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June 25, 2008
BW080056

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Braidwood Station, Unit 2
Facility Operating License No. NPF-77
NRC Docket No. STN 50-457

Subject: Braidwood Station Unit 2 60-Day Response to the Reporting Requirements of NRC Order EA-03-009, "Issuance of First Revised Order (EA-03-009) Establishing Interim Inspection Requirements for Reactor Pressure Vessel Heads at Pressurized Water Reactors"

Reference: Letter from U. S. NRC, "Issuance of First Revised NRC Order (EA-03-009) Establishing Interim Inspection Requirements for Reactor Pressure Vessel Heads at Pressurized Water Reactors," dated February 20, 2004.

The purpose of this letter is to provide the results of examinations performed at Braidwood Station Unit 2 in accordance with the requirements of the referenced NRC Order.

During the Spring 2008 (A2R13) refueling outage, Braidwood Station Unit 2 completed the visual inspection to identify potential boric acid leaks from pressure-retaining component above the reactor pressure vessel (RPV) in accordance with Section IV, paragraph D of the Order.

Section IV, paragraph E of the Order requires that the results of this examination be submitted to the NRC within 60 days after returning the plant to operation. The Braidwood Station Unit 2 Spring 2008 refueling outage ended on May 17, 2008 and therefore the inspection results must be submitted by July 16, 2008.

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Please direct any questions you may have regarding this submittal to Mr. David Gullott,
Regulatory Assurance Manager, at (815) 417-2800.

Sincerely,

A handwritten signature in black ink, appearing to read 'B. Hanson', with a long horizontal flourish extending to the right.

Bryan Hanson
Site Vice President
Braidwood Station

Attachment: A2R13 Reactor Vessel Head Visual Inspection Results

ecc: Illinois Emergency Management Agency – Division of Nuclear Safety
Site Vice President – Braidwood Station
Regulatory Assurance Manager – Braidwood Station
Director, Licensing and Regulatory Affairs
Manager, Licensing – Braidwood, Byron and LaSalle County Stations
Braidwood Nuclear Licensing Administrator
Braidwood Commitment Tracking Coordinator
Exelon Document Control Desk Licensing

ATTACHMENT
A2R13 Reactor Vessel Head Visual Inspection Results

The examinations performed on the Braidwood Unit 2 reactor pressure vessel (RPV) head during the Spring 2008 refueling outage are contained in the first revised NRC Order EA-03-009 (Order), Section IV, paragraph D and are summarized below.

Section IV, paragraph D states:

During each refueling outage, visual inspections shall be performed to identify potential boric acid leaks from pressure-retaining components above the RPV head. For any plant with boron deposits on the surface of the RPV head or related insulation, discovered either during the inspections required by this Order or otherwise and regardless of the source of the deposit, before returning the plant to operation the Licensee shall perform inspections of the affected RPV head surface and penetrations appropriate to the conditions found to verify the integrity of the affected area and penetrations.

VISUAL EXAMINATION RESULTS

During the Braidwood Station Unit 2, Spring 2008 refueling outage (A2R13) an initial walk down was performed with the unit in Mode 3 shortly after reactor shutdown to satisfy the requirements of Section IV, paragraph D. The walk down was performed in accordance with the requirements of the Order and the Braidwood Station Boric Acid Corrosion Control program. During this walk down, no evidence of boric acid leakage was observed. No boric acid was found on the mirror insulation below the nozzles. No new physical deposits were noted.