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

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

ID	Applicant References	Issue	Data Need
Proposed Modifications			
PD-01	**Supplemental PEA:** Appendix A	**Detailed Workspaces and Facility Locations** The Supplemental PEA Project Description describes the number of pole work areas, guard structure work areas, and pull sites that would be needed. Appendix A, Detailed Project Plan, identifies many of these areas. GIS data is needed for all workspaces and facilities identified in Appendix A.	a. Provide GIS data detailing the locations of the revised work areas, access roads, and facility locations identified in Appendix A.
PD-02	**Supplemental PEA:** 2.3.2.1 Southern Segment	**Clarity Regarding Possible Clearance Conflicts** The Supplemental PEA Project Description indicates that the replacement TSPs would provide adequate clearance. The new TSPs would be installed a short distance away from the existing locations, which could cause new clearance issues with structures. It is not clear whether any previously undisclosed clearance conflicts would occur as a result of the project revisions.	a. Identify all possible clearance conflicts and their specific locations on a map or via GIS data.
PD-03	**Supplemental PEA:** 2.4.2.9 Ground Disturbance 3.6 Geology, Soils, and Mineral Resources	**Cut-and-Fill Volumes and Material Management** The Supplemental PEA Project Description notes that cut-and-fill volumes would increase as a result of the project revisions. In Section 3.6.2 of the Supplemental PEA (Question b), it is noted that pole installation would generate an additional 1,000 cubic yards of cut-and-fill material. Additional details are needed regarding cut-and-fill volumes and material management activities.	a. Quantify the increased cut-and-fill volumes for each new facility, such as at each new pole and at PS-6. b. Describe material management activities and stockpiling locations for cut-and-fill materials. Clarify if material would be stockpiled at pole locations or off-hauled for disposal.
PD-04	**Supplemental PEA:**	**Active Pole Work Areas**	a. Provide the number of pole work areas where construction activities could occur within the same workday. During a site visit, PG&E stated no more than

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	2.4.2 Work Areas and Access; 2.4.12 Schedule and Timing	A description of each work area and the schedule is provided in the Supplemental PEA Project Description. Additional details are needed regarding the number of poles where construction activities could occur within the same workday.	3 pole locations (combined existing and proposed) would be active at any given time. Please confirm. b. Describe the proximity of the work areas and the phasing of concurrent work activities.
PD-05	**Supplemental PEA:** 2.7 EMF	**Number of Structures** The Supplemental PEA Project Description indicates that 39 structures are being raised by five feet taller than otherwise required. However, only 21 TSPs are proposed for replacement as part of the revised project.	a. Explain the discrepancy between the 39 structures identified in Section 2.7 and the 21 TSPs proposed for replacement.
PD-06	**Supplemental PEA:** 2.4.8 Water Use	**Water Use** The Supplemental PEA Project Description indicates that no changes are anticipated to water use. The use of concrete trucks will require concrete washout and washout fluid, and a greater disturbance area would require additional dust suppression.	a. Clarify the potential for additional water use and provide estimated volumes.
PD-07	**Supplemental PEA:** 2.4.12 Schedule and Timing	**Schedule** The schedule in the Supplemental PEA Project Description identifies duration of work by construction activity. A detailed schedule by work area in the is also needed to evaluate potential impacts on receptors adjacent work areas. PG&E has informed the CPUC that the schedule for work identified in the PFM would be postponed from winter 2018 to winter 2019.	a. Provide the estimated duration of workdays at each work area by filling out Table A in Attachment A. b. Confirm the schedule for work identified in the PFM would be postponed by exactly one year and all other schedule details would remain the same or provide a revised schedule.
PD-08	**Supplemental PEA:** 2.4.12 Schedule and Timing	**Workforce** The number of crewmembers needed at any one time to conduct each construction activity was not revised in Table 2.4-1: Revised Construction Equipment and Duration of Use of the Supplemental PEA Project Description. The same values are used in the IS/MND Project Description.	a. Verify that the number of crewmembers would remain the same as described in the Final IS/MND.

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PD-09		**Heavy Lift Helicopter Use** The Supplemental PEA Project Description states heavy-lift helicopter will be used for up to 5 days to transport workers and materials at Poles 20 to 23. Heavy lift helicopters would generate excessive noise levels that may be avoided by using ground equipment where suitable access exists. During a site visit with PG&E project personnel, a modified approach was discussed that would avoid the need for heavy lift helicopters by using ground equipment.	a. Clarify the approach for using light and heavy-lift helicopters in the Southern Segment. Identify specific pole locations where each type would be used and the total days of use and hours of use per day. Provide estimated trips for each activity. b. Identify any additional work space and access roads that would be required if helicopters were not used, such as at Poles 20 to 23.
Recreation			
REC-01	**Supplemental PEA:** 2.4.2.1 Proposed and Alternate Sites	**Shiloh Ranch Regional Park** Pole 23, PS-6, and a vehicle turnaround are located in southwest corner of Shiloh Ranch Regional Park. PG&E indicated that grading plans for the area may have changed and the trail could be realigned following construction. Additional information is needed regarding earthwork in Shiloh Ranch Regional Park as well as coordination information with the County parks district.	a. Provide the grading plan for proposed earthwork and road/trail realignment in the park. b. Provide a site-specific restoration/recontouring plan that shows how the park and trail would be addressed following construction. The plan should address any County specifications. c. Provide coordination information with County parks district including comments that were addressed on the final grading and restoration plans.
Geology and Soils			
GEO-01	**Geotechnical Report**	**Geotechnical Investigation Report** A geotechnical report was provided detailing geologic and seismic hazards.	a. Revise the geotechnical report to address pole replacement in the Southern Segment, making special note of risks from unstable soils, expansive soils, and liquefaction. b. Provide the Fulton Substation geotechnical investigation noted in the Geotechnical Investigation Report.
Traffic and Transportation			
TRA-01	**Supplemental PEA:** 3.15.3 Impact Analysis	**Construction Trips** The impact analysis in the Supplemental PEA states that the estimated maximum daily construction vehicle trips for construction activities associated with	a. Please review Tables B and C (attached). b. Describe how construction vehicles would be routed through the Southern Segment via US 101 to staging areas and specific pole sites.

