACES Contracts	8202536	PEP BACES - Collibra	Contract	COLLIBRA INC						25,000
2622	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8115293	PEP BAE Elec -Dl - Syclo	Contract	Not assigned	129,234					
2623	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8115293	PEP BAE Elec -Dl - Syclo	Other	Not assigned	(0)					
2624	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8121012	BT - Electric ABB Venty Network	Contract	ABB INC		15,698				
2625	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8121012	BT - Electric ABB Venty Network	Contract	ABB INC		(34,401)				
2626	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8142000	PEP BAE Elec -Dl - Arcos Inc	Contract	ARCOS LLC	204,527	77,566				
2627	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8142000	PEP BAE Elec -Dl - Arcos Inc	Contract	Not assigned	199,593	418,485				
2628	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8142000	PEP BAE Elec -Dl - Arcos Inc	Other	Not assigned						
2629	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8109045	PEP BAE Elec -Dl - Corlogic Polygon	Contract	CORLOGIC INC		4,854				
2630	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8109045	PEP BAE Elec -Dl - Corlogic Polygon	Contract	Not assigned	47,120	61,399	58,242			
2631	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8109045	PEP BAE Elec -Dl - Corlogic Polygon	Other	Not assigned	0					
2632	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8177860	PEP BAE Elec -Dl - Arcos Callout Sched	Contract	ARCOS LLC		133,608	(3,666)			
2633	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8179517	PEP BAE Elec -Dl - Osmose Utilities Se	Contract	Not assigned			167,200	40,000	13,331	
2634	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8179517	PEP BAE Elec -Dl - Osmose Utilities Se	Contract	OSMOSE UTILITIES SERVICES INC		72,000		106,667		
2635	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8179517	PEP BAE Elec -Dl - Osmose Utilities Se	Other	OSMOSE UTILITIES SERVICES INC						(963)
2636	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8162299	PEP BAE Elec -Dl - Arcos 2017 Renewal	Contract	Not assigned		375,211	1,031,830			
2637	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8162760	PEP BAE Elec -Dl - ESRI Schneider	Contract	ENVIRONMENTAL SYSTEMS RESEARCH		13,500				
2638	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8165498	PEP BAE Elec -Dl - CIME	Contract	CYME INTERNATIONAL LTD INC		45,840				
2639	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8165498	PEP BAE Elec -Dl - CIME	Other	CYME INTERNATIONAL LTD INC						
2640	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8165499	PEP BAE Elec -Dl - CIME	Other	Not assigned		229				
2641	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8187758	PEP BAE Elec -Dl - Imagine Computing	Contract	Not assigned				137,500		
2642	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8181819	PEP BAE Elec -Dl - Grid Unity	Contract	GRIDUNITY INC				20,000		
2643	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8192007	PEP BAE Elec -Dl - Federal Airways	Contract	FEDERAL AIRWAYS & AIRSPACE INC						-
2644	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8192007	PEP BAE Elec -Dl - Federal Airways	Contract	Not assigned				137,500	12,500	
2645	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8022156	IO-ETRC Acc-9210-5235516-FROM	Contract	Not assigned				(45,833)		
2646	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - WSP Electric ED Contracts	8022156	IO-ETRC Acc-9210-5235516-FROM	Contract	Not assigned						
2647	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115312	PEP BAE EnPrnc -PCI GemMgnr/GenTra	Contract	Not assigned	177,833	161,667	194,000	205,959	208,018	
2648	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115312	PEP BAE EnPrnc -PCI GemMgnr/GenTra	Contract	POWER COST INC	0	32,333				
2649	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115313	PEP BAE EnPrnc -HFA Maintenance	Contract	FINANCIAL ENGINEERING ASSOCIATES	86,625					
2650	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115313	PEP BAE EnPrnc -HFA Maintenance	Contract	S&P GLOBAL INC				6,730	6,730	
2651	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115314	PEP BAE EnPrnc -Canadian Enerdata Sub	Other	CANADIAN ENERDATA LTD	6,595	6,595	6,595	6,730		
2652	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115314	PEP BAE EnPrnc -Canadian Enerdata Sub	Other	S&P GLOBAL INC					(30)	(143)
2653	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115315	PEP BAE EnPrnc -Canadian Monthly	Other	BLOOMBERG FINANCE LP	26,754	25,956	30,002	18,400	18,400	
2654	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115317	PEP BAE EnPrnc -Platts Dispatch-G	Contract	Not assigned	237,116	267,291	232,804	267,669	266,500	282,379
2655	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115317	PEP BAE EnPrnc -Platts Dispatch-G	Contract	S&P GLOBAL INC	20,790		46,754			
2656	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115317	PEP BAE EnPrnc -Platts Dispatch-G	Other	Not assigned						
2657	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115317	PEP BAE EnPrnc -Platts Dispatch-G	Contract	ABB ENTERPRISE SOFTWARE INC	140,985		11,616			
2658	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115318	PEP BAE EnPrnc -Ventyx Velocity	Contract	Not assigned	(140,985)	140,985				
2659	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115322	PEP BAE EnPrnc -MathWorks -Matlab	Contract	THE MATHWORKS INC	53,123	57,542	74,246	56,073	56,115	56,349
2660	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115323	PEP BAE EnPrnc -Tullet Preben	Other	TULLETT PREBEN AMERICAS CORP	18,000	18,000	18,000	18,000	18,000	18,000
2661	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115323	PEP BAE EnPrnc -Tullet Preben	Contract	Not assigned	127,401	200,370	147,347	162,350	248,500	
2662	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115325	PEP BAE EnPrnc -Zema Suite	Contract	ZEPowerGROUP INC	11,833		12,553		41,417	
2663	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115326	PEP BAE EnPrnc -IBM ILZ	Contract	IBM CORPORATION	5,025	5,151				
2664	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115327	PEP BAE EnPrnc -TFS Energy	Other	TFS ENERGY UTILITIES LLC	8,400	8,400				
2665	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115327	PEP BAE EnPrnc -TFS Energy	Other	TULLETT PREBEN AMERICAS CORP			8,400	8,400	8,400	8,400
2666	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115328	PEP BAE EnPrnc -FrontLine Systems	Contract	ZONES CORPORATE SOLUTIONS	1,289	1,289				
2667	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115328	PEP BAE EnPrnc -FrontLine Systems	Other	Not assigned	4					
2668	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115329	PEP BAE EnPrnc -FrontLine Systems	Contract	ZONES CORPORATE SOLUTIONS	0					
2669	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8115329	PEP BAE EnPrnc -OATI	Contract	OPEN ACCESS TECHNOLOGY	16,001	17,818	17,251	19,106	18,174	19,096
2670	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8120320	PEP BAE EnPrnc -Amerex Data Feeds	Other	AMEREX BROKERS LLC	31,200	31,200	31,200	31,200	31,200	31,200
2671	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8120886	PEP BAE EnPrnc -FICO Express Opt	Contract	FAIR ISAC CORPORATION	44,348	59,642	61,007	26,718		
2672	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8120886	PEP BAE EnPrnc -FICO Express Opt	Contract	Not assigned						
2673	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8120886	PEP BAE EnPrnc -FICO Express Opt	Other	FAIR ISAC CORPORATION	(887)	(1,193)	(897)			
2674	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8120886	PEP BAE EnPrnc -FICO Express Opt	Other	Not assigned	887	1,193	897			
2675	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8120886	PEP BAE EnPrnc -FICO Express Opt	Contract	PATTERSON RECOGNITION TECHNOLOGIES	85,131	42,691			35,433	38,849
2676	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8120888	PEP BAE EnPrnc -Genesys Alphanumeric	Contract	GENESCAPE INC	36,500	38,250	39,000			
2677	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8120889	PEP BAE EnPrnc -eDimensions B2BAdapter	Contract	ENDIMENSIONS LLC	69,051	71,468				
2678	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8120889	PEP BAE EnPrnc -eDimensions B2BAdapter	Contract	Not assigned						
2679	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8120889	PEP BAE EnPrnc -eDimensions B2BAdapter	Other	ENDIMENSIONS LLC	(1,381)	(1,429)				
2680	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8120889	PEP BAE EnPrnc -eDimensions B2BAdapter	Other	Not assigned	1,381	1,429				
2681	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8139782	PEP BAE EnPrnc -Ventyx Gen Mgmt	Contract	ABB ENTERPRISE SOFTWARE INC	50,000	50,000	50,000			
2682	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8145437	PEP BAE EnPrnc -Openlink Endur	Contract	CUBE LOGIC LLC	82,637	82,637				
2683	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8145437	PEP BAE EnPrnc -Openlink Endur	Contract	Not assigned	853,949	829,102	955,710	1,057,764	1,129,014	1,143,099
2684	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8145437	PEP BAE EnPrnc -Openlink Endur	Contract	OLIF HOLDINGS		77,467				
2685	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8145437	PEP BAE EnPrnc -Openlink Endur	Other	CUBE LOGIC LLC	(1,635)	(781)				
2686	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8145437	PEP BAE EnPrnc -Openlink Endur	Other	Not assigned						
2687	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8145577	PEP BAE EnPrnc -Ventyx Gridview	Contract	ABB ENTERPRISE SOFTWARE INC	71,259	86,648		75,195	75,195	75,195
2688	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150245	PEP BAE EnPrnc -Energy Exemplar	Contract	ENERGY EXEMPLAR LLC	0		30,917			
2689	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150246	PEP BAE EnPrnc -Energy Exemplar	Contract	Not assigned	463,103	476,897	391,156	340,083	443,850	443,850
2690	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150246	PEP BAE EnPrnc -Ventyx Service Suite	Contract	ABB ENTERPRISE SOFTWARE INC		2,500				
2691	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150246	PEP BAE EnPrnc -Ventyx Service Suite	Contract	Not assigned	145,323	135,047				
2692	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150982	PEP BAE EnPrnc -ADRM	Contract	ADRM SOFTWARE INC	45,000	11,250				
2693	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150982	PEP BAE EnPrnc -ADRM	Other	ADRM SOFTWARE INC		(675)				
2694	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150982	PEP BAE EnPrnc -ADRM	Other	Not assigned	675					
2695	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150983	PEP BAE EnPrnc -Zones Infrastig	Contract	SHI INTERNATIONAL CORP	12,236	9,898	9,800	11,996	11,996	9,724
2696	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150983	PEP BAE EnPrnc -Zones Infrastig	Contract	WORLD WIDE TECHNOLOGY LLC						12,281
2697	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150983	PEP BAE EnPrnc -Zones Infrastig	Contract	ZONES CORPORATE SOLUTIONS					5,137	
2698	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150983	PEP BAE EnPrnc -Zones Infrastig	Other	Not assigned	245			25	30	
2699	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235516	PEP - E&G Energy Procurement Contract	8150983	PEP BAE EnPrnc -Zones Infrastig	Other	SH						

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
2732	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8178444	PEP BAES EnProc - EPIS Auroraexp	Other	EPIS LLC		1,900	1,900			
2733	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8181779	PEP BAES EnProc - Active State Active	Contract	ZONES CORPORATE SOLUTIONS		11,982	3,917	9,628	9,628	
2734	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8181779	PEP BAES EnProc - Active State Active	Contract	ZONES LLC			6,715			
2735	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8181779	PEP BAES EnProc - Active State Active	Labor/ External	THE ACT GROUP INC	413					
2736	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8181779	PEP BAES EnProc - Active State Active	Labor/ Internal	Not assigned		2,154				
2737	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8181779	PEP BAES EnProc - Active State Active	Other	Not assigned		30				
2738	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8181779	PEP BAES EnProc - Active State Active	Other	THE ACT GROUP INC	(8)					
2739	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8181779	PEP BAES EnProc - Active State Active	Contract	ZONES CORPORATE SOLUTIONS			(24)			
2740	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8181779	PEP BAES EnProc - Active State Active	Other	ZONES LLC			(17)			
2741	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182206	PEP BAES EnProc - Zema Curve	Contract	Not assigned		27,827	83,480			
2742	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182206	PEP BAES EnProc - Zema Curve	Contract	THE ACT GROUP INC		91,733				
2743	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182208	PEP ES EnProc - Alstom Grid/GE Renewable	Contract	ALSTOM GRID LLC		21,079	36,135	37,581	37,581	
2744	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182208	PEP ES EnProc - Alstom Grid/GE Renewable	Contract	GE RENEWABLES GRID LLC						3,648
2745	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182208	PEP ES EnProc - Alstom Grid/GE Renewable	Contract	Not assigned						18,240
2746	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182208	PEP ES EnProc - Alstom Grid/GE Renewable	Contract	ALSTOM GRID LLC		(422)	422			
2747	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182320	PEP BAES EnProc - Zones Telerik	Contract	SHI INTERNATIONAL CORP				1,882	2,081	
2748	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182320	PEP BAES EnProc - Zones Telerik	Contract	ZONES CORPORATE SOLUTIONS		2,501	1,919	1,919		
2749	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182320	PEP BAES EnProc - Zones Telerik	Other	SHI INTERNATIONAL CORP					(5)	(5)
2750	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182320	PEP BAES EnProc - Zones Telerik	Contract	ZONES CORPORATE SOLUTIONS	(6)	(5)	(5)	(5)		
2751	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182462	PEP BAES EnProc - Cloud9 Tech	Contract	CLOUD9 TECHNOLOGIES LLC		31,500				
2752	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182462	PEP BAES EnProc - Cloud9 Tech	Labor/ Internal	Not assigned				952		
2753	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8182462	PEP BAES EnProc - Cloud9 Tech	Other	CLOUD9 TECHNOLOGIES LLC			(878)			
2754	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8184519	PEP BAES EnProc - PRT NEFT LT	Other	Not assigned		878				
2755	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8184519	PEP BAES EnProc - PRT NEFT LT	Contract	PATTERN RECOGNITION TECHNOLOGIES		18,000		18,000		
2756	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180386	BT Energy Supply - VanDyke VShell	Contract	SHI INTERNATIONAL CORP					1,193	
2757	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180386	BT Energy Supply - VanDyke VShell	Contract	ZONES CORPORATE SOLUTIONS				1,213		
2758	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180386	BT Energy Supply - VanDyke VShell	Other	Not assigned				3		
2759	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180386	BT Energy Supply - VanDyke VShell	Other	SHI INTERNATIONAL CORP					(3)	
2760	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180386	BT Energy Supply - VanDyke VShell	Contract	ZONES CORPORATE SOLUTIONS				(8)		
2761	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180606	PEP BAES EnProc - Cubologic Cube Intgrc	Contract	CUBE LOGIC LLC					85,292	88,701
2762	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180606	PEP BAES EnProc - Cubologic Cube Intgrc	Contract	Not assigned				88,190		
2763	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180345	Correct 2016 FEREC Act 8115913-5490 Old	Contract	Not assigned		(86,625)				
2764	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180345	Correct 2016 FEREC Act 8115913-5570 New	Contract	Not assigned						
2765	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180355	Correct 2016 FEREC Act 8169077-5490 Old	Contract	Not assigned		(9,554)				
2766	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180358	Correct 2016 FEREC Act 8169077-5570 New	Contract	Not assigned		9,554				
2767	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180357	Correct 2016 FEREC Act 8169141-5490 Old	Contract	Not assigned		(42,500)				
2768	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180358	Correct 2016 FEREC Act 8169141-5570 New	Contract	Not assigned		42,500				
2769	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180358	Correct 2016 FEREC Act 8169396-5490 Old	Contract	Not assigned		(50,000)				
2770	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180380	Correct 2016 FEREC Act 8169396-5570 New	Contract	Not assigned		50,000				
2771	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180380	Correct 2016 FEREC Act 8169396-5570 New	Contract	Not assigned						
2772	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180382	Correct 2016 FEREC Act 8169818-9039 Old	Contract	Not assigned		(145,350)				
2773	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180383	Correct 2016 FEREC Act 8169819-5570 New	Contract	Not assigned		129,787				
2774	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180384	Correct 2016 FEREC Act 8169819-9039 Old	Contract	Not assigned		(129,787)				
2775	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180385	Correct 2016 FEREC Act 8169820-5570 New	Contract	Not assigned		70,471				
2776	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180386	Correct 2016 FEREC Act 8169820-9039 Old	Contract	Not assigned		(70,471)				
2777	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180117	IT - FEREC Act 5235518-5240	Contract	Not assigned			(11,843)			
2778	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180117	IT - FEREC Act 5235518-5490	Contract	Not assigned			(168,700)			
2779	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180108	IT - FEREC Act 9021017/9021018	Contract	Not assigned		180,543				
2780	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180338	Correct FEREC Account - IT (From)	Contract	Not assigned				(5,193)		
2781	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180338	Correct FEREC Account - IT (From)	Other	Not assigned				3		
2782	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180340	Correct FEREC Account - IT (To)	Contract	Not assigned				1,193		
2783	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Energy Procurement Contract	8180340	Correct FEREC Account - IT (To)	Other	Not assigned						
2784	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115345	PEP BAES Gas Dist - eSignal	Contract	ICE DATA SERVICES INC		6,612				
2785	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115345	PEP BAES Gas Dist - eSignal	Other	ICE DATA SERVICES INC		(132)				
2786	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115345	PEP BAES Gas Dist - eSignal	Contract	Not assigned						
2787	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115350	PEP BAES Gas Dist - Autodesk	Contract	Not assigned	173,870	136,287	163,200	146,772	134,541	147,008
2788	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115350	PEP BAES Gas Dist - Autodesk	Contract	US CAD HOLDINGS LLC					12,231	
2789	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115351	PEP BAES Gas Dist - The John Webster Co	Contract	THE JOHN WEBSTER COMPANY		48,750	19,700			
2790	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115351	PEP BAES Gas Dist - The John Webster Co	Other	Not assigned		1,525	546			
2791	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115351	PEP BAES Gas Dist - The John Webster Co	Other	THE JOHN WEBSTER COMPANY		(1,665)	(546)			
2792	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115353	PEP BAES Gas Dist - Southern Cross	Contract	SOUTHERN CROSS CORP			215,060			
2793	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115353	PEP BAES Gas Dist - Southern Cross	Labor/ External	Not assigned	177,773	405,417				
2794	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115353	PEP BAES Gas Dist - Southern Cross	Contract	SOUTHERN CROSS CORP		89,931	83,648			
2795	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115356	PEP BAES Gas Dist - Actuate Software	Contract	OPEN TEXT INC			82,606			
2796	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115356	PEP BAES Gas Dist - Actuate Software	Contract	ZONES CORPORATE SOLUTIONS		82,663				
2797	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115356	PEP BAES Gas Dist - Actuate Software	Other	Not assigned		207				
2798	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115356	PEP BAES Gas Dist - Actuate Software	Other	ZONES CORPORATE SOLUTIONS		(207)				
2799	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115358	PEP BAES Gas Dist - Platts	Contract	S&P GLOBAL INC		31,250	35,000			
2800	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115358	PEP BAES Gas Dist - Platts	Other	Not assigned						
2801	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115424	PEP BAES Gas Dist - Kepware Adv Tags	Contract	SHI INTERNATIONAL CORP					1,353	
2802	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8115424	PEP BAES Gas Dist - Kepware Adv Tags	Other	SHI INTERNATIONAL CORP					(3)	
2803	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8189687	BT Gas - Bentley GD Contract	Contract	BENTLEY SYSTEMS INCORPORATED			25,600			
2804	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8189687	BT Gas - Bentley GD Contract	Other	BENTLEY SYSTEMS INCORPORATED			(512)			
2805	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8180639	PEP BAES Gas Dist - ICE Data	Contract	ICE DATA LP		37,400	57,657	30,250	3,375	
2806	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8180639	PEP BAES Gas Dist - ICE Data	Contract	ICE DATA SERVICES INC		26,160	(1,061)			
2807	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8180639	PEP BAES Gas Dist - ICE Data	Other	ICE DATA LP				39,730	41,100	
2808	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8180639	PEP BAES Gas Dist - ICE Data	Other	ICE DATA SERVICES INC						
2809	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8180639	PEP BAES Gas Dist - ICE Data	Other	Not assigned						
2810	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8177861	PEP BAES Gas Dist - Schlumberger Tech	Contract	SCHLUMBERGER TECHNOLOGY CORPORATION			16,026	16,026	17,679	18,149
2811	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8177861	PEP BAES Gas Dist - Schlumberger Tech	Other	Not assigned				321		
2812	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8177861	PEP BAES Gas Dist - Schlumberger Tech	Other	SCHLUMBERGER TECHNOLOGY CORPORATION			(121)	321		
2813	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8178531	PEP BAES Gas Dist - Bit Slew Grid	Contract	Not assigned		177,606				
2814	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8178531	PEP BAES Gas Dist - IRTH Solutions	Contract	IRTH SOLUTIONS INC		52,170				
2815	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8180757	PEP BAES Gas Dist - IRTH Solutions	Contract	Not assigned			313,019	662,672		
2816	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8180757	PEP BAES Gas Dist - IRTH Solutions	Labor/ External	Not assigned			353,192	288,963		
2817	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP - ES&EG Gas Distribution Contracts	8181681	PEP BAES Gas Dist - Aviom	Contract	AXIOM SERVICES INC				3,306		
2818	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235518	PEP										

