



Commonwealth Edison
1400 Opus Place
Downers Grove, Illinois 60515

May 4, 1990

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Dr. Thomas E. Murley
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Quad Cities Nuclear Power Station Units 1 and 2
Dresden Nuclear Power Station Units 2 and 3
LaSalle Nuclear Power Station Units 1 and 2
Reactor Vessel Head Inspection
NRC Docket Nos. 50-254/265; 50-237/249; 50-373/374

Reference: L. N. Olshan to T. J. Kovach letter dated
April 27, 1990.

Dr. Murley:

On April 19, 1990 members of Nuclear Reactor Regulation's (NRR) and Commonwealth Edison Company's staffs conducted a technical meeting concerning the cracks identified in the Quad Cities Unit 2 reactor vessel head. During this meeting, Commonwealth Edison described a number of actions which would be performed as the result of the identified cracks. The referenced letter requested that Commonwealth Edison provide a schedule for submitting information associated with our investigation. The requested schedule is attached.

If there are any questions regarding this subject, please call this office.

Very truly yours,

R. Stols
Nuclear Licensing Administrator

cc: A.B. Davis - