Diane Conklin
Spokesperson
Mussey Grade Road Alliance
PO Box 683
Ramona, CA 92065

Office of Energy Infrastructure Safety
300 Capitol Mall, Suite 500
Sacramento, CA 95814
info@energysafety.ca.gov

October 14, 2021

Transmittal via OIES e-filing #Risk-Model-Group

RE: NOMINATION OF JOSEPH W. MITCHELL, PH.D. TO THE WILDFIRE RISK MODELING GROUP

Dear Office of Energy Safety Infrastructure,

As per instructions provided during the October 5 and 6th OEIS Risk Modeling workshops, please find attached the qualifications of Mussey Grade Road Alliance (MGRA or Alliance) expert Joseph W. Mitchell, Ph.D, along with his separately attached Vitae.

The qualification page is prepared Joseph Mitchell.

Respectfully submitted this 14th day of October, 2021,

By: __*/S/*____***Diane Conklin***_____

Diane Conklin
Spokesperson
Mussey Grade Road Alliance
P.O. Box 683
Ramona, CA 92065
(760) 787 – 0794 T
dj0conklin@earthlink.net

QUALIFICATIONS AND PLANNED ACTIVITY OF JOSEPH W. MITCHELL, PH.D.

Dr. Mitchell is a physicist who has been working in the area of wildfire since 2002 and in the area of utility wildfire ignition since 2007, working as the expert witness for the Mussey Grade Road Alliance at the CPUC. During this period he has made numerous contributions with regard to wildfire risk and risk modeling, including but not limited to:

- The first attempt at a quantitative wildfire risk estimate from a transmission line during the SDG&E Sunrise Powerlink application, 2007-2008.
- Successful proposal for mandatory utility ignition data collection and reporting.
- Successful proposal for mandatory utility wildfire prevention plans.
- Successful proposal for utility-specific wildfire threat maps (now HFTDs)
- Balancing of risks between power shutoff and wildfire ignition.
- Academic and CPUC work demonstrating the coupling between high wind events and utility ignitions.
- Incorporation and quantification of extreme tail risk events with appropriate statistical models.
- Critical review with respect to modeling of utility 2019, 2020, and 2021 Wildfire Mitigation Plans.

Areas of planned activity during for the Wildfire Modeling Working Group include but are not limited to:

- Incorporation of risk from wildfire smoke.
- Proper incorporation of extreme event statistics for tail risk events.
- Coupling between high winds and ignition probabilities.
- Weighting of safety, reliability, and financial attributes.
- Use of machine learning models to estimate risk and rank circuit risks.
- Quantification of risks from power shutoff.
- Incorporation of power shutoff damage events as risk data.