



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 WARRENVILLE RD. SUITE 210  
LISLE, IL 60532-4352

June 6, 2017

Mr. Bryan C. Hanson  
Senior VP, Exelon Generation Company, LLC  
President and CNO, Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: INFORMATION REQUEST TO SUPPORT UPCOMING PROBLEM  
IDENTIFICATION AND RESOLUTION INSPECTION AT BYRON STATION,  
UNITS 1 AND 2

Dear Mr. Hanson:

This letter is to request information to support our biennial Problem Identification and Resolution (PI&R) inspection beginning August 7, 2017, at the Byron Station, Units 1 and 2. This inspection will be performed in accordance with the U.S. Nuclear Regulatory Commission (NRC) Baseline Inspection Procedure 71152.

Experience has shown that these inspections are extremely resource intensive both for the NRC inspectors and the utility staff. In order to minimize the impact that the inspection has on the site and to ensure a productive inspection, we have enclosed a list of documents required for the inspection.

The documents requested are copies of issue reports and lists of information necessary to ensure the inspection team is adequately prepared for the inspection. This information request may be provided in CD-ROM/DVD/thumb drive format and should be ready for NRC review by July 10, 2017. Mr. Bruce Bartlett, the Lead Inspector, will contact your staff to determine the best method of providing the requested information.

If there are any questions about the material requested, or the inspection in general, please do not hesitate to call or e-mail Mr. Bruce Bartlett at 630-829-9753 or [Bruce.Bartlett@nrc.gov](mailto:Bruce.Bartlett@nrc.gov).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, Control Number 3150-0011.

The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget Control Number.

This letter and its enclosure will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Eric Duncan, Chief  
Branch 3  
Division of Reactor Projects

Docket Nos. 50-454; 50-455  
License Nos. NPF-37; NPF-66

Enclosure:  
RFI to Support PI&R Inspection

cc: Distribution via LISTSERV®

Letter to Bryan C. Hanson from Eric Duncan dated June 6, 2017

SUBJECT: INFORMATION REQUEST TO SUPPORT UPCOMING PROBLEM  
IDENTIFICATION AND RESOLUTION INSPECTION AT BYRON STATION,  
UNITS 1 AND 2

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## **Requested Information to Support Problem Identification and Resolution (PI&R) Inspection**

Please provide the information on five compact discs or thumb drives (one for the team lead, one for the Resident Inspector Office, one for the IEMA Resident Inspector Office and one for each of the two other scheduled inspectors), if possible. Unless otherwise specified, the time frame for requested information is for the period of July 2015, through the time the information request is answered. Please label any electronic files with content information.

In addition, inspectors will require computer access to the corrective action program (CAP) database while on site.

### **PROGRAM DOCUMENTS**

1. Copies of current administrative procedures associated with the CAP. This should include procedures related to: 1) corrective action process; 2) cause evaluations; 3) operating experience program; 4) self-assessment program; 5) maintenance rule program; 6) operability determination process; 7) degraded/non-conforming condition process (e.g., RIS 2005-20); 8) system health process or equivalent equipment reliability improvement programs; and 9) operational decision-making (ODMI) process.
2. A current copy of the Employee Concerns Program/Ombudsman administrative procedure.
3. Description of any substantive changes made to the CAP since the last PI&R Inspection (July 2015). Please include the effective date with each listed change.

### **ASSESSMENTS**

4. A copy of Quality Assurance (QA) audits of the CAP and audits of the QA program.
5. A list of all completed assessments and QA audits for those programs related to the CAP (e.g., Operating Experience, Maintenance Rule, etc.).
6. Copies of completed assessments of the CAP, the QA program and the self-assessment program. Include the plan/schedule for future CAP self-assessments.
7. A chronological list of completed department and site self-assessments (include date completed).
8. A list of issue reports (IRs) initiated for findings or concerns identified in self-assessments and audits. Include a short description/title of the finding, its status, and include a cross-reference to the audit or self-assessment number.

### **CORRECTIVE ACTION DOCUMENTS**

9. Copies of completed root cause evaluations.
10. A list of completed apparent cause evaluations and corrective action program evaluations (CAPEs) with a brief description of the issue. Provide the status of any actions developed as part of the evaluations and their present status. Include a reference, if not part of the apparent cause package, to the documents and/or IRs directing and tracking the actions.

Enclosure

11. A list of all open IRs sorted by significance level. Include IR number, date initiated, a brief description/title, affected system(s), significance level, and anticipated completion date, if available. This list should be grouped by responsible department and arranged in order of initiation date (oldest listed first).
12. A list of closed IRs sorted by significance level. Include IR number, date initiated, a brief description/title, affected systems(s), significance level, date closed. This list should be grouped by responsible department.
13. A list of open corrective actions, sorted by priority level, with a brief description/title, initiating date and due date. The list should be grouped by the responsible department.
14. A list of IRs captured in databases operated and/or maintained by the site's corporate office related to Byron Station sorted by significance level. Include the date initiated, a brief description/title, site(s) affected, system(s) affected, significance/priority level, assigned organization, and status (if closed include date closed; if open, include scheduled date to be closed).
15. A list of completed effectiveness reviews. Include a cross-reference to the IRs for which the effectiveness review was conducted and, if applicable, IR numbers documenting any additional follow-up actions.
16. A list of IRs initiated for inadequate or ineffective corrective actions. Include the date initiated, a brief description/title, significance level, system affected, assigned organization, and status (if closed include date closed; if open, include scheduled date to be closed). Include a cross-reference to the IR or evaluation that generated the original corrective action.
17. A copy of any performance reports/indicators used to track CAP effectiveness for the past 18–24 months. End-of-quarter data will suffice; monthly reports are not requested.

