

BWXT Nuclear Operations Group (NOG) Facility

Licensed Activities

- Possess Special Nuclear Material (Highly Enriched Uranium)
- Process and develop uranium products
- Operate on-site laboratories
- Treat and discharge plant effluents



UNITED STATES
NUCLEAR REGULATORY
REGION
245 PEACHTREE CENTER AVENUE
ATLANTA, GEORGIA

March 1, 2019

Mr. B. Joel Burch
Vice President and General Manager
BWXT Nuclear Operations Group, Inc.
P.O. Box 765
Lynchburg, VA 24505-0765

SUBJECT: BWXT NUCLEAR OPERATIONS GROUP,
OF LICENSED ACTIVITIES (NUCLEAR FUEL
INSPECTION REPORT 70-27/2019-001)

Dear Mr. Burch:

The U.S. Nuclear Regulatory Commission (NRC) staff, Nuclear Material Safety and Safeguards, and the Off-site Response completed a periodic review of the BWXT Nuclear Operations Group facility performance in conducting NRC-licensed activities. The review was evaluated in the following areas: Safety Operations, Radiation Protection, Support, Safeguards and Other Areas.

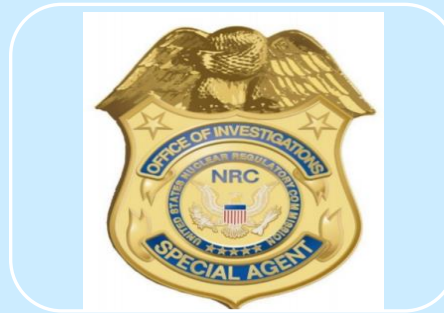
During the 2018 Program Adjustment Review, which covered the period January 1 through December 31, 2017, the NRC determined that an adjustment to the inspection program was warranted in the Safety Operations area (inspection report 70-27/2018-005 (ML18067A146)). This inspection program adjustment was implemented through a supplemental inspection conducted in December 2018, and January 2019 (inspection report 70-27/2018-005 (ML19030A138)). The supplemental inspection was associated with the unidentified accumulation of material in the purification system. The results of the supplemental inspection directly associated with the cause of this event have been included in the supplemental inspection report. As a result of the supplemental inspection, there were no new issues identified. The results of the supplemental inspection will be included in the next Performance Adjustment Review. Additional long-term commitments made by BWXT will be tracked and inspected during inspections during CY 2019.