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
2846	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2027947	I/O Infra Ops- Wintel Server Contracts	Contract	ZONES CORPORATE SOLUTIONS	13,686	12,474	5,753	8,458		
2847	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2027947	I/O Infra Ops- Wintel Server Contracts	Other	Not assigned	34	31	14	14		
2848	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2027947	I/O Infra Ops- Wintel Server Contracts	Other	ZONES CORPORATE SOLUTIONS	(34)	(31)	(14)	(14)		
2849	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2027950	I/O Infra Ops- Wintel Server Solutions	Contract	INSTR SOLUTIONS INC	24,875					
2850	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2027950	I/O Infra Ops- Infonet Solutions	Other	SHI INTERNATIONAL CORP		23,122	22,414	22,414		
2851	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2027950	I/O Infra Ops- Infonet Solutions	Other	Not assigned		462	56			
2852	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2027950	I/O Infra Ops- Infonet Solutions	Other	SHI INTERNATIONAL CORP				(56)		
2853	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2021824	I/O Infra Ops- Linux Contracts	Contract	INTEGRATED ARCHIVE SYSTEMS	0					
2854	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2021825	I/O Infra Ops- Linux Contracts	Contract	MICRO FOCUS SOFTWARE INC		22,935	22,935	(22,935)		
2855	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2021825	I/O Infra Ops- Linux Contracts	Contract	Not assigned	1,352,908	1,425,087	1,425,087	1,511,012	0	
2856	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2021824	I/O Infra Ops- Linux Contracts	Contract	SHI INTERNATIONAL CORP		6,388		117,823		
2857	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2021825	I/O Infra Ops- Linux Contracts	Contract	ZONES CORPORATE SOLUTIONS						
2858	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	2021825	I/O Infra Ops- Linux Contracts	Other	SHI INTERNATIONAL CORP				(187)		
2859	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115174	I/O Infra Ops- SecurCRT	Contract	ZONES CORPORATE SOLUTIONS		2,496				
2860	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115174	I/O Infra Ops- SecurCRT	Other	Not assigned		6				
2861	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115174	I/O Infra Ops- SecurCRT	Other	ZONES CORPORATE SOLUTIONS	(6)					
2862	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115175	I/O Infra Ops- Mullan Consulting	Labor External	MULLAN CONSULTING LLC				179,000		
2863	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115203	I/O Infra Ops- Embarcador Tech Inc	Contract	Not assigned		4,767,830				
2864	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115213	I/O Infra Ops- Perf Engineering - HP Dia	Contract	Not assigned	66,808					
2865	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115213	I/O Infra Ops- Perf Engineering - HP Dia	Other	Not assigned			(1)			
2866	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115217	I/O Infra Ops- Perf Engineering - HTTPW	Contract	ZONES CORPORATE SOLUTIONS	4,585					
2867	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115217	I/O Infra Ops- Perf Engineering - HTTPW	Other	Not assigned		12				
2868	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115217	I/O Infra Ops- Perf Engineering - HTTPW	Other	ZONES CORPORATE SOLUTIONS		(12)				
2869	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115218	I/O Infra Ops- Oracle CrystalBall	Other	Not assigned	3					
2870	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115218	I/O Infra Ops- Oracle CrystalBall	Other	ZONES CORPORATE SOLUTIONS	(3)					
2871	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115219	I/O Infra Ops- Oracle OC4J Maint.	Labor External	289,784		16,969				
2872	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115219	I/O Infra Ops- Oracle OC4J Maint.	Labor External	ORACLE AMERICA INC		90,801				
2873	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115219	I/O Infra Ops- Oracle OC4J Maint.	Other	Not assigned		938,139				
2874	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115219	I/O Infra Ops- Oracle App Maint	Contract	Not assigned	5,564,749					
2875	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115253	I/O Infra Ops- Sybase	Contract	SYBASE INC	31,554					
2876	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115403	I/O Infra Ops- Effective Tech	Contract	EFFECTIVE TECHNOLOGIES INC	5,625					
2877	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115404	I/O Infra Ops- HP DDM maint for BSM Pro	Contract	HP INC	83,700					
2878	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115404	I/O Infra Ops- HP DDM maint for BSM Pro	Contract	Not assigned						
2879	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115405	I/O Infra Ops- Kinetic Data	Contract	KINETIC DATA INC	14,000					
2880	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115405	I/O Infra Ops- Kinetic Data	Other	KINETIC DATA INC	(280)					
2881	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115405	I/O Infra Ops- Kinetic Data	Other	Not assigned	286					
2882	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115406	I/O Infra Ops- xMatters ITM Base	Contract	XMATTERS INC	44,352					
2883	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115406	I/O Infra Ops- xMatters ITM Base	Other	Not assigned	887					
2884	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115406	I/O Infra Ops- xMatters ITM Base	Other	XMATTERS INC	(887)					
2885	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115406	I/O Infra Ops- xMatters ITM Maint	Contract	Not assigned		1,216,374				
2886	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115420	I/O Infra Ops- SSN HCM Maint.	Other	Not assigned		(6)				
2887	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115422	I/O Infra Ops- HP SAID	Contract	HEWLETT PACKARD ENTERPRISE		43,200				
2888	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115422	I/O Infra Ops- HP SAID	Contract	HP INC	43,200	43,200				
2889	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8115422	I/O Infra Ops- HP SAID	Other	Not assigned		(43,200)				
2890	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8148600	I/O Infra Ops- Oracle Database Gateway	Contract	ORACLE AMERICA INC	-					
2891	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8153217	I/O Infra Ops-HP Perf Center Remote Access	Contract	HP INC	8,485					
2892	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8156913	I/O Infra Ops- Oracle Connectivity Activation	Contract	ORACLE AMERICA INC	40,047					
2893	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8159936	I/O Infra Ops- Oracle SPL (Custom)	Labor External	Not assigned	2,004,625	1,193,558				
2894	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8160818	I/O Infra Ops- HP Premier Support	Contract	HP INC	40,950					
2895	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8160818	I/O Infra Ops- HP Premier Support	Contract	Not assigned	122,850					
2896	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8170312	I/O Infra Ops- IBM - Vault Maint	Contract	Not assigned	1,103,667					
2897	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8181177	I/O Infra Ops- SSN OCP Contract Hosting	Labor External	ITRON NETWORKED SOLUTIONS INC		73,110	182,815			
2898	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	8182730	I/O Infra Ops- Oracle Cloud Tech	Contract	Not assigned		83,333	916,663			
2899	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	9081042	IT - FERC Act 5235524	Contract	Not assigned		(5,821,049)				
2900	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5235524	I&O Infrastructure Operation - Contracts	9081042	IT - FERC Act 9031042	Contract	Not assigned		5,821,034				
2901	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8164574	IT Contracts - Cash Disbursements	Other	Not assigned	(1,134,571)	(854,521)	(3,416,459)	(599,445)	(268,136)	(116,993)
2902	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8166239	IT Contracts - LCD Settlement (Spectrum)	Contract	PG&E						
2903	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8170423	I/O Contracts - World Wide Technology LLC	Labor External	WORLD WIDE TECHNOLOGY LLC	(262,045)					
2904	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8170424	I/O Contracts - WWT	Other	WORLD WIDE TECHNOLOGY LLC	(118,414)					
2905	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8174378	I/O Contracts - AT&T Wireline	Other	AT&T	(56,902)					
2906	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8175901	I/O Contracts - Tata America	Labor External	TATAAMERICAN INTERNATIONAL CORP	(45,465)					
2907	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8175901	I/O Contracts - Tata America	Contract	ZONES CORPORATE SOLUTIONS		(5,277)				
2908	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8179571	I/O Contracts - Standard Register Refund	Contract	STANDARD REGISTER CO		(26,835)				
2909	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8180037	I/O Contracts General - Curvature	Contract	CURVATURE INC			(124,387)			
2910	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8180037	I/O Contracts General - Curvature	Contract	Not assigned						
2911	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8180696	I/O Contracts - Tata Consulting Refund	Contract	TATA AMERICA INTERNATIONAL CORP		(61,550)				
2912	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8180697	I/O Contracts - Infosys Refund	Contract	INFOSYS LTD		(171,774)				
2913	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8189479	IT Contracts - Residuals, Bal's & Acts	Contract	Not assigned		56,735			(4,366)	
2914	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8189479	IT Contracts - Residuals, Bal's & Acts	Labor External	Not assigned		15,502				
2915	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5242793	IT Contracts General	8189479	IT Contracts - Residuals, Bal's & Acts	Other	Not assigned			4,250	3,897	896	
2916	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	2031338	I/O Infra Ops- Hydro SCADA Contracts	Contract	Not assigned	273,478	304,504	304,502	466,470	1,689	-
2917	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	2031338	I/O Infra Ops- Hydro SCADA Contracts	Contract	OPEN SYSTEMS INTERNATIONAL INC	24,862			76,125		
2918	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	2031338	I/O Infra Ops- Hydro SCADA Contracts	Contract	WORLD WIDE TECHNOLOGY LLC				119,047	9,660	
2919	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	2031338	I/O Infra Ops- Hydro SCADA Contracts	Other	D&O CRAWFORD INC			(77)			
2920	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	2031338	I/O Infra Ops- Hydro SCADA Contracts	Other	Not assigned			77			
2921	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	2031338	I/O Infra Ops- Hydro SCADA Contracts	Other	WORLD WIDE TECHNOLOGY LLC					(24)	
2922	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	2044345	I/O Solutions Del - Puppet	Contract	WORLD WIDE TECHNOLOGY LLC	9,975					
2923	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	2044345	I/O Solutions Del - Puppet	Other	Not assigned	25					
2924	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	2044345	I/O Solutions Del - Puppet	Other	WORLD WIDE TECHNOLOGY LLC	(25)					
2925	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	8183398	I/O Sol Del - Puppet	Contract	WORLD WIDE TECHNOLOGY LLC			11,822			
2926	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	8183398	I/O Sol Del - Puppet	Labor Internal	Not assigned				196		
2927	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	8183398	I/O Sol Del - Puppet	Other	Not assigned		30				
2928	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5244474	I&O Solutions Delivery - Contracts	8183398	I/O Sol Del - Puppet	Other	WORLD WIDE TECHNOLOGY LLC	(30)					
2929	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5245815	PEP Grid Sys & SM Ops SMOOC Contracts	2027945	AS Ops & CC SMOOC - Sungard	Contract	ASSURANCE SOFTWARE INC			72,000			
2930	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5245815	PEP Grid Sys & SM Ops SMOOC Contracts	2027945	AS Ops & CC SMOOC - Sungard	Contract	SUNGARD AVAILABILITY SERVICES LP	54,000	72,000	72,000			
2931	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5245815	PEP Grid Sys & SM Ops SMOOC Contracts	2027945	AS Ops & CC SMOOC - Sungard	Other	ASSURANCE SOFTWARE INC				(1,440)		
2932	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5245815	PEP Grid Sys & SM Ops SMOOC Contracts	2027945	AS Ops & CC SMOOC - Sungard	Other	Not assigned	1,080	1,440	1,440	1,440	(360)	
2933	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5245815	PEP Grid Sys & SM Ops SMOOC Contracts	2027945	AS Ops & CC SMOOC - Sungard	Other	SUNGARD AVAILABILITY SERVICES LP	(1,080)	(1,440)	(1,440)			
2934	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5245815	PEP Grid Sys & SM Ops SMOOC Contracts	70016743	AS Ops & CC SMOOC - SM SSN Envrn Hgts	Contract	ITRON NETWORKED SOLUTIONS INC	28,875	2,860,665	2,349,361	2,463,413	707,128	
2935	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5245815	PEP Grid Sys & SM Ops SMOOC Contracts	70016743	AS Ops & CC SMOOC - SSN OCP	Contract	OPEN SYSTEMS INTERNATIONAL INC	1,351,527		1,642,736		1,271,648	
2936	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5245815											

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
2960	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8141974	PEP BAES DCCP - Trivantis Corp	Contract	ELEANRING BROTHERS CUSTOM						3,333
2961	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8141974	PEP BAES DCCP - Trivantis Corp	Contract	SHI INTERNATIONAL CORP	3,510	3,510	3,510	3,582	3,405	
2962	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8141974	PEP BAES DCCP - Trivantis Corp	Other	Not assigned	70			8		
2963	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8141974	PEP BAES DCCP - Trivantis Corp	Other	SHI INTERNATIONAL CORP	(70)	(70)		(8)		
2964	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8142702	PEP BAES DCCP - Aviom	Contract	ANIXOM SERVICES INC		3,013	3,013	3,013	3,013	3,013
2965	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8143721	PEP BAES DCCP - Workforce Software	Contract	Not assigned	115,447	115,447	113,648	112,210	112,210	112,210
2966	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8143721	PEP BAES DCCP - Workforce Software	Other	Not assigned			(720)			
2967	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8143722	PEP BAES DCCP - Zones SQL Bundle	Contract	SHI INTERNATIONAL CORP	835					
2968	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8143722	PEP BAES DCCP - Zones SQL Bundle	Other	Not assigned	17					
2969	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8143722	PEP BAES DCCP - Zones SQL Bundle	Other	SHI INTERNATIONAL CORP	(17)	17				
2970	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8143723	PEP BAES DCCP - ES Acquia	Contract	ES ACQUIA INC	28,820	28,820	20,185	20,185	20,185	24,385
2971	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8146800	PEP BAES DCCP - Redgate Data	Contract	ZONES CORPORATE SOLUTIONS		291				
2972	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8146800	PEP BAES DCCP - Redgate Data	Other	ZONES CORPORATE SOLUTIONS (1)						
2973	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8147917	PEP BAES DCCP - Pipeline Inc	Contract	PIPELINE SOFTWARE LLC	24,327	24,566	25,229	25,229	25,229	
2974	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8147918	PEP BAES DCCP - Inmet Kev (RS)	Contract	ABB ENTERPRISE SOFTWARE INC	43,298	43,662	35,198	35,546		
2975	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8147919	PEP BAES DCCP - Redgate Schema	Contract	ZONES CORPORATE SOLUTIONS	582	460	842	778	922	968
2976	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8147919	PEP BAES DCCP - Redgate Schema	Other	Not assigned	1	1	2			
2977	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8147919	PEP BAES DCCP - Redgate Schema	Other	ZONES CORPORATE SOLUTIONS (2)	(1)	(1)	(2)			
2978	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8148444	PEP BAES DCCP - Page Tech	Contract	SHI INTERNATIONAL CORP						1,225
2979	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8148444	PEP BAES DCCP - Page Tech	Contract	ZONES CORPORATE SOLUTIONS	1,546	1,546	1,237	1,237	1,237	
2980	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8148444	PEP BAES DCCP - Page Tech	Other	Not assigned	3					
2981	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8148444	PEP BAES DCCP - Page Tech	Other	SHI INTERNATIONAL CORP						(3)
2982	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8148444	PEP BAES DCCP - Page Tech	Other	ZONES CORPORATE SOLUTIONS			(3)			
2983	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8148722	PEP BAES DCCP - Scientech	Contract	SCIENTECH	25,955	26,852	28,852		40,000	40,000
2984	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8148722	PEP BAES DCCP - Scientech	Other	Not assigned	519	537	577			
2985	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8148722	PEP BAES DCCP - Scientech	Other	(519)	(519)	(537)	(577)			
2986	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8150428	PEP BAES DCCP - Zones Allround	Contract	SHI INTERNATIONAL CORP						307
2987	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8150428	PEP BAES DCCP - Zones Allround	Contract	ZONES CORPORATE SOLUTIONS	376	376	309	309	309	
2988	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8150428	PEP BAES DCCP - Zones Allround	Other	Not assigned	1		1			
2989	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8150428	PEP BAES DCCP - Zones Allround	Other	SHI INTERNATIONAL CORP						(1)
2990	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8150428	PEP BAES DCCP - Zones Allround	Other	ZONES CORPORATE SOLUTIONS	(1)		(1)			
2991	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8159818	PEP BAES DCCP - Knowledge Relay	Contract	KNOWLEDGE RELAY LLC		17,600	18,678	18,678	18,678	19,238
2992	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8159818	PEP BAES DCCP - Knowledge Relay	Other	KNOWLEDGE RELAY LLC						(185)
2993	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8159818	PEP BAES DCCP - Knowledge Relay	Other	Not assigned	311	374	375			
2994	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8160638	PEP BAES DCCP - Ventyx eSoms	Contract	ABB ENTERPRISE SOFTWARE INC	21,892	22,330	37,255	79,092	80,523	81,320
2995	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8160638	PEP BAES DCCP - Ventyx eSoms	Contract	SHI INTERNATIONAL CORP	1,631	1,631	2,039	2,039	2,039	
2996	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8166567	PEP BAES DCCP - Zones Aspose PDF	Other	Not assigned	5	5	5			
2997	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8166567	PEP BAES DCCP - Zones Aspose PDF	Other	(5)	(5)	(5)	(5)			(5)
2998	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8166568	PEP BAES DCCP - Federal Signal	Contract	FEDERAL SIGNAL CORPORATION	2,960	2,960	3,108	3,108	3,108	2,200
2999	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8166568	PEP BAES DCCP - Federal Signal	Contract	SHI INTERNATIONAL CORP						8,682
3000	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8169077	PEP BAES DCCP - Zones PDF Tron	Contract	ZONES CORPORATE SOLUTIONS	9,554	5,501	7,576	7,955	8,353	
3001	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8169077	PEP BAES DCCP - Zones PDF Tron	Other	Not assigned	24					
3002	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8169077	PEP BAES DCCP - Zones PDF Tron	Other	SHI INTERNATIONAL CORP						(22)
3003	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8169077	PEP BAES DCCP - Zones PDF Tron	Other	(24)	(24)	(19)		(21)		
3004	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8171896	PEP BAES DCCP - Navcon Engineering	Contract	NAVCON ENGINEERING NETWORK	1,723	1,723				
3005	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8171896	PEP BAES DCCP - Navcon Engineering	Contract	Not assigned	48,916					
3006	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8171896	PEP BAES DCCP - Navcon Engineering	Other	(48,916)						
3007	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8177681	PEP BAES DCCP - Zones Jet Brains	Contract	SHI INTERNATIONAL CORP						1,746
3008	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8177681	PEP BAES DCCP - Zones Jet Brains	Contract	ZONES CORPORATE SOLUTIONS		2,229	1,762	1,650	1,662	
3009	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8177681	PEP BAES DCCP - Zones Jet Brains	Other	Not assigned	4					
3010	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8177681	PEP BAES DCCP - Zones Jet Brains	Other	SHI INTERNATIONAL CORP						(6)
3011	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8177681	PEP BAES DCCP - Zones Jet Brains	Other	ZONES CORPORATE SOLUTIONS	(4)					
3012	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8181337	PEP BAES DCCP - Zones Idera SQL Diag	Contract	SHI INTERNATIONAL CORP					3,465	3,799
3013	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8181337	PEP BAES DCCP - Zones Idera SQL Diag	Contract	ZONES CORPORATE SOLUTIONS		2,878	3,093	3,466		
3014	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8181337	PEP BAES DCCP - Zones Idera SQL Diag	Contract	SHI INTERNATIONAL CORP						
3015	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8181337	PEP BAES DCCP - Zones Idera SQL Diag	Other	Not assigned						(10)
3016	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8181337	PEP BAES DCCP - Zones Idera SQL Diag	Other	ZONES CORPORATE SOLUTIONS	(7)	(8)	(9)			
3017	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8182326	PEP BAES DCCP - Zones Embarcadero DBA	Contract	SHI INTERNATIONAL CORP					1,324	4,620
3018	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8182326	PEP BAES DCCP - Zones Embarcadero DBA	Contract	ZONES CORPORATE SOLUTIONS		4,135	4,302	4,475		
3019	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8182326	PEP BAES DCCP - Zones Embarcadero DBA	Other	Not assigned	10					
3020	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8182326	PEP BAES DCCP - Zones Embarcadero DBA	Other	SHI INTERNATIONAL CORP				(3)	(12)	
3021	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8185702	PEP BAES DCCP - Zones RedgateToolbelt	Contract	SHI INTERNATIONAL CORP				(10)		
3022	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8185702	PEP BAES DCCP - Zones RedgateToolbelt	Contract	ZONES CORPORATE SOLUTIONS					5,441	6,015
3023	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8185702	PEP BAES DCCP - Zones RedgateToolbelt	Contract	ZONES CORPORATE SOLUTIONS			5,334	6,122		
3024	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8185702	PEP BAES DCCP - Zones RedgateToolbelt	Other	Not assigned	14					
3025	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8185702	PEP BAES DCCP - Zones RedgateToolbelt	Other	SHI INTERNATIONAL CORP					(14)	(15)
3026	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8185702	PEP BAES DCCP - Zones RedgateToolbelt	Other	ZONES CORPORATE SOLUTIONS			(14)	(15)		
3027	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8188197	PEP BAES DCCP - Zasio	Contract	ZASO ENTERPRISES INC						1,195
3028	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8188197	PEP BAES DCCP - Zasio	Contract	ZONES CORPORATE SOLUTIONS		1,129			1,180	
3029	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8188197	PEP BAES DCCP - Zasio	Other	ZONES CORPORATE SOLUTIONS					(3)	
3030	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5251334	PEP - ES&G DCCP Contracts	8181916	PEP BAES DCCP - SKF	Contract	SKF USA INC			(3,210)			
3031	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	70038001	AIS Ops & CC - AIAM - Software AG Affab	Contract	Not assigned			99,647		132,863	132,863
3032	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	70038001	AIS Ops & CC - AIAM - Software AG Affab	Contract	SOFTWARE AG USA INC					71,200	31,507
3033	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	70038001	AIS Ops & CC - AIAM - Software AG Affab	Other	SOFTWARE AG USA INC					(1,424)	(1,650)
3034	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	8115407	AIS Ops & CC - AIAM - SHI Mongo	Contract	SHI INTERNATIONAL CORP			22,700	48,756	48,756	48,756
3035	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	8115407	AIS Ops & CC - AIAM - SHI Mongo	Materials	Not assigned		324				
3036	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	8115407	AIS Ops & CC - AIAM - SHI Mongo	Other	SHI INTERNATIONAL CORP		32,372				
3037	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	8115407	AIS Ops & CC - AIAM - SHI Mongo	Other	Not assigned		2,815	57			
3038	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	8115407	AIS Ops & CC - AIAM - SHI Mongo	Other	SHI INTERNATIONAL CORP						
3039	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	8100081	AIS Ops & CC - AIAM - Atlassian JIRA	Contract	SHI INTERNATIONAL CORP					2,922	2,778
3040	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	8100081	AIS Ops & CC - AIAM - Atlassian JIRA	Contract	ZONES CORPORATE SOLUTIONS		2,944	2,705	2,950		
3041	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	8100081	AIS Ops & CC - AIAM - Atlassian JIRA	Other	Not assigned		7				
3042	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	8100081	AIS Ops & CC - AIAM - Atlassian JIRA	Other	SHI INTERNATIONAL CORP						(2)
3043	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5254252	AIS Asset Management	8100081	A								