#### TRENDS

18. A list of IRs initiated for trends of conditions adverse to quality. Include the date initiated, a brief description/title, significance level, and status (if closed include date closed; if open, include scheduled date to be closed).
19. Copies of any completed trend reports that are associated with overall CAP performance and/or effectiveness.
20. Copies of all apparent, corrective action program, common and/or root cause evaluations regarding adverse equipment reliability and adverse human performance trends.

#### OPERATING EXPERIENCE

21. A copy of the most recent operating experience program effectiveness review and or assessment.
22. A list of IRs initiated to evaluate industry and NRC operating experience, and NRC generic communications (e.g., bulletins, information notices, generic letters, etc.). Include date

the IR was initiated, a brief description/title, and the status (if closed include date closed; if open, include scheduled date to be closed).

## SYSTEMS AND COMPONENTS

23. A list of the top ten risk significant systems, risk significant components and risk significant operator actions using the latest revision of the risk assessment.
24. A list of test failures (in-service tests and technical specification surveillance tests) with a brief description of the component/system that failed.
25. A list of all structures, systems and components (SSCs) that are classified as (a)(1) in accordance with the Maintenance Rule. Include: 1) date SSC entered (a)(1); 2) brief description/reason for being in (a)(1); and 3) status of action plan.
26. Copy of current system health report for SSCs classified as (a)(1).
27. A list of maintenance preventable functional failures (MPFFs). Include the IR number; a brief description of the system/component that failed; and date the MPFF occurred.
28. A list of plant trips, unplanned downpowers (greater than 20 percent), unscheduled limiting condition for operation entries and licensee event reports, including dates of these events.
29. A list of control room deficiencies, operator workarounds and burdens, sorted by priority, with a brief description/title and corresponding IR and/or work order number.
30. A list of operability determinations/evaluations. Include a brief description/title, date initiated, date closed or date scheduled to be closed. Also include any open operability evaluations that were initiated prior to July 1, 2015.
31. A list of temporary modifications that were installed since July 1, 2015, with a brief description/title, installation date, and current status. Include any in-place temporary modifications that were installed prior to July 1, 2015.

## SAFETY CULTURE

32. Copies of assessments or evaluations (internal or external) regarding station and/or department safety culture/safety conscious work environment.
33. The last two independent safety culture assessments.
34. The last two years of nuclear safety culture monitoring panel minutes.
35. The last two years of safety conscious work environment (SCWE) related IRs.
36. A list of station personnel by department.

## REGULATORY ISSUES

37. A list of IRs for issues (findings, violations, etc.) documented in NRC inspection reports. Include the IR number, brief description/title, date initiated and the status (if closed include date closed; if open, include scheduled date to be closed).
38. A list of IRs for licensee identified violations that have been documented in NRC inspection reports. Include the IR number, brief description/title, date initiated and the status (if closed include date closed; if open, include scheduled date to be closed).
39. A list of IRs associated with NRC identified issues. Include the IR number, brief description/title, date initiated and the status (if closed include date closed; if open, include scheduled date to be closed).
40. A list of degraded/non-conforming conditions. Include the IR number, brief description/title, date initiated and date closed or projected closeout date. Include open issues that were identified prior to July 1, 2015.

## 5-YEAR REVIEW

41. A list of IRs regarding the Radiation Process and Area Radiation Monitors that have been generated since July 1, 2012. This includes the RMS system. Include the IR number, brief description/title, level of evaluation (i.e., root cause, apparent cause, common cause, etc.), date initiated, and the status (if closed include date closed; if open, include scheduled date to be closed).
42. A list of IRs regarding the Unit 1 and 2 Component Cooling Water Systems that have been generated since July 1, 2012. Include the IR number, brief description/title, level of evaluation (i.e., root cause, apparent cause, common cause, etc.), date initiated, and the status (if closed include date closed; if open, include scheduled date to be closed).
43. Copies of 50.59 screenings or evaluations, operability evaluations and ODMIs, maintenance rule evaluations, and root and apparent cause evaluations completed since July 1, 2012, associated with the Unit 1 and 2 Component Cooling Water Systems.
44. Copies of root and apparent cause evaluations completed since July 1, 2012, for age management degradation issues related to the Unit 1 and 2 Component Cooling Water System.

## ADMIN

45. A copy of the latest plant organizational chart and phone listing.
46. Scheduled dates, times, and location for all meetings associated with implementing the CAP (e.g., IR screening meetings, corrective action review board meetings). Include work order screening/assessment meetings.

## Documents Requested to be Available On-Site During the Inspection

- a. Updated Final Safety Analysis Report.
- b. 1 Copy on Compact Disc of the UFSAR and the Technical Specifications.

- c. Technical Specifications.
- d. Copies of any self-assessments and associated IRs initiated while preparing for this PI&R inspection.
- e. Quality Assurance Manual.
- f. A list of issues brought to the ECP/ombudsman and the actions taken for resolution.
- g. A list of the codes used in the CAP.

Other

On the first day of the inspection please provide the inspection team a briefing/overview of your CAP, including any actions taken associated with recent industry efforts to improve the efficiency of the CAP. Include your expectations for personnel using the program and how the work order system fits into the overall scheme for addressing identified issues. Also include a demonstration on how to access the CAP data on the computer.