

# Environmental Qualification Testing Services

## Background

Westinghouse can save utilities time and money by providing nuclear steam supply system and balance-of-plant safety-related Class 1E parts, components and assemblies that are qualified to plant-specific requirements. The Nuclear Automation facility located in New Stanton, Pennsylvania (USA) furnishes a direct source for nuclear-grade equipment and safety-related qualification services.

Integrated in-house environmental qualification and commercial dedication services allow Westinghouse to supply virtually any part for Class 1E applications.

## Description

Westinghouse provides critical support to nuclear utilities and commercial customers by environmentally qualifying safety-related system equipment parts, components, and assemblies to plant-specific and/or generic requirements.

At its New Stanton facility, Westinghouse has designed a walk-in environmental chamber to conduct temperature and humidity testing of instrumentation and control systems, electrical equipment, as well as other parts, components and assemblies. This large capacity chamber provides room for fully integrated system level testing.

## Chamber Specifications

Size: 12 ft x 12 ft x 11 ft

Capability: -40 to 185 F, 20 to 98 percent relative humidity, 16-channel temperature monitoring

Westinghouse provides detailed qualification reports with a qualification summary, applicable standards, acceptance criteria, mechanical and electrical pre-conditioning, and test results. Environmental qualification testing is conducted in accordance with 10 CFR 50, IEEE Std. 323 and other national and international support standards.



Walk-in environmental chamber

## Benefits

In-house capabilities allow Westinghouse to offer customers:

- Lower costs
- Plant-specific qualification and test reports
- Fast turn-around
- Single-source dedication and qualification services
- Multi-item testing economies with no minimum quantity requirements
- State-of-the-art digital controlled environmental test chamber and data acquisition

## Experience

Westinghouse is a worldwide leader and supplier of environmental qualifications services for utilities, both foreign and domestic. Westinghouse has been providing equipment qualification services to the nuclear industry for over 35 years.

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