

Nuclear Power Products and Services



Innovation Cooperative

Curtiss-Wright's Innovation Cooperative strives to achieve outage excellence through a two-part planning and observation process. These two distinct but interconnected components, the Initial Discovery Meeting and the Outage Observation Program, build on the knowledge of both plant employees and our outage specialists to better optimize outage processes and remove areas of difficulty or concern. This process allows us to leverage rapid prototyping principles to accelerate the problem solving process and identify effective solutions while preventing the stalling or struggling typical to innovation initiatives.

Every aspect of an outage is taken into consideration, and we encourage multiple plant disciplines, such as reactor services, maintenance, Health Physics, and ALARA, to participate in the Initial Discovery Meetings wherein outage activities are discussed in detail. Customers can expect Curtiss-Wright members to participate openly and actively, and to consider all outage activities by offering a questioning attitude.

Contact us for a proposal to offer this Innovation Cooperative as a service.

Innovation Cooperative

Outage and Fuel Management Solutions

Initial Discovery Meeting

The first step in the process is the Initial Discovery Meeting, where Curtiss-Wright's Innovation Team members meet with plant personnel several months prior to an outage, discussing areas of difficulty or concern that limit outage excellence in preparation for formal outage observations. All related departments are encouraged to participate in this initial meeting to identify these "pinch points" that are blocking better performance and operation.

Working closely with our customers via a structured process, a solution framework is developed to target limiting factors and quantify performance values, such as savings in critical path time, reductions in person-Rem exposure, CRE quartile improvement, and/or increased worker safety. This framework is then put to work during the Outage Observation Program phase.

Outage Observation Program

During the subsequent outage, Curtiss-Wright's Innovation Team conducts an Outage Observation, wherein we observe the activities addressed during the Initial Discovery meetings and recommend other outage activities that may be candidates for future improvements. As a part of the program, observations are delivered in a written report following the Outage Observation period along with details of all of the discussed and observed activities. Our team also provides recommendations for further improvement in other areas we may have observed during the outage.

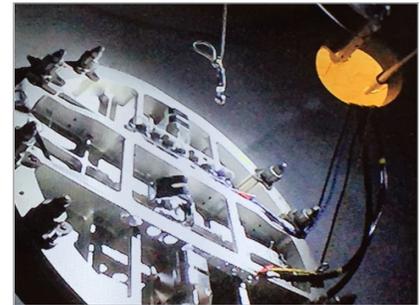
Key Outcomes of Curtiss-Wright Innovations

Below are some of the key outcomes we focus on during Innovation Cooperatives:

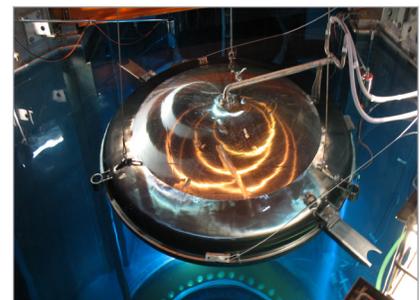
- Preventive maintenance optimization
- Predictive based monitoring and analytics
- Reduction or elimination of plant walk downs
- Automated tracking, trending, and reporting of plant data
- Data integration and application of emerging digital technologies
- Wireless sensing and advanced anomaly detection
- Supply chain cost savings and improved inventory control / optimization
- Task efficiency and critical path time reduction
- Improved personnel safety, including reduction in radiation exposure
- Maintenance and reliability



Increased Worker Safety with the Multi-Stud Lifting System



Reduced Radiation Exposure with the Zero Entry Nozzle Dam



Critical Path Time Savings with the Temporary Reactor Head

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