

Final Ex Ante Review Findings

Table 1-1: Project Information

IOU	Pacific Gas & Electric
Application ID	1797
Application Date	07/30/2012
Program ID	PGE2222
Program Name	Energy Efficiency Services for Oil Production
Program Year	2012
Itron Project ID	X220
IOU Ex Ante Savings Date	N/A
Measure Name	Oilfield Rotaflex Pumps
Project Description	Install new Long Stroke Rotaflex pumping units
Date of CPUC Staff Review(s)	Phase I - 11/26/2012 Phase II – 01/17/2013 Final – 03/12/2014
Primary Reviewer / Firm	Kumar Chittory/Itron
Review Supervisor / Firm	Joseph Ball/Itron
CPUC Staff Project Manager	[REDACTED]
CPUC Staff Policy Authorization (as needed)	
Type of Review (Desk, On-site, Full M&V, Tool)	Desk Review
CPUC Staff Recommendation	The project's ex energy savings of 1,190,034 kWh and peak demand reduction of 138.6 kW are approved.

Measure Description

The project involves the installation of ten (10) new Rotaflex long stroke pumping units. The ex ante project baseline is a standard rod beam pumping unit with pump off controllers (POCs)

Summary of Review

Pacific Gas & Electric (PGE) submitted the following documents to the CPUC staff for the Phase II review process:

- Post-installation M&V data and trued up savings estimates;
- Invoices.

The IOU followed the CPUC staff's recommendation and modified the M&V plan. The energy usage from the five pumps were recorded for a period of two months was recorded and provided to the CPUC staff for review. As part of the post-installation effort, actual operating data (average production (BPD), Pressure (ft) and annual hours) were collected and used in the savings true-up. Due to increases in both the pressure and the production from the estimates, there was an increase in HHP needed to lift the fluid. This was reflected in the baseline and post installation energy savings calculation, and led to an increased energy savings.

Invoices were submitted as part of the Phase II data request. The total cost of the project from the invoices is \$2,382,378 whereas the incremental cost for this project is \$2,132,378.

Review Conclusion

The IOU responded to all the data requests made in the earlier reviews and hence the project savings of 1,190,034 kWh and 138.6 kW are approved; commission staff waives further review of this project, however, PG&E is directed to provide to staff the claims ID number associated with this project once reported using the forthcoming CPUC claims reporting guidelines.

Table 1-3 Energy Savings Summary, Project Costs & Incentive

Description	IOU Ex Ante Claim	CPUC Staff Recommendations
First Year kWh Savings	1,190,034	1,190,034
First Year Peak kW Savings	138.6	138.6
First Year Therms Savings	N/A	N/A
kWh Savings (RUL Period)	N/A	N/A
Peak kW Savings (RUL Period)	N/A	N/A
Therms Impact (RUL Period)	N/A	N/A
kWh Savings (RUL thru EUL Period)	1,190,034	1,190,034
Peak kW Savings (RUL thru EUL Period)	138.6	138.6
Therms Savings (RUL thru EUL Period)	N/A	N/A
Annual Non-IOU Fuel Impact (RUL Period)	N/A	N/A
Annual Non-IOU Fuel Impact (RUL thru EUL Period)	N/A	N/A
Project Costs for Baseline #1 (RUL or EUL)	Total Project Cost \$2,382,378 Incremental Project Cost \$2,132,378	Total Project Cost \$2,382,378 Incremental Project Cost \$2,132,378
Project Costs for Baseline #2 (EUL minus RUL period)	N/A	N/A
Project Incentive Amount	\$120,965	\$120,965