

Application No.: A.23-08-013
Exhibit No.: SCE-11E
Witnesses: Various



(U 338-E)

***Thomas Fire and Debris Flow Cost Recovery
Application – Witness Qualifications***

ERRATA

Before the

Public Utilities Commission of the State of California

Rosemead, California
August 22, 2023

Errata Served February 8, 2024

SCE-11E: Witness Qualifications

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1 **QUALIFICATIONS AND PREPARED TESTIMONY**
2 **OF REINHARD SCHROEDER**

3 The purpose of Mr. Reinhard's testimony in this proceeding is to sponsor the portions of
4 *SCE's Thomas Fire and Debris Flow Cost Recovery Application, Exhibit SCE-02 – The Anlauf*
5 *and Koenigstein Ignitions Testimony*, as identified in the Table of Contents thereof. This
6 material was prepared by Mr. Reinhard and under his supervision. Insofar as this material is
7 factual in nature, he believes it to be correct, and, insofar as this material is in the nature of
8 opinion or judgment, it represents Mr. Reinhard's best judgment.



NORTHWEST AERIAL RECONNAISSANCE, INC.

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February 6, 2024

REINHARD SCHROEDER, President

1979 - Established Northwest Aerial Reconnaissance (NAR) to provide reconnaissance services to the timber industry. Entered into contracts to minimize loss from wildfires on timberlands utilizing the concept of early detection, notification and response. Substantial savings of natural resources have been realized because of the successful implementation and execution of NAR's fire and security patrol procedures. NAR's fire patrol contract was renewed for 18 consecutive years.

1983 - Began quarterly photo updates of major wood chip storage facilities on the West Coast from northern Washington to central California. Chip buyers and sellers used these photos to gauge supply levels of customers and competitors.

1985 - Began vertical photography of timberlands. Developed integrated computer/GPS/camera position recording system for exact photo locations. Photographed more than 5 million acres of timberland in Alaska, Idaho, Oregon, and Washington to date.

1987 - Began computer mapping of forestland using AutoCAD. Developed many computer programs to enhance and streamline mapping capabilities. Wrote translators for DXF to/from MOSS, DLG to DXF, DEM to DXF, XYZ to DXF, and DXF to/from Trimble GPS. Mapped 350 thousand acres of timberland in Alaska, and 400 thousand acres in other states to date.

1993 - Developed NAR proprietary software to create digital orthophotos from scanned aerial photography using digital terrain data and 3-Dimensional modeling techniques. Created orthophotos for more than 500,000 acres of timberland to date.

1996 - Developed NAR proprietary software to detect root-rot pockets from scanned aerial photographs. Conducted root-rot detection and mapping projects for Weyerhaeuser, Champion and City of Bremerton to date.

2004 to Present – Provided photogrammetry and GIS services to help assess damage from wildfires totaling over 3.25 million acres. Used before and after photography and county GIS parcel data to locate individual parcels in order to verify claims. Utilized witness photography and video surveillance data to help determine area of origin. Used pre-fire photography to create timber type maps in order to assist in determining valuation of lost timber.

PARTIAL LISTING OF FIRES:

School Fire	Washington
Rice, Witch, Guejito	California
Sylmar (Sayre)	California
Las Conchas	New Mexico
Bastrop	Texas
Oil Creek	Wyoming
Butte	California
Camp Fire	California
Creek Fire	California

DEPOSITIONS GIVEN:

- Sayre Fire** January 30, 2014
Oakridge, LTD., dba Oakridge Mobile Home Park, et al. VS Southern California Edison Company, et al.
- Oil Creek Fire** March 13, 2015
Todd R. Tavegie, et al., and State of Wyoming vs. Black Hills Power, Inc., a South Dakota corporation
- Las Conchas Fire** April 9, 2015
State Farm Fire and Casualty Company, et. al., vs. Jemez Mountains Electric Cooperative, Inc. Tri-State Generation and Transmission, Inc. and DOES I-50, Inclusive
- Keter-Lewis Case** November 10, 2022
Lucy Ann Dortch Lewis vs. The Home Depot, Inc.; Keter North America, Inc.: Thomas Conzales: and DOES 1 to 10.

BELL LABORATORIES: Senior Technical Associate, 1968-1978.

Designed and implemented testing procedures for telephone switching equipment. Performed life tests and failure analysis for Electro-mechanical components. Maintained and operated analytical laboratory equipment including ultra-high vacuum systems, scanning electron microscopes, mass spectrometers, and scanning Auger spectrometers. Designed and built automated computer controlled test facilities. Performed image analysis of electron microscope images and conventional photographic images.

EDUCATION:

Clark College	Springfield, Ohio	Associate Electrical Engineer, 1968.
Pilot Ratings:	Commercial Pilot, 1976. Airplane Multi-Engine Land. Flight Instructor. Airplane Single-Engine Land and Sea.	Commercial Helicopter Pilot, 1977. Helicopter Flight Instructor, 1977. Instrument Airplane.

**SOUTHERN CALIFORNIA EDISON COMPANY
QUALIFICATIONS AND PREPARED TESTIMONY
OF ALAN VARVIS**

Q. Please state your name and business address for the record.

A. My name is Alan Varvis. I am the Principal Manager of Capital Asset Analytics in the Treasurers Department at Southern California Edison Company ("SCE"). My business address is 2244 Walnut Grove Avenue, Rosemead, California 91770.

Q. Briefly describe your present responsibilities at the Southern California Edison Company.

A. In my current position as Principal Manager of Capital Asset Analytics, I am responsible for the forecasting and budgeting related to plant-in-service, book depreciation, and regulatory cost recovery.

Q. Briefly describe your educational and professional background.

A. I received a Bachelor of Science degree in Business Administration, with an emphasis in Accounting and a Masters of Business Administration from California State Polytechnic University, Pomona. I have been certified as a Certified Depreciation Professional (CDP) by the Society of Depreciation Professionals. I joined Southern California Edison in the Transmission and Substation Division in 1993 as a business analyst. I was promoted to Supervisor of Material & Accounting in 1995 where my responsibilities included supervising the processing and handling of work orders related to transmission line and substation capital equipment replacements. In 1996, I accepted a supervisor position in the Power Grid Business Unit where my primary role was to provide budgeting and regulatory finance support. In 2003, I received a promotion to a manager position and, from 2003-2015, held a variety of manager roles in the areas of budgeting, regulatory finance, reporting, and financial system functions supporting the Transmission & Distribution Business Unit. In 2015, I accepted a position in my current role as Principal Manager of Capital Asset Analytics.

Q. What is the purpose of your testimony in this proceeding?

A. The purpose of my testimony in this proceeding is to sponsor the portion of *SCE-09, Section V.A.f – Costs of Removal*.

Q. Was this material prepared by you or under your supervision?

A. Yes, it was.

Q. Insofar as this material is factual in nature, do you believe it to be correct?

1 A. Yes, I do.
2 Q. Insofar as this material is in the nature of opinion or judgment, does it represent your best
3 judgment?
4 A. Yes, it does.
5 Q. Does this conclude your qualifications and prepared testimony?
6 A. Yes, it does.