

August 27, 2008

Mr. Charles G. Pardee
Chief Nuclear Officer and
Senior Vice President
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville IL 60555

SUBJECT: BYRON STATION, UNIT 2 - NOTIFICATION OF NRC INSPECTION AND
REQUEST FOR INFORMATION

Dear Mr. Pardee:

On October 6, 2008, the NRC will begin the baseline inservice inspection (NRC Inspection Procedure PI 71111.08) at the Byron Station, Unit 2. This on-site inspection is scheduled to be performed October 6, 2008 through October 23, 2008.

Experience has shown that this inspection is resource intensive both for the NRC inspector and your staff. In order to minimize the impact to your on-site resources, and to ensure a productive inspection for both sides, we have enclosed a request for documents needed for this inspection. These documents have been divided into two groups. The first group identifies information necessary to ensure that the inspector is adequately prepared. The second group identifies the information the inspector will need upon arrival at the site. It is important that all of these documents are up-to-date, and complete, in order to minimize the number of additional documents requested during the preparation and/or the onsite portions of the inspection.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Ms. T. Hulbert, of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector Mr. D. Jones at (630) 829-9622.

In accordance with 10 CFR 2.390 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 Public Document Room or from the Publicly Available Records System (PARS) component of NRC's

C. Pardee

-2-

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Sincerely,

/RA/

David E. Hills, Chief
Engineering Branch 1
Division of Reactor Safety

Docket Nos. 50-455
License Nos. NPF-66

Enclosure: INSERVICE INSPECTION DOCUMENT REQUEST

cc w/encl: Site Vice President - Byron Station
Plant Manager - Byron Station
Regulatory Assurance Manager - Byron Station
Chief Operating Officer and Senior Vice President
Senior Vice President - Midwest Operations
Senior Vice President - Operations Support
Vice President - Licensing and Regulatory Affairs
Director - Licensing and Regulatory Affairs
Manager Licensing - Braidwood, Byron, and LaSalle
Associate General Counsel
Document Control Desk - Licensing
Assistant Attorney General
Illinois Emergency Management Agency
J. Klinger, State Liaison Officer, State of Illinois
P. Schmidt, State Liaison Officer, State of Wisconsin
Chairman, Illinois Commerce Commission
B. Quigley, Byron Station

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Director - Licensing and Regulatory Affairs
Manager Licensing - Braidwood, Byron, and LaSalle
Associate General Counsel
Document Control Desk - Licensing
Assistant Attorney General
Illinois Emergency Management Agency
J. Klinger, State Liaison Officer, State of Illinois
P. Schmidt, State Liaison Officer, State of Wisconsin
Chairman, Illinois Commerce Commission
B. Quigley, Byron Station

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DATE	08/27/08		08/27/08				

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Letter to Mr. Charles G. Pardee from Mr. David E. Hills dated August , 2008

SUBJECT: BYRON STATION, UNIT 2 - NOTIFICATION OF NRC INSPECTION AND
REQUEST FOR INFORMATION

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INSERVICE INSPECTION DOCUMENT REQUEST

Inspection Dates: **October 6, 2008 – October 23, 2008**

Inspection Procedures: **IP 71111.08, “Inservice Inspection”**

Inspectors: **Don Jones (630) 829-9622, donald.jones@nrc.gov**

I. Information Requested for the In-Office Preparation Week

The following information (electronic copy CD ROM if possible) is requested by September 17, 2008, to facilitate the selection of specific items that will be reviewed during the on-site inspection week. The inspector will select specific items from the information requested below and request a list of additional documents needed on-site to your staff. We request that the specific items selected from the lists be available and ready for review on the first day of inspection. If you have any questions regarding this information, please call the inspector as soon as possible.

1. A detailed schedule and description of:
 - a. non-destructive examinations (NDEs) planned for Class 1 and 2 systems and containment, performed as part of your ASME Code ISI Program (include edition and addenda of Code committed to), and NDE examinations planned for other systems performed as part of a Risk Informed (RI)-ISI Program, or other augmented inspection programs commitments as part of an industry initiative such as Alloy 600 weld inspections (MRP-139), during the scheduled inspection weeks, including the weld identification number, description of weld (component name), category, class, type of exam and procedure number, and date of exam;
 - b. reactor vessel upper head examinations pursuant to NRC Order 03-009; and
 - c. steam generator (SG) tube inspection and repair activities for the upcoming outage; and welding on Code Class 1, 2 or 3 components.
2. A copy of the NDE procedures and welding procedures used to perform the activities identified in A.1 (including NDE calibration and flaw characterization/sizing procedures and Welding Procedure Qualification Records). For ultrasonic examination procedures qualified in accordance with Appendix VIII, of Section XI of the ASME Code, provide documentation supporting the procedure qualification (e.g., the EPRI performance demonstration qualification summary sheets).
3. A copy of ASME Section XI, Code Relief Requests applicable to the examinations identified in A(1).

