

Thermography Windows

The Westinghouse Solution

Westinghouse is a strong supporter of safe electrical practices associated with nuclear plant maintenance. In this light, Westinghouse has teamed with the premier provider of Innovative infrared inspection windows, IRISS Inc., to bring to our clients the best infrared inspection windows in the industry. Well placed thermography windows allow for safe and reliable inspections without the need to open electrical equipment thus eliminating the need for bulky arc flash suits and increased exposure to unmitigated electrical arc flash.

Product Details

- Standard sizing and fully customizable infrared inspection windows providing the opportunity to analyze energized assets safely and efficiently in the visual, UV and shortwave, mid-wave and longwave IR spectra.
- The polymer infrared inspection window systems will maintain fixed and stable transmission (FAST) ensuring that the temperature data collected through the IR window is accurate and reliable for the whole life of the installation.
- The windows are not camera dependent, therefore there is no need to change the camera currently being used by site maintenance.
- Several window solutions can incorporate Partial Discharge sensor ports that allow handheld ultrasound measurement devices to “listen” to audible signals from the equipment allowing for early detection of problems such as arcing, tracking and corona.
- The IRISS industrial-grade IR inspection windows are capable of meeting OSHA's and NFPA's standards for arc flash safety.
- Several styles of windows have successfully passed Westinghouse seismic testing in **accordance with IEEE-344 testing protocol.**

Certifications

IRISS IR inspection windows are the most certified windows in the industry with IEEE (impact & load), UL, cUL, Lloyds, CSA 22.2 14-13 for industrial control equipment. These windows are also arc tested to IEC 62271-200 Arc Flash Spec test 1.1 Second Duration, IEC 60262271-200: 63kA, IEC 60298 Appendix: 63kA, IEEE C37.20.7 Type 2B: 63kA.



www.westinghousenuclear.com/parts

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Westinghouse Parts Business

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.

Customer Benefits

- The polymer window has a Manufacturer's lifetime warranty for clarity that cannot be obtained with a crystal-based window.
- Inspection windows can be custom designed and manufactured to any size, any shape and any color. Windows are no longer confined to being small round or small rectangular sizes and shapes.
- Product supported by both Westinghouse and IRISS bringing the resources of both companies together to support the nuclear customer.
- One product that can cover the full range of electrical equipment including but not limited to:
 - Medium Voltage Switchgear
 - Low Voltage Switchgear
 - Non-Seg Bus Duct
 - Motor Control Centers
 - Low Voltage Switchboards
 - Panelboards

Industry Issue

The use of thermography to conduct preventive and predictive maintenance has been increasing over the years. NFPA 70B has been the benchmark for providing guidance on how to develop and implement an electrical maintenance program (EMP). The 2023 edition has transitioned from being a recommended practice to one of being a "standard" containing mandatory language for the development and implementation of an EMP. Thermography is one of the maintenance practices that is discussed in this standard.



Before IR Inspection Window



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