

TRACY FISH COLLECTION FACILITY UPGRADES WITH ENERGY EFFICIENT LED LIGHTING

By Lisa Navarro, Public Affairs Specialist



The Tracy Fish Collection Facility (TFCF), located in the Central Valley of California near Stockton, was developed and built by the Bureau of Reclamation with interagency cooperation in the 1950s as part of the Central Valley Project. The purpose of the TFCF is to protect fish entering the Delta Mendota Canal by way of the C.W. "Bill" Jones Pumping Plant.

Since the 1950s, improvements have been made at the TFCF which have greatly improved operations. With the 2007 signing of Executive Order 13514 (EO 13514), which focused on Federal

leadership in environmental, energy and economic performance, the TFCF has continued to improve the facility with advanced energy conservation measures. The goal of the Mid-Pacific Regional Energy Management Program is to exceed EO 13514 goals of reducing energy usage of 3 percent per year.

The TFCF holding tank building has a high electrical demand. The lighting component contributed the most to this electrical demand; therefore, a light-emitting diode (LED) lighting upgrade was selected to reduce electrical consumption. Upgrading the facility lights was a natural evolution of the energy-saving move as LEDs entail low maintenance while promising a longer lifetime. The original fixtures had an estimated life of 16k hours, while the LED fixtures have an estimated life of 50k hours.

As a result, a team lead by Thomas Walden, Tracy office (SCCAO), upgraded the TFCF holding tank building with LED lights. The project was completed April 23, 2014. Twenty fixtures were replaced with LED fixtures and two fixtures were LED retrofitted. The TFCF will realize a reduction in annual energy usage while also reducing greenhouse gas emissions each year. The TFCF will also appreciate a boost in safety, as well as a reduction of maintenance costs, as replacement of the original fixtures was hazardous and labor intensive due to the high bay design of the building. Big thanks go to Thomas Walden, ML Nash, Armando Godina, Terry Bartlett and Hubbert Booze for delivering this cost-saving renovation!

For technical project details, please contact Hubbert Booze, Mid-Pacific Energy Management Specialist, at 916-978-5312 or hbooze@usbr.gov. For installation and maintenance project details, please contact Thomas Walden, Power System Electrician, at 209-836-6230 or twalden@usbr.gov. For more information, visit [MP Regional Energy Management Program \(Intranet\)](#).