

## Process Water Treatment Plant

Chemical Company – Virginia, USA

### Client Benefits

A large chemical company in Virginia needed to upgrade and improve the systems that pre-treated river water used for both process and boiler feed-water. Peregrine was able to provide a cost effective method for this company to significantly extend the life of its steam boilers, improve the quality of production, and reduce overall operating costs.

### The Opportunity

The company was searching for a way to replace and upgrade outdated water purification facilities, improve water quality and equipment reliability, and provide capacity to meet all of the plant's purified water requirements.

### The Solution

As a result of the analysis performed by Peregrine under the Utility Services and Lease Agreement, Peregrine funded and constructed a new water demineralization facility that satisfies the company's objectives to enhance product quality while improving the reliability of water purification systems on-site.



The following is an overview of the scope of work:

- New 1350 gpm utilities water treatment facility, based upon proven demineralized water technology
- The system clarifies, filters, demineralizes, and de-gases previously used river water
- PLC based controls allow operations from the central utility area or local stations
- New building and waste heat recovery system

The project was completed in August 2003.