PG&E FULTON-FITCH MOUNTAIN RECONDUCTORING PROJECT – A.15-12-005; D.17-12-012

Table 1 Data Needs #5 for Petition for Modification #1

ID	Applicable References	Issue	Data Need
Project Description			
PD-01	**2017 IS/MND:** 2.5.1Conductor **Supplemental PEA:** 2.3.1.1 Southern Segment	**Existing and Proposed Conductor** Section 2.5.1 of the 2017 IS/MND describes existing and approved conductor modifications in the Southern Segment for the 60 kV line (Fulton-Hopland line) and the two 230 kV lines (Geysers #12-Fulton and Geysers #17-Fulton lines). Section 2.3.1.1 of the Supplemental PEA describes proposed changes to the approved conductor modifications in the Southern Segment based on PG&E's proposal to replace existing tubular steel poles (TSPs) described in PFM #1. For clarity, existing, approved, and proposed conductor details are summarized in Tables 2a, 2b, and 2c below. More information is needed to determine if proposed pole and conductor modifications would meet current design standards.	a. Review conductor specifications provided in Tables 2a, 2b, and 2c for accuracy and completeness. Provide any additional or revised information as applicable. b. Specify if proposed conductor is fire resistant. Specify if proposed conductor is insulated. Specify whether insulated, fire resistant conductor exists for 60 kV or 230 kV. c. Provide a summary list and brief description of current design standards for proposed pole and conductor conditions (e.g., state and federal laws, regulations, or orders). Identify recent design standards imposed by CPUC to address wildfire hazards. d. Specify (a) which design standards have been incorporated into the proposed design already; (b) which design standards would be incorporated prior to construction with an explanation; and, (c) which design standards would not be incorporated with a rationale for why not.
Wildfire			
WF-01	**PG&E's Wildfire Mitigation Plan (February 2019)**	**Senate Bill (SB) 901 and PG&E's Wildfire Mitigation Plan** SB 901 requires electric utilities to prepare and submit wildfire mitigation plans that describe the utilities' plans to prevent, combat, and respond to wildfires affecting their service territories. On February 6, 2019, PG&E and other utilities submitted their initial plans to the CPUC.	a. Specify if proposed conditions applicable to PFM #1 meet PG&E's recent Wildfire Mitigation Plan. Specify any plan elements that would not be met and provide a rationale for why not. b. Provide any revisions to PFM #1 and Supplemental PEA information that may be necessary to address PG&E's recent Wildfire Mitigation Plan.

DATA NEEDS #5 FOR PETITION FOR MODIFICATION #1

ID	Applicable References	Issue	Data Need
		Information is needed about PG&E's recent Wildfire Mitigation Plan and its consistency with proposed conditions applicable to PFM #1.	

Table 2a Existing Conductor in the Southern Segment

Existing Lines	Voltage (kV)	Existing Conductor Type	Total Length
Fulton-Hopland	60	4/0 aluminum	1.8 miles
Geysers #12-Fulton	230	Bundled 113 *kcmil*[1] all-aluminum conductors (AAC)	1.8 miles
Geysers #17-Fulton	230	Bundled 113 *kcmil* AAC	1.8 miles

Table 2b Approved Reconductoring in the Southern Segment (2017 Final IS/MND)

Existing Lines	Voltage (kV)	New Conductor Type	Reconductoring Length	Transfer Length
Fulton-Hopland	60	477 kcmil aluminum composite steel-supported (ACSS) & 477 kcmil aluminum conductor composite reinforced	1.8 miles	--
Geysers #12-Fulton	230	954 kcmil ACSS 54/7 "Cardinal" conductor	1.4 miles	0.4 mile
Geysers #17-Fulton	230	n/a	--	1.8 miles

Table 2c Proposed Reconductoring in the Southern Segment (2018 PFM #1)

Existing Lines	Voltage (kV)	New Conductor Type	Reconductoring Length	Transfer Length
Fulton-Hopland	60	477 *kcmil* ACSS conductor	1.8 miles	--
Geysers #12-Fulton	230	Single-strand 945 *kcmil* ACSS	400 feet	1.3 miles
Geysers #17-Fulton	230	Single-strand 945 *kcmil* ACSS	400 feet	1.3 miles

[1] kcmil (1,000 circular mils) is a unit of measure for the size of a conductor. Kcmil wire size is the equivalent cross-sectional area in thousands of cmils. A cmil is the area of the circle with a diameter of 0.001 inch.