



## Seacrest Studios Opens at CCHMC

Tina Schweizer, Mechanical Engineer



Check out this highlight video <http://youtu.be/F1MRD-bNIXk> of the studio launch.

Seacrest Studios at Cincinnati Children's Hospital Medical Center (CCHMC) is a 1,000 square-foot multimedia studio that will provide education and entertainment for CCHMC's patients as well as a "creative outlet" for kids to be kids. This is the sixth Seacrest Studios to open across the country since 2009. Seacrest Studios broadcasts to the hospital on channel WKID 33.

HVAC design functions efficiently with as few as two people in the studio, yet has the capacity to keep as many as 30 people comfortable. Mike Stiles was instrumental in coordinating all of the A/V, power, and lighting needs from RSF and CCHMC including planning for future flexibility and equipment.

The Ryan Seacrest Foundation (RSF) donated a large portion of the A/V equipment for the studio. The design team worked closely with RSF to create an exceptional broadcast studio and media center. F&H engineered the Fire Suppression, HVAC, and Electrical systems that support the studio. The

Both inpatients and outpatients are invited to visit the space to do their own broadcasts, performances and recordings. They can also meet with special visitors like The UC Bearcats Football team, The Fresh Beat Band, Cincinnati Red Devin Mesoraco, Drew Lachey, and many more!

**Follow WKID 33 on twitter at <https://twitter.com/WKID33> to see who will be visiting!**



### Dexter named as National Society of Professional Engineers Fellow

F&H's Dave Dexter, P.E. was named a Fellow of the National Society of Professional Engineers. This honor is bestowed to active Society members who have demonstrated exemplary service to their profession, their Society, and their Community. With a career reaching over 20 years in the plumbing profession this is a well-deserved honor. Congratulations!

### Fosdick & Hilmer Presents at Ohio Energy Network Lunch and Learn Event

Jamie Landers, Senior Engineer

On April 9th Jamie Landers and Brian Lloyd attended the Ohio Energy Network "Lunch, Learn and Do on Distributed Generation & Combined Heat & Power" in Independence, OH. The event attracted 50 individuals from across Ohio including energy users from Industry, Universities, Hospitals, and Government. Jamie gave a presentation to the attendees discussing the "Initial CHP Project Feasibility." This focused on the process of taking a CHP project from an idea through scope definition and initial cost/benefit analysis. CHP equipment Original Equipment Manufacturers were well represented at this event. Solar Turbines was in attendance. Mitsubishi Heavy Industries and Siemens gave presentations on their product offerings in the 1-20MW range.

## ORNL Modernizes Control Room

Joel Grubbs, Vice President

F&H was contracted directly by UT-Battelle, Oak Ridge National Laboratory (ORNL), to modernize their operator workstations and provide a unified software application for a new control room which was being constructed as part of a larger central steam plant project. It was ORNL’s desire to create a “showcase” control room consistent with the campus’s image of leading edge technology and at the same time create a productive, safe environment for their steam plant operation staff. The existing operator workstation graphics had been developed by multiple vendors, each using different application software. The result of this was a system that lacked redundancy, alarm management, a security model, consistent navigation, and standard symbology/color schemes.

The F&H scope of work for the project included control room lighting design, furniture selection/specification, procurement of computing infrastructure including large-format wall-mounted screens and application software, workshops with operations staff to secure buy-in with regard to graphic layouts/color schemes, miscellaneous changes/improvements, and final development, testing and commissioning of the new unified platform application.

The key to the success of this project involved following a mutually agreed to sequence of tasks:

- Creating Unified Architecture Standards
  - Screen navigation
  - Symbols
  - Faceplates
  - Color usage
  - Data quality indicators
  - Alarm/event conventions
  - Object model (key to maintainability)
  - Security model
- Standards Design Review
- Incorporate Standards Design Review Feedback
- Develop System Object Database
- Develop Graphics
- Development Design Review
- Incorporate Graphics Design Review Feedback
- Deploy Objects and Graphics
- Test Unified Architecture System

Once the control room had been constructed, the existing system was relocated temporarily to the new control room in order to minimize potential steam production downtime due to the mission critical nature of the steam plant. After the relocation was completed, the complex task of phasing in the new unified system could then begin. As screens/graphics/functional components were developed, they were deployed to the operator workstations, tested in parallel with the existing system and turned over to the operations staff. The final turnover of each phase was accompanied by hands-on training sessions for the steam plant operators.

## Hideaway Pizza Opens Store

Jason Tippett, Controls Engineer



F&H provided mechanical, electrical, plumbing, and fire suppression engineering for a new 5,500 square-foot restaurant installed in the historic Johnstone Building in downtown Bartlesville, OK. The original structure was erected in 1910 and placed on the Oklahoma Historic Buildings list in 1975. It was gutted by an arsonist fire in 2009 and almost demolished, before being purchased by Clyde Sare with a plan to restore the building.

The space in which the restaurant is housed was once three separate buildings, separated by interior four course brick walls. Piping for plumbing and fire protection had to be routed through limited existing openings in these walls. Due to the location of the building; occupying the full corner of the block from sidewalk to sidewalk, to back alley; HVAC equipment could not be mounted at ground level adjacent to the building. The solution was a series of split systems, with high-efficiency condensing units on the roof of the apartments and 95.5% AFUE natural gas furnace units on a mezzanine hidden from view in the restaurant space.

With limited exterior space in which to locate the walk-in cooler, exhaust hoods, and grease trap, integrating a commercial kitchen presented another challenge. Careful design allowed all the kitchen requirements to be met without sacrificing the architectural design that makes the Johnstone building a historic Bartlesville landmark.