

Universal Energy News

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Turnover Management

by BOB MCILVAIN

At the conclusion of all the hard work of completing a successful Commissioning and Startup (CSU) service, the plant installation and testing documentation is ultimately turned over to the Project Owner. Documentation of construction completion, pre-commissioning and equipment testing, commissioning and startup activities and plant performance is critical to a comprehensive plant turnover for Operation.

Universal Energy recognizes the critical effort of Turnover Management and incorporates this function into all CSU Services, utilizing a standardized procedure in the development and completion of system and equipment turnover packages¹. Additionally, UEI utilizes standardized equipment/system checkoff forms to document all test data.

Turnover Packages are produced for each plant system/component, that are inclusive of construction data, subcontractor source data, equipment and system functional test reports, and a final Turnover Punchlist, which together provide the final validation of the plant's status relative to commencing Plant Operations.

Obviously, this is a collaborative effort between the construction contractor and the CSU team, that needs to be coordinated early in the construction phase of the project. This also emphasizes the value of engaging the CSU team early in the project to ensure that the turnover efforts are integrated into the overall project execution plan. The specific value of this documentation interface is Quality Control. This cooperative effort ensures that each party performs their respective responsibilities.

The end result is that, via an effective Turnover Management process, the facility Owner is assured that the project documentation exists to cover any associated plant failure risks, to secure equipment warranty provisions, and to validate a safe and comprehensive handover of the plant to the Operations group.

UEI relies on our years of experience and successful CSU/Turnover Management to demonstrate our capability to execute this critical process that helps to ensure a higher standard of plant safety and reliability.

¹ UEI Commissioning and Startup Manual, Volume 1, Startup System Turnover (UEI-SU-117)



UEI Headquarters
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Project Updates

News about selected UEI Projects, services and people.

Yale University CHP

by JOHN LONE

In June of 2009, UEI was awarded the contract with Yale University to provide the Commissioning and Startup Management services for the Sterling Power Plant Combined Heat and Power installation. UEI Startup Manager, John Lone, is responsible for managing the commissioning and startup, training and procedures development, testing, and turnover to operations.

The Yale SPP Combined Heat and Power project is currently in the late stage of construction and into commissioning and startup. Initial project activities include planning and coordination of scheduling between the construction and startup groups, development of turnover documentation, witnessing Factory Acceptance Tests, and operator training. Training was conducted by UEI's Roy Crigler, and the startup team is progressing toward systems completion.

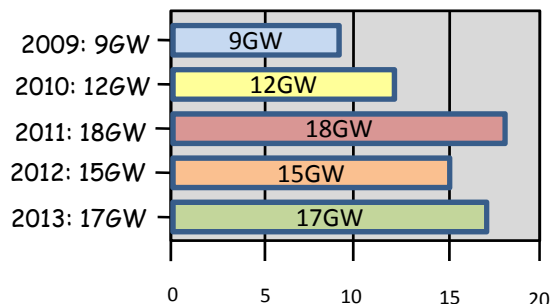
The purpose of the CHP installation is to utilize steam from the Heat Recovery Steam Generators to replace existing steam production from fired boilers, and to allow the university to self-produce sufficient electrical power to replace power currently purchased from the local utility.

At present, the project continues on schedule with "first fire" on both Turbines in April and commence Performance & Reliability testing in late May and June.

Did You Know?

The Gas Turbine Mini Boom

Planned installed capacity increases (approx.) for gas turbines and combined cycle projects ¹:



¹ Combined Cycle Journal, 1Qtr2010