

Docket No.: A.25-12-009
Exhibit No.: UCAN-05-E
ALJ: Camille Watts-Zagha
Witness: Tyson Siegele

Exhibit UCAN-05-E

SDG&E Response to UCAN Data Request 01, Question 33 – SDGE0000019
Sugandi Sarosa to Daniel Baerman (September 24, 2020)

Message

From: Sarosa, Sugandi [SSarosa@sdge.com]
Sent: 9/24/2020 4:11:22 PM
To: Baerman, Daniel [DBaerman@sdge.com]
Subject: RE: Inquiry on hydrogen fuel mix

Yes, I'll ask, doesn't hurt (I)

At 5%, we can expect 10% raise in CO/NOX, the SCR + water injection should be able to handle this.

From: Baerman, Daniel <DBaerman@sdge.com>
Sent: Thursday, September 24, 2020 2:47 PM
To: Sarosa, Sugandi <SSarosa@sdge.com>
Subject: Re: Inquiry on hydrogen fuel mix

I wonder if GE would be willing to give us that slide with the emissions comparisons for the different H2 blending percentages. That was interesting.

Get Outlook for iOS

From: Sarosa, Sugandi <SSarosa@Dsdge.com>
Sent: Tuesday, September 22, 2020 1:57:51 PM
To: Tomeh, Denise (GE Gas Power) <denise.tomeh@_ge_.com>; Patel, Sagar (GE Gas Power) <flgar.B.patel@_g_?_.f.Q.QJ>; Baerman, Daniel <DBaerman@Dsdge.com>
Subject: RE: Inquiry on hydrogen fuel mix

Denise,
Next week Thursday 10-12 or Friday is good too.

Thanks,
Andi

From: Tomeh, Denise (GE Gas Power) <denise.tomeh@_ge_.com>
Sent: Tuesday, September 22, 2020 1:24 PM
To: Sarosa, Sugandi <SSarosa@sdge.com>; Patel, Sagar (GE Gas Power) <sagar.J3.patel@ge.com>; Baerman, Daniel <DBaerna11@sdge.com >
Subject: [EXTERNAL] RE: Inquiry on hydrogen fuel mix

*** EXTERNAL EMAIL - Be cautious of attachments, web links, and requests for information ***

Adi, I also received a response from my team. Can you please provide me with 2 or 3 dates/times for next week that works for your team?

Regards,

Denise Tomeh

Account Sales Manager
Power Generafam Services

From: Sarosa, Sugandi <SSarosa@sdge.com>
Sent: Tuesday, September 22, 2020 11:46 AM
To: Patel, Sagar (GE Gas Power) <ji.sagar.B.patel@ge.com>; Baerman, Daniel <DBaerman@sdge.com>
Cc: Tomeh, Denise (GE Gas Power) <denise.tomeh@ge.com>
Subject: EXT: RE: Inquiry on hydrogen fuel mix

Hi Sagar,
I'm available Thursday at 11am or after 2:30pm.

Regards,

Sugandi Sarosa
Plant Engineer
SDG&E - Electric Generation
Palomar Energy Center
2300 Harveson Place | Escondido CA 92029
Mobile: 951-541-7533
Office: 760-432-2508

From: Patel, Sagar (GE Gas Power) <ji.sagar.B.patel@ge.com>
Sent: Tuesday, September 22, 2020 11:41 AM
To: Sarosa, Sugandi <SSarosa@sdge.com>; Baerman, Daniel <DBaerman@sdge.com>
Cc: Tomeh, Denise (GE Gas Power) <denise.tomeh@ge.com>
Subject: [EXTERNAL] Re: Inquiry on hydrogen fuel mix

*** EXTERNAL EMAIL - Be cautious of attachments, web links, and requests for information ***

Hello Sugandi and Daniel,

Do you have time preference for a conference call with Aero team to dive in greater detail on capability of hydrogen fuel blending on your LM6000PCs later this week or next week?

Best Regards,

Sagar Patel
GE Gas Power-

M 404-831-7039

From: "Sarosa, Sugandi" <SSarosa@sdge.com>
Date: Friday, September 18, 2020 at 4:08 PM
To: Denise Tomeh <denise.tomeh@ge.com>; Sagar Patel <ji.sagar.B.patel@ge.com>
Cc: "Baerman, Daniel" <DBaerman@sdge.com>
Subject: EXT: Inquiry on hydrogen fuel mix

Denise, Sagar,
Thank you for setting up a call to discuss the Hydrogen project.
SDGE is considering Hydrogen Electrolyzer at Palomar site, and looking to fuel-mix H2 into the 7F.04 turbine.
Our questions are:

- Considering 5% H2 by volume, is there any retrofit needed?

- What is the maximum H2 fuel mix without any retrofit?
- Is fuel mixer necessary for 5% mix?
- What are the impact on burning 5% H2 long term on our system? Is it quantifiable?
- How can GE help the project?
- Is there similar GE project we can reference?

The same question for considering Miramar LM6000.

Regards,

Sugandi Sarosa
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SDG&E - Electric Generation
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Office: 760-432-2508

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