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
3074	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	2037687	AIS IS ENS- Synapse	Other	SHI INTERNATIONAL CORP						(24)
3075	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	2037688	AIS IS ENS- Sabah International	Contract	SABAH INTERNATIONAL INC	227	2,163	4,231	1,000	-	-
3076	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	2037688	AIS IS ENS- Sabah International	Labor External	SABAH INTERNATIONAL INC			1,440	1,440	(720)	2,448
3077	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	2037688	AIS IS ENS- Sabah International	Materials	SHI INTERNATIONAL CORP	42	(3)				
3078	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	2037688	AIS IS ENS- Sabah International	Materials	SABAH INTERNATIONAL INC	4,189	(319)				233
3079	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	2037688	AIS IS ENS- Sabah International	Other	Not assigned			268	(21)		17
3080	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	7004300	I&O-ID - Korybety CMS Subscription	Contract	RMG ENTERPRISE SOLUTIONS INC					140,000	70,000
3081	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	7004300	I&O-ID - Korybety CMS Subscription	Labor External	RMG ENTERPRISE SOLUTIONS INC						9,900
3082	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	7004300	I&O-ID - Korybety CMS Subscription	Other	RMG ENTERPRISE SOLUTIONS INC						(1,400)
3083	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8115309	AIS IS ENS- WWIT Cisco SN (WasP Pro)	Contract	Not assigned					86,822	43,411
3084	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8100716	AIS IS ENS- RMG	Contract	Not assigned				32,609		
3085	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8100716	AIS IS ENS- RMG	Contract	RMG ENTERPRISE SOLUTIONS INC			54,869		46,000	52,000
3086	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8100716	AIS IS ENS- RMG	Other	RMG ENTERPRISE SOLUTIONS INC					(920)	
3087	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8100717	AIS IS ENS- WWIT Cisco Cms	Contract	Not assigned				378,342	1,040,441	1,040,441
3088	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8100717	AIS IS ENS- WWIT Cisco Cms	Contract	WORLD WIDE TECHNOLOGY LLC			189,171		94,586	189,171
3089	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8100718	AIS IS ENS- WWIT Cisco SN Upfltr (Data)	Contract	Not assigned			12,764		51,056	51,056
3090	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8100718	AIS IS ENS- WWIT Cisco SN Upfltr (Data)	Contract	WORLD WIDE TECHNOLOGY LLC			21,274			
3091	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8100919	AIS IS ENS- Curvature (White)	Contract	Not assigned				89,997		
3092	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8100919	AIS IS ENS- Curvature (White)	Contract	Not assigned			149,627	591,545	33,425	
3093	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8101057	AIS Ops & CC AM- Megays	Contract	MEGAYS ENTERPRISES LTD			0			
3094	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8101057	AIS Ops & CC AM- Megays	Contract	Not assigned			116,819	0	467,277	470,550
3095	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8101057	AIS Ops & CC AM- Megays	Labor External	MEGAYS ENTERPRISES LTD					2,000	2,000
3096	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8101616	AIS IS ENS- British Telecom	Contract	Not assigned			216,726		216,726	
3097	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8101616	AIS IS ENS- British Telecom	Contract	WORLD WIDE TECHNOLOGY LLC					341,000	
3098	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8101738	AIS IS ENS- Lightriver (Transport)	Contract	LIGHTRIVER TECHNOLOGIES INC					183,175	90,100
3099	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8101738	AIS IS ENS- Lightriver (Transport)	Contract	Not assigned					168,282	328,118
3100	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8101738	AIS IS ENS- Lightriver (Transport)	Other	LIGHTRIVER TECHNOLOGIES INC					(8,154)	(1,802)
3101	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8102588	AIS IS ENS- SD - SH Rackwise (Infonet Solms)	Contract	SHI INTERNATIONAL CORP					22,414	22,413
3102	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8102588	AIS IS ENS- SD - SH Rackwise (Infonet Solms)	Other	SHI INTERNATIONAL CORP					(56)	
3103	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103037	AIS IS ENS- General Electric	Contract	GE MDS LLC						38,700
3104	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103037	AIS IS ENS- General Electric	Other	GE MDS LLC						(111)
3105	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103238	AIS Ops & CC AM- Liveaction SW Support	Contract	WORLD WIDE TECHNOLOGY LLC					56,298	
3106	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103238	AIS Ops & CC AM- Liveaction SW Support	Contract	WORLD WIDE TECHNOLOGY LLC						(14)
3107	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103393	AIS Ops & CC AM- Infoblox Net MIR (Data)	Contract	WORLD WIDE TECHNOLOGY LLC					56,757	53,616
3108	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103393	AIS Ops & CC AM- Infoblox Net MIR (Data)	Other	WORLD WIDE TECHNOLOGY LLC						(134)
3109	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103398	AIS IS ENS- ElectroSonic	Contract	Not assigned					16,800	
3110	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103398	AIS IS ENS- ElectroSonic	Contract	Not assigned					280,979	172,201
3111	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103398	AIS IS ENS- ElectroSonic	Contract	SIGNAL PERFECTION LTD						-
3112	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103398	AIS IS ENS- ElectroSonic	Labor Internal	Not assigned					97	
3113	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103398	AIS IS ENS- Cisco InstantConnect	Contract	Not assigned					32,326	
3114	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103400	AIS IS ENS- Empire (Voice)	Contract	Not assigned					114,311	106,051
3115	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103401	AIS IS ENS- Verint Voice Logger	Contract	Not assigned					289,553	120,647
3116	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103402	AIS IS ENS- Cisco Voice Portal-FwdPlan	Contract	Not assigned					357,797	302,758
3117	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103402	AIS IS ENS- Cisco Voice Portal-FwdPlan	Contract	WORLD WIDE TECHNOLOGY LLC						
3118	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103404	AIS IS ENS- Coriant (Transport)	Contract	Not assigned					96,667	24,167
3119	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103405	AIS IS ENS- RedSwi	Contract	Not assigned					5,529	66,347
3120	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103456	AIS Ops & CC AM- StatSeeker	Contract	STAT SEEKER PVTY LTD						
3121	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8103456	AIS Ops & CC AM- StatSeeker	Contract	TECHNICE HOLDINGS USA INC					14,995	15,220
3122	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8104818	AIS IS ENS- Cisco SN BCS & HTOM	Contract	Not assigned					4,905,246	3,574,691
3123	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8104818	AIS IS ENS- Cisco SN BCS & HTOM	Contract	WORLD WIDE TECHNOLOGY LLC					15,336	165,549
3124	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8104818	AIS IS ENS- Cisco SN BCS & HTOM	Other	WORLD WIDE TECHNOLOGY LLC						(89)
3125	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8104885	ICS ENS- Riverbed Scitril Multi Apps	Contract	Not assigned						45,936
3126	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8104885	ICS ENS- Riverbed Scitril Multi Apps	Contract	WORLD WIDE TECHNOLOGY LLC					116,345	29,851
3127	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8104885	ICS ENS- Riverbed Scitril Multi Apps	Other	WORLD WIDE TECHNOLOGY LLC					(234)	(62)
3128	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105078	AIS IS ENS- Cisco SN HW & Tech Support	Contract	Not assigned					907,380	2,081,982
3129	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105078	AIS IS ENS- Cisco SN HW & Tech Support	Contract	SIGNAL PERFECTION LTD						97,082
3130	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105078	AIS IS ENS- Cisco SN HW & Tech Support	Contract	WORLD WIDE TECHNOLOGY LLC					0	163,264
3131	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105078	AIS IS ENS- Cisco SN HW & Tech Support	Other	Not assigned						
3132	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105078	AIS IS ENS- Cisco SN HW & Tech Support	Materials	WORLD WIDE TECHNOLOGY LLC						36,967
3133	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105078	AIS IS ENS- Cisco SN HW & Tech Support	Other	Not assigned						2,565
3134	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105758	AIS IS ENS- Infoblox DNS/DHCP	Contract	WORLD WIDE TECHNOLOGY LLC					26,492	
3135	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105758	AIS IS ENS- Keyport IGA	Contract	Not assigned						193,451
3136	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105765	AIS IS ENS- Oracle Session Route Mgr	Contract	Not assigned					55,760	55,760
3137	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105858	AIS IS ENS- Cisco SmartNet 2017-2020	Contract	Not assigned					869,104	221,552
3138	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105765	AIS IS ENS- Anyava	Contract	Not assigned						54,393
3139	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8105978	AIS IS ENS- Anyava	Contract	ZONES CORPORATE SOLUTIONS						7,771
3140	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8106677	AIS IS ENS- Nice Systems (Compass)	Contract	NICE SYSTEMS INC						51,500
3141	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8106677	AIS IS ENS- Nice Systems (Compass)	Contract	Not assigned						34,333
3142	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8106980	AIS IS ENS- Eubah	Contract	GRABBA ELECTRIC CO INC					2,620	
3143	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8106980	AIS IS ENS- Eubah	Other	GRABBA ELECTRIC CO INC					(52)	
3144	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8107188	AIS IS ENS- WWIT Cisco Prime	Contract	Not assigned						63,000
3145	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8107358	AIS IS ENS- WWIT Cisco ONE	Contract	Not assigned					44,064	44,064
3146	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8107440	AIS IS ENS- WIA Vision	Contract	WORLD WIDE TECHNOLOGY LLC						35,518
3147	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8107440	AIS IS ENS- WIA Vision	Other	WORLD WIDE TECHNOLOGY LLC						(89)
3148	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8107870	AIS IS ENS- Siemens Rugged NMS	Contract	SIEMENS INDUSTRY INC						7,525
3149	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8200283	AIS IS ENS- Cradpoint	Contract	WORLD WIDE TECHNOLOGY LLC						18,613
3150	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8200616	AIS IS ENS- Advance Technology Support	Contract	WORLD WIDE TECHNOLOGY LLC						514,188
3151	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259708	AIS -IS Enterprise Nwsk Solms Contracts	8200616	AIS IS ENS- Advance Technology Support	Other	WORLD WIDE TECHNOLOGY LLC						(918)
3152	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	AIS -C&I Computing Solms & Ops Contracts	2027945	I&O Infra Ops - Mainframe HW/SW Contract	Contract	ALL SYSTEMS GROUP INC			47,421			
3153	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	AIS -C&I Computing Solms & Ops Contracts	2027945	I&O Infra Ops - Mainframe HW/SW Contract	Contract	BMC SOFTWARE INC				53,629	(0)	
3154	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	AIS -C&I Computing Solms & Ops Contracts	2027945	I&O Infra Ops - Mainframe HW/SW Contract	Contract	COMPUWARE CORPORATION			25,000	25,000	19,500	20,670
3155	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	AIS -C&I Computing Solms & Ops Contracts	2027945	I&O Infra Ops - Mainframe HW/SW Contract	Contract	OTS SOFTWARE INC			72,633	77,717		
3156	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	AIS -C&I Computing Solms & Ops Contracts	2027945	I&O Infra Ops - Mainframe HW/SW Contract	Contract	EDGE SOLUTIONS & CONSULTING INC/DSS					219,326	
3157	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	AIS -C&I Computing Solms & Ops Contracts	2027945	I&O Infra Ops - Mainframe HW/SW Contract	Contract	IBM CORPORATION						
3158	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	AIS -C&I Computing Solms & Ops Contracts	2027945	I&O Infra Ops - Mainframe HW/SW Contract	Contract	IBM CORPORATION			824,606	859,803	608,263	(0)
3159	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	AIS -C&I Computing Solms & Ops Contracts	2027945	I&O Infra Ops - Mainframe HW/SW Contract	Contract	INNOVATION DATA PROCESSING			16,000	9,790	7,615	7,615
3160	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, &												

Baseline QSM Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Resource Element Major	Vendor Name	2016	2017	2018	2019	2020	2021
3188	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8115198	ASIS/EI - WWIT TMAX MDMS	Contract	Not assigned			186,388	149,830	
3189	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8115197	ASIS/EI - WWIT TMAX CRK	Contract	Not assigned			121,191	121,191	
3190	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8115412	ASIS/EI - Symantec VRTS (Unix)	Contract	SHI INTERNATIONAL CORP				99,116	
3191	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8191617	ASIS/EI - VMware (WinTel)	Contract	Not assigned				780,438	1,505,299
3192	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8191618	ASIS/EI - VMware (WinTel)	Contract	WORLD WIDE TECHNOLOGY LLC					659,736
3193	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8191917	ASIS/EI - WWIT Dell UIQ	Contract	WORLD WIDE TECHNOLOGY LLC			271,832		
3194	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8191917	ASIS/EI - WWIT Dell UIQ	Materials	Not assigned					
3195	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8191917	ASIS/EI - WWIT Dell UIQ	Materials	WORLD WIDE TECHNOLOGY LLC			3,365		
3196	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8191917	ASIS/EI - WWIT Dell UIQ	Other	Not assigned			3,588		
3197	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8191954	PIP C&I Client Exp - WWIT Dell ProSist ODA	Contract	Not assigned				117,514	201,452
3198	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8192079	ASIS/EI - Hitachi CDS	Contract	HITACHI VANTARA CORPORATION			1,870	7,215	
3199	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8192079	ASIS/EI - Hitachi CDS	Other	HITACHI VANTARA CORPORATION				(8)	
3200	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8192441	PIP C&I Cloud Cof - PagerDuty	Contract	SHI INTERNATIONAL CORP				53,769	42,250
3201	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8192441	PIP C&I Cloud Cof - PagerDuty	Other	SHI INTERNATIONAL CORP				(134)	(106)
3202	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8193724	ASIS C&I Cloud Cof - Dell TPAHW	Contract	Not assigned			1,339,674	2,021,613	
3203	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8193724	ASIS C&I Cloud Cof - Dell TPAHW	Contract	WORLD WIDE TECHNOLOGY LLC					1,182,173
3204	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8193724	ASIS C&I Cloud Cof - Dell TPAHW	Labor External	GARTNER INC				180,000	
3205	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8193724	ASIS C&I Cloud Cof - Dell TPAHW	Materials	Not assigned					
3206	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8193724	ASIS C&I Cloud Cof - Dell TPAHW	Other	Not assigned				22,266	
3207	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8194945	ASIS C&I Cloud Cof - Dell TPAHW	Contract	Not assigned			1,357,851	2,525,061	
3208	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8201948	ASIS C&I Cloud Cof - Dell TPAHW	Contract	WORLD WIDE TECHNOLOGY LLC				775,915	
3209	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8201948	ASIS C&I Cloud Cof - Dell TPAHW	Contract	Not assigned					280,006
3210	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8201948	ASIS C&I Cloud Cof - Dell TPAHW	Materials	Not assigned					68,533
3211	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259709	ASIS - C&I Computing Solms & Ops Contracts	8201539	ASIS C&I Cloud Cof - Dell TPAHW	Other	Not assigned					1,659,579
3212	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259711	ASIS - M&CPD Field Ops North Contracts	8190897	ASIS M&CPD FO South - Tracticon Guest	Contract	Not assigned			36,840	73,680	(144,472)
3213	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259711	ASIS - M&CPD Field Ops North Contracts	8190897	ASIS M&CPD FO South - Tracticon Guest	Contract	TRACTICON GUEST INC			36,840		
3214	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259711	ASIS - M&CPD Field Ops North Contracts	8190897	ASIS M&CPD FO South - Tracticon Guest	Contract	Not assigned				307,251	282,761
3215	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259711	ASIS - M&CPD Field Ops North Contracts	8191568	ASIS M&CPD FO South - Opnity Monarch Gold	Contract	OPEN SYSTEMS INTERNATIONAL INC					25,552
3216	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259711	ASIS - M&CPD Field Ops North Contracts	8193910	ASIS M&CPD FO South - Innovent	Contract	Not assigned					23,542
3217	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259711	ASIS - M&CPD Field Ops North Contracts	8193910	ASIS M&CPD FO South - Innovent	Contract	Not assigned					7,354
3218	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8152470	ASIS M&CPD DCCP - Innovative Indust Solns	Contract	INNOVATIVE INDUSTRIAL SOLUTIONS INC	7,750	7,750	7,750	7,750	7,500
3219	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8152470	ASIS M&CPD DCCP - Innovative Indust Solns	Contract	VESTA SOLUTIONS INC					
3220	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8152470	ASIS M&CPD DCCP - Innovative Indust Solns	Other	INNOVATIVE INDUSTRIAL SOLUTIONS INC			1,300	(131)	(137)
3221	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8152470	ASIS M&CPD DCCP - Innovative Indust Solns	Contract	Not assigned			1,300	(131)	(94)
3222	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8152470	ASIS M&CPD DCCP - Innovative Indust Solns	Other	VESTA SOLUTIONS INC			(180)		
3223	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8156761	M&CS - US Power	Contract	BENSON & SON ELECTRIC INC			5,300	31,900	30,305
3224	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8156761	M&CS - US Power	Contract	CONCOPOLCO					26,600
3225	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8156761	M&CS - US Power	Materials	Not assigned			27,100	301	
3226	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8156761	M&CS - US Power	Other	US POWER INC				30,100	
3227	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8156761	M&CS - US Power	Other	BENSON & SON ELECTRIC INC			(448)	(788)	(864)
3228	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8156761	M&CS - US Power	Other	CONCOPOLCO					(630)
3229	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8156761	M&CS - US Power	Other	Not assigned			3,129	3,220	680
3230	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8156761	M&CS - US Power	Other	US POWER INC	(542)	(602)			
3231	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8184276	ASIS M&CPD DCCP - Navcon	Contract	NAVCON ENGINEERING NETWORK				1,723	1,500
3232	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8184276	ASIS M&CPD DCCP - Navcon	Contract	NAVCON ENGINEERING NETWORK				1,350	1,350
3233	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259732	ASIS - M&CPD DCCP Contracts	8184276	ASIS M&CPD DCCP - Navcon	Contract	NAVCON ENGINEERING NETWORK				34	
3234	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	ASIS - IS Client Experience Contracts	2044925	ASIS IS Client Experience - Collective	Contract	Not assigned				160,390	114,564
3235	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	ASIS - IS Client Experience Contracts	2044925	ASIS IS Client Experience - Collective	Contract	ZONES CORPORATE SOLUTIONS					72,304
3236	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	ASIS - IS Client Experience Contracts	2044925	ASIS IS Client Experience - Collective	Other	ZONES CORPORATE SOLUTIONS					(193)
3237	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8112620	PIP C&I Cloud Cof - AWS Cloud Contract	Contract	AMAZON WEB SERVICES LLC				27,300	25,550
3238	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8112620	PIP C&I Cloud Cof - AWS Cloud Contract	Contract	Not assigned				(756,631)	
3239	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8112620	PIP C&I Cloud Cof - AWS Cloud Contract	Labor External	AMAZON WEB SERVICES LLC			342,615	67	
3240	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8112620	PIP C&I Cloud Cof - AWS Cloud Contract	Labor External	Not assigned			(286,183)	(566,528)	
3241	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8112620	PIP C&I Cloud Cof - AWS Cloud Contract	Labor External	PHASE 3 COMMUNICATIONS INC					
3242	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8112620	PIP C&I Cloud Cof - AWS Cloud Contract	Labor External	SHI INTERNATIONAL CORP				1,063	
3243	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8112620	PIP C&I Cloud Cof - AWS Cloud Contract	Other	AMAZON WEB SERVICES LLC			3,233		
3244	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8112620	PIP C&I Cloud Cof - AWS Cloud Contract	Other	Not assigned			263,466	(263,466)	
3245	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8112620	PIP C&I Cloud Cof - AWS Cloud Contract	Other	SHI INTERNATIONAL CORP			(1)	(1)	
3246	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8180047	PIP C&I Cloud Cof - Cloud Service Github	Contract	Not assigned			115,500	126,000	10,500
3247	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8180047	PIP C&I Cloud Cof - Cloud Service Github	Contract	MICROSOFT CORP					10,053
3248	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8180047	PIP C&I Cloud Cof - Cloud Service Github	Contract	Not assigned				94,388	251
3249	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8180100	ASIS C&I Cloud Cof - Antifactory	Contract	Not assigned					12,908
3250	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8180100	ASIS C&I Cloud Cof - Antifactory	Contract	SHI INTERNATIONAL CORP					
3251	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8191800	ASIS C&I Cloud Cof - Cloud Guru	Contract	Not assigned					27,846
3252	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259734	ASIS - C&I Engineering Contracts	8191800	ASIS C&I Cloud Cof - Cloud Guru	Contract	SHI INTERNATIONAL CORP					18,564
3253	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259735	PIP - AWM Contracts	8195946	PIP - Asset & Work Mgmt - IRTNET	Contract	Not assigned				415,152	
3254	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259735	PIP - AWM Contracts	8195946	PIP - Asset & Work Mgmt - IRTNET	Labor External	IRTH SOLUTIONS INC				109,536	
3255	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259735	PIP - AWM Contracts	8195946	PIP - Asset & Work Mgmt - IRTNET	Other	IRTH SOLUTIONS INC					
3256	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259735	PIP - AWM Contracts	8199490	PIP - AWM - Bitrise	Contract	SHI INTERNATIONAL CORP					47,817
3257	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259735	PIP - AWM - AWS Usage MRAD	8195978	PIP - AWM - AWS Usage MRAD	Contract	AMAZON WEB SERVICES LLC			19,847	616,276	
3258	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259736	PIP - AWM - AWS Usage MRAD	8195978	PIP - AWM - AWS Usage MRAD	Labor External	AMAZON WEB SERVICES LLC				69,328	
3259	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259738	PIP - BA Corp Svs - AWS Usage FFMG	8192804	PIP - BA Corp Svs - AWS Usage FFMG	Contract	AMAZON WEB SERVICES LLC				76,388	72,989
3260	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259738	PIP - BA Corp Svs - AWS Usage FFMG	8192804	PIP - BA Corp Svs - AWS Usage FFMG	Labor External	AMAZON WEB SERVICES LLC				55,479	
3261	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259738	PIP - BA Corp Svs - AWS Usage FFMG	8192804	PIP - BA Corp Svs - AWS Usage FFMG	Contract	MAHNA CHA					5
3262	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259738	PIP - BA Corp Svs - AWS Usage FFMG	8192804	PIP - BA Corp Svs - AWS Usage FFMG	Materials	Not assigned					
3263	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259738	PIP - BA Corp Svs - AWS Usage FFMG	8192804	PIP - BA Corp Svs - AWS Usage FFMG	Other	Not assigned					
3264	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Contract	SHI INTERNATIONAL CORP	132,772	124,256	141,934	143,974	153,748
3265	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Contract	ZONES CORPORATE SOLUTIONS					
3266	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Contract	Not assigned			12,134	24,997	
3267	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Other	Not assigned				(8)	
3268	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Contract	Not assigned			1,736,279	2,569,613	3,186,279
3269	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Contract	ORACLE AMERICA INC				104,167	147,584
3270	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Contract	ZONES CORPORATE SOLUTIONS				434,070	
3271	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Contract	Not assigned					
3272	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Contract	MICRO FOCUS US INC			47,856	49,292	50,771
3273	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Contract	Not assigned			109,007	107,194	4,358
3274	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Other	Not assigned				0	
3275	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Contract	Not assigned			135,678		
3276	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5259733	PIP - BA-MTC Contracts	8115167	PIP - BA-MTC - Oracle Cloud Tools	Contract	OPEN TEXT INC			</		

