

## Case Study:

## MultiCare Health Systems – Tacoma, Washington

### Williams Induction Lighting Helps New Power Plant Shine In Historic Tacoma-Area Neighborhood



#### Job Specific Information:

- Fixture and Quantity: 17 ICEAL2 surface-mounted luminaires equipped with 150-watt induction lamps, and 50 ICEAL1 surface-mounted luminaires equipped with 150-watt induction lamps and remote ballasts.
- Mounting Height: 35 feet
- Spacing: 12 feet on center
- Light Output: Average of 26 footcandles maintained on surfaces
- Color Rendering: Induction lighting delivers an 80 CRI (color rendering index), which makes interior spaces look truer and brighter than those lit by metal halide, high-pressure sodium or mercury vapor lighting.
- Lamp Life: Williams induction fixtures will operate up to 25 years, based on an average operating time of 10 hours per day. After 60,000 hours, the ICETRON lamp still delivers 70 percent of original lumen output.

When the operators of Tacoma General Hospital decided to build a new power plant, they went to great lengths to ensure the architectural style would complement its location in one of the city's historic neighborhoods.

To help achieve that objective—while delivering energy efficiency and reliability at the same time—the design team tapped the benefits of induction fixtures from H.E. Williams, Inc.

“This structure was artfully designed with big windows intended to minimize the fact that it was housing a power plant,” said Rick Trainer, lighting designer with Wood Harbinger Mechanical and Electrical Engineers in Bellevue, Washington. “Because of those windows, we used induction as lighting, which allowed us to illuminate the space without it being obvious how it was done.”

Working in concert with Frank Disch, outside sales representative for ERW Lighting in Seattle, Trainer chose the Williams ICEAL1 area lighter with remote ballasts for the new power plant. Surrounded by a fully enclosed and gasketed die cast housing that minimizes vibration, this durable fixture delivers targeted area lighting in temperatures up to 131° F, and the remote ballast allowed for easier maintenance access. In addition, Williams induction lighting comes on instantly, eliminating the need for lengthy warm-up periods.

While instant restrike capability was a major advantage, power consumption and durability were also key factors. Because the Williams induction luminaire uses less than half the energy of a 400-watt metal halide fixture, it helped the overall project meet the requirements for LEED Silver certification. In addition, the Sylvania ICETRON electrodeless lamps in Williams' induction lighting products are designed to operate for up to 100,000 hours. That's 10 times as long as comparable metal halide fixtures—and four times the average lamp life for high-pressure sodium or mercury vapor luminaires.

“With large boilers and high ceilings that make it hard to service light fixtures, we had to find a product they could pretty much put up and forget from a maintenance viewpoint,” said Disch. “We went with H.E. Williams because we didn't want to recommend a fixture that had to be replaced in a couple of years, and the quality on this product is just superb.”

