

# PC Node Box Enhanced Repair Services

## The Westinghouse Solution

The PC Node Box has been included in many I&C systems provided by Westinghouse globally and Westinghouse recognizes that the PC Node Box is an important component in both safety and non-safety system applications. While Westinghouse can no longer guarantee the provision of new PC Node Boxes, Westinghouse has taken advanced actions to secure available key sub-components that can be used to support the repair of existing PC Node Boxes.

## Customer Solutions

### PC Node Box Repair Services:

The purpose of the PC Node Box Repair Service is to ensure customers can realize the maximum life span of their PC Node Boxes. Based on operating history Westinghouse has made strategic part purchases that can be utilized to refurbish existing PC Node Boxes. For PC Node Boxes that are returned to Westinghouse for refurbishment, they will undergo a detailed assessment, performance of necessary repairs, and product acceptance testing. It is possible that PC Node Box repair can be conducted at site or Westinghouse facilities depending on actual failure mechanisms or the parts to be replaced.

Utilities are encouraged to share any relevant Operating Experience with Westinghouse specific to the PC Node Box.

Utilities are also encouraged to communicate PC Node Box spare inventory levels, both operational and non-operational devices.

## Description

The PC Node Box is a custom-designed industrial computer that provides the interface between the safety system processor and the flat panel display. It comes equipped with digital outputs, a fiber optic media converter, serial links for RS-422 and RS-485 communication, and USB ports. The PC node box uses the QNX® 4.25 Operating System and QNX Photon graphical interface for developing screens and the software application.



<https://info.westinghousenuclear.com/westinghouse-parts-business>

# Westinghouse Parts Business

## Benefits



Westinghouse technology is fundamental to nearly 50% of the world's nuclear reactors. Now, that same trusted expertise is delivering the services and parts to meet the needs of 100% of the **nuclear plants across the globe.**

## Experience

The PC node box provides an isolated uni-directional Ethernet connection to the plant computer. This feature allows the plant computer to monitor the status of the safety systems.

Westinghouse provides a variety of solutions to support operating instrumentation and control (I&C) systems, including replacement components, repairs, life extension, upgrades and modernization.

Westinghouse offers a full line of replacement parts and components for I&C systems. As the original equipment manufacturer (OEM) of the I&C systems Westinghouse and Combustion Engineering (CE) NSSS designs and plants, we are uniquely positioned to offer high-quality replacement parts and components, including Westinghouse I&C system parts, detectors, field-mounted instrumentation and more.



### From small to large

Whether your project involves new construction or existing equipment, for a nuclear plant or a government facility, Westinghouse provides high-quality, nuclear-qualified solutions and products that meet the original design and qualification of your plant.

### Global to local

Our cost-effective, high-quality, nuclear-grade replacement parts provide global operators of various reactor designs with solutions for electrical, mechanical, and instrumentation & control systems.

### From Westinghouse's proprietary innovations to designs around the world

Westinghouse has a rigorous commercial-grade dedication process and a robust quality assurance program for detecting and monitoring counterfeit, fraudulent and suspect replacement parts and components. And our industry-leading experts are available 24/7 to support your plant needs.

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