

# **Performance Review**

## **Westinghouse Electric Company**

### **Columbia Fuel Fabrication Facility (CFFF)**

South Carolina State Museum,  
Columbia, SC  
May 8, 2018  
6:00 PM

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# Agenda

- NRC – Our Mission
- NRC – Performance Review Process
- NRC – Performance Review Results
- CFFF – Response
- NRC – Adjourn Business Portion
- NRC – Question & Answer with Public
- NRC – Adjourn Meeting

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# Our Mission

The Nuclear Regulatory Commission (NRC) licenses and regulates the Nation's civilian use of radioactive materials to protect public health and safety, promote the common defense and security, and protect the environment.

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# Licensee Performance Review (LPR) Objectives

- Assess the overall safety performance of the facility for the designated review period;
- Notify the licensee and the public of the results of the performance review;
- Apply insights gained in the planning and scheduling of future inspection activities.

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# How Performance Review Conducted?

- Inspection Manual Chapter 2604, Licensee Performance Review, details the review process
- Comprehensive review of inspection results with focus on plant events and enforcement actions to identify specific performance weaknesses, trends, and/or a functional area needing improvement (ANI).
- Identification of an ANI is usually predicated on identification of significant safety issue(s) that usually results in the issuance of escalated enforcement action.
- When safety performance is impacted, NRC management and staff will usually increase interactions with the licensee and focus inspections to carefully review the issue or area of concern.

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# Functional Areas

## Safety Operations

Nuclear Criticality Safety

Operational Safety

Fire Protection

## Facility Support

Maintenance and Surveillance

Emergency Preparedness

Permanent Plant Modifications

## Radiological Controls

Radiation Protection

Environmental Protection

Waste Management

Transportation

## Safeguards

Physical Security

Information Security

Material Control and  
Accounting

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# 2017 Inspection Summary

- The NRC completed 9 team inspections of the CFFF facility programs and processes that included approximately 1700 hours of core inspection and evaluation, with 14 different inspectors.
  - 4 additional supplemental Inspections in CY 2017 (~450 additional hours)
    - 2 Confirmatory Action Letter inspections
    - 1 Supplemental ANI Inspection
    - 1 Enforcement Inspection

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# Safety Operations Issues

- In the area of Safety Operations, there were several apparent violations and violations identified by the NRC.
- In the area of Safety Operations, inspection report (IR) 2017-007, dated February 27, 2017, documented four apparent violations (AVs) related to the S-1030 scrubber system.
- These four AVs were resolved through the Alternate Dispute Resolution program and the issuance of a Confirmatory Order dated August 9, 2017.



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# Safety Operations Issues

- Inspection report 70-1151/2017-004, dated October 26, 2017, documented two severity level four violations involving the S2A/2B scrubber ventilation system.
  - The first violation was related to the failure of safety systems designed to prevent water accumulation in the downstream ductwork, defined as a failure of an Item-Relied-Upon-For-Safety (IROFS).
  - The second violation involved the licensee's failure to properly implement management measures such that the IROFS above remained available and reliable to perform its intended safety function when needed.

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# Enforcement Issues

(remaining functional areas)

## Radiological Controls

- None

## Facility Support

- None

## Safeguards (Details not released to public)

- One SL IV Violation

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# LPR Results

Assessment Period

January 1, 2017 – December 31, 2017



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# Performance Review Results

In 2017, an Area Needing Improvement (ANI) was identified in the area of Safety Operations, due to a safety significant issue involving the S-1030 scrubber. The ANI was continued in the 2018 LPR as detailed in IR 2018-001.

- The ANI was identified in the areas of plant operations and nuclear criticality safety due to NRC identified weaknesses in management measures and the assumptions used in the site's criticality safety evaluations (CSEs).
- Closure of the ANI will be dependent upon demonstration of satisfactory improvement in the implementation of management measures, criticality safety evaluations, nuclear safety culture, and CO items.

No ANIs were identified in the other functional areas (Radiological Controls, Facility Support, and Safeguards).

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# Agency actions from ANI

- The NRC is maintaining the licensee performance review frequency at a 12-month cycle until this ANI is closed (normally at a 24-month cycle).
  - Completed two focused team inspections – one in 2017 and one in 2018 focusing on management measures and the assumptions used in the site's CSEs . Each inspection included approximately 60 to 90 hours of direct inspection effort.
  - The NRC will conduct a nuclear safety culture inspection following completion of CFFF's independent nuclear safety culture assessment. Tentatively scheduled for late summer 2018.

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# Performance Review Summary

Through observations during the NRC's inspection program and communications with CFFF, the NRC has noted an increase in performance in:

- Implementation of management measures (e.g. procedures, work orders, corrective actions, evaluations and assumptions, etc.)
- Enhanced nuclear safety culture awareness at the facility
- Increased employee and work engagement by senior and line management.

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# Westinghouse Remarks

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# **Informal Question and Answer Session between the NRC and the Public**



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# Closing Remarks

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## **LIST OF PUBLICALLY AVAILABLE DOCUMENTS**

- NRC Program Adjustment Letter – ML16355A078
- 2017 License Performance Review report 2017-001 – ML17067A064
- 2017 NRC Public Meeting Presentation Slides – ML17132A068
- 2017 Westinghouse Public Meeting Presentation Slides – ML17132A070
- Augmented Inspection Team report 2016-007 – ML16301A001
- Enforcement actions report 2017-007 – ML17058A448
- Confirmatory Action Letter (CAL) – ML16224B082
- Confirmatory Order (CO) – ML17221A103
- CAL inspection report 2017-006 – ML17132A333
- CAL inspection report 2017-008 – ML17290A133
- ANI supplemental report 2017-009 – ML17356A091
- ANI supplemental report 2018-006 – ML18089A060
- 2018 CO status update public meeting - ML18039A001
- 2018 LPR letter - ML18064A119