

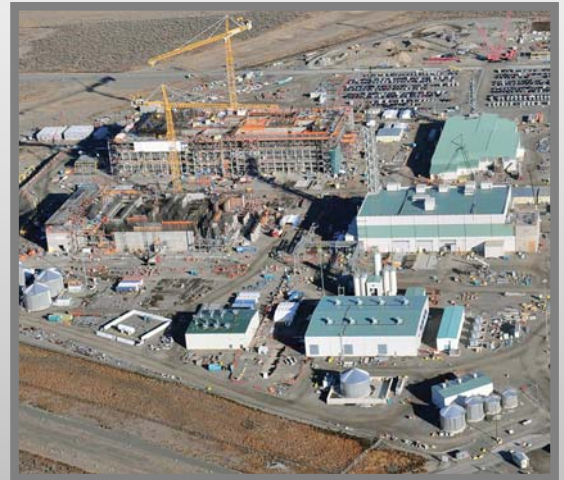
L&A successfully assists organizations with preparation and planning for startup and commissioning of systems and facilities, both nuclear and non-nuclear, and mentors them through the process from planning through completion of commissioning, to full operations.

## CAPABILITIES

L&A has senior personnel who have extensive experience with DOE, the U.S. Navy, and the commercial nuclear power industry in developing plans for startup and commissioning, and preparing the organization for reviews, including operational readiness reviews, that are a prerequisite for startup and commissioning.

Working with the client, L&A can:

- Begin by reviewing the requirements for startup and commissioning
- Develop the startup and commissioning plan and procedures
- Assist in executing those procedures
- Periodically assess the client's progress
- Perform an operational readiness review



In the event that startup requires formal reviews by independent entities, L&A will prepare the client for those reviews by conducting pre-reviews and interviews with client personnel. During those reviews, L&A will be available to assist the client in correcting any deficiencies, and will provide advice and expertise as required.

## PROJECT EXPERIENCE

L&A associates have extensive experience with startup on conventional and nuclear facilities. L&A personnel have prepared a detailed startup and staffing plan for the first-of-a-kind Hanford Waste Treatment Plant for DOE. This plan lays out DOE roles and responsibilities, staffing, and training and qualifications for the federal oversight function during startup of the Low-Activity Waste Facility, Analytical Laboratory, and Balance of Facilities, as well as the overall oversight program and prerequisites for startup activities. L&A



also successfully supported the Critical Decision-4 Operational Readiness Review of the LLNL National Ignition Facility, and the complex transition of the Y-12 and Pantex sites with hundreds of facility walk-downs.

Other experience includes startup of U.S. Navy ships and their systems, as well as nuclear power plants, commercial nuclear facilities, and DOE facilities. L&A associates have experience testing U.S. Navy ship components and systems, including startup and commissioning, for both shipboard and prototype land-based test sites.

**LONGENECKER & ASSOCIATES, INC.**

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