



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

June 12, 2018

Mr. J. W. Shea
Vice President, Nuclear Regulatory
Affairs and Support Services
Tennessee Valley Authority
1101 Market Street, LP 4A
Chattanooga, TN 37402-2801

**SUBJECT: BROWNS FERRY NUCLEAR PLANT – NOTIFICATION OF INSPECTION AND
REQUEST FOR INFORMATION FOR NRC PROBLEM IDENTIFICATION AND
RESOLUTION INSPECTION**

Dear Mr. Shea:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a problem identification and resolution (PI&R) inspection at your Browns Ferry Nuclear Plant, Units 1, 2, and 3 during the weeks of August 6 - 10 and August 20 - 24, 2018. The inspection team will be led by Mr. Wesley Deschaine, Resident Inspector at Sequoyah Nuclear Plant. This inspection will be conducted in accordance with the baseline inspection procedure, 71152, Problem Identification and Resolution, issued February 26, 2015.

The biennial PI&R inspection and assessment of the licensee's Corrective Action Program (CAP) complements and expands upon the resident baseline inspections of routine daily screening of all corrective action program issues, quarterly focused-issue reviews, and semiannual trend PI&R reviews.

On June 1, 2018, Mr. Deschaine confirmed with Mr. Justin Garner, of your staff, arrangements for the two-week onsite inspection.

The enclosure lists documents that will be needed prior to the inspection. Please have the referenced information available no later than July 13, 2018. Contact Mr. Deschaine with any questions concerning the requested information. The inspectors will try to minimize your administrative burden by specifically identifying only those documents required for inspection preparation.

If additional documents are needed, they will be requested when identified. Prior to the onsite inspection, Mr. Deschaine will discuss with your staff the following inspection support administrative details: availability of knowledgeable plant engineering and licensing personnel to serve as points of contact during the inspection; method of tracking inspector requests during the inspection; access to licensee computers; working space; arrangements for site access; and other applicable information.

In accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding," of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Thank you for your cooperation in this matter. If you have any questions regarding the information requested or the inspection, please contact Mr. Deschaine at (404) 354-6687.

Sincerely,

/RA/

Anthony D. Masters, Chief
Reactor Projects Branch 5
Division of Reactor Projects

Docket Nos.: 50-259, 50-260, 50-296
License Nos.: DPR-33, DPR-52, DPR-68

Enclosure:
Information Request for Browns Ferry Nuclear Plant
Problem Identification & Resolution Inspection

cc: Distribution via ListServ

PAPERWORK REDUCTION ACT STATEMENT

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J. Shea

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RESOLUTION INSPECTION June 12, 2018

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|--------|------------|-----------|--|--|--|
| OFFICE | RII/DRP | RII/DRP | | | |
| NAME | WDeschaine | AMasters | | | |
| DATE | 6/9/2018 | 6/12/2018 | | | |

OFFICIAL RECORD COPY

**INFORMATION REQUEST FOR BROWNS FERRY NUCLEAR PLANT
PROBLEM IDENTIFICATION AND RESOLUTION INSPECTION
(August 6-10, 2018 and August 20-24, 2018)**

Note: Unless otherwise noted, the information requested below corresponds to documents generated since February 25, 2016. Please provide the requested documents in electronic format. If the information is not available in electronic format, please contact the inspection team leader to coordinate other available methods to provide the information.

1. Copies of the corporate and site level procedures and sub-tier procedures associated with the corrective action program. This should include procedures related to:
 - a) Corrective action process
 - b) Cause evaluation
 - c) Operating experience program
 - d) Employee concerns program
 - e) Self-assessment program
 - f) Maintenance rule program and implementing procedures
 - g) Operability determination process
 - h) Degraded/non-conforming condition process (e.g., RIS 2005-20)
 - i) System health process or equivalent equipment reliability improvement programs
 - j) Preventive maintenance deferral process

If any of the procedures requested above were revised after February 25, 2016, please provide (or have available) copies of all revisions during the onsite inspection.

