Engineered Solutions

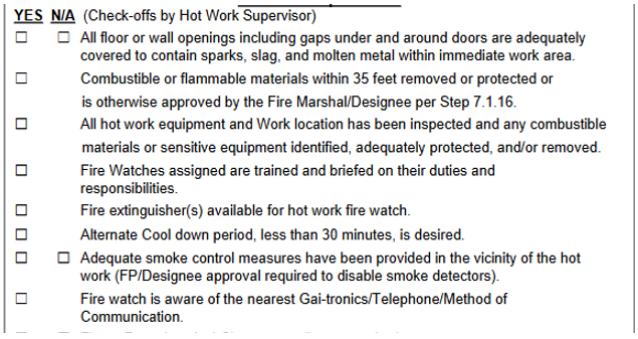
Fire Permitting Software

To resolve the inefficient and manual process of fire permit processing by nuclear station owners, Westinghouse can transform the paper-based form process into a digital process.

This solution is based on the use of the OptiLife™ WORKS platform, on which specific modules and functionalities are developed to meet Fire Protection needs and future workflows. The Fire Protection Information System (FPIS) measures aggregate impact (risk) by fire area and zone association which provides station owners real time station fire risk.

Challenge

- Fires in nuclear power remains a top plant risk contributor.
- Plant operators require accurate tools to maintain configuration control.
- Paper based tracking and controls are ineffective in providing decision making support.
- Fire Marshals and engineers focused on paper and admin work struggle to provide field support in monitoring fire hazards.
- Permit processing is typically reactionary and last-minute.
- Craft personnel are forced to wait for approval process to complete resulting in lost time.
- Paper based approaches cannot measure aggregate impact automatically.
- Change of permits, environmental factors (combustible material) add complexity to fire protection and fire management life cycle.

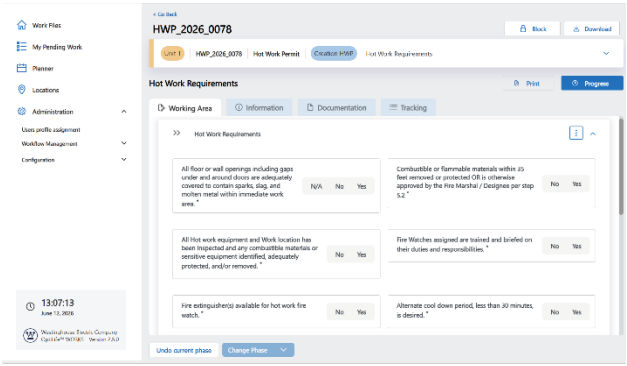


YES N/A (Check-offs by Hot Work Supervisor)

- ☐ ☐ All floor or wall openings including gaps under and around doors are adequately covered to contain sparks, slag, and molten metal within immediate work area.
- ☐ Combustible or flammable materials within 35 feet removed or protected or is otherwise approved by the Fire Marshal/Designee per Step 7.1.16.
- ☐ All hot work equipment and Work location has been inspected and any combustible materials or sensitive equipment identified, adequately protected, and/or removed.
- ☐ Fire Watches assigned are trained and briefed on their duties and responsibilities.
- ☐ Fire extinguisher(s) available for hot work fire watch.
- ☐ Alternate Cool down period, less than 30 minutes, is desired.
- ☐ ☐ Adequate smoke control measures have been provided in the vicinity of the hot work (FP/Designee approval required to disable smoke detectors).
- ☐ Fire watch is aware of the nearest Gai-tronics/Telephone/Method of Communication.

Solution/Benefits

- Designed in collaboration with a U.S. Nuclear Utility to provide a web-based application specifically designed for fire protection.
- Allows for real time data aggregation and decision making with increased Fire Marshal Field oversight and Program enforcement.
- Applications are designed for field use (mobile/offline and online), including ability for Craft to initiate permit request in advance with mobile device/desktop.
- Digital floor plan data enhances auto permit approval with oversight.
- Fire marshals and engineers are empowered with data and can manage risks more efficiently.
- Active permits can be updated, revised and approved saving valuable time and resources.
- A systematic and data approach provides confidence and builds margin in regulatory compliance



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Fire Protection Information Systems (FPIS)

As a Fire Protection Team member, paper-based fire permit processing can create approval delays, inconsistent documentation, and limited visibility into cumulative risk—especially across fire areas and zones. **FPIS by Westinghouse**, built on the **OptiLife™ WORKS platform**, replaces manual forms with configurable digital workflows. This helps you standardize permit execution, improve audit readiness, and monitor aggregated fire risk in real time.

Why Does Permitting Matter?

- Fire permits (hot work, impairments, combustibles) are high-risk, regulator-visible activities.
- Current manual processes increase regulatory exposure, operational delay, and people-dependent risk.
- Regulators expect configuration control, traceability, and defense-in-depth.

What FPIS Does:

- Digitizes fire permit processing from request through approval and closure.
- Configurable workflows to align with site-specific fire protection requirements and approval authorities.
- Risk aggregation and reporting across fire areas, zones, and associated work activities.
- Role-based workflow helps ensure the right reviews happen at the right time.

Key Benefits:

- Shorter permit turnaround with digital routing, approvals, and status visibility.
- Stronger compliance and audit readiness through standardized records, traceability, and controlled process steps.
- Better risk-informed decisions with aggregated fire risk by fire area and zone association.
- Less rework for your team with guided data capture, business rules, and consistent workflow execution.
- Expandable digital foundation to support additional fire protection workflows as requirements evolve.
- Manager-ready visibility into current permits and aggregated station fire risk.
- Audit-ready documentation with searchable records, traceability, and consistent execution evidence.

Request a Demo

See how FPIS can help your Fire Protection organization standardize permit execution, improve audit readiness, and maintain risk visibility across the station. For more information, please contact **Thomas Swanson, thomas.swanson@westinghouse.com**.

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