

PROCEEDINGS: 2012 Healthcare Engineering Society of Northern Illinois (HESNI) Annual Conference

DATE: May 3-4, 2012

SUBJECT AREAS: Operations; design, and compliance

THEME: Your Physical Plant – Internal/External Cares and Concerns

ABSTRACT: Physical plants have needs associated with their overall performance from an efficiency level as well as a quality, cost and compliance perspective. We typically look at the boiler room as a box without forethought as to what we are doing to the facility it supports or what the facility is returning to the boiler room. This presentation will address the concepts of looking at the production setting (boiler room) and distribution/end user as one in order to maintain harmony and balance throughout the entire system.

KEY TOPIC POINTS:

- Operating the cash register we call the physical plant
- Why do we operate at the pressures we do?
- Steam verses hot water
- Efficiency gains in the boiler room
- Distribution issues
- End users
- Return system
- Summer verses winter loads(operating at a lower pressure)
- Preventative maintenance practices

TAKE AWAY POINTS:

- Identifying areas for potential energy improvement
- Benchmarking energy cost savings for project initiatives
- Heighten awareness of how the entire system operates as one
- Best practices for equipment selection and operation
- Discuss alternate management techniques for operation/maintenance of plant

PRESENTOR: Jay Ehrfurth, PE
Director of Project Development – Power
The Boldt Company

SPEAKER BIO:

Jay Ehrfurth, P.E.

Mr. Ehrfurth is currently employed with The Boldt Company as Director of Project Development-Power. In this role, Jay supports the repair, modification or construction of centralized heating/power facilities as found in hospitals, industrial, higher educational campuses, airports, institutions and correctional facilities.

Before joining Boldt, Jay served as the State Chief Power Plant Engineer and team leader for the Wisconsin Department of Administration's Division of State Facilities, Heating Plant Engineering group for 9+ years. This group of engineers and professionals monitor central plant performance, statewide fuel purchasing, plant emissions, and manages construction projects for 35+ state owned heating/cooling/power plants. These plants combined are capable of generating over 5,000,000 lbs per hour of steam, over 15 MW of electricity and over 71,000 tons of cooling.

Prior to that, Jay worked for Georgia-Pacific(Fort Howard) for 16 years in various positions from engineering to maintenance supervisor to power plant management, overseeing the operational portion of a 1,200,000 lbs per hour 900F/900psig coal fired plant with 90+ MWs of electrical generation. Served as part of a start-up team for a green field plant site in Georgia with CFB boilers and two 20MW CT's with HRSG.

Jay also spent 5 years with a consulting engineering firm in the Fox River Valley as their power and utility engineer mainly performing consulting duties to the pulp and paper industry. Jay is a Licensed Professional Engineer in the State of Wisconsin and holds an ASOPE-Master Chief's license, NIULPE-Chief's License and ASOPE-Technical Instructor credential.

Jay is on the board of directors for the Wisconsin Boiler Inspectors Association (WBIA), American Society of Power Engineers (ASOPE) – Wisconsin Region 2, American Society of Power Engineers (ASOPE) – National and various program advisory boards for Wisconsin area Technical Colleges.