

## **Phase I Ex Ante Review Findings**

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

<b>IOU</b>	PG&E
<b>Application ID</b>	W215-01.01
<b>Application Date</b>	Not Provided
<b>Program ID</b>	PGE2233
<b>Program Name</b>	Wine Industry Efficiency Solutions (WIES)
<b>Program Year</b>	2012
<b>Itron Project ID</b>	X232
<b>IOU Ex Ante Savings Date</b>	Not Provided
<b>ED Measure Name</b>	LED Lighting Retrofit
<b>Project Description</b>	Replacement of 35W MR16 halogen incandescent reflector bulbs in a winery showroom/tasting area with 7W LED bulbs.
<b>Date of ED Review(s)</b>	11/30/12
<b>Primary Reviewer and Firm</b>	Charles Ehrlich/Itron
<b>Review Supervisor and Firm</b>	Joseph Ball/Itron
<b>Review Type (Desk, On-site, Full M&amp;V, Tool)</b>	Desk
<b>ED Recommendation</b>	Project is declared ineligible due to lack of sufficient remaining useful life of the baseline bulbs and the non-permanency of the replacement bulbs. As in the EAR for PG&E 2K1278678C/X069 issued 11/7/12, screw-in replacement bulbs are non-permanent and do not qualify as a "custom impact" measure type as per program guidelines and IOU policy.

## **Measure Description**

This project involves the replacement of fifteen (15) 35W MR16 halogen incandescent reflector lamps in a winery tasting room with the same number of 7W LED lamps. The annual energy savings due to this measure is listed as 1,223 kWh, and the total incentive amount was calculated to be \$103.15.

## **Summary of Review**

Documentation for the review consisted of:

- W215-01.01\_Lighting\_Calc\_Pre-Calc.xls
- W215-01.01\_Lighting\_Pre-Calc\_Methodology.doc

The lighting audit conducted at the winery indicates that the lamps to be replaced are used during operating hours of the tasting room, roughly 2900 hours per year. At 2900 hours of use per year the baseline halogen lamps will just barely last one year, perhaps longer if they are connected to a dimmer. However, since some of the pre-existing lamps will be nearly burnt out, the average remaining useful life (RUL) for this site will be less than one year. The replacement technology of 7W LED lamps is just as non-permanent as a screw-in CFL.

## **Review Conclusion**

The baseline halogen lamps do not have sufficient RUL and the replacement LED lamps are non-permanent. Therefore, the replacement of the halogen lamps does not qualify as a "custom impact" measure type as per program guidelines and IOU policy.