



U.S. Department of Energy

National Environmental Policy Act- Determination Form

Program Office: EERE-Nevada Office

Project Title: Building and Parking Lot Lighting Energy Efficiency Retrofits

Project Location: Illinois, Village of Plainfield

Proposed Action or Project Description:

RIN#:

ARRA Project:

The scope of this project will be the replacement of existing metal halide luminaires with LED retrofit replacement luminaires in two locations: 1. Interior garage lighting at Public Works Facility - existing 250W(50 each) and 400W(20 each) metal halide lamps to be retrofitted with approximately 200W and 320W LED luminaires Energy savings to be achieved: $((50 \text{ each} \times 50W) + (20 \text{ each} \times 80W)) \times (9 \text{ hours average usage per day}) \times 250 \text{ days per year} = 9225 \text{ KW-HR per year}$ Indirect savings to be achieved - 70,000 hours LED lamp life versus 10,000 hour metal halide lamp life results in 1/7 of the time and material spent on replacing lamps versus comparable metal halide lighting 2. Exterior parking lot lighting at Public Works Facility - existing 250W(32 each) and 350W(27 each) metal halide lamps to be retrofitted with approximately 200W and 280W LED luminaires Energy savings to be achieved: $((32 \text{ each} \times 50W) + (27 \text{ each} \times 80W)) \times (12 \text{ hours average usage per day}) \times 265 \text{ days per year} = 16,460 \text{ KW-HR per year}$ Indirect savings to be

Class of Action(s) Applied:

- B2.5 Safety and environmental improvements of a facility, replacement/upgrade of facility components

- B5.1 Actions to conserve energy

*-For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, see Subpart D of 10 CFR 10 21 [Click Here](#)

This action would not: threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including DOE and/or Executive Orders; require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities, but may include such categorically excluded facilities; disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; or adversely affect environmentally sensitive resources (including but not limited to those listed in paragraph B.(4)) of Appendix B to Subpart D of 10 CFR 1021). Furthermore, there are no extraordinary circumstances related to this action that may affect the significance of the environmental effects of the action; this action is not "connected" to other actions with potentially significant impacts, is not related to other proposed actions with cumulatively significant impacts, and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211.

Based on my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer:

Okalene J. Lawrence

Date Determined: Sep 1, 2011

Comments: