

Phase 2 Final Ex Ante Review Findings

Table Error! No text of specified style in document.-1: Project Information

IOU	PGE
Application ID	HEEP 74A
Application Date	7/3/2012
Program ID	PGE2206
Program Name	Healthcare Energy Efficiency Program
Program Year	2012
Itron Project ID	X166 A
IOU Ex Ante Savings Date	6/24/2013
ED Measure Name	Air Compressor Retrofit
Project Description	Replace two 75 HP medical air compressors with three 15 HP medical air compressors
Date of ED Review(s)	7/17/13, 10/1/13
Primary Reviewer / Firm	Keith Rothenberg/Energy Metrics
Review Supervisor / Firm	Kunal Desai/Itron Inc.
ED Project Manager	██████████ / California Public Utilities Commission, Energy Division
ED Policy Authorization (as needed)	
Type of Review (Desk, On-site, Full M&V, Tool)	Desk
ED Recommendation	The ex ante savings are approved at the ED estimated values of 60,403 kWh and 7.2 kW demand reduction for the RUL period, and zero impacts for the EUL-RUL period.

Measure Description

A hospital complex is served by a central air compressor system that continuously supplies compressed air for medical use throughout the campus. The measure involves replacing two 75 horsepower (HP) compressors, which alternated in operation every four hours, with three 15 HP compressors. Each 15 HP compressor has four (4) individual 5HP compressors with one of the four 5HP compressors on each unit acting as a redundant compressor which is required by code for medical applications. The three units are controlled to stage the compressors to match the demand for compressed air.

Summary of Review

This is ED's second and final review for the project. The Investor Owned Utility (IOU) submitted the following documents for Data Request (DR) 2299 for this Phase 2 review:

- Project cost documentation,
- Project installation report.

In the previous submission, the IOU estimated the project impacts to be 280,944 kWh and 21.89 kW demand reduction for the RUL period. The IOU estimated impacts for the EUL-RUL period are 84,553 kWh and 13.5 kW demand reduction. ED reviewed the data provided by the IOU and has estimated the impacts for this measure to be 60,403 kWh and 7.2 kW demand reduction for the RUL period. There are no impacts for the EUL-RUL period. The recently submitted IOU installation report reflects the ED estimated values for the project. The IOU has provided cost documentation which shows the estimated cost for the project to be \$275,439.

Review Conclusion

This is the final ex ante review for this project. The ex ante savings are approved at the ED estimated values of 60,403 kWh and 7.2 kW demand reduction for the RUL period. There are no claimable impacts for the EUL-RUL period. As previously stated in the Phase 1 EAR, ED expects that measures installed for early retirement projects to be more efficient than industry standard practice. The IOU did not demonstrate that to be the case for this project. However, ED has approved savings for this ISP measure as a one-time exception.

Summary of ED Requested Action by the IOU

1. None

Table 1-2 Energy Savings Summary and

Description	IOU Ex Ante Claim	ED Recommendations
First Year kWh Savings	280,944	60,403
First Year Peak kW Savings	21.89	7.2
First Year Therms Savings	0	0
kWh Savings (RUL Period)	280,944	60,403
Peak kW Savings (RUL Period)	21.89	7.2
Therms Impact (RUL Period)	0	0
kWh Savings (RUL thru EUL Period)	84,553	0
Peak kW Savings (RUL thru EUL Period)	13.5	0
Therms Savings (RUL thru EUL Period)	0	0
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)	\$275,439	\$275,439
Project Costs for Baseline #2 (EUL minus RUL period)	Not provided.	\$0
Project Incentive Amount	\$5,548	\$5,548