

Nuclear Power Industry

MPW's Nuclear Services division offers a full range of industrial cleaning applications and commissioning services that minimize downtime and optimize nuclear power plant production. From hydro-lazing internal surface areas of process and steam piping systems and surface preparation for NDE testing to hydro excavating a Greenfield for exploratory work, MPW's team of engineers evaluates each cleaning challenge and determines the optimal solution. The MPW advantage guarantees personnel with over 30 years of experience, a commitment to safety and continuous improvement, and a proven regulatory compliance record.

MPW provides endless capabilities for vacuuming applications and a wide range of hydro-lazing pressures. Frequent applications include hydrostatic testing; emergency service water (ESW), raw water and reactor cooling water (RCW) pipe cleaning; cooling tower component and circulation filter screen cleaning; and Project management. Maintaining supply and return piping systems is crucial in preserving efficient production and keeping costs down. MPW's state-of-the-art, self-rotating cleaning nozzles restore flow capacity to your raw water or service water system. For more sensitive jobs, MPW's Cryojectic® Cleaning process uses dry ice pellets to remove surface contaminants without abrasives or chemicals. The process removes resins, rubber, paints, coatings and contaminants from delicate equipment, such as energized electrical systems or radioactive surfaces. This method works without a heat source and without generating a secondary waste stream.

The Chemical Cleaning division of MPW also provides a myriad of valuable services for the nuclear industry including restoring and maximizing operating efficiencies for condenser and heat exchangers, oil flushing and filtration, pre-operational cleaning of new construction piping and boiler systems, and acid and caustic tank cleaning. A comprehensive selection of solvents and inhibitors can be used depending on the specific chemical cleaning application. All jobs are



MPW's Nuclear Service division consists of knowledgeable and experienced professionals with a primary focus on specialized nuclear service and industrial cleaning projects.



Surface preparation and NDE testing & inspection use ultra-high (UHP) waterjetting (40,000 p.s.i.) technology to effectively remove material without damaging the substrate. UHP is also used for demolition and precision cutting in environments where flames or sparks cannot be tolerated. UHP applications supersede traditional grit or sand blasting processes because it minimizes post-process cleaning and eliminates environmental concerns.

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designed and engineered specifically for material/deposits to be removed and the metallurgy of the system to be cleaned.

MPW's Water Management division offers complete water purification systems and services available for any circumstance including emergencies, pre-commissioning, planned outages and scheduled maintenance. Our versatile water systems produce various flow rates water purification outputs, custom designed in mobile form for emergency and short-term needs. For long-term needs, MPW engineers water purification systems for permanent installation on-site. In-plant systems are efficient, skid-mounted units that require minimal space. Our build, own, operate and maintain program provides outsourcing water services without capital expenditures.

MPW also offers a variety of video services options, with equipment and capabilities to perform video inspections and documentation of pipe systems (from 2-inch to 60-inches in diameter, and larger), and other essential vessels, tanks, process system components and equipment. Whether remotely operated or manually controlled, "state-of-the-art" video equipment offers flexibility and reliability.

MPW's experienced engineering and service personnel will assess your needs and identify the most appropriate cleaning methodology for your unique conditions. In addition to MPW's full range of services, our in-house fabrication engineers design and build specialized tooling, if needed, to maximize cleaning efficiency. The result is a comprehensive cleaning process that removes debris, scale and corrosion products, including those resulting from microbiological influenced corrosion (MIC) and biological films, with out harming they tube metallurgy.

Whether hydro-lazing, chemical cleaning, or high purity water services are required, MPW has the experience to safely and effectively meet your needs.



The tightest particle count standards are achieved for oil flushing lubricating systems. This is especially critical to turbine/generator systems. MPW provides engineering, high velocity/volume pumps, filters and testing.



MPW mobile deionization (DI) systems are custom loaded with ion exchange vessels to meet specific water requirements. DI systems are regenerated off-site to limit time and on-site waste. Engineers use these units to accomplish steam blows at commissioning plants.

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