INSERVICE INSPECTION DOCUMENT REQUEST

4. A list identifying NDE reports (ultrasonic, radiography, magnetic particle, or dye penetrant), which have identified relevant indications on Code Class 1 and 2 systems since the beginning of the last refueling outage.
5. List with short description of the welds in Code Class 1 and 2 systems which have been fabricated due to component repair/replacement activities since the beginning of the last refueling outage and identify the system, weld number and reference applicable documentation.
6. If reactor vessel weld examinations required by the ASME Code are scheduled to occur during the inspection period, provide a detailed description of the welds to be examined, and the extent of the planned examination.
7. List with description of ISI and SG related issues (e.g., piping/SG tube degradation or damage (cracks, wall thinning, wear, MIC) or errors identified in piping/SG tube examinations) entered into your corrective action system since the beginning of the last refueling outage (both Units). Also, include a list of corrective action records associated with foreign material introduced/identified in the primary or secondary piping systems since the beginning of the last refueling outage (both Units).
8. Copy of any 10 CFR Part 21 reports applicable to your structures systems or components within the scope of Section XI of the ASME Code that have been identified since the beginning of the last refueling outage.
9. Copy of SG history documentation given to vendors performing eddy current (ET) testing of the SGs during the upcoming outage.
10. Copy of the document defining the planned ET scope for the SGs and the scope expansion criteria which will be used. Also, identify and describe any deviations in this scope or expansion criteria from the EPRI Guidelines.
11. Identify and quantify any SG tube leakage experienced during the previous operating cycle. Also provide documentation identifying which SG was leaking and corrective actions completed or planned for this condition.

B. *Information to be provided on-site to the inspector following the entrance meeting:*

1. For welds selected by the inspector from A.5 above, provide copies of the following documents:
 - a. Document of the weld number and location (e.g., system, train, branch);
 - b. Document with a detail of the weld construction;
 - c. Applicable Code Edition and Addenda for weldment;

INSERVICE INSPECTION DOCUMENT REQUEST

- d. Applicable Code Edition and Addenda for welding procedures;
 - e. Applicable weld procedures (WPS) used to fabricate the welds;
 - f. Copies of procedure qualification records (PQRs) supporting the WPS;
 - g. Copies of welders' performance qualification records (WPQ);
 - h. Copies of the nonconformance reports for the selected welds;
 - i. Radiographs of the selected welds and access to equipment to allow viewing radiographs; and
 - j. Copies of the preservice examination records for the selected welds.
2. For the ISI related corrective action issues selected by the inspector from A.7 above, provide a copy of the corrective actions and supporting documentation.
 3. For the nondestructive examination reports with relevant indications on Code Class 1 and 2 systems selected by the inspector from A.4 above, provide a copy of the examination records and associated corrective action documents.
 4. Updated schedules for item A.1 (including schedule showing contingency repair plans if available).
 5. Copy of the procedures which govern the scope, equipment used and implementation of the inspections required to identify boric acid leakage from systems and components above the vessel head.
 6. Copy of any documentation of:
 - a. engineering evaluations/assessments of boric acid related deposits and associated wastage or corrosion for safety significant components; and
 - b. corrective actions for coolant leakage including boric acid deposits on safety related components identified since the beginning of the last refueling outage.
 7. Copy of the plant procedures used to perform inspections to identify reactor coolant system leaks or boric acid deposits and the procedures for resolution of leaks or boric acid deposits.
 8. Copy of previous outage SG tube operational assessment completed following ET of the SGs.
 9. Provide the flaw depth sizing criteria to be applied for ET indications identified in the SG tubes.
 10. Ready access to:
 - a. Sections V, IX and XI of the ASME Code with Editions applicable to the inservice inspection program and the repair/replacement program; and

INSERVICE INSPECTION DOCUMENT REQUEST

- b. EPRI and industry standards referenced in the site procedures used to perform the SG tube eddy current examination which includes EPRI documents: TR-107621-R1, "Steam Generator Integrity Assessment Guidelines, TR-107620-R1, "Steam Generator In-Situ Pressure Test Guidelines, and 1003138, "Pressurized Water Reactor Steam Generator Examination Guidelines.

Ready access is typically facilitated by providing copies of these standards at the on-site NRC inspection location for the duration of the inspection.