



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

January 10, 2013

Mr. Michael J. Pacilio  
Senior Vice President, Exelon Generation Company, LLC  
President and Chief Nuclear Officer Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

**SUBJECT: QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2, NOTIFICATION  
OF NRC INSPECTION AND REQUEST FOR INFORMATION**

Dear Mr. Pacilio:

On May 6, 2013, the Nuclear Regulatory Commission (NRC) will begin inspection of refueling and other outage activities (NRC Inspection Procedure 71111.20) for the Quad Cities Nuclear Power Station, Units 1 and 2. This inspection will utilize NRC Operating Experience Smart Sample: (OpESS) FY 2007-03, Revision 2, "Crane and Heavy Lift Inspection, supplemental guidance for IP-71111.20," issued September 12, 2008. This inspection will focus on the impact of load handling activities on the reactor core and its cooling and plant support systems. Specifically, this inspection will review applicable design and licensing bases, engineering design and analysis, procedures, and surveillances associated with the reactor vessel head removal and installation during refueling outages including: (1) reactor shield plugs, drywell head, reactor pressure vessel head, steam separator and steam dryer lifting devices; (2) reactor vessel head safe load paths; and (3) reactor building crane and lifting device preventative maintenance, inspections and testing. The on-site portion of the inspection will take place on May 6-10, 2013 and May 20-24, 2013.

Experience has shown that inspection of these activities is resource intensive both for the NRC inspector and the licensee staff. In order to minimize the inspection impact on the site and to ensure a productive inspection for both parties, we have enclosed a request for documents needed for the inspection. This information should be available in Region III by April 29, 2013, (preparatory week). 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 on-site 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 Mr. T. Petersen, of your organization. If there are any questions about this inspection or the material requested, please contact the inspector, Mr. J. Bozga, at (630) 829-9613.

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

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 (PARS) component of NRC's document system (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

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

Docket Nos. 50-254; 50-265  
License Nos. DPR-29; DPR-30

Enclosure: Crane and Heavy Lift Inspection Document Request  
(Information for Preparation Week and Information  
Available On-site During Inspection)

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## **CRANE AND HEAVY LIFT INSPECTION DOCUMENT REQUEST**

**Inspection Dates:** May 6 – 10 and May 20 – 24, 2013

**Inspection Procedures:** IP 71111.20, "Refueling and Other Outage Activities"

**Lead Inspector:** John V. Bozga  
(630) 829-9613

### **I. Information Requested for In-Office Preparation Week**

The following information (paper copy if practicable, unless otherwise indicated) is requested to be available in Region III on April 29, 2013. If you have any questions regarding this information or will not be able to provide the information requested on April 29, 2013, please call the lead inspector as soon as possible.

A copy of the following documents related to heavy load control during removal or installation of the reactor vessel head:

- (1) Quad Cities submittals as a result of NRC December 22, 1980, unnumbered Generic Letter (GL) (now NRC numbered as GL 80-113) and GL 81-07, "Control of Heavy Loads" regarding NUREG 0612, "Control of Heavy Loads at Nuclear Power Plants," six-month response (Phase 1) and nine-month response (Phase II). Final Supplement to Safety Evaluation Report related to NUREG 0612, Phase 1 and Phase II, if applicable.
- (2) Quad Cities corrective action program reports related to NRC Regulatory Issue Summary 2005-25, "Clarification of NRC Guidelines for Control of Heavy Loads," NRC Regulatory Issue Summary 2005-25, "Supplement 1 Clarification of NRC Guidelines for Control of Heavy Loads," Enforcement Guidance Memorandum 2007-006, "Enforcement Discretion for Heavy Load Handling Activities," and Nuclear Energy Institute 08-05, "Industry Initiative on Control of Heavy Loads."
- (3) Design calculation/s of record for lifting lugs on reactor pressure vessel head, drywell head, steam dryer and steam separator.
- (4) Design calculation/s of record for the lifting devices used to transport the reactor shield plugs, drywell head, reactor pressure vessel head, steam dryer and steam separator.
- (5) Design drawings for the lifting devices used to transport the reactor shield plugs, drywell head, reactor pressure vessel head, steam dryer and steam separator.
- (6) Design calculation/s of record for the reactor building crane and reactor building crane support structure.
- (7) Document/s that provides licensing basis of reactor building crane as "single-failure proof" for a specific lifted load.

## **CRANE AND HEAVY LIFT INSPECTION DOCUMENT REQUEST**

- (8) Documents that establish the total lift weight for the existing reactor pressure vessel head, reactor shield plugs, drywell head, steam dryer and steam separator.
- (9) Site procedures associated with control of heavy loads “safe load paths”, which includes removal of the reactor vessel head during refueling operations, installation of the reactor vessel head during refueling operations, and any contingency actions taken to mitigate the consequences of a postulated reactor pressure vessel head drop.
- (10) Reactor building crane vendor recommendations regarding preventative maintenance, and inspection, and testing prior to use.
- (11) Site procedures associated with reactor building crane preventative maintenance, inspection, and testing prior to lifting the reactor vessel head.
- (12) Documentation for reactor building crane preventative maintenance, inspection, and testing performed during last refueling outage prior to lifting the reactor vessel head.
- (13) Site procedures used for implementation of industry standards related to training and qualification of reactor building crane operators.
- (14) Site procedures used for visual, dimensional and non-destructive examination inspection and/or testing of lifting devices used to transport the reactor shield plugs, drywell head, reactor pressure vessel head, steam dryer and steam separator.
- (15) A copy of the Quad Cities Updated Final Safety Analysis Report.

### **III. Information Requested to be provided throughout the inspection**

- (1) Copies of any corrective action documents generated as a result of the inspector’s questions or queries during this inspection.
- (2) Copies of the list of questions submitted by the lead inspector and the status/resolution of the information requested (provide daily during the inspection to lead inspector).

If you have questions regarding the information requested, please contact the lead inspector.

M. Pacilio

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