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
3302	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	8191737	PEP BA/MTC - Zones Ipswitch P10M	Contract	SHI INTERNATIONAL CORP					3,040	3,051
3303	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	8191737	PEP BA/MTC - Zones Ipswitch P10M	Contract	ZONES CORPORATE SOLUTIONS				5,777		
3304	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	8191737	PEP BA/MTC - Zones Ipswitch P10M	Other	SHI INTERNATIONAL CORP						(15)
3305	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	8191737	PEP BA/MTC - Zones Ipswitch P10M	Contract	ZONES CORPORATE SOLUTIONS				(8)	(7)	
3306	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	8198547	PEP BA/MTC - Github	Contract	SHI INTERNATIONAL CORP					12,245	
3307	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	8198547	PEP BA/MTC - Github	Other	SHI INTERNATIONAL CORP						(31)
3308	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9023629	FERC Correction from 9209	Other	Not assigned					(6,612,472)	
3309	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9023630	FERC Correction to 9039	Other	Not assigned					(5,586,623)	
3310	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9023631	FERC Correction to 5880	Other	Not assigned						
3311	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9023633	FERC Correction to 8800	Other	Not assigned					7,340	
3312	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9024150	Correct FERC Account - 9209 2021 JV	Contract	Not assigned						(9,715,227)
3313	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9024150	Correct FERC Account - 9209 2021 JV	Labor Internal	Not assigned						
3314	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9024150	Correct FERC Account - 9209 2021 JV	Materials	Not assigned						
3315	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9024150	Correct FERC Account - 9209 2021 JV	Other	Not assigned						
3316	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9024155	Correct FERC Account - 9039 2021 JV	Contract	Not assigned						3,715,227
3317	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9024155	Correct FERC Account - 9039 2021 JV	Labor Internal	Not assigned						
3318	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9024155	Correct FERC Account - 9039 2021 JV	Materials	Not assigned						
3319	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267333	PEP - BA/MTC Contracts	9024155	Correct FERC Account - 9039 2021 JV	Other	Not assigned						(28)
3320	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8115260	PEP C&I - Informatica Power Center	Contract	INFORMATICA LLC	59,505					
3321	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8115260	PEP C&I - Informatica Power Center	Contract		413,866	400,000	400,000	400,000		
3322	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8115338	PEP C&I - Open Text GXS File Exchange	Contract	OPEN TEXT INC		62,775	188,325	62,775	334,033	252,079
3323	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8140297	PEP C&I - Aways	Contract	AWAY INC		16,376				
3324	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8140297	PEP C&I - Aways	Contract	Not assigned	186,174	176,129	196,512	196,512	236,162	227,339
3325	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8140297	PEP C&I - Aways	Other	Not assigned			(0)			
3326	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8174876	PEP E - Zones Layer 7	Contract	Not assigned				112,888	137,737	165,924
3327	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8174876	PEP E - Zones Layer 7	Contract	WSO2 INC	25,000					145,891
3328	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8174876	PEP E - Zones Layer 7	Contract	ZONES CORPORATE SOLUTIONS	14,500	92,231	12,795			29,456
3329	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8174876	PEP E - Zones Layer 7	Other	Not assigned	36					
3330	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8174876	PEP E - Zones Layer 7	Other	WSO2 INC	500					
3331	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8174876	PEP E - Zones Layer 7	Other	ZONES CORPORATE SOLUTIONS	(36)					
3332	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8178308	PEP E - Informatica Cloud	Contract	Not assigned		214,380	214,380	203,762	185,136	164,891
3333	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8182776	PEP E - Informatica Scaling	Contract	INFORMATICA LLC			48,930	49,640	32,289	
3334	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8182776	PEP E - Informatica Scaling	Contract	Not assigned					355,178	387,465
3335	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8182776	PEP E - Informatica Scaling	Other	INFORMATICA LLC						
3336	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8184376	PEP C&I - Informatica Enterprise	Contract	INFORMATICA LLC			50,000	50,000		
3337	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8184376	PEP C&I - Informatica Enterprise	Labor Internal	Not assigned						
3338	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8185728	PEP C&I - CA-Mobile API Gateway	Contract	ZONES LLC		8,182	8,182			
3339	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8185728	PEP C&I - CA-Mobile API Gateway	(20)	ZONES LLC						
3340	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5267343	PEP - Enterprise Integration Contracts	8186537	PEP C&I - Zones WSO2	Contract	WSO2 INC		25,469				
3341	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5269017	PEP - E AWS Usage API	8193201	PEP E - Informatica PaC/RW RTO	Contract	Not assigned						150,000
3342	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5269017	PEP - E AWS Usage API	8193201	PEP E - AWS Usage API	Contract	AMAZON WEB SERVICES LLC					31,843	56,319
3343	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5269017	PEP - E AWS Usage API	8193201	PEP E - AWS Usage API	Labor External	AMAZON WEB SERVICES LLC					18,446	
3344	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5269017	PEP - E AWS Usage ID GS	8195937	PEP - AWS Usage ID GS	Contract	AMAZON WEB SERVICES LLC					168,886	116,805
3345	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5269017	PEP - E AWS Usage ID GS	8195937	PEP - AWS Usage ID GS	Labor External	Not assigned						
3346	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5269017	PEP - E AWS Usage ID GS	8195937	PEP - AWS Usage ID GS	Labor Internal	Not assigned						661
3347	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270136	IT OCIO - PMO Contracts	8115396	OCIO - Shibumi	Contract	Not assigned					125,000	125,000
3348	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270136	IT OCIO - PMO Contracts	8115396	OCIO - Shibumi	Contract	SHIBUMI.COM INC						21,467
3349	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270136	IT OCIO - PMO Contracts	8115396	OCIO - Shibumi	Other	SHIBUMI.COM INC						(522)
3350	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270136	AS - IS Emergency Management Contracts	8195756	AS IS Emergency Mgmt - Sargard Assurance	Contract	ASSURANCE SOFTWARE INC					18,000	
3351	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115171	AS APS Tech Ops - Oracle Fusion Midtler	Contract	Not assigned	3,611,121	3,647,099	4,041,647	3,693,557	3,693,557	
3352	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115171	AS APS Tech Ops - Oracle Fusion Midtler	Contract	ORACLE AMERICA INC			0			
3353	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115171	AS APS Tech Ops - Oracle Fusion Midtler	Contract	ORACLE CREDIT CORPORATION				335,778		
3354	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115189	AS APS Tech Ops - Oracle DBA Mtc	Contract	Not assigned	4,945,309	6,118,801	6,884,702	6,860,802	7,246,160	11,507,357
3355	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115189	AS APS Tech Ops - Oracle DBA Mtc	Labor External	PAISADE COMPLIANCE LLC					128,000	
3356	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115209	AS APS Tech Ops - BMC SW (Mainframe)	Contract	BMC SOFTWARE INC				49,998		47,763
3357	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115209	AS APS Tech Ops - Compuware (Mainframe)	Contract	BMC SOFTWARE INC						56,112
3358	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115209	AS APS Tech Ops - Compuware (Mainframe)	Contract	COMPUWARE CORPORATION					29,554	
3359	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115211	AS APS Tech Ops - IBM (Mainframe)	Contract	IBM CORPORATION					430,645	347,090
3360	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115211	AS APS Tech Ops - IBM (Mainframe)	Contract	Not assigned						
3361	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115223	AS APS Tech Ops - Levi Ray & Shoup (MF)	Contract	LEVI, RAY & SHOUP, INC.					47,861	49,298
3362	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115224	AS APS Tech Ops - Rocket SW (Mainframe)	Contract	ROCKET SOFTWARE INC					5,395	5,773
3363	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115238	AS APS Tech Ops - Rocket SW (Mainframe)	Contract	ROCKET SOFTWARE INC					26,984	
3364	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115238	AS APS Tech Ops - Oracle ACS	Contract	Not assigned	1,184,789	1,208,915	1,129,605			60,632
3365	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115238	AS APS Tech Ops - Oracle ACS	Contract	ZONES CORPORATE SOLUTIONS			0			
3366	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115238	AS APS Tech Ops - Oracle ACS	Labor External	Not assigned			62,322	753,293	800,189	604,572
3367	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115238	AS APS Tech Ops - Oracle ACS	Labor External	ZONES CORPORATE SOLUTIONS						
3368	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115238	AS APS Tech Ops - Oracle ACS	Other	Not assigned	6,827					
3369	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115408	AS APS Tech Ops - Synsort (Mainframe)	Contract	PRECISE SOFTWARE INCORPORATED						20,124
3370	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115408	AS APS Tech Ops - Synsort (Mainframe)	Contract	SYNSORT INC					14,697	
3371	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115410	AS APS Tech Ops - IBM SWMA (Unix)	Contract	IBM CORPORATION					1,529,000	3,499,122
3372	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8115413	AS APS Tech Ops - Lenovo x86 (Unix)	Contract	LENOVO UNITED STATES INC					29,251	29,414
3373	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8122542	AS APS Tech Ops - Curvature (Storage)	Contract	CURVATURE INC					45,889	108,687
3374	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8122542	AS APS Tech Ops - Curvature (Storage)	Contract	Not assigned				63,789	288,660	378,676
3375	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8122542	AS APS Tech Ops - Curvature (Storage)	Other	Not assigned						(5,349)
3376	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8163036	AS APS Tech Ops - Oracle Storageext STK	Contract	Not assigned						
3377	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8163036	AS APS Tech Ops - Oracle Storageext STK	Contract	ZONES CORPORATE SOLUTIONS		332,367	222,135	199,766	12,428	148,219
3378	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8163036	AS APS Tech Ops - Oracle Storageext STK	Other	Not assigned				(0)		39,129
3379	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8163037	AS APS Tech Ops - IAS Sun Server	Contract	INTEGRATED ARCHIVE SYSTEMS		57,386	36,871			
3380	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8163037	AS APS Tech Ops - IAS Sun Server	Contract	ORACLE AMERICA INC				3,703	10,397	
3381	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8163037	AS APS Tech Ops - IAS Sun Server	Other	INTEGRATED ARCHIVE SYSTEMS		(287)	(184)			
3382	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8163037	AS APS Tech Ops - IAS Sun Server	Other	Not assigned	287	184				
3383	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8191058	AS APS Tech Ops - Hitachi Vantara	Contract	CURVATURE INC					50,984	
3384	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8191058	AS APS Tech Ops - Hitachi Vantara	Contract	HITACHI VANTARA CORPORATION				0		
3385	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8191058	AS APS Tech Ops - Hitachi Vantara	Contract	HITACHI VANTARA LLC					111,621	120,091
3386	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8191058	AS APS Tech Ops - Hitachi Vantara	Contract	Not assigned				41,857	1,273,307	152,953
3387	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8191058	AS APS Tech Ops - Hitachi Vantara	Other	HITACHI VANTARA LLC						(2,317)
3388	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8191619	AS APS Tech Ops - SHI Redhat	Contract	Not assigned					1,619,645	2,051,084
3389	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8191619	AS APS Tech Ops - SHI Redhat	Contract	SHI INTERNATIONAL CORP					17,475	32,308
3390	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270139	AS - APS Tech Ops Contracts	8191619									

Line	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
3416	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	5175796	PEP BACC CES -CC (non C&B) - EMC Documentum	Labor External	MULLAN CONSULTING LLC					99,000	
3417	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8161669	PEP BACC CES -EMC D2 R/W Maintenance	Contract	EMC CORPORATION		8,890				
3418	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8161669	PEP BACC CES -EMC D2 R/W Maintenance	Contract	Not assigned	8,890	107,216	100,727	109,884	91,570	
3419	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8161669	PEP BACC CES -EMC D2 R/W Maintenance	Contract	OPEN TEXT INC			9,157			
3420	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8161669	PEP BACC CES -EMC D2 R/W Maintenance	Contract	EMC CORPORATION	14,211					
3421	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8161618	PEP BACC CES -EMC Captiva Maintenance	Contract	Not assigned	304,910	171,094	159,235	171,527	142,339	
3422	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8161618	PEP BACC CES -EMC Captiva Maintenance	Contract	OPEN TEXT INC			14,294			
3423	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8161618	PEP BACC CES -EMC Documentum Maint	Contract	EMC CORPORATION	134,112					
3424	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8161618	PEP BACC CES -EMC Documentum Maint	Contract	Not assigned	259,573	348,328	340,866	371,854	309,879	
3425	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8161618	PEP BACC CES -EMC Documentum Maint	Contract	OPEN TEXT INC			75,947			
3426	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8161618	PEP BACC CES -EMC Documentum Maint	Other	Not assigned						
3427	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8177675	PEP BACC CES -EMC dRg	Contract	SHI INTERNATIONAL CORP	4,481	53,775	54,231	47,091	55,962	53,227
3428	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8177676	PEP BACC CES -EMC dRg	Contract	SHI INTERNATIONAL CORP			9,418			
3429	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8177657	PEP BACC CES -EMC D2 Read Only	Contract	EMC CORPORATION	12,197					
3430	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8177657	PEP BACC CES -EMC D2 Read Only	Contract	Not assigned	12,197	145,951	131,881	143,870	119,892	
3431	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8177657	PEP BACC CES -EMC D2 Read Only	Contract	OPEN TEXT INC			11,895			
3432	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8177658	PEP BACC CES -EMC Kazeon Renewal	Contract	EMC CORPORATION	66,494					
3433	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8177658	PEP BACC CES -EMC Kazeon Renewal	Contract	Not assigned		6,109	73,309	61,091		
3434	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8177658	PEP BACC CES -EMC Kazeon Renewal	Contract	OPEN TEXT INC						
3435	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8162736	PEP BACC CES -EMC Content Bridge	Contract	OPEN TEXT INC			89,919			
3436	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8164979	PEP BACC CES -SHI Int'l Revellie	Contract	Not assigned			82,610	110,146	27,537	
3437	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8164979	PEP BACC CES -SHI Int'l Revellie	Contract	SHI INTERNATIONAL CORP			8,081			82,927
3438	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8164979	PEP BACC CES -SHI Int'l Revellie	Contract	SHI INTERNATIONAL CORP						
3439	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8164979	PEP BACC CES -SHI Int'l Revellie	Other	SHI INTERNATIONAL CORP			(20)			(823)
3440	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8180359	PEP BACC CES -Record Point 365	Contract	RECORDPOINT SOFTWARE USA LLC						43,980
3441	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8190976	PEP BACC CES -Splunk	Contract	WORLD WIDE TECHNOLOGY LLC					5,893	5,893
3442	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8190976	PEP BACC CES -Splunk	Contract	EMC CORPORATION			6,002			34,000
3443	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8190976	PEP BACC CES -Splunk	Other	WORLD WIDE TECHNOLOGY LLC					(15)	(15)
3444	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8190976	PEP BACC CES -Splunk	Contract	ZONES CORPORATE SOLUTIONS			(15)			
3445	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8190976	PEP BACC CES -Splunk	Contract	Not assigned				95,830	383,320	
3446	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8190976	PEP BACC CES -Splunk	Contract	Not assigned				77,885	934,617	
3447	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	8190940	PEP ES&G ECM -Open Text Documentum	Contract	OPEN TEXT INC				77,885		
3448	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	9020316	PEP ES&G ECM -Zaso Versatile Retail	Contract	ZASO ENTERPRISES INC						17,880
3449	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	9020417	Correct FERAC Account - 9039 2021 JV	Contract	Not assigned						145,800
3450	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	9024171	Correct FERAC Account - 9039 2021 JV	Contract	Not assigned						345,849
3451	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	9024172	Correct FERAC Account - 9039 2021 JV	Contract	Not assigned						(82,103)
3452	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270145	PEP-ES:ES&G ECM Contracts	9024172	Correct FERAC Account - 9039 2021 JV	Contract	Not assigned						345,849
3453	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8115285	PEP BALES EDC - Autodesk	Contract	Not assigned	173,870	136,287	163,200	146,772	134,541	147,008
3454	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8115285	PEP BALES EDC - Autodesk	Contract	US CAD HOLDINGS LLC					12,231	
3455	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8115286	PEP BALES EDC - Bentley Mgr	Contract	BENTLEY SYSTEMS INCORPORATED	6,558				44,619	
3456	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8117049	PEP BALES EDC - Bentley Mgr	Contract	Not assigned		274,245	398,350	311,375	271,371	483,750
3457	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8133398	PEP BALES EDC - Allround Automation	Contract	ZONES CORPORATE SOLUTIONS	237	213	213	213	213	
3458	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8133398	PEP BALES EDC - Allround Automation	Other	Not assigned			1	1	1	
3459	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8133398	PEP BALES EDC - Allround Automation	Contract	ZONES CORPORATE SOLUTIONS	(1)	(1)			(1)	
3460	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8187048	PEP BALES EDC - Open Text BIRT Server	Contract	Not assigned		32,567				66,823
3461	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8187048	PEP BALES EDC - Open Text BIRT Server	Contract	OPEN TEXT INC		37,424	6,682			82,593
3462	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8187048	PEP BALES EDC - Parametric Technology	Contract	Not assigned				(8)		
3463	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8187048	PEP BALES EDC - Parametric Technology	Contract	PTC INC					66,160	66,160
3464	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8187048	PEP BALES EDC - Parametric Technology	Other	BRENDAN MURPHY						
3465	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-ES&G Electric Contracts	8187048	PEP BALES EDC - Parametric Technology	Other	PTC INC					(992)	
3466	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-WSIP GIS Contracts	8115348	PEP BAES Gas Dct - ESR	Contract	Not assigned	587,500	625,000	687,500	700,000	700,000	700,000
3467	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-WSIP GIS Contracts	8115347	PEP BAES Gas Dct - Cha Cntrlg (Novara)	Contract	CHA CONSULTING INC					67,333	34,000
3468	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-WSIP GIS Contracts	8115357	PEP BAES Gas Dct - Cha Cntrlg (Novara)	Contract	Not assigned	100,000	366,667	400,000	366,667	366,667	433,333
3469	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-WSIP GIS Contracts	8115357	PEP BAES Gas Dct - Cha Cntrlg (Novara)	Other	CHA CONSULTING INC				(198)		(680)
3470	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-WSIP GIS Contracts	8126055	PEP BAES Gas Dct - Noble Denton	Contract	NOBLE DENTON USA LLC		50,742			49,376	23,400
3471	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-WSIP GIS Contracts	8126055	PEP BAES Gas Dct - Noble Denton	Contract	Not assigned	92,769	179,291	252,264	238,431	250,513	234,378
3472	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-WSIP GIS Contracts	8160944	PEP BAES Gas Dct - Corelogic Polygon	Contract	CORELOGIC INC		4,484				
3473	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-WSIP GIS Contracts	8160944	PEP BAES Gas Dct - Corelogic Polygon	Contract	Not assigned	94,242	117,945	58,242	239,863	239,863	239,863
3474	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-WSIP GIS Contracts	8161097	PEP BACC MTC - Corelogic Tax	Contract	Not assigned		1				
3475	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270146	PEP-WSIP GIS Contracts	8161097	PEP BACC MTC - Corelogic Tax	Contract	CORELOGIC INC			26,874		109,654	27,414
3476	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270148	PEP-WSIP GIS Contracts	8161097	PEP BACC MTC - Corelogic Tax	Contract	Not assigned	258,500	338,874	315,410	328,963	219,309	301,549
3477	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270148	PEP-WSIP GIS Contracts	8170939	PEP BAES Gas Dct - Dynamic Risk Assess	Contract	NOVAIR RISK ASSESSMENT SYSTEMS INC		8,748			18,404	18,404
3478	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270148	PEP-WSIP GIS Contracts	8170939	PEP BAES Gas Dct - Dynamic Risk Assess	Contract	Not assigned	103,430	96,237	106,452	100,750		
3479	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270148	PEP-WSIP GIS Contracts	8170939	PEP BAES Gas Dct - Dynamic Risk Assess	Other	Not assigned						
3480	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270149	PEP-WSIP GIS Gas Transmission Contract	8115332	PEP BAES Gas Trans - ESR	Contract	Not assigned	587,500	625,000	687,500	700,000	700,000	700,000
3481	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270149	PEP-WSIP GIS Gas Transmission Contract	8115332	PEP BAES Gas Trans - ESR	Contract	NOVAIR RISK ASSESSMENT SYSTEMS INC		5,600		5,191	5,191	5,191
3482	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8115286	PEP BALES EDC - ABB Network Mgr	Contract	ABB INC	177,000	56,204				
3483	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8115286	PEP BALES EDC - ABB Network Mgr	Contract	Not assigned	961,200	976,618	910,550	920,600	930,600	940,600
3484	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8115287	PEP BALES EDC - Cyme	Contract	CMVE INTERNATIONAL T+D INC			32,559	125,507	47,880	85,110
3485	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8115287	PEP BALES EDC - Cyme	Contract	Not assigned	182,035	191,320	162,793	127,646	128,475	173,684
3486	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8115287	PEP BALES EDC - Cyme	Labor External	CMVE INTERNATIONAL T+D INC						
3487	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8115287	PEP BALES EDC - Cyme	Contract	CMVE INTERNATIONAL T+D INC				(444)	(487)	(426)
3488	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8115295	PEP BALES EDC - Aspen Redx	Contract	ADVANCED SYSTEMS FOR POWER		1,560	1,071	2,731		2,897
3489	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8143785	PEP BALES EDC - Integral Analytics	Contract	INTEGRAL ANALYTICS INC			20,833			
3490	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8143785	PEP BALES EDC - Integral Analytics	Contract	INTEGRAL ANALYTICS INC			83,333	41,667		
3491	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8143785	PEP BALES EDC - Integral Analytics	Contract	Not assigned		62,500	250,000	166,667	208,333	166,667
3492	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8153373	PEP BALES EDC - Venice FaultPoint	Contract	VENICE SOFTWARE INC	16,955					
3493	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8176739	PEP BALES EDC - Aspen OnLine	Contract	Not assigned	101,655	267,676	265,287	273,690	273,690	273,690
3494	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8176739	PEP BALES EDC - Aspen OnLine	Contract	ADVANCED SYSTEMS FOR POWER		27,578		30,136		
3495	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8198798	PEP BALES EDC - Arcos	Contract	ARCOS LLC				17,807		
3496	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	8198798	PEP BALES EDC - Arcos	Contract	Not assigned						2,063,684
3497	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	9023399	Correct FERAC Account - IT From	Contract	Not assigned					(183,276)	
3498	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270150	PEP-Grid Sys CC EDCt ID Contracts	9024045	Correct FERAC Account - IT From	Contract	Not assigned					1	