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		the proposed pole replacements would remain the same as the approved project. The estimated maximum daily construction vehicle trips for the approved project was a conservative estimate, however, the additional truck trips associated with pole removal and replacement may exceed this number.	
TRA-02	**Supplemental PEA:** 2.4.7 Traffic Control	**Lane and Road Closures** The Supplemental PEA Project Description indicates that lane and road closures would be needed during pole replacement.	a. Describe the purpose and need of full road closures and why partial lane closures would not be enough with the new pole replacement activities. b. Provide a detailed schedule with the duration and sequencing of both lane and road closures as construction progresses along the Southern Segment. Note peak commute periods described in the IS/MND that would be avoided or could not be avoided per MM Traffic-1: Construction Traffic Management. The schedule should include specific work periods and weekdays that correspond to anticipated clearance schedules in the winter of 2019. c. Clarify if closures could occur at simultaneous at multiple locations. If so, describe the potential scenarios and considerations to traffic management. d. Clarify if closures would be required at night when work would not be occurring. e. Provide a detailed Traffic Management Plan for each lane and road closure segment, which includes maps of the affected area and proposed detour routes. Note the requirements for detour routes in MM Traffic-1. The Traffic Management Plan should clearly define the following on maps: - Existing and proposed TSPs - Existing street ROW, including lane and shoulder widths - Extent of lane and roadway closure areas, including parking loss, where work areas would be located - Access points to be maintained (see below)

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			f. Verify that access would be maintained to all driveways, communities, schools, and parks. Describe any escorting procedures or momentary access delays that may be necessary for safety purposes.
Noise			
NOI-01	**Supplemental PEA:** 2.4.11 Equipment and Workforce	**Construction Noise** Table 2.4-1 Revised Typical Construction Equipment and Duration identifies the following construction equipment that were not included in the Final IS/MND: • Compactor • Highway digger or production digger • Back truck • Backhoe with hydraulic jack attachment	a. Provide estimates for cumulative noise levels during construction (L_{max} and 1-hour L_{eq}) at a refence distance of 50 feet for each piece of new equipment included in Table 2.4-1.
Utilities			
UTL-01	**Supplemental PEA:** 2.4.4.2 Pole Installation	**Underground Utilities** The Supplemental PEA Project Description mentions co-located utilities, which could be disturbed by earthmoving activities. Ground-disturbing activity associated with the pole replacement has the potential to disrupt underground utilities and create hazards for residents.	a. Provide information and maps showing the locations of co-located utilities.
UTL-02	**Supplemental PEA:** 3.8 Hazards and Hazardous Materials	**Gas Pipeline** The Supplemental PEA Project Description notes that pole replacement would occur in proximity to a PG&E gas distribution pipeline. During a site visit with PG&E project personnel, the CPUC was informed that PG&E's engineering team was in the process of determining grounding requirements for the pipeline to address the new poles.	a. Describe the grounding plan for the gas pipeline that meets CPUC Rules and Regulations. b. Describe the grounding process including the types of equipment, materials, and workspaces that would be used.

ATTACHMENTS

Table A Workdays for Each Work Area

Stage/Period	Staging Areas	Poles	Pull Sites	Mid-Span Work Areas
Southern Segment				
Site Development	?	?	?	?
Dig and Set TSP Foundations	?	?	?	?
Set TSPs, Reconductor 60 kV, and Transfer Geysers #12	?	?	?	?
Transfer Geysers #17, Remove Old TSPs	?	?	?	?
Cleanup and Restoration	?	?	?	?
Segment Total	?	?	?	?

Table B Total Vehicle Trips for Each Work Area

Stage/Period	Staging Areas	Poles	Pull Sites	Mid-Span Work Areas
Southern Segment				
Site Development	?	?	?	?
Dig and Set TSP Foundations	?	?	?	?
Set TSPs, Reconductor 60 kV, and Transfer Geysers #12	?	?	?	?
Transfer Geysers #17, Remove Old TSPs	?	?	?	?
Cleanup and Restoration	?	?	?	?
Segment Total	?	?	?	?

Table C Estimated Maximum Daily Construction Traffic

	Daily Construction Vehicle Trips		Daily Worker Vehicle Trips		Total Daily Trips		
Southern Segment	**Peak Hour**	**Non-Peak Hour**	**Peak Hour**	**Non-Peak Hour**	**Peak Hour**	**Non-Peak Hour**	**Total**
Draft IS/MND	200	200	42	0	242	200	442
Final IS/MND	50	50	42	0	92	50	142
PFM	?	?	?	?	?	?	?