

# The Value of ANLC LLLC With Incentives





Advanced Networked Lighting Controls (ANLC)  
Luminaire Level Lighting Control (LLLC)

# Case Study Paradise High School

# Paradise High School Case Study

- Annual 254,647 kWh savings with an operation cost reduction of \$19,500 per year (without ANLC LLLC controls \$16,000)
- Simple payback of 1.1 years when incorporating the Pacific Power Incentives of \$45,000
- No lighting maintenance cost for 10+ years
- Finding additional savings post-install through Measure and Reporting functions of the ANLC LLLC software

- Energy Savings Benefits Realized



# ANLC LLLC Non-Energy Benefits

- Just like at a movie theater when the lights dim down, the audience, all at once instinctively knows the movie is about to start.
- At Paradise High School, the local classroom controls allow the instructor to set lighting scenes for the chosen activity. This communicates the expected behavior to all students with a push of a button.





# Advanced Exterior Dimming (AED)

- Control must be integral to the LED fixture or be fixture-mounted
- Networking is not required
- Must dim (not on/off)
- Control can be occupancy or schedule based
- The AED sensors must result in a minimum of 35% energy savings. Examples may include, but not limited to:
  - A. Reducing fixture power by 70% or more for a minimum of 6 hours per night.
  - B. Reducing fixture power by 75% or more when the area has been unoccupied for 15 minutes or less.



# Advanced Controls

- ANLC systems are a combination of sensors, network interfaces and controllers that affect lighting changes to luminaires but do not include the luminaires themselves.
- The ANLC controls must be on the DesignLights Consortium (DLC) Qualified Products Lists.
- LLC systems must be implemented with at least two energy-saving strategies with at least one sensor-based option.





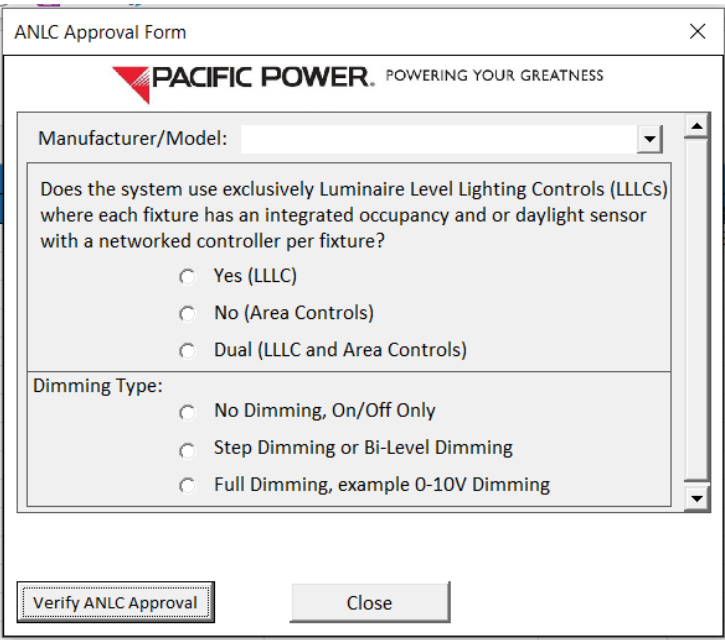
# ANLC LLLC Vendor Incentives

- Receive a cash vendor incentive of \$50 per fixture for helping Pacific Power business customers save money on their energy improvements with a qualifying ANLC retrofit, including LLLCs.\* This offer is available for incentive offers issued starting January 1, while funding last through 2025.
- The ANLC vendor incentive is \$50 per fixture. The maximum vendor incentive is \$5,000 per customer location.

\*Pre-approvals may be required. Restrictions apply.



# New Incentive Lighting Tool ANLC LLLC Data Entry



**ANLC Approval Form**

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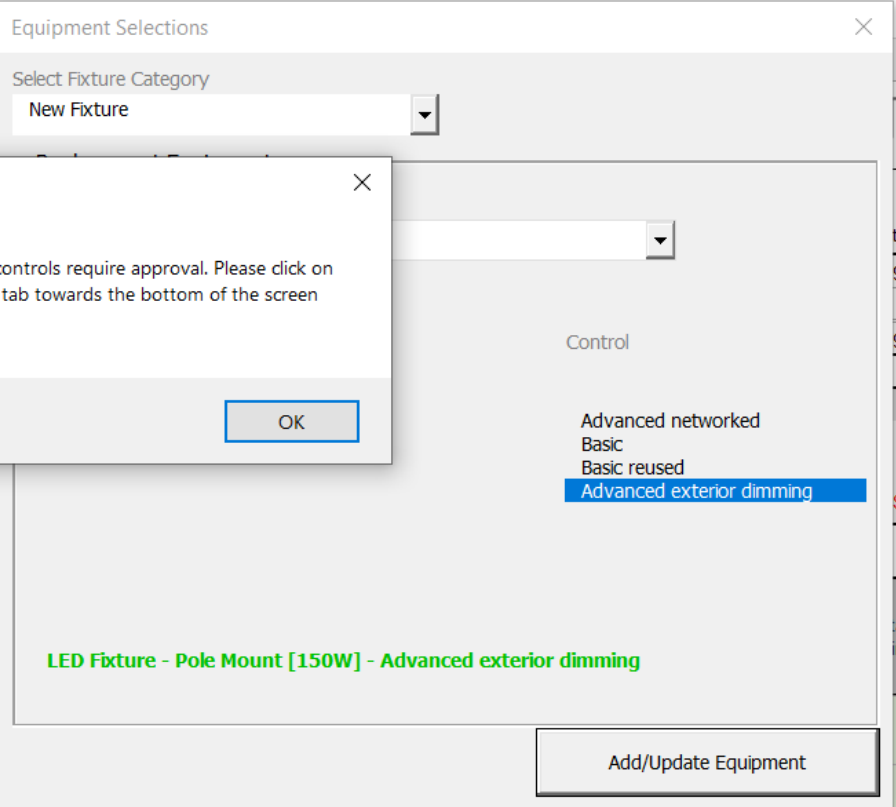
Manufacturer/Model:

Does the system use exclusively Luminaire Level Lighting Controls (LLLCs) where each fixture has an integrated occupancy and/or daylight sensor with a networked controller per fixture?

- Yes (LLLC)
- No (Area Controls)
- Dual (LLLC and Area Controls)

Dimming Type:

- No Dimming, On/Off Only
- Step Dimming or Bi-Level Dimming
- Full Dimming, example 0-10V Dimming



**Equipment Selections**

Select Fixture Category

New Fixture

**ANLC Approval Required**

Advanced exterior networked controls require approval. Please click on the Exterior Controls Approval tab towards the bottom of the screen and fill out the approval form.

Control

- Advanced networked
- Basic
- Basic reused
- Advanced exterior dimming**

**LED Fixture - Pole Mount [150W] - Advanced exterior dimming**

Quantity	Fixture W (Existing, Actual)	Space W (Existing, Actual)	Project
8,760			
4,380			
112		2,464	LED Fixture -
459		1,836	LED Fixture - dimming

Project Status: Construction

Total Savings: \$4,380

SPB w/o Incentive



Questions?