NRC's Fuel Cycle Oversight Components



Inspections



Investigations



Allegations



Incident
Response

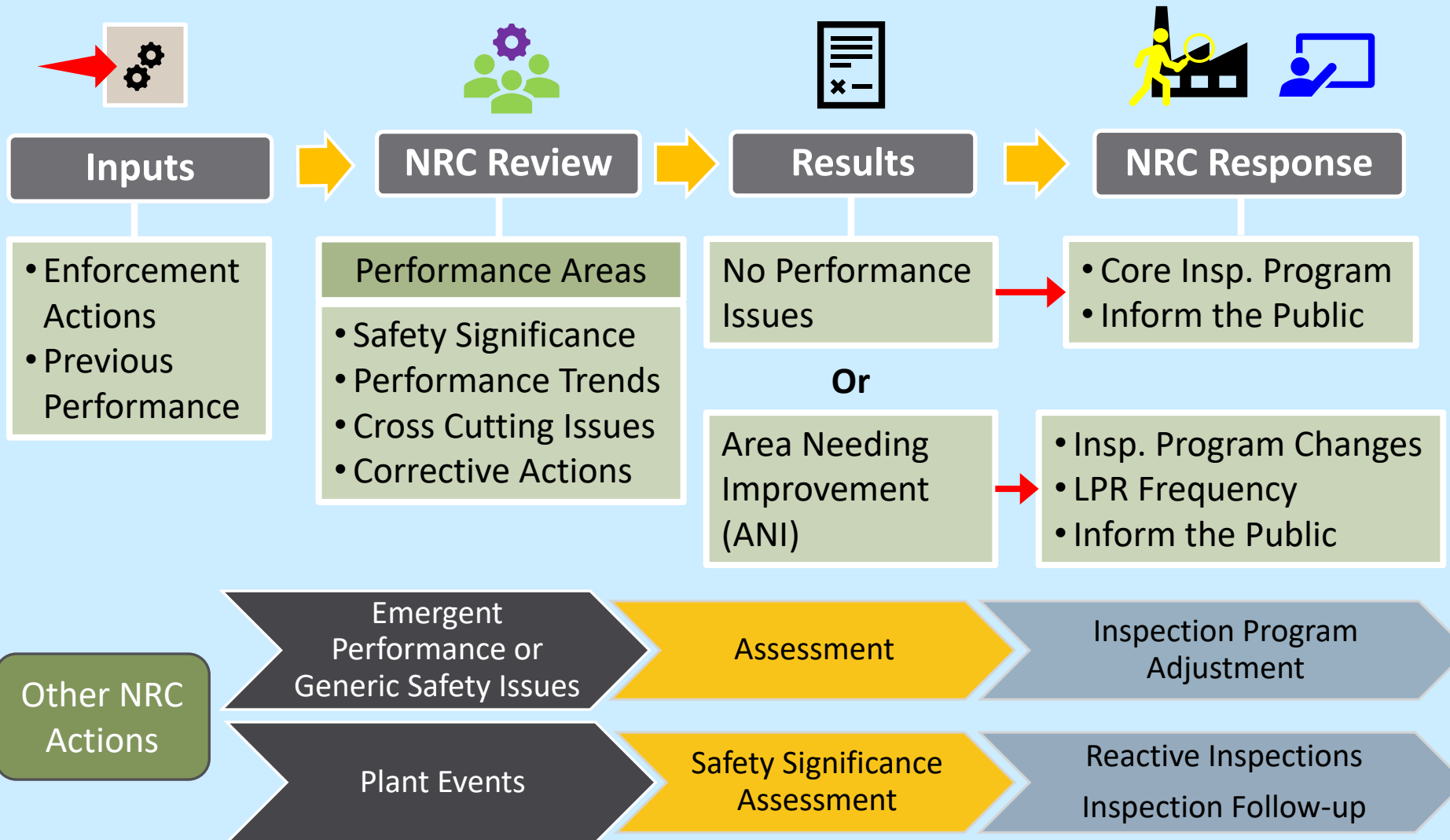


Enforcement



Performance
Assessment

Licensee Performance Review Process



LPR = Licensee Performance Review

Licensee Performance Areas

Safety Operations

Operational Safety

- Safety Controls
- Supporting Safety Programs



Criticality Safety

- Criticality Controls
- Program Oversight
- Criticality Incident Response



Fire Protection

- Prevention, Detection, & Mitigation
- Supporting Fire Safety Programs



Licensee Performance Areas

Radiological Controls

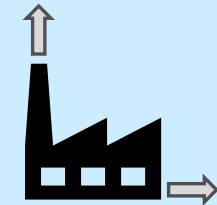
Radiation Protection

- Members of the Public
- Plant Workers



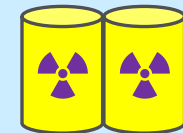
Effluent Control and Environmental Protection

- Program Implementation
- Liquid and Gaseous Effluents



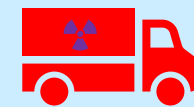
Waste Management

- Processing, Handling, Storage & Transportation of Waste



Transportation

- Receipt, Packaging & Delivery of Radioactive Materials



Licensee Performance Areas

Facility Support & Other Areas

Maintenance and Surveillance

- Safety Controls
- Supporting Program Elements



Emergency Preparedness

- Emergency Plan Implementation
- Evaluation of Emergency Drills



Plant Modifications

- Configuration Management Program
- Request for NRC Approval



Plant Events

- Safety Assessment and Follow-up



Safeguards

- Material Control, Physical Protection, Classified Material & Information Security