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
3530	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8181056	PEP BACC CES - Western Integrated	Contract	JAMES E HUGHES					71,263	88,660
3531	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8181056	PEP BACC CES - Western Integrated	Contract	JAMES E HUGHES		17,928	35,857	35,857	17,928	
3532	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8181056	PEP BACC CES - Western Integrated	Other	JAMES E HUGHES					(1,122)	(1,504)
3533	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8181056	PEP BACC CES - Western Integrated	Contract	Not assigned		184,174	387,958	435,363	112,247	
3534	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8181055	AS Ops & CC AS - SAS Grid Maintenance	Contract	SAS INSTITUTE INC		92,087		1,565		
3535	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8184208	AS Ops & CC AS - SAS ETS	Contract	SAS INSTITUTE INC			19,890	35,483	73,927	
3536	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8186102	AS Ops & CC AS - Atlasian Bitbucket	Contract	SHI INTERNATIONAL CORP					12,120	19,533
3537	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8186102	AS Ops & CC AS - Atlasian Bitbucket	Contract	ZONES CORPORATE SOLUTIONS			18,141	18,008	(30)	(49)
3538	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8186102	AS Ops & CC AS - Atlasian Bitbucket	Other	SHI INTERNATIONAL CORP						
3539	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8186102	AS Ops & CC AS - Atlasian Bitbucket	Other	ZONES CORPORATE SOLUTIONS				(45)		
3540	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8186103	AS Ops & CC AS - Serena PVCs	Contract	SERENA SOFTWARE INC			66,538		68,534	
3541	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8186106	AS Ops & CC AS - Serena PVCs	Contract	SHI INTERNATIONAL CORP				66,538		
3542	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8186106	AS Ops & CC AS - Serena PVCs	Other	SHI INTERNATIONAL CORP				(166)		
3543	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8186803	AS Ops & CC AS - Tableau Server Core	Contract	Not assigned				364,159	352,336	340,875
3544	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8186803	AS Ops & CC AS - Tableau Server Core	Contract	SHI INTERNATIONAL CORP				13,708	103,805	
3545	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8186803	AS Ops & CC AS - Tableau Server Core	Other	SHI INTERNATIONAL CORP						(1)
3546	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8188004	ES&A Asset Mgmt - Tableau Desktop/Pro	Contract	Not assigned			151,832	170,948	189,639	
3547	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8188004	ES&A Asset Mgmt - Tableau Desktop/Pro	Contract	SHI INTERNATIONAL CORP			15,541		57,186	
3548	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8193144	AS Ops & CC AS - Automation Anywhere	Contract	COGNIZANT WORLDWIDE LIMITED					9,667	
3549	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8193144	AS Ops & CC AS - Automation Anywhere	Contract	Not assigned					87,000	19,333
3550	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8193144	AS Ops & CC AS - Automation Anywhere	Labor Internal	Not assigned					264	
3551	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8203219	AS Ops & CC AS - Microfocus	Contract	MICRO FOCUS LLC						57,315
3552	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270153	PEP - AS Application Support	8203219	AS Ops & CC AS - Microfocus	Contract	Not assigned						114,638
3553	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270172	IT SW/PCO - Contracts	70040264	OCIO - TextIQ	Contract	Not assigned				(725,000)		
3554	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270172	IT SW/PCO - Contracts	70040264	OCIO - TextIQ	Contract	TEXTIQ INC				725,000		
3555	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270172	IT SW/PCO - Contracts	70040264	OCIO - TextIQ	Labor External	Not assigned						242
3556	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270172	IT SW/PCO - Contracts	70040264	OCIO - TextIQ	Labor Internal	Not assigned					61	
3557	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270172	IT SW/PCO - Contracts	70040264	OCIO - TextIQ	Other	TEXTIQ INC				(15,000)	(15,000)	
3558	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270172	IT SW/PCO - Contracts	8115305	OCIO - Text IQ	Contract	Not assigned				337,500	630,000	1,125,000
3559	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270172	IT SW/PCO - Contracts	8115305	OCIO - Text IQ	Contract	TEXTIQ INC				337,500	1,250,000	
3560	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270172	IT SW/PCO - Contracts	8115305	OCIO - Text IQ	Other	TEXTIQ INC						(25,000)
3561	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270232	PEP - Grid Sys, CC Gas Contracts	8185498	PEP BAE5 Gas Dist - FlowCal	Contract	FLOW CAL INC			49,583	48,053	48,053	55,261
3562	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270232	PEP - Grid Sys, CC Gas Contracts	8187788	PEP BAE5 Gas Dist - MCACONNECT	Contract	MCACONNECT LLC				1,089	1,485	3,875
3563	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270232	PEP - Grid Sys, CC Gas Contracts	8187788	PEP BAE5 Gas Dist - MCACONNECT	Other	MCACONNECT LLC				(28)	(40)	(106)
3564	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270232	PEP - Grid Sys, CC Gas Contracts	8187788	PEP BAE5 Gas Dist - MCACONNECT	Other	Not assigned						
3565	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270232	PEP - Grid Sys, CC Gas Contracts	8187025	PEP BAE5 Gas Dist - MCACONNECT North52	Contract	MCACONNECT LLC				14,985	14,985	14,985
3566	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270232	PEP - Grid Sys, CC Gas Contracts	8181065	PEP BAE5 Gas Dist - MCACONNECT North52	Other	MCACONNECT LLC				(342)	(236)	(300)
3567	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270232	PEP - Grid Sys, CC Gas Contracts	9023387	Correct FEREC Account - IT (From)	Contract	Not assigned						(1,485)
3568	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270232	PEP - Grid Sys, CC Gas Contracts	9023387	Correct FEREC Account - IT (From)	Other	Not assigned					40	
3569	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270232	PEP - Grid Sys, CC Gas Contracts	9023403	Correct FEREC Account - IT (To)	Contract	Not assigned						(485)
3570	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270232	PEP - Grid Sys, CC Gas Contracts	9023403	Correct FEREC Account - IT (To)	Other	Not assigned					80	
3571	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270233	PEP - WSP GIS Electric ED Contracts	8115284	PEP BAE5 Elec. ED - ESRI ELA	Contract	Not assigned	587,500	625,000	687,500	700,000	700,000	700,000
3572	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270233	PEP - WSP GIS Electric ED Contracts	8115284	PEP BAE5 Elec. ED - ESRI ELA	Other	Not assigned						
3573	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5270233	PEP - WSP GIS Electric ED Contracts	8170423	PEP BAE5 Elec. ED - S&P Software	Contract	SAFE SOFTWARE INC	41,260	0	88,400	85,220	85,220	85,220
3574	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5271586	AS - MCA-PD Field Bay Foundation Contracts	8187323	AS MCA-PD Field Bay Foundation Contracts	Contract	Not assigned						19,878
3575	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	8115240	I&O Infra Ops SAP - Zones Splunk	Contract	WORLD WIDE TECHNOLOGY LLC					72,765	74,945
3576	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	8115240	I&O Infra Ops SAP - Zones Splunk	Other	WORLD WIDE TECHNOLOGY LLC					(183)	(183)
3577	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	8115402	AS IS ENS - Entit	Contract	HEWLETT PACKARD ENTERPRISE		109,511				
3578	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	8115402	AS IS ENS - Entit	Contract	MICRO FOCUS LLC			0	740,869	133,379	115,123
3579	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	8115402	AS IS ENS - Entit	Contract	Not assigned						
3580	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	8115402	AS IS ENS - Entit	Other	Not assigned	729,548	1,204,616	1,411,110	346,525	1,305,277	1,168,822
3581	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	8185496	AS IO ENS - AppDynamics	Contract	Not assigned			(8)			
3582	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	8185496	AS IO ENS - AppDynamics	Materials	Not assigned				51,950	415,603	415,603
3583	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	8185496	AS IO ENS - AppDynamics	Other	Not assigned				3,834	31,156	32,414
3584	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	8188000	AS IS ENS - Broadcast	Contract	CA INC						26,247
3585	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	8188000	AS IS ENS - Broadcast	Contract	Not assigned						
3586	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024130	Correct FEREC Account - 5880 2021 JV	Contract	Not assigned						
3587	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024130	Correct FEREC Account - 5880 2021 JV	Labor Internal	Not assigned						
3588	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024130	Correct FEREC Account - 5880 2021 JV	Materials	Not assigned						
3589	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024130	Correct FEREC Account - 5880 2021 JV	Other	Not assigned						
3590	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024156	Correct FEREC Account - 9209 2021 JV	Contract	Not assigned						
3591	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024156	Correct FEREC Account - 9209 2021 JV	Labor Internal	Not assigned						
3592	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024156	Correct FEREC Account - 9209 2021 JV	Materials	Not assigned						
3593	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024156	Correct FEREC Account - 9209 2021 JV	Other	Not assigned						
3594	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024184	Correct FEREC Account - 5880 2021 JV 372	Contract	Not assigned						(134,236)
3595	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024184	Correct FEREC Account - 5880 2021 JV 372	Labor Internal	Not assigned						(702)
3596	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024184	Correct FEREC Account - 5880 2021 JV 372	Materials	Not assigned						(217,996)
3597	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024184	Correct FEREC Account - 5880 2021 JV 372	Other	Not assigned						(3,950)
3598	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024185	Correct FEREC Account - 9209 2021 JV 372	Contract	Not assigned						
3599	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024185	Correct FEREC Account - 9209 2021 JV 372	Labor Internal	Not assigned						702
3600	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024185	Correct FEREC Account - 9209 2021 JV 372	Materials	Not assigned						217,996
3601	Cloud Subscriptions, Vendor Service Agreements, License Fees, Maintenance Contracts, & Other	5275372	AS - APS Tools Contracts	9024185	Correct FEREC Account - 9209 2021 JV 372	Other	Not assigned						3,950
3602	Managed Services Support Contracts	5041731	AMS Contracts	70034262	AMS Contracts	Contract	ATLASSIAN FT LTD		14,400				
3603	Managed Services Support Contracts	5041731	AMS Contracts	70034262	AMS Contracts	Contract	ZONES CORPORATE SOLUTIONS		11,836				
3604	Managed Services Support Contracts	5041731	AMS Contracts	70034262	AMS Contracts	Labor External	Not assigned				531		
3605	Managed Services Support Contracts	5041731	AMS Contracts	70034262	AMS Contracts	Labor External	TATA AMERICA INTERNATIONAL CORP		183,893	375,094	342,375	144,996	
3606	Managed Services Support Contracts	5041731	AMS Contracts	70034262	AMS Contracts	Labor Internal	Not assigned				188		
3607	Managed Services Support Contracts	5041731	AMS Contracts	70034262	AMS Contracts	Other	Not assigned						
3608	Managed Services Support Contracts	5041731	AMS Contracts	70034262	AMS Contracts	Other	ZONES CORPORATE SOLUTIONS		30				
3609	Managed Services Support Contracts	5041731	AMS Contracts	70034401	AMS Contracts - GRC	Contract	Not assigned		(739,388)				
3610	Managed Services Support Contracts	5041731	AMS Contracts	70034401	AMS Contracts - GRC	Labor External	COGNIZANT WORLDWIDE LIMITED		4,789,215	5,053,931	5,095,491	523,147	
3611	Managed Services Support Contracts	5041731	AMS Contracts	70034401	AMS Contracts - GRC	Labor External	Not assigned						
3612	Managed Services Support Contracts	5041731	AMS Contracts	70035765	MSO Teradata DBA Support	Labor External	Not assigned			67,845	250		
3613	Managed Services Support Contracts	5041731	AMS Contracts	70035765	MSO Teradata DBA Support	Labor External	INFOVYS LTD			200,000			
3614	Managed Services Support Contracts	5041731	AMS Contracts	70035765	MSO Teradata DBA Support	Labor External	Not assigned			64,892	3,192		
3615	Managed Services Support Contracts	5041731	AMS Contracts	70035765	MSO Teradata DBA Support	Labor External	TATA AMERICA INTERNATIONAL CORP				4,200		
3616	Managed Services Support Contracts	5041731	AMS Contracts	70035765	MSO Teradata DBA Support	Other	INFOVYS LTD					(6,200)	
3617	Managed Services Support Contracts	5041731	AMS Contracts	70035765	MSO Teradata DBA Support	Other	Not assigned				5,700		
3618	Managed Services Support Contracts	5041731	AMS Contracts	9021038	IT - FEREC Acct 5041731	Contract	Not assigned				(925,114)		
3619	Managed Services Support Contracts	5041731	AMS Contracts	9021063	IT - FEREC Acct 50208	Contract	Not assigned					295,144	
3620	Managed Services Support Contracts	5041732	Testing O&M Contracts	70034263	Testing O&M Contracts	Contract	Not assigned					(173,397)	
3621	Managed Services Support Contracts	5041732	Testing O&M Contracts	70034263	Testing O&M Contracts	Labor External	TATA AMERICA INTERNATIONAL CORP				618,7		

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
3644	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033913	IO Managed Svcs SQL DBA	Labor External	TATA AMERICA INTERNATIONAL CORP			18,369			
3645	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033913	IO Managed Svcs SQL DBA	Labor Internal	Not assigned	7,198	957				
3646	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033914	IO Managed Svcs Storage	Labor External	Not assigned	165,072	30,493				
3647	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033914	IO Managed Svcs Storage	Labor Internal	TATA AMERICA INTERNATIONAL CORP		8,210				
3648	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033914	IO Managed Svcs Storage	Labor External	Not assigned		10,492	960			
3649	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033915	IO Managed Svcs Unix	Labor External	Not assigned	406,171	51,258				
3650	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033915	IO Managed Svcs Unix	Labor External	TATA AMERICA INTERNATIONAL CORP		26,095				
3651	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033916	IO Managed Svcs Windows	Labor Internal	Not assigned	5,761	135				
3652	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033916	IO Managed Svcs Windows	Labor External	Not assigned	491,178	101,777	33			
3653	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033916	IO Managed Svcs Windows	Labor External	TATA AMERICA INTERNATIONAL CORP		35,195				
3654	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033916	IO Managed Svcs Windows	Labor Internal	Not assigned	83,073	8,798	1,059			
3655	Managed Services Support Contracts	5041749	IO Managed Services TCS	70033916	IO Managed Svcs Windows	Other	MARX A FEGLEY		260				
3656	Managed Services Support Contracts	5041749	IO Managed Services TCS	70034492	IO Managed Svcs Data Protection	Labor External	Not assigned	55,708	2,346				
3657	Managed Services Support Contracts	5041749	IO Managed Services TCS	70034663	IO Managed Svcs Support Services	Labor External	INFOSYS LTD					5,301,685	5,438,185
3658	Managed Services Support Contracts	5041749	IO Managed Services TCS	70034663	IO Managed Svcs Support Services	Labor Internal	Not assigned	202,278	22,866				
3659	Managed Services Support Contracts	5041749	IO Managed Services TCS	70034663	IO Managed Svcs Support Services	Labor External	TATA AMERICA INTERNATIONAL CORP		4,953,504	4,674,382	1,406,618	(2)	
3660	Managed Services Support Contracts	5041749	IO Managed Services TCS	70034663	IO Managed Svcs Support Services	Other	INFOSYS LTD					(13,254)	(12,463)
3661	Managed Services Support Contracts	5043613	AMS Contracts - GRCGD	70035644	AMS Contracts - GRCGD	Labor External	COGNIZANT WORLDWIDE LIMITED	309,136	485,347	444,902		(13,254)	(12,463)
3662	Managed Services Support Contracts	5043613	AMS Contracts - GRCGD	70035644	AMS Contracts - GRCGD	Labor External	TATA AMERICA INTERNATIONAL CORP			40,446			
3663	Managed Services Support Contracts	5043615	AMS Contracts - GRCGD	70035646	AMS Contracts - GRCGD	Labor External	COGNIZANT WORLDWIDE LIMITED	184,010	288,897	264,822	212,194	173,843	
3664	Managed Services Support Contracts	5043615	AMS Contracts - GRCGD	70035646	AMS Contracts - GRCGD	Labor External	TATA AMERICA INTERNATIONAL CORP		24,075				
3665	Managed Services Support Contracts	5043616	AMS Contracts - GT&S	70035647	AMS Contracts - GT&S	Labor External	COGNIZANT WORLDWIDE LIMITED	117,766	184,894	165,486	135,737	111,150	
3666	Managed Services Support Contracts	5043616	AMS Contracts - GT&S	70035647	AMS Contracts - GT&S	Labor External	TATA AMERICA INTERNATIONAL CORP			15,408			
3667	Managed Services Support Contracts	5043617	Testing O&M Contracts - GRCGD	70035648	Testing O&M Contracts - GRCGD	Labor External	COGNIZANT WORLDWIDE LIMITED			22,258	80,017	120,019	
3668	Managed Services Support Contracts	5043618	Testing O&M Contracts - GRCGD	70035648	Testing O&M Contracts - GRCGD	Labor External	TATA AMERICA INTERNATIONAL CORP		126,816	267,098	244,840	89,033	
3669	Managed Services Support Contracts	5043619	Testing O&M Contracts - GRCGD	70035650	Testing O&M Contracts - GRCGD	Labor External	COGNIZANT WORLDWIDE LIMITED			13,249	47,568	71,347	
3670	Managed Services Support Contracts	5043619	Testing O&M Contracts - GRCGD	70035650	Testing O&M Contracts - GRCGD	Labor External	TATA AMERICA INTERNATIONAL CORP		75,486	158,587	143,738	52,996	
3671	Managed Services Support Contracts	5043620	Testing O&M Contracts - GT&S	70035651	Testing O&M Contracts - GT&S	Labor External	COGNIZANT WORLDWIDE LIMITED			8,479	30,483	45,721	
3672	Managed Services Support Contracts	5043620	Testing O&M Contracts - GT&S	70035651	Testing O&M Contracts - GT&S	Labor External	TATA AMERICA INTERNATIONAL CORP	48,311	101,752	93,273	33,917		
3673	Managed Services Support Contracts	5044169	End User Svc - IO Managed Services	70033714	IO Mngd Svcs App Packaging	Labor External	Not assigned	257,226	55,616				
3674	Managed Services Support Contracts	5044169	End User Svc - IO Managed Services	70033714	IO Mngd Svcs App Packaging	Labor Internal	Not assigned	115					
3675	Managed Services Support Contracts	5044169	End User Svc - IO Managed Services	70033716	IO Mngd Svcs Citrix	Labor External	INFOSYS LTD					863,049	885,302
3676	Managed Services Support Contracts	5044169	End User Svc - IO Managed Services	70033716	IO Mngd Svcs Citrix	Labor Internal	Not assigned	201,428	25,802				
3677	Managed Services Support Contracts	5044169	End User Svc - IO Managed Services	70033716	IO Mngd Svcs Citrix	Labor External	TATA AMERICA INTERNATIONAL CORP		753,265	694,827	201,927		
3678	Managed Services Support Contracts	5044169	End User Svc - IO Managed Services	70033716	IO Mngd Svcs Citrix	Labor Internal	Not assigned		161				
3679	Managed Services Support Contracts	5044169	End User Svc - IO Managed Services	70033716	IO Mngd Svcs Citrix	Other	INFOSYS LTD					(2,158)	(2,028)
3680	Managed Services Support Contracts	5044169	End User Svc - IO Managed Services	70044494	IO Mngd Svc. Sharepoint	Labor External	Not assigned	49,258					
3681	Managed Services Support Contracts	5044169	End User Svc - IO Managed Services	70044494	IO Mngd Svc. Sharepoint	Labor Internal	Not assigned	21,256					
3682	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70036368	Managed Services Incidentral Charging	Contract	MICROSOFT CORP						15,861
3683	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70036368	Managed Services Incidentral Charging	Contract	SHI INTERNATIONAL CORP			5,936			
3684	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70036368	Managed Services Incidentral Charging	Labor External	AVASANT LLC					183,712	
3685	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70036368	Managed Services Incidentral Charging	Labor External	INFOSYS LTD					13,943	
3686	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70036368	Managed Services Incidentral Charging	Labor External	Not assigned		126,879	24,192	167,769	8,165	
3687	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70036368	Managed Services Incidentral Charging	Labor External	SAP AMERICA INC			112			
3688	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70036368	Managed Services Incidentral Charging	Labor Internal	Not assigned	27,407	19,000	129,647	2,550		
3689	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70036368	Managed Services Incidentral Charging	Other	Not assigned			15			
3690	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70036368	Managed Services Incidentral Charging	Other	SHI INTERNATIONAL CORP			113,920			
3691	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70039529	RPA Support	Labor External	Not assigned			255			
3692	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70039529	RPA Support	Labor Internal	Not assigned			261,978	40,860		
3693	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70039620	Managed Services RFP Consulting	Labor External	AVASANT LLC			(2,340)			
3694	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70039620	Managed Services RFP Consulting	Other	Not assigned					86,141	
3695	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70042080	Computing Services TCS Resources	Labor External	Not assigned					109,650	
3696	Managed Services Support Contracts	5045192	O&M Support Charging - External Teams	70042081	Testing TCS Resources	Labor External	Not assigned						
3697	Managed Services Support Contracts	5049615	End User Svc-Managed Svcs	70037332	End User Svc-Managed Services	Labor Internal	Not assigned			110			
3698	Managed Services Support Contracts	5047709	MSO BL - E Fix Bid Contract (SOW)	70029404	Un-planned O&M Contracts	Contract	MICROSOFT CORP					1,257	
3699	Managed Services Support Contracts	5047709	MSO BL - E Fix Bid Contract (SOW)	70029404	Un-planned O&M Contracts	Contract	SHI INTERNATIONAL CORP					3,258	
3700	Managed Services Support Contracts	5047709	MSO BL - E Fix Bid Contract (SOW)	70029404	Un-planned O&M Contracts	Contract	ZONES CORPORATE SOLUTIONS	1,911					
3701	Managed Services Support Contracts	5047709	MSO BL - E Fix Bid Contract (SOW)	70029404	Un-planned O&M Contracts	Labor External	AMAZON AWS SERVICES LLC		1,309	730			
3702	Managed Services Support Contracts	5047709	MSO BL - E Fix Bid Contract (SOW)	70029404	Un-planned O&M Contracts	Labor External	Not assigned		5,848	3,476			
3703	Managed Services Support Contracts	5047709	MSO BL - E Svc-Capacity Purch Ord-InfoSvcs	70033804	E Svc-Capacity Purch Ord-InfoSvcs	Labor External	INFOSYS LTD		-	46,867			
3704	Managed Services Support Contracts	5047709	MSO BL - E Svc-Capacity Purch Ord-InfoSvcs	70033804	E Svc-Capacity Purch Ord-InfoSvcs	Labor External	Not assigned						
3705	Managed Services Support Contracts	5047709	MSO BL - E Svc-Capacity Purch Ord-InfoSvcs	70033804	E Svc-Capacity Purch Ord-InfoSvcs	Other	(20,810)	(46,876)	(4,046)				
3706	Managed Services Support Contracts	5047709	MSO BL - E Svc-Capacity Purch Ord-InfoSvcs	70033804	E Svc-Capacity Purch Ord-InfoSvcs	Other	Not assigned	12,719	46,876	4,046			
3707	Managed Services Support Contracts	5047709	MSO BL - E Svc-Capacity Purch Ord-InfoSvcs	70033805	E Svc-Capacity Purch Ord-InfoSvcs	Labor External	GLOBAL POWER CONSULTING		-				
3708	Managed Services Support Contracts	5047709	MSO BL - E Svc-Capacity Purch Ord-InfoSvcs	70038000	E BL-App Integration -MS	Labor External	INFOSYS LTD			734,114	808,678	825,716	
3709	Managed Services Support Contracts	5047709	MSO BL - E Svc-Capacity Purch Ord-InfoSvcs	70038000	E BL-App Integration -MS	Other	(4,369)	(16,016)	(16,564)				
3710	Managed Services Support Contracts	5047709	MSO BL - E Svc-Capacity Purch Ord-InfoSvcs	70038000	E BL-App Integration -MS	Other	Not assigned						
3711	Managed Services Support Contracts	5047969	MSO BL - GIS GD Fix Bid Contract (SOW)	70038883	MSO BL GIS GD Fix Bid Contract (SOW)	Labor External	INFOSYS LTD		1,973		333,631	533,170	
3712	Managed Services Support Contracts	5047969	MSO BL - GIS GD Fix Bid Contract (SOW)	70038883	MSO BL GIS GD Fix Bid Contract (SOW)	Labor External	Not assigned			1,751			
3713	Managed Services Support Contracts	5047969	MSO BL - GIS GD Fix Bid Contract (SOW)	70038883	MSO BL GIS GD Fix Bid Contract (SOW)	Labor External	TATA AMERICA INTERNATIONAL CORP			474,383	162,050		
3714	Managed Services Support Contracts	5047969	MSO BL - GIS GD Fix Bid Contract (SOW)	70038883	MSO BL GIS GD Fix Bid Contract (SOW)	Labor Internal	Not assigned		420	100			
3715	Managed Services Support Contracts	5047969	MSO BL - GIS GD Fix Bid Contract (SOW)	70038883	MSO BL GIS GD Fix Bid Contract (SOW)	Labor External	Not assigned				(81,450)	(70,200)	
3716	Managed Services Support Contracts	5047971	MSO BL - GIS GD Fix Bid Contract (SOW)	70038885	MSO BL GISGD Fix Bid Contract (SOW)	Labor External	INFOSYS LTD			301,194	561,505		
3717	Managed Services Support Contracts	5047971	MSO BL - GIS GD Fix Bid Contract (SOW)	70038885	MSO BL GISGD Fix Bid Contract (SOW)	Labor External	LAUREL HILL GIS INC			8,000	12,000		
3718	Managed Services Support Contracts	5047971	MSO BL - GIS GD Fix Bid Contract (SOW)	70038885	MSO BL GISGD Fix Bid Contract (SOW)	Labor External	TATA AMERICA INTERNATIONAL CORP			661,120	270,948		
3719	Managed Services Support Contracts	5047971	MSO BL - GIS GD Fix Bid Contract (SOW)	70038885	MSO BL GISGD Fix Bid Contract (SOW)	Labor External	TELVENT USA LLC			40,671			
3720	Managed Services Support Contracts	5047971	MSO BL - GIS GD Fix Bid Contract (SOW)	70038885	MSO BL GISGD Fix Bid Contract (SOW)	Labor Internal	Not assigned		383	100			
3721	Managed Services Support Contracts	5047971	MSO BL - GIS GD Fix Bid Contract (SOW)	70038885	MSO BL GISGD Fix Bid Contract (SOW)	Other	LAUREL HILL GIS INC			(147)	(237)		
3722	Managed Services Support Contracts	5047972	MSO BL - GIS GTS Fix Bid Contract (SOW)	70038887	MSO BL GIS GTS Fix Bid Contract (SOW)	Contract	ENVIRONMENTAL SYSTEMS RESEARCH			112,000			
3723	Managed Services Support Contracts	5047972	MSO BL - GIS GTS Fix Bid Contract (SOW)	70038887	MSO BL GIS GTS Fix Bid Contract (SOW)	Labor External	INFOSYS LTD				301,194	478,318	
3724	Managed Services Support Contracts	5047972	MSO BL - GIS GTS Fix Bid Contract (SOW)	70038887	MSO BL GIS GTS Fix Bid Contract (SOW)	Labor External	LAUREL HILL GIS INC			12,500			
3725	Managed Services Support Contracts	5047972	MSO BL - GIS GTS Fix Bid Contract (SOW)	70038887	MSO BL GIS GTS Fix Bid Contract (SOW)	Labor External	TATA AMERICA INTERNATIONAL CORP			761,806	316,857		
3726	Managed Services Support Contracts	5047972	MSO BL - GIS GTS Fix Bid Contract (SOW)	70038887	MSO BL GIS GTS Fix Bid Contract (SOW)	Labor Internal	Not assigned		797				
3727	Managed Services Support Contracts	5047972	MSO BL - GIS GTS Fix Bid Contract (SOW)	70038887	MSO BL GIS GTS Fix Bid Contract (SOW)	Other	LAUREL HILL GIS INC				(230)		
3728	Managed Services Support Contracts	5050065	MSO BL - SAP WM Mgmt Fix Bid Contract	70039762	MSO BL SAP WM Mgmt Fix Bid Contract	Contract	Not assigned			32,500			
3729	Managed Services Support Contracts	5050065	MSO BL - SAP WM Mgmt Fix Bid Contract	70039762	MSO BL SAP WM Mgmt Fix Bid Contract	Labor External	INFOSYS LTD			36,576			
3730	Managed Services Support Contracts	5050066	MSO BL - HCM HR/PR Fix Bid Contract	70039763	MSO BL HCM HR/PR Fix Bid Contract	Contract	Not assigned			35,618			
3731	Managed Services Support Contracts	5050066	MSO BL - HCM HR/PR Fix Bid Contract	70039763	MSO BL HCM HR/PR Fix Bid Contract	Labor External	INFOSYS LTD			8,035			
3732	Managed Services Support Contracts	5050067	MSO BL - IT Supply Fix Bid Contract	70039764	MSO BL IT Supply Fix Bid Contract	Contract	Not assigned			72,375			
3733	Managed Services Support Contracts	5050067	MSO BL - IT Supply Fix Bid Contract	70039764	MSO BL IT Supply Fix Bid Contract	Labor External	INFOSYS LTD			10,695			
3734	Managed Services Support Contracts	5050068	MSO BL - SAP Enterprise Fix Bid Contract	70039765	MSO BL SAP Enterprise Fix Bid Contract	Labor External	Not assigned			517,244			
3735	Managed Services Support Contracts	5050068	MSO BL - SAP Enterprise Fix Bid Contract	70039765	MSO BL SAP Enterprise Fix Bid Contract	Labor External	SAP AMERICA INC			155,701			
3736	Managed Services Support Contracts	5050069	MSO BL - CFM SAP Fin BuTech Fix Bid C	70039766	MSO BL CFM SAP Fin BuTech Fix Bid C	Labor External	POWERPLAN INC			26,975			
3737	Managed Services Support Contracts	5050070	MSO BL - SAP Dev PR Timedly HR Fix Bid	70039767	MSO BL SAP Dev PR Timedly HR Fix Bid	Labor External	Not assigned			2,880			
3738	Managed Services Support Contracts	5050071	MSO BL - Manage Svc Fix Fee	70039768	MSO BL SAP Dev App Supt Fix Bid Contr	Contract	Not assigned			542,774			
3739	Managed Services Support Contracts	5050071	MSO BL - Manage Svc Fix Fee	70039768	MSO BL SAP Dev App Supt Fix Bid Contr	Labor External	INFOSYS LTD			503,228	425,000		
3740	Managed Services Support Contracts	5050071											

