PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigations Plans Discovery 2026-2028
Data Response

PG&E Data Request No.:	OEIS_006-Q003
PG&E File Name:	WMP-Discovery2026-2028_DR_OEIS_006-Q003
Request Date:	April 25, 2025
Requester DR No.:	OEIS-P-WMP_2025-PG&E-006
Requesting Party:	Office of Energy Infrastructure Safety
Requester:	Nathan Poon
Date Sent:	April 30, 2025

SUBJECT: REGARDING WEATHER MODEL VALIDATION

QUESTION 003

a. Page 57 of the 2026-2028 Base WMP states that "The models use PSPS guidance criteria to perform a back-cast using our 30+ year climatological dataset."

   i. Provide documentation describing this climatological dataset

   ii. Provide a list of the variables contained within the dataset

   iii. Provide a detailed description of the validation performed on the dataset and results of the validation, as well as documentation similar in technical detail to the operational weather modeling presented in (https://doi.org/10.3390/atmos15101244).

b. Table 5-1 on page 82 of the 2026-2028 Base WMP includes a description of FPI and IPW models, stating that the weather model forecasts are "skillful and well validated."

   i. Provide documentation describing these weather model forecasts

   ii. Provide a list of variables that these weather models forecast

   iii. Provide a detailed description of the validation performed on the weather model forecasts and results of the validation, as well as documentation similar in technical detail to the operational weather modeling presented in https://doi.org/10.3390/atmos15101244 .

ANSWER 003

a.

   i. Documentation that describes the climatological dataset can be found at the sources below.

      1. The POMMS 3.0 Configuration Report provided as "*WMP-Discovery2026-2028_DR_OEIS_006-Q003Atch01.pdf.*

      2. Section 8.6 of the PSPS Model White Paper provided as "*WMP-Discovery2026-2028_DR_OEIS_006-Q003Atch02.pdf.*"

3. For documentation on the Weather Research and Forecasting model, please see: https://www.mmm.ucar.edu/models/wrf. The WRF model can be used in forecast mode or utilized to create historical (climatological) data using global weather model forcing or climatological reanalyzes, respectively.

4. For information on the Climate Forecast System Version 2 (CFSv2) Operational reanalysis, please reference this site: https://www.ncei.noaa.gov/access/metadata/landing-page/bin/iso?id=gov.noaa.ncdc:C00878

5. For information on the Climate Forecast System Reanalysis (CFSR) please see this location. https://www.ncei.noaa.gov/access/metadata/landing-page/bin/iso?id=gov.noaa.ncdc:C00765

ii. The list of variables available at the surface or near surface can be found in "*WMP-Discovery2026-2028_DR_OEIS_006-Q003Atch03.txt*." The list of variables that can be extracted from the 3D climatology and forecast dataset can be found in "*WMP-Discovery2026-2028_DR_OEIS_006-Q003Atch04*.txt."

iii. Please see "*WMP-Discovery2026-2028_DR_OEIS_006-Q003Atch01.pdf*" and "*WMP-Discovery2026-2028_DR_OEIS_006-Q003Atch02.pdf*."

b.

i. Documentation of the FPI and IPW models can be found in sections 3 and 4, respectively, of "*WMP-Discovery2026-2028_DR_OEIS_006-Q003Atch02.pdf*."

ii. Please see response to B.i.

iii. Please see response to B.i.