



Memo

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Date: March 19, 2012

To: Randy Kwok, Pacific Gas & Electric

From: Joseph Ball, Itron/Keith Rothenberg Energy Metrics

RE: Data Request to Support Savings Claim for PGE 2K1277405C

This request is focused on one particular application undergoing ex ante review:

- PGE 2K1277405C as part of the 2010-2012 UC/CSU/IOU Partnership Program. Refer to ex ante review report (PGE 2K1277405C EAR_2012_0319.docx) for the full requirements and context of this request. Additional documentation is needed to complete this review, including the following:
- Clearly define the baseline and describe details of both the baseline and the enhanced (proposed) case for each measure part of the project. Also provide a description of how each measure saves energy. Discuss any electrical impacts associated with the project - pumping energy, boiler fan energy, or changes in control equipment.
- Describe the existing heating hot water boiler and steam systems, including installed capacity, sequencing of equipment, operating temperatures, pressures, control strategies, hours of operation, etc. Provide single line schematics if available.
- Describe the proposed heating hot water boiler and steam systems, including installed capacity, sequencing of equipment, operating temperatures, pressures, control strategies, hours of operation, etc. Provide single line schematics if available.
- If early replacement is the baseline claim for either measure, provide the RUL, vintage, condition, and maintenance schedule of the pre-existing equipment; additionally provide analysis of the impacts for the RUL period and the RUL thru EUL period.
- Provide a description of how each measure will be integrated into the existing heating hot water system and steam system. Describe if existing boilers for each measure are being replaced or supplemented.
- Provide the proposed cost basis (full cost, incremental cost) for each measure and justification for each choice.

- Provide more information regarding the modeling of the two measures-the baseline operation and the post implementation operation and assumptions used in the model. Provide model input and output files, a description of the baseline and proposed systems, assumed and measured parameter inputs. Define the modeled parameters that will be important to verify to ensure the energy impacts are achieved.
- ED recommends that the post implementation verification include an assessment of whether the assumptions regarding the operation of the boilers agree with the assumptions used in the model. The assumptions have not been provided. IOU to provide a list of parameters to be verified in the post implementation inspection.

Itron requests this information by April 4, 2012. Your full and prompt response to this data request is appreciated, as Itron is attempting to provide timely feedback to SCG on the savings claim for this application. The requested information should be provided electronically.

If you have any questions or need additional information, please do not hesitate to ask.

Please send requested information by posting on EEGA or other secure website.