

Duke Energy Generation Services (DEGS) entered into a 20-year agreement with Celanese Acetate to own, operate, maintain and upgrade the utility facility in Narrows, Virginia (Celco). Duke Energy Generation Services provides steam, electricity and treated water, among other services. Treated water types include demineralized water, softened water, potable water and well water. All treated water starts out as river water, which is pumped out of the New River. Steam pressures range from 10 psig to 600 psig.

As part of the agreement, DEGS designed and built certain modifications required by the 60-year-old facility to improve reliability and environmental performance. Major plant equipment includes nine boilers, of which seven are coal-fired and two are gas-fired. There are four turbine generators whose total combined generating capability is 28 megawatts. Two turbine generators are condensing machines and two are back pressure machines.

The Narrows complex manufactures acetate flake, fiber and filament. It is Celanese's largest such operation in North America. The complex requires highly reliable supplies of steam and electricity to process raw wood fibers into the various products, including tow band and single strands, which are spooled for shipment to Asian countries for fabric manufacturing in the clothing industry.

Services:

- Steam
- Treated water
- Refrigeration
- HVAC
- Maintenance

Project Highlights:

- Operates and maintains existing steam, electric, and treated water systems
- Performs upgrades to increase the reliability of the existing utility infrastructure
- Evaluates and implements front-end engineering study for coal boiler compliance relating to Industrial Boiler Maximum Achievable Control Technology (MACT) legislation

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