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
3758	Managed Services Support Contracts	5249615	MSO BL - CS Purch Order Clear - Capacity	70030564	Reg Rel purchase order clearing	Other	PRICEWATERHOUSECOOPERS LLP	(5,060)					
3759	Managed Services Support Contracts	5249615	MSO BL - CS Purch Order Clear - Capacity	70030863	CS PO Clearing	Contract	CANUS CORPORATION						339
3760	Managed Services Support Contracts	5249615	MSO BL - CS Purch Order Clear - Capacity	70030863	CS PO Clearing	Labor External	GLOBAL POWER CONSULTING						
3761	Managed Services Support Contracts	5263332	MSO BL - Cust Digitl Fix Bid Contrc (SOW)	70037940	MSO BL Cust Digitl Fix Bid Contract (SOW)	Labor External	INTECIS INC				1,281,000	1,311,959	1,518,242
3762	Managed Services Support Contracts	5263332	MSO BL - Cust Digitl Fix Bid Contrc (SOW)	70037940	MSO BL Cust Digitl Fix Bid Contract (SOW)	Labor Internal	Not assigned			195			
3763	Managed Services Support Contracts	5263332	MSO BL - Cust Digitl Fix Bid Contrc (SOW)	70037940	MSO BL Cust Digitl Fix Bid Contract (SOW)	Materials	ANTHONY SCHMIDT			759			
3764	Managed Services Support Contracts	5263332	MSO BL - Cust Digitl Fix Bid Contrc (SOW)	70037940	MSO BL Cust Digitl Fix Bid Contract (SOW)	Materials	Not assigned			8			
3765	Managed Services Support Contracts	5263332	MSO BL - Cust Digitl Fix Bid Contrc (SOW)	70037940	MSO BL Cust Digitl Fix Bid Contract (SOW)	Other	INTECIS INC					(19,696)	(30,318)
3766	Managed Services Support Contracts	5263332	MSO BL - Cust Digitl Fix Bid Contrc (SOW)	70037940	MSO BL Cust Digitl Fix Bid Contract (SOW)	Other	Not assigned			69			
3767	Managed Services Support Contracts	5269272	MSO - CRCR (E)	70041462	MSO - CRCR Performance Remediation (E)	Labor External	Not assigned					(0)	
3768	Managed Services Support Contracts	5269272	MSO - CRCR (E)	70041462	MSO - CRCR Performance Remediation (E)	Labor External	ORACLE AMERICA INC					158,962	(47,355)
3769	Managed Services Support Contracts	5269272	MSO - CRCR (E)	70041462	MSO - CRCR Performance Remediation (E)	Labor Internal	Not assigned					55	
3770	Managed Services Support Contracts	5269272	MSO - CRCR (E)	70043400	MSO - CRCR Residual and Enhancements	Labor External	Not assigned					134,190	225
3771	Managed Services Support Contracts	5269272	MSO - CRCR (E)	70043400	MSO - CRCR Residual and Enhancements	Materials	JETA CORPORATION						4,908
3772	Managed Services Support Contracts	5269272	MSO - CRCR (E)	70043400	MSO - CRCR Residual and Enhancements	Materials	Not assigned						
3773	Managed Services Support Contracts	5269272	MSO - CRCR (E)	70043400	MSO - CRCR Residual and Enhancements	Other	JETA CORPORATION					(98)	
3774	Managed Services Support Contracts	5269272	MSO - CRCR (E)	70043400	MSO - CRCR Residual and Enhancements	Other	Not assigned						425
3775	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Labor Internal	Not assigned	133					
3776	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Materials	Not assigned	22					
3777	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	AMERICAN TOWER CORPORATION	136,662	27,932	131,436	262,872		
3778	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	BECKMAN & KINNEY TELECOM LLC	23,163	40,471	33,738	35,088	29,473	
3779	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	BUREAU OF LAND MANAGEMENT	15,282	18,445	19,807	18,851	19,020	14,352
3780	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	BUREAU OF RECLAMATION	9,786	6,100	22,000	15,000	16,200	15,000
3781	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	BURLINGTON NORTHERN & SANTA FE	13,752	14,440	15,162	15,920	16,716	17,552
3782	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	C&C EQUIPMENT CO	32,350	50,060	45,155	43,374	45,109	46,912
3783	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	CALIFORNIA BROADCASTING INC	33,786	17,457				
3784	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	CALIFORNIA GOVERNORS OFFICE OF		35,510	55,548	26,007		55,215
3785	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	CALIFORNIA HIGHWAY PATROL	30,051	23,846	46,923	29,281	31,464	28,987
3786	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	CALIFORNIA LAND COMMISSION			100			544
3787	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	CALIFORNIA STATE UNIVERSITY CHICO	11,560	12,030	12,441	14,108	13,277	13,423
3788	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	CAROUSEL BROADCASTING INC			7,983	11,176		
3789	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	CITIZENS TELECOM OF CALIFORNIA INC	18,431	18,687	17,756	20,145		
3790	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	CLAYTONS WEST LLC	21,648	37,405	27,050		31,681	204,923
3791	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	COUNTY OF ALAMEDA		3,171				1,154
3792	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	COUNTY OF CONTRA COSTA		65,136	70,800	70,800	70,800	
3793	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	COUNTY OF SAN MATEO	40,033	48,723	47,768	53,118	50,745	
3794	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	CROWN CASTLE INTERNATIONAL	28,493	34,528	30,302	31,211	33,274	57,104
3795	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	CROWN CASTLE USA INC	19,843	34,344	28,044	29,324	27,696	54,767
3796	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	DEPARTMENT OF THE INTERIOR					10,440	3,241
3797	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	EPIC COMMUNICATIONS LLC				4,731	20,095	23,045
3798	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	EPH HOLDINGS I LLC					40,490	17,055
3799	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	EL BORDADO BROADCASTERS LLC		1,059				
3800	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	EMERY'S ESCOLA DISCLAIMER TRUST	7,560	6,930	8,190			
3801	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	FIRST AMERICAN TITLE COMPANY		2,100				
3802	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	FRONTIER CELLULAR INC	2,732	2,814	2,898			
3803	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	GEORGETOWN DIVIDE PUBLIC	5,124		16,449	5,983	6,163	6,348
3804	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	GTP INVESTMENTS LLC	39,043	29,291	45,979	54,731	53,960	65,431
3805	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	HEWITSON FARMS	6,424	6,518	6,664	6,815	6,932	7,027
3806	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	JOHN L AND JANE FITZGERALD FAMILY		1,281				
3807	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	KFSR-TV LLC	2,325	2,441	2,564	2,692	2,826	2,968
3808	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	LEE SCARSONI	10,000	10,000	10,000	10,000	10,000	10,000
3809	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	LEVEL 3 COMMUNICATIONS LLC	7,181					
3810	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	MARILYN MADSEN MITTY	1,977	1,977	2,001	4,232	2,116	2,116
3811	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	MONTGOMERY COUNTY	11,159	10,632	13,643	14,617	12,001	13,576
3812	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	MONTGOMERY COUNTY						5,315
3813	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	NAPA COUNTY COMMUNICATIONS DIVISION	9,323	3,767	3,880	3,996	4,116	4,240
3814	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	NORMAN JOHANNESSON	18,747	19,260	19,686	19,939	20,452	24,066
3815	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	Not assigned	82	(49,327)				
3816	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	OAK PASS CORP		22,973		24,122	25,328	26,594
3817	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	PONDEROSA TELEPHONE CO					382	
3818	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	POWER INC	43,870	45,276	46,541	47,938	50,177	50,483
3819	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	RIDGE RANCH NO 1 LLC	16,333	11,578	12,993	13,893	13,528	15,785
3820	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	ROBIN AND VESTA E WIRTH TRUST		1,281				
3821	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	SIERRA PACIFIC INDUSTRIES	6,136	6,527	6,697	12,500	13,700	15,020
3822	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	SUN VALLEY PROPANE INC	17,066	21,086		18,953	23,270	6,938
3823	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	SUN FEATHER WATER & POWER		2,570	2,570		2,570	
3824	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	SOUTHERN CALIFORNIA EDISON CO	10,799	11,231	11,680	13,079	12,633	13,138
3825	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	SOUTHERN CALIFORNIA GAS CO	9,005	9,366	9,740	10,130	10,535	10,956
3826	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	STATE DEPT OF FORESTRY	28,140	99,954	49,058	48,061	41,891	74,488
3827	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	STATE OF CALIFORNIA DEPARTMENT OF	29,687	16,979	86,991	39,868	74,358	74,867
3828	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	STEVEN D SCHLAFER				7,860	8,160	8,160
3829	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	SURFIS VALLEY ELECTRIFICATION	2,118	2,140	2,972	2,464	2,553	2,206
3830	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	TRANSMISSION AGENCY OF NORTHERN	2,877					
3831	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	UMB BANK NA		53				
3832	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	UNION PACIFIC RAILROAD CO	3,629	3,692	3,801	3,870	3,908	4,117
3833	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	US COAST GUARD FINANCE CENTER	1,125	1,875	1,500	1,613	1,875	1,125
3834	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	US DEPT OF AGRICULTURE FOREST				81,723	82,540	87,938
3835	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	US FOREST SERVICE	78,151	85,026	82,755	590	3,498	
3836	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	US-SI ASSETS LLC		1,785	21,338	26,876	26,036	28,725
3837	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	VERIZON CALIFORNIA INC						
3838	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	VERTICAL BRIDGE TOWERS LLC	20,779	28,680	5,355			
3839	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	WHISKYTOWN NATIONAL RECREATIONAL	13,038	13,038	13,038		26,076	13,038
3840	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000177	575 Facility Site Leases	Other	WIP MANAGEMENT GROUP LLC	20,817	21,879				
3841	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000880	Site Lease - SUTTER BUTTES	Labor Internal	Not assigned						
3842	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000880	Site Lease - SUTTER BUTTES	Other	Not assigned	296,418	309,770	320,151	247,728	313,802	326,538
3843	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000880	Site Lease - SUTTER BUTTES	Other	TOR BROADCASTING CORP	25,283			56,298	28,982	30,530
3844	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000881	Site Lease - HIGHWAY CONTRA COSTA	Other	SONOMA COUNTY REGIONAL PARKS	114,312	153,067	143,510	165,264	184,800	118,800
3845	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3000882	Site Lease - SONOMA MTS	Other	SONOMA COUNTY REGIONAL PARKS	60,000					

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
3872	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3008909	Site Lease- MT ROSCOE	Other	INCLINE PARTNERS LLC	36,840	35,069	43,091	37,930	42,957	44,676
3873	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3014037	Site Lease- Clayton Hill	Other	EAST BAY REGIONAL PARK DISTRICT	66,500	99,750	79,800	79,800	79,800	13,300
3874	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3014857	American Tower Site Leases	Other	CELLCO PARTNERSHIP	770,941	1,022,311	1,022,107	864,661	1,132,678	1,299,695
3875	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3014857	American Tower Site Leases	Other	CELLCO PARTNERSHIP					500	500
3876	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3014857	American Tower Site Leases	Other	GTP INVESTMENTS LLC		25,564				
3877	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3014857	American Tower Site Leases	Other	KGI WIRELESS INC					2,500	
3878	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3014857	American Tower Site Leases	Other	Not assigned	(714)					
3879	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3014857	American Tower Site Leases	Other	VB-SI ASSETS LLC		34,274	42,613	44,548	46,330	48,715
3880	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3015638	Site Lease- BERRYESA PEAK	Other	COMSTES WEST LLC		14,978	15,429	15,892	16,369	
3881	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3015638	Site Lease- BERRYESA PEAK	Other	DOUGLAS D WIRTH				455		930
3882	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3015638	Site Lease- BERRYESA PEAK	Other	JAMES H WIRTH				457		477
3883	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3015638	Site Lease- BERRYESA PEAK	Other	JOHN L AND JANE FITZGERALD FAMILY		1,265	1,298	1,364	1,397	1,419
3884	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3015638	Site Lease- BERRYESA PEAK	Other	ROBERT B WIRTH		1,265	1,298			
3885	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3015638	Site Lease- BERRYESA PEAK	Other	TRANS SUCOR AGENCY OF NORTHERN			14,544	455		930
3886	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3015638	Site Lease- BERRYESA PEAK	Other	TRANS SUCOR AGENCY OF NORTHERN						
3887	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3015767	Site Lease- Fish Rock Rd, Gualala	Other	NATIVE MEDIA RESOURCE CTR		27,012	27,823	28,657	44,517	42,762
3888	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016057	Site Lease- MT JACKSON	Other	CRISTAL SMR INC		8,158	24,061	26,716	23,937	26,247
3889	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016317	Site Lease- Williams Hill	Other	STATE DEPT OF FORESTRY					933	984
3890	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016317	Site Lease- Williams Hill	Other	STATE OF CALIFORNIA DEPARTMENT OF		34,945	36,692	43,527	42,953	41,436
3891	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016337	Site Lease- Cambria AFS	Materials	BAY AREA TRAFFIC SOLUTIONS INC					(798)	
3892	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016337	Site Lease- Cambria AFS	Materials	HOFMANN SOUTHWEST CORP					(1,344)	
3893	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016337	Site Lease- Cambria AFS	Materials	LEWIS & THIBERTS INC					(6,153)	
3894	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016337	Site Lease- Cambria AFS	Materials	Not assigned	(478)		(3,237)	(13,669)		(794)
3895	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016337	Site Lease- Cambria AFS	Other	BKS CAMBRIA LLC			676	694	703	850
3896	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016337	Site Lease- Cambria AFS	Other	GLOBAL SIGNAL ACQUISITIONS IV LLC		34,522	39,120	44,165	40,386	45,765
3897	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016337	Site Lease- Cambria AFS	Other	Not assigned	(463)			10,111	(1,448)	(56)
3898	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016338	Site Lease- Piñacho Peak-Arroyo Grand	Other	BILLITA CORPORATION		7,796	8,930	9,845	10,317	10,899
3899	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016338	Site Lease- Piñacho Peak-Arroyo Grand	Other	REGINA DENNENLILL		1,299	1,488	1,562	1,640	1,722
3900	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016338	Site Lease- Piñacho Peak-Arroyo Grand	Other	WILLIAMS AND ADAM REANT		18,192	20,838	22,954	24,123	25,435
3901	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016357	Site Lease- San Hendrix	Other	CRISTAL SMR INC		8,444				
3902	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016357	Site Lease- San Hendrix	Other	FISHER WIRELESS SERVICES INC		13,349	22,152	17,106	16,101	18,392
3903	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016377	TF Facility Site Lease- San Leandro Hill	Materials	HELMENDORF CONSULTING INC				(769)		21,651
3904	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016377	TF Facility Site Lease- San Leandro Hill	Materials	ARCUS US INC				(81)		
3905	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016377	TF Facility Site Lease- San Leandro Hill	Materials	Not assigned	(160)		(1,970)			
3906	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016377	TF Facility Site Lease- San Leandro Hill	Materials	PRN INTERMEDIATE HOLDCO INC & SUBS				(1,773)		
3907	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016377	TF Facility Site Lease- San Leandro Hill	Other	COUNTY OF ALAMEDA		53,369	68,893	43,163	53,872	57,036
3908	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016377	TF Facility Site Lease- San Leandro Hill	Other	Not assigned	(15)		(251)			63,872
3909	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016467	Manzanita Lake-TANC Site Lease	Materials	Not assigned					(3,864)	
3910	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016467	Manzanita Lake-TANC Site Lease	Other	Not assigned				(255)		
3911	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3016467	Manzanita Lake-TANC Site Lease	Other	TRANSMISSION AGENCY OF NORTHERN		21,246	20,324	20,918	21,531	22,127
3912	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3017617	TF Facility Site Lease- Buckingham Peak	Other	COUNTY OF LAKE		31,303	35,047	24,155	32,149	42,203
3913	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3018777	Site Leases- Nadenen Peak	Other	COUNTY OF CONTRA COSTA		63,154	63,154			
3914	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3023200	TF Facility Site Lease- Cal Mountain	Other	PAUL L WATTS JR				18,540	19,096	19,669
3915	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3024097	TF Facility Site Lease- Keddie Ridge	Other	CANONICAL BROADCASTING INC			1,550	10,500	8,272	20,258
3916	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3024097	TF Facility Site Lease- Keddie Ridge	Other	SIERRA PACIFIC INDUSTRIES				1,000		1,000
3917	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3024217	TF Facility Site Lease- Boonville	Other	CROWN CASTLE INTERNATIONAL		1,898	23,117	23,826	28,456	25,317
3918	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3025467	TF Facility Site Lease- Mt Elizabeth	Other	ANN ELIZABETH NATIONW TRUST				11,950	11,950	11,950
3919	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	3025468	TF Facility Site Lease- Creeview	Other	CALIFORNIA WATER SERVICE COMPANY				1,803	23,541	23,121
3920	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70027377	Site Lease- Santa Ynez Peak	Other	BNS ELECTRONICS INC		345	1,277	32,179	33,329	37,555
3921	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70027377	Site Lease- Santa Ynez Peak	Other	MICHAEL PHINN						
3922	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70027378	Site Lease- Tpusquet Peak	Other	CAT CANYON RESOURCES LLC						33,746
3923	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70027378	Site Lease- Tpusquet Peak	Other	ERG RESOURCES LLC			30,000	31,200	32,448	
3924	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70027378	Site Lease- Tpusquet Peak	Other	TERACORE OPERATING COMPANY LLC					32,448	33,746
3925	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70028724	Site Lease- Honolulu Hills	Other	HONOLULU HILLS HOLDINGS LLC		19,055	19,627	20,215	20,822	22,090
3926	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70031641	Site Lease- Mt Barham	Other	SBA 2013-10		8,400	11,844	5,200	16,590	15,084
3927	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	Not assigned						242
3928	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	ADAM BUTSCH						2,750
3929	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	BECKMAN KINNEY TELECOM LLC						3,698
3930	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	BILLITA CORPORATION						905
3931	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	BNS ELECTRONICS INC						3,023
3932	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	CALIFORNIA HIGHWAY PATROL						1,260
3933	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	CROWN CASTLE INTERNATIONAL						1,091
3934	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	DELVA ROBERTS SOUZA		2,216	2,464	2,514	2,564	2,615
3935	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	ELIZABETH DEAN BUTSCH		2,216	2,464	2,514	2,564	2,615
3936	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	ERNST & YOUNG		2,216	2,464	2,514	2,564	2,615
3937	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	GLOBAL SIGNAL ACQUISITIONS IV LLC						3,914
3938	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	INCLINE PARTNERS LLC						3,796
3939	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	MIKE I MAPLE		2,216	2,464	2,514	2,564	2,615
3940	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	MONTICITY COUNTRY						2,305
3941	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	NATHAN DEAN BUTSCH						2,529
3942	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	SBA 2012 TC ASSETS LLC						1,277
3943	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	SHIRLEY SUTTLE			2,216	2,464	2,514	2,564
3944	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	US COAST GUARD FINANCE CENTER						2,170
3945	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	VB-SI ASSETS LLC						2,170
3946	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	VICTOR R ROBERTS		2,216	2,464	2,514	2,564	2,615
3947	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70032907	Site Lease-Alcaldie Hill	Other	WILLIAMS AND ADAM REANT						2,111
3948	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70033140	Site Lease- Round Mountain KERN	Other	Not assigned						242
3949	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70033140	Site Lease- Round Mountain KERN	Other	WHITEASH BROADCASTING INC			14,400	14,400	14,400	14,400
3950	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70038045	Site Lease- Carmel Valley/Roberts Knoll	Other	Not assigned						242
3951	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70038045	Site Lease- Carmel Valley/Roberts Knoll	Other	MONTICITY COUNTRY				14,383	13,546	13,817
3952	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70038046	Site Lease- Rocks Road	Other	Not assigned				411		
3953	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70038046	Site Lease- Rocks Road	Other	CROWN CASTLE INTERNATIONAL				12,860	12,731	12,020
3954	Network Telecommunication Leases	5014907	CF Site Leases (Other Land Fees)	70042400	Site Lease- Meadow Lakes	Other	BECKMAN & KINNEY TELECOM LLC						43,301
3955	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3006857	Data Network Leases	Other	AT&T		604,715	301,343	220,507	204,305	218,861
3956	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3006857	Data Network Leases	Other	CHARTER COMMUNICATIONS			115,952	106,917	124,994	124,957
3957	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3006857	Data Network Leases	Other	CHARTER COMMUNICATIONS HOLDINGS						7,781
3958	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3006857	Data Network Leases	Other	CHARTER COMMUNICATIONS HOLDINGS		32,459	32,074	36,926	37,783	37,603
3959	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3006857	Data Network Leases	Other	CVIM LLC				42,036	45,600	45,600
3960	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3006857	Data Network Leases	Other	DIGITALPATH INC						1,865
3961	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3006857	Data Network Leases	Other	FRONTIER COMMUNICATIONS			15,150	6,113		
3962	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3006857	Data Network Leases	Other	FRONTIER COMMUNICATIONS				11,907	19,661	24,388
3963	Network Telecommunication Leases	5017149	Voice/Transport										