2. List of top ten risk-significant systems, top ten risk-significant components for each one of the top ten risk-significant systems, and top ten risk-significant operator manual actions.
3. List of all Condition Reports (CRs) initiated including the following information for each CR:
 - a) CR number
 - b) Brief, but complete problem description
 - c) Priority or level
 - d) Affected system
 - e) Affected component
 - f) Responsible plant department
 - g) CR completion status

If possible, provide this list in a format compatible with spreadsheet software (example shown below).

| CR # | Problem | Priority | System | Component | Org | Status |
|-------|--|----------|--------|-------------|-----|--------|
| CR001 | "A" RHR Pump failed flow criteria per SR 5.0.5.4 | 2 | RHR | 2-RHR-PMP-A | ENG | Open |

Enclosure

4. List of outstanding corrective actions including the following information for each action:

- a) Corrective action number
- b) Corrective action type (e.g., corrective action to prevent recurrence, enhancement, maintenance rule evaluation, etc.)
- c) Brief, but complete, corrective action description
- d) Associated CR number
- e) Corrective action initiation date
- f) Number of extensions
- g) Corrective action due date
- h) Completion status

If possible, provide this list in a format compatible with spreadsheet software (example shown below).

| Corrective Action # | Type | Description | CR | Initiation Date | Extensions | Due Date | Status |
|---------------------|------|-------------------------------|--------|-----------------|------------|----------|----------------------|
| 001 | CAPR | Revise Procedure NGK-003-4585 | CR0058 | 01/05/16 | 2 | 06/15/16 | Awaiting CARB review |

5. List of control room deficiencies with a brief description and corresponding CR and/or work order (WO) number.
6. List of operator workarounds and operator burdens with a brief description and corresponding CR number.
7. List of all currently extended or overdue CRs, sorted by initiation date, with the following information:
 - a) CR number
 - b) Priority or Significance
 - c) CR title and short description
8. List of all CRs that have been voided, cancelled, or deleted. Please provide the following information for each CR:
 - a) CR number
 - b) Brief, but complete problem description
 - c) Reason voided, cancelled, or deleted

9. List of all structures, systems, and components (SSCs) which were classified as (a)(1) in accordance with the Maintenance Rule since February 2016. Please include the following information for each system in (a)(1):
 - a) Date of classification in (a)(1)
 - b) Reason for being placed in (a)(1)
 - c) Planned actions and their status
10. List of Maintenance Preventable Functional Failures (MPFF) of risk-significant systems. Please include actions completed and current status.
11. List of corrective maintenance work orders. Please include the following information for each work order:
 - a) WO number
 - b) Brief, but complete work description
 - c) Affected system and components
 - d) Date of initiation
 - e) Date of completion (if completed)

If possible, provide this list in a format compatible with spreadsheet software (example shown below).

| Work Order # | Description | System | Component | Initiation Date | Due Date | Status |
|--------------|---|--------|-----------------------|-----------------|----------|--------|
| WO01345 | Replace breaker 2A-BKR-08-BB4 for 2A SI Pump. | SI | 2A-SI-PMP, BKR-08-BB4 | 01/05/16 | 03/15/16 | Closed |

12. Corrective action closeout packages, including CRs with description of corrective actions, for all NRC findings and licensee-identified violations (LIVs). Please include a cross-reference linking NRC finding numbers and LIVs to appropriate CR numbers.
13. Corrective action closeout packages, including CRs with description of corrective actions, for all licensee event reports (LERs) issued. Please include a cross reference linking LER number to appropriate CR number.
14. List of all NRC generic communications (e.g., Information Notices, Generic Letters, etc.) and industry operating experience (OE) documents (e.g., Part 21 reports, vendor information letters, information from other sites, etc.) evaluated by the site for applicability to the station, regardless of the determination of applicability. Please include the reference number (e.g., CR number) for the documents that evaluated the aforementioned OE information.
15. Copies of all quality assurance audits and/or assessments issued, including the last two audits/assessments of the corrective action program.
16. Copies of all department self-assessments.

17. Copy of the most recent integrated plant trend report, departmental trend report(s), and corrective action trend report, including any human performance and equipment reliability trends.
18. Copy of the latest Corrective Action Program statistics (if existing) such as the number of CRs initiated by department, human performance errors by department, and others as may be available.
19. Please provide a list of routine meetings involving the CAP to be held while team is onsite.
20. List of CRs related to equipment aging issues in the top ten risk-significant systems since February 2013 (e.g., system erosion and/or corrosion problems; electronic component aging or obsolescence of circuit boards, power supplies, relays, etc.; environmental qualification). Please provide the following information for each AR:
 - a) CR number
 - b) Priority
 - c) CR problem description
21. If performed, please provide any recent self-assessment of the site safety culture completed.
22. Copies of corrective action program documents related to cross-cutting issues (human performance, problem identification and resolution, and safety conscious work environment) identified via trending, self-assessments, safety review committee or other oversight methods
23. List of all root cause evaluations with a brief description.
24. Copy of Probabilistic Risk Assessment importance measures report, if available.
25. System health reports, system design basis documents, and system description information upon notification of system selections.