NRC On-site Core Inspection Effort

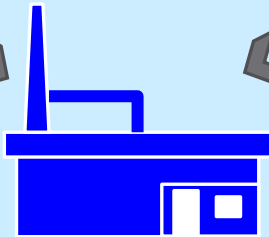
Category I Fuel Facility



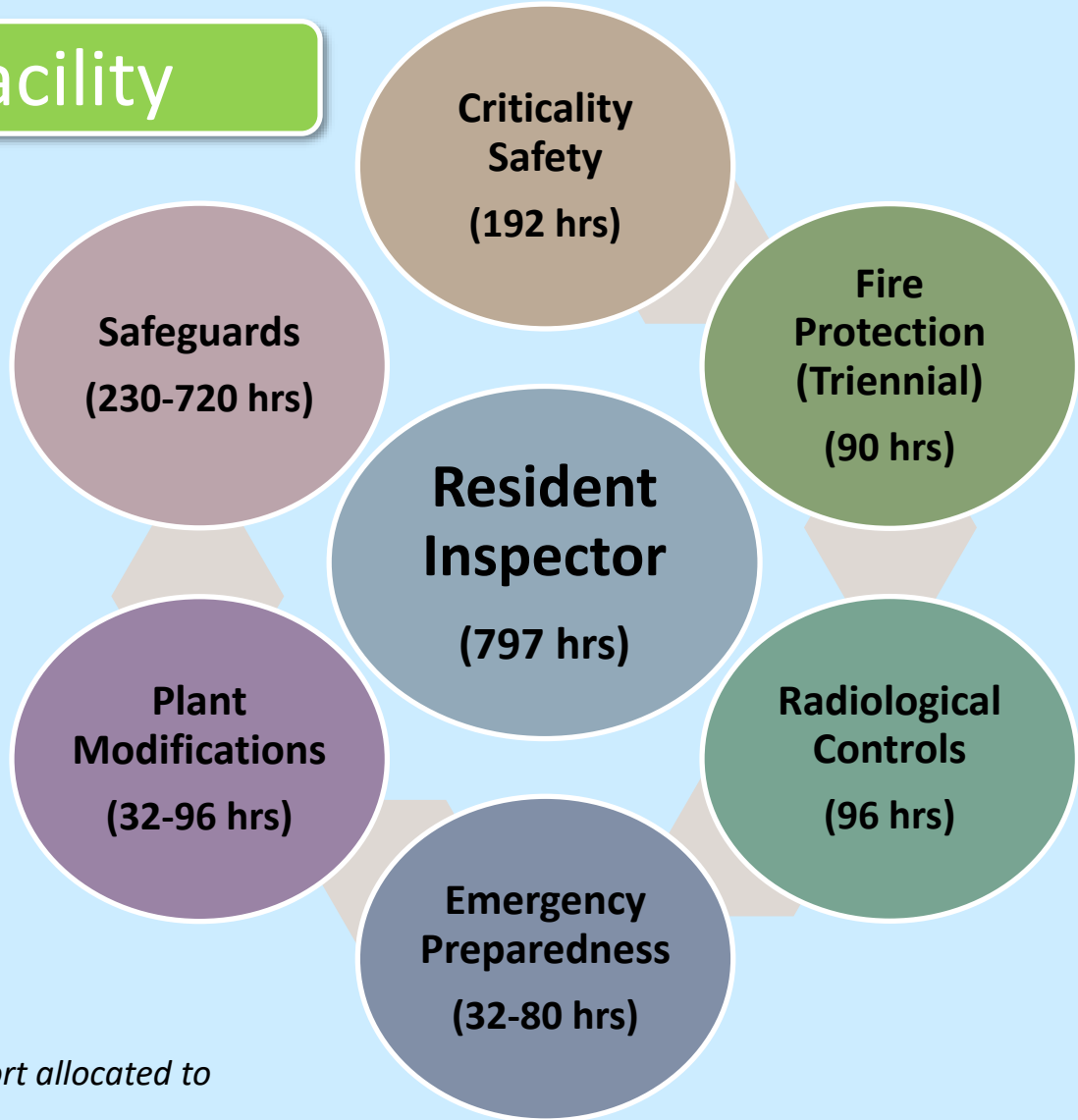
Resident
Inspector
(797 hrs)



Region 2
Inspectors
(672 - 1,275 hrs)



Category 1 Fuel Facility



Note: The hours above represent the estimated effort allocated to on-site routine inspections every year.

BWXT NOG Facility

Licensee Performance Review Summary (2017-2018)

- Inspection program adjustment conducted in 2018
- No area needing improvement (ANI) was identified in the performance assessment areas
- NRC will conduct core (routine) inspection program in the next performance assessment cycle



Questions?

Feedback Options

- Hardcopy NRC Form 659 (mail or email)
- Link on NRC Public Meeting Schedule website
- Email directly to:
 - noel.Pitoniak@nrc.gov
 - timothy.sippel@nrc.gov