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
3986	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3008858	Voice Network Leases	Other	LEVEL 3 COMMUNICATIONS LLC	6,224	9,040	1,889	554		
3987	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3008858	Voice Network Leases	Other	Not assigned						4,273
3988	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	AT&T	255,512	226,263	197,323	171,407	154,476	135,826
3989	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	CHARTER COMMUNICATIONS						2,632
3990	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	COMCAST				7,034	7,513	6,934
3991	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	FRONTIER	47,045	21,261				
3992	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	FRONTIER COMMUNICATIONS			51,810	48,903	46,572	42,585
3993	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	FRONTIER COMMUNICATIONS OF AMERICA	31,408	7,995				
3994	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	GLOBAL CROSSING TELECOMMUNICATIONS	1	(6)				
3995	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	LEVEL 3 COMMUNICATIONS LLC	17,323	18,673	16,699	13,029	50,233	53,759
3996	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	Not assigned	107,143	107,143				35,714
3997	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	PONDEROSA TELEPHONE CO	3,708	3,611	3,623	3,499	3,332	
3998	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	VERIZON CALIFORNIA	16,778	1,129				4,968
3999	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3041177	Data/Voice Combo Leases	Other	X2MAG INC	2,545	1,279	800	3,312	4,968	4,968
4000	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3015697	Comcast/Atsoud Data Network Leases	Other	AT&T	464	494	524	540		540
4001	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3015697	Comcast/Atsoud Data Network Leases	Other	COMCAST	604,529	577,000	666,529	673,989	664,297	613,408
4002	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3015697	Comcast/Atsoud Data Network Leases	Other	COMCAST CABLE COMMUNICATIONS				2,760	1,624	
4003	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3015697	Comcast/Atsoud Data Network Leases	Other	Not assigned	1,494		8,193			48
4004	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3015697	Comcast/Atsoud Data Network Leases	Other	WAVE DIV HOLDINGS LLC			13,800	17,393	19,421	17,463
4005	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3016598	Dark Fiber Small Dollar Leases	Other	INTEGRA TELECOM	14,124	14,124	6,081			
4006	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3016598	Dark Fiber Small Dollar Leases	Other	LEVEL 3 COMMUNICATIONS LLC			8,000	12,000	12,000	23,614
4007	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3016598	Dark Fiber Small Dollar Leases	Other	SUREWEST	65,760	65,760	65,836	65,700	65,991	
4008	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3016598	Dark Fiber Small Dollar Leases	Other	WAVE DIV HOLDINGS LLC			4,000	5,740	6,440	6,496
4009	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3016598	Dark Fiber Small Dollar Leases	Other	ZAYO GROUP HOLDINGS INC			8,785	15,633	16,044	16,302
4010	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3016617	Broadband - Leased Fiber	Contract	(34,182)						
4011	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3016617	Broadband - Leased Fiber	Contract	Not assigned						(1,349)
4012	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3016617	Broadband - Leased Fiber	Other	Not assigned	35,213	21,225	25,132	23,392	24,072	12,759
4013	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3016617	Broadband - Leased Fiber	Other	U S FISH AND WILDLIFE SERVICE						27,000
4014	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3017997	AT&T Data Network Leases	Other	AT&T Data Network Leases	63,856	68,101	77,609	82,466	121,845	288,253
4015	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	3017997	AT&T Data Network Leases	Other	Not assigned	5,305					25,516
4016	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	70028820	2018 Linksource Lease Savings Agmt	Labor External	LINKSOURCE TECHNOLOGIES LLC			280,000	144,000	233,625	57,814
4017	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	70028820	2018 Linksource Lease Savings Agmt	Labor External	SHI INTERNATIONAL CORP						
4018	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	70028820	2018 Linksource Lease Savings Agmt	Labor External	TANGISX LLC INC						20,087
4019	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	70028820	2018 Linksource Lease Savings Agmt	Labor Internal	Not assigned	22					
4020	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	70028820	2018 Linksource Lease Savings Agmt	Other	AT&T	(150,000)					
4021	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	70028820	2018 Linksource Lease Savings Agmt	Other	LINKSOURCE TECHNOLOGIES LLC	173,431		(2,800)	(1,080)	(2,403)	(588)
4022	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	70028820	2018 Linksource Lease Savings Agmt	Other	Not assigned			2,800	720		
4023	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	8183403	AIS (SNGS - Zayo Transport)	Other	Not assigned					2,575,098	(705,199)
4024	Network Telecommunication Leases	5017149	Voice/Transport Fiber/Circuit Leases	8183403	AIS (SNGS - Zayo Transport)	Other	ZAYO GROUP HOLDINGS INC					1,493,659	1,554,003
4025	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	AT&T	10,279	7,422	7,441	7,112	5,809	3,553
4026	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	BRANDI WHITING						
4027	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	COMCAST			2,873	4,273	13,403	16,508
4028	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	COMCAST CORPORATION			2,583	2,144		
4029	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	DIRECTV	2,389					
4030	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	DIRECTV LLC	832	4,103	4,213	4,420	4,520	4,601
4031	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	FRONTIER	38					
4032	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	LEVEL 3 COMMUNICATIONS LLC	0					
4033	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	Not assigned						1,229
4034	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	SATCOM GLOBAL FZE	53					
4035	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	SPRINT			18,623			
4036	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	VERIZON BUSINESS NETWORK SERVICES			42	10,863	17,181	12,563
4037	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	VERIZON CALIFORNIA	214					11,155
4038	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029862	LOB -Tele Usage/Leases GRC -Corp Affairs	Other	VERIZON WIRELESS						
4039	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	AT&T	2,398	1,284				
4040	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	2,800,811.7	2,488,553	2,320,659	2,358,685	1,967,481	1,597,935	
4041	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	AT&T CORP	63,797	67,732	62,371	65,128	44,245	54,569
4042	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	COMCAST	18,864	21,623	23,590	23,054	22,539	26,462
4043	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	DIRECTV PUBLISHING SOLUTIONS INC	1,223	1,212	1,594	1,230	1,212	1,214
4044	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	DIRECTV	261					
4045	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	DIRECTV LLC	163	587	595	657	676	706
4046	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	FRONTIER	14,655	6,473				
4047	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	FRONTIER COMMUNICATIONS			17,453	17,207	17,422	14,185
4048	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	GLOBAL CROSSING TELECOMMUNICATIONS	24,694	(2,106)				
4049	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	IDEXX MEDIA CORP	2,019					
4050	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	IRIDIUM TELEPHONE CO		4,580	4,215	4,225	4,311	(500)
4051	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	LANGUAGE LINE SERVICES LLC	11	3				
4052	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	LEVEL 3 COMMUNICATIONS LLC			24,570	10,472	6,631	4,967
4053	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	Not assigned			416			1,937
4054	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	PACIFIC BELL TELEPHONE COMPANY	2,718	2,525	1,331	1,634	1,634	1,571
4055	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	PONDEROSA TELEPHONE CO	1,019	419	421	421	418	387
4056	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	SERRA TELEPHONE CO INC	605	601	705	709	712	728
4057	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	SPRINT	244	198	13			
4058	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	VERIZON CALIFORNIA	898	794	530	552	1,130	
4059	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	SUREWEST DIRECTORIES	1,020	524	480	480	480	480
4060	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	VERIZON CALIFORNIA	5,312					
4061	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029864	LOB -Tele Usage/Leases GRC -CustCar -Co	Other	VR LLC		3,069				
4062	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	AT&T	959,789	951,903	970,821	825,816	818,122	817,931
4063	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	AT&T INC			(1)			
4064	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	BOARD OF TRUSTEES OF THE LELAND CALABRIS TELEPHONE CO	480	480	480	483	494	484
4065	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	CHARTER COMMUNICATIONS	476	472	517	550	553	567
4066	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	CITY AND COUNTY OF SAN FRANCISCO						180
4067	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	COMCAST	906	914	1,037	83		
4068	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	COMCAST CABLE COMMUNICATIONS				972	1,101	1,699
4069	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	DIRECTV	261					
4070	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	DIRECTV LLC	163	587	599	657	676	706
4071	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	FRONTIER	101,839					
4072	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	FRONTIER COMMUNICATIONS		88,399	121,098	96,836	88,481	101,012
4073	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	GLOBAL CROSSING TELECOMMUNICATIONS	17,856	(1,594)				
4074	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri	Other	HUNTERDON UNIVERSITY	2,122	594		24	24	36
4075	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029865	LOB -Tele Usage/Leases GRC -CustCar-Meteri								

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
4100	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029868	LOB Tele Usage/Leases GRC - Law	Other	COMCAST					12,964	5,482
4101	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029868	LOB Tele Usage/Leases GRC - Law	Other	GLOBAL CROSSING TELECOMMUNICATIONS	139	(14)				
4102	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029868	LOB Tele Usage/Leases GRC - Law	Other	LEVEL 3 COMMUNICATIONS LLC		113	230	141	1,876	364
4103	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029868	LOB Tele Usage/Leases GRC - Law	Other	Not assigned						261
4104	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029869	LOB Tele Usage/Leases GRC - Nuclear PwrG	Other	AT&T	206,225	103,449	126,786	131,476	113,583	82,319
4105	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029869	LOB Tele Usage/Leases GRC - Nuclear PwrG	Other	CEQUEL COMMUNICATIONS LLC	3,779	3,779	3,797	2,542		
4106	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029869	LOB Tele Usage/Leases GRC - Nuclear PwrG	Other	CHARTER COMMUNICATIONS				34,814	37,316	36,866
4107	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029869	LOB Tele Usage/Leases GRC - Nuclear PwrG	Other	FRONTIER	404	201				
4108	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029869	LOB Tele Usage/Leases GRC - Nuclear PwrG	Other	FRONTIER COMMUNICATIONS			405	614	647	658
4109	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029869	LOB Tele Usage/Leases GRC - Nuclear PwrG	Other	GLOBAL CROSSING TELECOMMUNICATIONS	568	(43)				681
4110	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029869	LOB Tele Usage/Leases GRC - Nuclear PwrG	Other	LEVEL 3 COMMUNICATIONS LLC		665	778	648	395	298
4111	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029869	LOB Tele Usage/Leases GRC - Nuclear PwrG	Other	Not assigned						7,605
4112	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029869	LOB Tele Usage/Leases GRC - Nuclear PwrG	Other	VERIZON CALIFORNIA	200					
4113	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029869	LOB Tele Usage/Leases GRC - Nuclear PwrG	Other	VERIZON WIRELESS	145	1,966	1,771	2,567	3,159	2,844
4114	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029870	LOB Tele Usage/Leases GRC - PG&E Corp	Other	AT&T	147					
4115	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029870	LOB Tele Usage/Leases GRC - PG&E Corp	Other	Not assigned	(147)					
4116	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029871	LOB Tele Usage/Leases GRC - Reg Affairs	Other	AT&T	37,123	34,052	34,058	35,717	36,355	36,091
4117	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029871	LOB Tele Usage/Leases GRC - Reg Affairs	Other	GLOBAL CROSSING TELECOMMUNICATIONS	0					
4118	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029871	LOB Tele Usage/Leases GRC - Reg Affairs	Other	LEVEL 3 COMMUNICATIONS LLC		0				
4119	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029871	LOB Tele Usage/Leases GRC - Reg Affairs	Other	Not assigned	0					2,958
4120	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	AT&T	210,272	217,147	251,762	269,172	260,483	235,706
4121	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	CHARTER COMMUNICATIONS						1,251
4122	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	COMCAST	6,288	7,208	7,863	17,362	16,823	15,568
4123	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	DIRECTV LLC					1,806	2,970
4124	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	FRONTIER	11,240	4,627				
4125	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	FRONTIER TELEPHONE CO INC		8,155	12,384	13,039	13,386	13,197
4126	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	GLOBAL CROSSING TELECOMMUNICATIONS	1,363	(27)				
4127	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	JAROTH INC	936	936	936	858	1,014	858
4128	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	NOT AIRC BELL TELEPHONE CO	291					
4129	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	LEVEL 3 COMMUNICATIONS LLC		504	690	568	492	1,161
4130	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	Not assigned				14	617	21,035
4131	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	PACIFIC BELL TELEPHONE COMPANY			669	1,181	1,522	1,763
4132	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	PONDEROSA TELEPHONE CO	2,262	2,243	2,502	2,517	2,455	2,364
4133	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	SERRA TELEPHONE CO INC	1,816	1,803	2,115	2,034	1,424	1,457
4134	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	SURWEST	8,848	2,042	2,522	3,201	3,347	3,060
4135	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	VERIZON CALIFORNIA	3,448					
4136	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	VERIZON WIRELESS	29	489	447	542	1,139	715
4137	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029872	LOB Tele Usage/Leases GRC - Safety SS	Other	XZNSAT INC				24,179	24,203	23,208
4138	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029878	LOB Tele Usage/Leases GRC - Elec Distrib	Other	AT&T	360,805	365,617	343,424	356,505	370,468	409,420
4139	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	BRIGHT HOUSE NETWORKS LLC		1,606	1,611	1,766	1,796	
4140	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	CHARTER COMMUNICATIONS	2,520	2,520	2,310	2,520	1,614	1,580
4141	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	CHARTER COMMUNICATIONS HOLDINGS LLC					11,071	20,107
4142	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	COMCAST	4,395			1,812	20,375	20,538
4143	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	CVN LLC			7,077	8,400	8,400	8,400
4144	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	DIRECTV	542					
4145	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	DIRECTV LLC	272	871	851	690	850	914
4146	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	FRONTIER	62,117	29,931				
4147	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	FRONTIER COMMUNICATIONS		43,583	33,266	30,862	30,990	28,376
4148	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	FRONTIER COMMUNICATIONS OF AMERICA		3,465				
4149	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	GLOBAL CROSSING TELECOMMUNICATIONS	2,252	(133)				
4150	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	LEVEL 3 COMMUNICATIONS LLC	2,400	2,400		200		
4151	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	LEVEL 3 COMMUNICATIONS LLC		1,589	1,671	1,163	550	418
4152	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	MEDICAM COMMUNICATIONS CORP	1,785	1,920	2,107	2,336	2,184	2,203
4153	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	Not assigned	586	294	538	586	112	44,700
4154	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	NOT AIRC BELL TELEPHONE COMPANY	1,569	977	1,811	1,698	1,698	320
4155	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	PONDEROSA TELEPHONE CO	763	577	675	679	663	641
4156	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029878	LOB Tele Usage/Leases GRC - Elec Distrib	Other	SERRA TELEPHONE CO INC	6,054	6,013	7,049	6,905	5,994	6,555
4157	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	SURWEST	19,568	19,568	19,568	19,571	19,568	19,568
4158	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	VERIZON CALIFORNIA	24,235					
4159	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	VERIZON WIRELESS	3,639	18,464	34,840	61,520	117,795	117,534
4160	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	WAM DTV HOLDINGS LLC		4,400	4,800	4,992	5,440	5,910
4161	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70029879	LOB Tele Usage/Leases GRC - Elec Distrib	Other	XZNSAT INC				24,658	24,658	24,658
4162	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	AT&T	406,138	386,167	400,460	565,019	685,307	723,609
4163	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	AT&T MOBILITY LLC				51	617	610
4164	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	CALIFORNIA TELEPHONE CO	1,848	1,833	1,856	1,870	1,873	1,905
4165	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	CEQUEL COMMUNICATIONS LLC	5,777	5,384	5,428	7,537	6,925	8,449
4166	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	CHARTER COMMUNICATIONS HOLDINGS LLC						65,389
4167	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	COMCAST	251				21,585	24,610
4168	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	DIRECTV	2,767					
4169	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	DIRECTV LLC	937	3,933	11,537	10,903	11,404	12,119
4170	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	FRONTIER	94,857	46,245	671	482		
4171	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	FRONTIER COMMUNICATIONS		73,301	115,337	110,210	109,344	100,291
4172	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	GLOBAL CROSSING TELECOMMUNICATIONS	197	(22)				
4173	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	HUGHES NETWORK SYSTEMS LLC				14,146	14,430	5,815
4174	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	KERMAN TELEPHONE CO			2,692	2,217	446	686
4175	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	LEVEL 3 COMMUNICATIONS LLC		161	74	90	153	506
4176	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	Not assigned		8	547	1,743	1,397	63,244
4177	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	PACIFIC BELL TELEPHONE COMPANY						960
4178	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	PONDEROSA TELEPHONE CO	592	577	675	679	663	641
4179	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	REGENTS OF UC	120	120	120	120	110	110
4180	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	SERRA TELEPHONE CO INC	605	601	705	709	712	728
4181	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	SURWEST	1,389	1,342	1,440	1,405	37,429	40,827
4182	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	VERIZON BUSINESS NETWORK SERVICES			5,772	6,481	3,165	2,106
4183	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	VERIZON CALIFORNIA	24,496					
4184	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	VERIZON WIRELESS	120	757	1,113	1,927	17,597	20,800
4185	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030020	LOB Tele Usage/Leases GRC - Elec Transm	Other	VOLCANO TELEPHONE CO	590	630	634	638	641	657
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Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
4214	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	COMCAST	6,288	12,010	11,570	11,348	16,326	23,050
4215	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	DIRECTV	2,436					
4216	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	DIRECTV LLC	1,173	3,658	3,725	3,513	3,943	4,100
4217	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	FRONTIER	98,521					
4218	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	FRONTIER COMMUNICATIONS		102,087	149,833	130,011	112,555	107,029
4219	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	FRONTIER COMMUNICATIONS OF AMERICA		17,218				
4220	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	GLOBAL CROSSING TELECOMMUNICATIONS	1,853	(133)				
4221	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	KIRKMAN TELEPHONE CO	1,974	2,256	2,656	2,672	2,686	2,576
4222	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	KYLE TILLET		23,988	23,988	51,000		24,000
4223	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	LEVEL 3 COMMUNICATIONS LLC	25	2,070	2,128	1,057	778	714
4224	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	Not assigned	19	411		44	110	46,107
4225	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	PACIFIC BELL TELEPHONE COMPANY	(60)					
4226	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	SUREWEST	3,114	2,104	2,100	1,183	1,235	891
4227	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	UNIVIEW BROADBAND INC						2,772
4228	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	VERIZON BUSINESS NETWORK SERVICES	23,453	19,783	18,809	17,953	7,847	4,441
4229	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	VERIZON CALIFORNIA	21,171					
4230	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	VERIZON WIRELESS	115	2,903	3,593	4,222	16,847	56,756
4231	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030023	LOB-Tele Usage/Leases GRC -Gas Distributi	Other	XFINITY				23,308	41,204	36,104
4232	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030024	LOB-Tele Usage/Leases GRC -Ofc of Chairma	Other	AT&T	1,205	1,398	1,435	1,434	1,358	1,318
4233	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030024	LOB-Tele Usage/Leases GRC -Ofc of Chairma	Other	Not assigned						118
4234	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Contract	CANUS CORPORATION	386					
4235	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Labor External	Not assigned	21	963	223		242	
4236	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Labor Internal	Not assigned	3,192	820	244	5,011		86
4237	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	AT&T	151,568	193,708	299,391	317,195	324,505	561,066
4238	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	AT&T COMP						0
4239	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	AT&T MOBILITY LLC						5,367
4240	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	BRIGHT HOUSE NETWORKS LLC						0
4241	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	CALVERAST TELEPHONE CO	1,503	1,624	1,630	2,287	1,628	1,643
4242	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	CHARTER COMMUNICATIONS	2,760	2,760	2,529	2,198	8,972	10,244
4243	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	CHARTER COMMUNICATIONS HOLDING LLC	1,627				9,634	10,257
4244	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	CHARTER COMMUNICATIONS HOLDINGS LLC						0
4245	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	CITIZENS TELECOMMUNICATIONS	2,849					0
4246	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	COMCAST	2,893	29,734	18,636	16,749	15,026	31,672
4247	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	COMCAST CABLE COMMUNICATIONS				2,129	3,198	2,939
4248	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	COMCAST CORPORATION	1,773	1,219				
4249	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	CONTINUANT INC	1,784	293	879			
4250	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	DIRECTV	971					
4251	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	DIRECTV LLC	1,004	2,294	2,294	2,743	824	288
4252	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	EQUNIX INC			18,705	27,117	52,320	56,742
4253	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	FRONTIER	13,093	5,138				
4254	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	FRONTIER COMMUNICATIONS		10,275	15,076	15,081	15,012	15,248
4255	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	GLOBAL CROSSING TELECOMMUNICATIONS	5,843	(456)				
4256	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	HYPERCORE NETWORKS INC						0
4257	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	INTEGRATA TELECOM		419	419	450	512	171
4258	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	INTRADO ENTERPRISE COLLABORATION						125
4259	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	LEVEL 3 COMMUNICATIONS LLC	33,091	5,413	3,705	7,324	30,652	190,829
4260	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	Not assigned	(209,141)	(2,827)		1,633	(411)	53,101
4261	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	PACIFIC BELL TELEPHONE COMPANY						0
4262	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	PLUMAS SIERRA TELECOMMUNICATIONS			2,699	2,716	2,446	3,801
4263	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	PONDEROSA TELEPHONE CO	2,366	2,309		2,716	2,446	3,801
4264	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	SERRA TELEPHONE CO INC	1,160	1,202	1,410	1,325	712	728
4265	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	SPRINT	23,653	6,423				
4266	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	SUREWEST						0
4267	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	TW TELECOM	3,261	3,238	3,208	3,343	3,403	3,491
4268	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	UNIVIEW BROADBAND INC	8,974					5,500
4269	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	US TELEFACIFIC CORP					236	
4270	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	VERIZON BUSINESS NETWORK SERVICES	192,073	33,767	30,066	30,121	29,828	39,912
4271	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	VERIZON CALIFORNIA	1,594					
4272	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	VERIZON WIRELESS	134	6,407	2,374	3,187	4,123	15,694
4273	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	VOLCANO TELEPHONE CO	541	630	634	638	641	134
4274	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	WAVE OPT HOLDINGS LLC	32,400	11,400				11,550
4275	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	XFINITY	9,650	13,993	15,712	29,086	32,310	37,732
4276	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	ZATO GROUP HOLDINGS INC					7,672	7,818
4277	Network Telecommunication Leases	5034675	LOB Tele Usage and Leases-GRC	70030180	LOB-Tele Usage/Leases GRC -IT	Other	Radio Leases	67					
4278	Network Telecommunication Leases	5034712	Radio Circuit Leases (EUS)	70030009	Radio Leases	Labor Internal	Not assigned						
4279	Network Telecommunication Leases	5034712	Radio Circuit Leases (EUS)	70030009	Radio Leases	Other	AT&T	188,453	187,176	166,292	165,481	153,998	147,661
4280	Network Telecommunication Leases	5034712	Radio Circuit Leases (EUS)	70030009	Radio Leases	Other	CITIZENS TELECOMMUNICATIONS	15,026	16,811	18,502	22,206	25,411	30,099
4281	Network Telecommunication Leases	5034712	Radio Circuit Leases (EUS)	70030009	Radio Leases	Other	FRONTIER	13,102	7,257				
4282	Network Telecommunication Leases	5034712	Radio Circuit Leases (EUS)	70030009	Radio Leases	Other	FRONTIER COMMUNICATIONS	17,192	17,192	23,659	24,614	25,500	25,810
4283	Network Telecommunication Leases	5034712	Radio Circuit Leases (EUS)	70030009	Radio Leases	Other	LEVEL 3 COMMUNICATIONS LLC				0		
4284	Network Telecommunication Leases	5034712	Radio Circuit Leases (EUS)	70030009	Radio Leases	Other	Not assigned				(52)		
4285	Network Telecommunication Leases	5034712	Radio Circuit Leases (EUS)	70030009	Radio Leases	Other	PONDEROSA TELEPHONE CO	6,126	13,185	13,231	13,227	12,778	12,168
4286	Network Telecommunication Leases	5034712	Radio Circuit Leases (EUS)	70030009	Radio Leases	Other	VERIZON CALIFORNIA						
4287	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	AT&T	1,104,292	1,021,451	1,022,628	1,154,927	1,168,592	1,416,023
4288	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	CALVERAST TELEPHONE CO				2		
4289	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	CHARTER COMMUNICATIONS					50	
4290	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	CHARTER COMMUNICATIONS HOLDING LLC				250		
4291	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	COMCAST	1,492		445		2,852	
4292	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	COMCAST CABLE COMMUNICATIONS					325	
4293	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	DIRECTV LLC				80	463	
4294	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	FRONTIER	86,234	31,512				
4295	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	FRONTIER COMMUNICATIONS		44,016	47,925	34,728	33,614	22,881
4296	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	GLOBAL CROSSING TELECOMMUNICATIONS	171,833	(16,366)				
4297	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	INTRADO ENTERPRISE COLLABORATION	29	39				
4298	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	LEVEL 3 COMMUNICATIONS LLC	321,649	220,190	132,578	96,771	55,886	21,164
4299	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	Not assigned	(5,546)	(293)	(3,189)	25,624	(8,243)	
4300	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	PACIFIC BELL TELEPHONE COMPANY						
4301	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	PIONEER TELEPHONE	11	12				
4302	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DCO - Leases	Other	PONDEROSA TELEPHONE CO	29,972	31,735	29,381	29,074	29,459	26,871
4303	Network Telecommunication Leases	5034717	Telephony Fiber Circuit Leases (EUS)	70030010	DID/DC								

Line #	Baseline O&M Non-Labor Category	Planning Order	Planning Order Description	Order	Order Description	Cost Element Major Resource Group	Vendor Name	2016	2017	2018	2019	2020	2021
4328	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017567	Temp Order - SmartMeter Ops- Electric T	Other	AT&T MOBILITY LLC	774,332	704,155	523,750	257,681	256,895	202,044
4329	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017567	Temp Order - SmartMeter Ops- Electric T	Other	Not assigned	67,839					48,959
4330	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017567	Temp Order - SmartMeter Ops- Electric T	Other	VERIZON WIRELESS	157,082	293,525	234,227	250,807	275,083	416,415
4331	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017568	Temp Order SmartMeter Ops- Gas Telephone	Labor Internal	Not assigned	98					
4332	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017568	Temp Order SmartMeter Ops- Gas Telephone	Other	AT&T MOBILITY LLC	275,133	148,709	151,550	(65,504)	176,181	222,986
4333	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017568	Temp Order SmartMeter Ops- Gas Telephone	Other	Not assigned	19,059					56,617
4334	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017568	Temp Order SmartMeter Ops- Gas Telephone	Other	VERIZON WIRELESS	589,642	453,404	496,637	540,853	580,708	452,703
4335	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017571	TEMP ORDER SmartMeter Ops- DCU Energy U	Labor Internal	Not assigned	586		719			50
4336	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017571	TEMP ORDER SmartMeter Ops- DCU Energy U	Other	CHELYR GRANT			92			
4337	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017571	TEMP ORDER SmartMeter Ops- DCU Energy U	Other	CITY OF SANTA CLARA					3,420	
4338	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017571	TEMP ORDER SmartMeter Ops- DCU Energy U	Other	MOORE IRRIGATION DISTRICT	8,910	9,044	8,955	8,334	7,637	10,875
4339	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017571	TEMP ORDER SmartMeter Ops- DCU Energy U	Other	RAVI S NAIR				784		
4340	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017571	TEMP ORDER SmartMeter Ops- DCU Energy U	Other	SACRAMENTO MUNICIPAL UTILITY DIST	5,567	5,575	6,051	5,799	5,785	8,228
4341	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017571	TEMP ORDER SmartMeter Ops- DCU Energy U	Other	SOUTHERN CALIFORNIA EDISON			800			
4342	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017571	TEMP ORDER SmartMeter Ops- DCU Energy U	Other	SOUTHERN CALIFORNIA EDISON CO						8,119
4343	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017571	TEMP ORDER SmartMeter Ops- DCU Energy U	Other	TURLOCK IRRIGATION DISTRICT	6,679	7,716	18,476	6,719	6,525	12,767
4344	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017940	SmartMeter - Data Circuit Leases	Labor Internal	Not assigned	143					
4345	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017940	SmartMeter - Data Circuit Leases	Other	AT&T	33,831	61,784	65,110	67,193	46,703	36,501
4346	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017940	SmartMeter - Data Circuit Leases	Other	HUGHES NETWORK SYSTEMS LLC	738,368	594,275	634,251	642,146	433,908	
4347	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017940	SmartMeter - Data Circuit Leases	Other	LEVEL 3 COMMUNICATIONS LLC	44,318	86,159	86,768	87,330	82,512	65,088
4348	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017940	SmartMeter - Data Circuit Leases	Other	Not assigned	205,108					13,626
4349	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017940	SmartMeter - Data Circuit Leases	Other	TW TELECOM	4,971					
4350	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017940	SmartMeter - Data Circuit Leases	Other	VERIZON BUSINESS NETWORK SERVICES	159,018	192,293	197,968	200,592	147,782	123,560
4351	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017940	SmartMeter - Data Circuit Leases	Other	VERIZON WIRELESS	268	221	61	61	61	61
4352	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70017940	SmartMeter - Data Circuit Leases	Other	XZNGAT INC	1,649					
4353	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70019520	SM 3rd Party Structure Contracts	Other	CITY OF SANTA CLARA	2,175					
4354	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70019520	SM 3rd Party Structure Contracts	Other	COUNTY OF SACRAMENTO	6,563					
4355	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70019520	SM 3rd Party Structure Contracts	Other	SOUTHERN CALIFORNIA EDISON	2,202					
4356	Network Telecommunication Leases	5233492	SmartMeter Telephony - Leases	70045443	SmartMeter Telephony - Leases	Other	NOT YUICAVILLE						1,022
4357	Network Telecommunication Leases	5236042	Tram Fiber/Circuit Lease - DCCP	2028305	DCCP-Circuit Leases	Other	AT&T	146,245	104,369	106,720	99,312	83,608	76,281
4358	Network Telecommunication Leases	5236042	Tram Fiber/Circuit Lease - DCCP	2028305	DCCP-Circuit Leases	Other	FRONTIER COMMUNICATIONS			90	543	541	541
4359	Network Telecommunication Leases	5236042	Tram Fiber/Circuit Lease - DCCP	2028305	DCCP-Circuit Leases	Other	Not assigned						6,844
4360	Network Telecommunication Leases	5236042	Tram Fiber/Circuit Lease - DCCP	2028305	DCCP-Circuit Leases	Other	VERIZON CALIFORNIA	192					
4361	Network Telecommunication Leases	5236042	Tram Fiber/Circuit Lease - DCCP	70027725	DCCP-Usage	Labor Internal	Not assigned	134					
4362	Network Telecommunication Leases	5236042	Tram Fiber/Circuit Lease - DCCP	8092409	DCCP-Usage	Other	AT&T	168,962	124,019	144,662	161,264	180,662	241,985
4363	Network Telecommunication Leases	5236042	Tram Fiber/Circuit Lease - DCCP	8092409	DCCP-Usage	Other	AT&T MOBILITY LLC						
4364	Network Telecommunication Leases	5236042	Tram Fiber/Circuit Lease - DCCP	8092409	DCCP-Usage	Other	GLOBAL CROSSING TELECOMMUNICATIONS	4,624	(363)				
4365	Network Telecommunication Leases	5236042	Tram Fiber/Circuit Lease - DCCP	8092409	DCCP-Usage	Other	LEVEL 3 COMMUNICATIONS LLC		5,016	5,446	6,363	14,506	10,219
4366	Network Telecommunication Leases	5236042	Tram Fiber/Circuit Lease - DCCP	8092409	DCCP-Usage	Other	Not assigned						21,703
4367	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	AT&T	871,212	796,720	719,554	584,191	507,397	437,146
4368	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	AT&T MOBILITY LLC	11,438	4,464	(890)			
4369	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	CALVERAS TELEPHONE CO	15,155	15,004	14,584	12,926	8,656	8,734
4370	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	FRONTIER	64,956	30,145				
4371	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	FRONTIER COMMUNICATIONS	59,082	76,854	36,693	30,955	27,615	
4372	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	FRONTIER COMMUNICATIONS OF AMERICA	6,972	2,831				
4373	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	GLOBAL CROSSING TELECOMMUNICATIONS	5	(0)				
4374	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	KERMAN TELEPHONE CO	1,851	1,835	846	838	860	531
4375	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	LEVEL 3 COMMUNICATIONS LLC	3	4	6	11	10	
4376	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	Not assigned	36				244	40,852
4377	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	PONDEROSA TELEPHONE CO	1,622	1,526	1,531	1,530	1,479	1,408
4378	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	SIERRA TELEPHONE CO INC	1,876	1,877	1,873	1,875	1,302	
4379	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	SUNWEST	1,242	1,231	1,241	1,256	1,257	1,268
4380	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	USA MOBILITY WIRELESS INC	434	475	476	478	482	490
4381	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	VERIZON BUSINESS NETWORK SERVICES	36,887	30,487	19,247	18,555	8,927	5,425
4382	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	BARCELON CALIFORNIA	38,412					
4383	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	VERIZON WIRELESS	40,143	26,889	25,593	23,979	23,479	18,826
4384	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	2026603	OTS Distribution SCADA Leases.	Other	VOLCANO TELEPHONE CO	6,160	6,101	2,860	1,230	1,231	1,240
4385	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	8078207	OSCADA Digi Communications, SAIDI Reduct	Other	AT&T MOBILITY LLC	16,971	(1,426)				
4386	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	8078207	OSCADA Digi Communications, SAIDI Reduct	Other	Not assigned				(4)		
4387	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	8078207	OSCADA Digi Communications, SAIDI Reduct	Other	VERIZON WIRELESS	4,401	3,230	3,461	1,454	1,274	972
4388	Network Telecommunication Leases	5245393	SCADA ED LEASES Baseline	8082157	OSCADA 3rd Party Lines	Other	CALVERAS TELEPHONE CO	137					
4389	Network Telecommunication Leases	5247657	GasAccord - Leases	2010137	SA- Gas Leases	Other	FRONTIER	851					
4390	Network Telecommunication Leases	5247657	GasAccord - Leases	2010137	SA- Gas Leases	Other	VERIZON WIRELESS	1,610	42				
4391	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	AT&T	39,062	57,724	68,013	153,582	159,778	133,887
4392	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	AT&T MOBILITY LLC						1,316
4393	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	CALIFORNIA OREGON	955	1,034	1,188	1,209	1,216	1,243
4394	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	CHARTER COMMUNICATIONS				15,422	15,522	15,732
4395	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	COMCAST	23,461	17,923	17,509	55,325	59,798	
4396	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	DIRECTV LLC				758	498	
4397	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	FRONTIER	6,750	3,508				
4398	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	FRONTIER COMMUNICATIONS		7,066	10,701	29,434	23,449	28,480
4399	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	GLOBAL CROSSING TELECOMMUNICATIONS	42	(0)				
4400	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	WYLE TILLET		3,000				
4401	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	LEVEL 3 COMMUNICATIONS LLC		56	83	92	116	95
4402	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	Not assigned	(0)	(11,940)	3,117		5,817	12,643
4403	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	PACIFIC BELL TELEPHONE COMPANY						2,195
4404	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	UNWIRED BROADBAND INC					1,992	1,992
4405	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	VERIZON BUSINESS NETWORK SERVICES			1,212	7,274	4,970	4,237
4406	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	VERIZON CALIFORNIA	3,501					
4407	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	VERIZON WIRELESS	127	2,154	1,384	1,057	8,767	10,040
4408	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	WAVE DIV HOLDINGS LLC	4,000	15,600	20,400	21,086	21,897	22,087
4409	Network Telecommunication Leases	5250816	LOB Tele Usage and Leases- GAS ACCD	70029873	LOB - Tele Use/Leases GA- Gas Ops	Other	WAVE DIVISION HOLDINGS LLC	1,500					
4410	Network Telecommunication Leases	5251474	SA- LOB Tele Usage and Leases- PPPF	70030161	LOB - Tele Use/Leases PPPF - C-Care	Other	XZNGAT INC	108,051	-			2,023	7,638
4411	Network Telecommunication Leases	5251474	SA- LOB Tele Usage and Leases- PPPF	70030161	LOB - Tele Use/Leases PPPF - C-Care	Other	AT&T						
4412	Network Telecommunication Leases	5251474	SA- LOB Tele Usage and Leases- PPPF	70030161	LOB - Tele Use/Leases PPPF - C-Care	Other	CALVERAS TELEPHONE CO	79					
4413	Network Telecommunication Leases	5251474	SA- LOB Tele Usage and Leases- PPPF	70030161	LOB - Tele Use/Leases PPPF - C-Care	Other	COMCAST						
4414	Network Telecommunication Leases	5251474	SA- LOB Tele Usage and Leases- PPPF	70030161	LOB - Tele Use/Leases PPPF - C-Care	Other	FRONTIER	2,797					
4415	Network Telecommunication Leases	5251474	SA- LOB Tele Usage and Leases- PPPF	70030161	LOB - Tele Use/Leases PPPF - C-Care	Other	KERMAN TELEPHONE CO	323					
4416	Network Telecommunication Leases	5251474	SA- LOB Tele Usage and Leases- PPPF	70030161	LOB - Tele Use/Leases PPPF - C-Care	Other	Not assigned	(122,617)					
4417	Network Telecommunication Leases	5251474	SA- LOB Tele Usage and Leases- PPPF	70030161	LOB - Tele Use/Leases PPPF - C-Care	Other	PONDEROSA TELEPHONE CO	195					
4418	Network Telecommunication Leases	5251474	SA- LOB Tele Usage and Leases- PPPF	70030161	LOB - Tele Use/Leases PPP								

PACIFIC GAS AND ELECTRIC COMPANY
2023 General Rate Case Phase I
Application 21-06-021
Data Response

PG&E Data Request No.:	TURN_200-Q001		
PG&E File Name:	GRC-2023-PhI_DR_TURN_200-Q001		
Request Date:	April 25, 2022	Requester DR No.:	TURN-PG&E-200
Date Sent:	May 9, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Trish Williams	Requester:	David Cheng

SUBJECT: PG&E-6 – CHAPTER 5, CUSTOMER SERVICE OFFICES

QUESTION 001

Please provide updated Table 5-2 and Table 5-3 (on page 5-9) that include recorded actuals for 2016-2021.

ANSWER 001

Please see attachment GRC-2023-PhI_DR_TURN_200-Q001Atch01.

TABLE 5-2
CUSTOMER SERVICE OFFICES
EXPENSES BY MWC
(THOUSANDS OF NOMINAL DOLLARS)

Line No.	MWC	Description	Recorded Adjusted						Forecast		Workpaper Reference
			2016	2017	2018	2019	2020	2021	2022	2023	
1	DK	Manage Customer Inquiries	\$1,536	\$1,331	\$1,303	\$1,249	\$906	\$426	\$1,206	\$1,249	WP 5-1, line 1
2	EZ	Manage Var Cust Care Processes	8,266	8,483	7,586	6,218	4,949	2,286	6,322	6,543	WP 5-1, line 2
3	IU	Collect Revenue	10,370	9,493	9,848	10,287	7,660	4,084	10,441	10,199	WP 5-1, line 3
4		Total	\$20,172	\$19,307	\$18,737	\$17,754	\$13,515	\$6,796	\$17,969	\$17,991	WP 5-1, line 4

TABLE 5-3
CUSTOMER SERVICE OFFICES
CAPITAL EXPENDITURES BY MWC
(THOUSANDS OF NOMINAL DOLLARS)

Line No.	MWC	MAT	MAT Description	Recorded Adjusted						Forecast					Workpaper Reference
				2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
1	21	#	Not assigned	\$1,038	\$84	\$179	\$1	\$24	\$-1	\$100	\$100	\$100	\$100	\$100	WP 5-3, line 1
2			Grand Total	\$1,038	\$84	\$179	\$1	\$24	\$-1	\$100	\$100	\$100	\$100	\$100	WP 5-3, line 2

PACIFIC GAS AND ELECTRIC COMPANY
2023 General Rate Case Phase I
Application 21-06-021
Data Response

PG&E Data Request No.:	TURN_200-Q002		
PG&E File Name:	GRC-2023-PhI_DR_TURN_200-Q002		
Request Date:	April 25, 2022	Requester DR No.:	TURN-PG&E-200
Date Sent:	May 9, 2022	Requesting Party:	The Utility Reform Network
PG&E Witness:	Trish Williams	Requester:	David Cheng

SUBJECT: PG&E-6 – CHAPTER 5, CUSTOMER SERVICE OFFICES

QUESTION 002

Please provide the current FTE counts as of April 30, 2022 for the number of EE and Sup, using the same format as the table on WP 5-23.

ANSWER 002

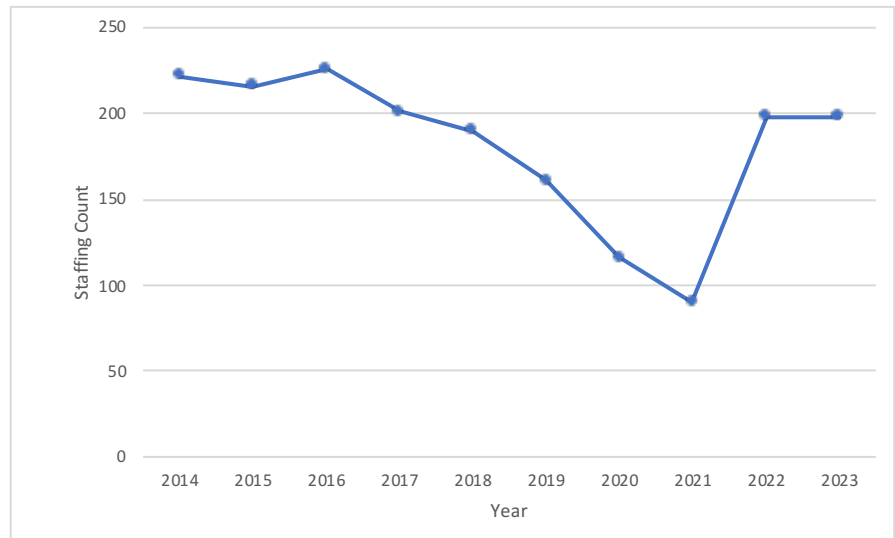
PG&E objects to the request for 2022 data. PG&E's 2023 GRC forecast uses a base year of 2020 recorded data in accordance with the Commission's Rate Case Plan. PG&E further objects on the grounds that the request for 2022 data goes beyond the requirements in the *Assigned Commissioner's Scoping Memo and Ruling* dated (October 1, 2021), which requires the production of 2021 data but does not require the production of 2022 data. PG&E does not have final 2022 data available. Further, partial year 2022 data cannot necessarily be extrapolated to indicate spending for the entire year given fluctuations in spending in a given year.

Notwithstanding the foregoing, and without waiving PG&E's right to object to the admissibility of the requested information into evidence, PG&E responds as follows:

Please see attachment GRC-2023-PhI_DR_TURN_200-Q002Atch01 for 2021 actual data.

PACIFIC GAS AND ELECTRIC COMPANY
2023 GENERAL RATE CASE
Exhibit (PG&E-6), Chapter 5
Customer Service Offices
Customer Service Office Staffing Levels (2014-2023)

Year	Total Count	No. of EE	No. of Sup
2014	234	222	12
2015	228	216	12
2016	238	226	12
2017	212	201	11
2018	197	190	7
2019	169	161	8
2020	123	116	7
2021	95	90	5
2022	208	198	10
2023	208	198	10



The following offices were removed (closed in 2021):

Auburn
Colusa
Davis
Kerman
Lakeport
Livermore
Oakhurst
Sanger
Walnut Creek
Wasco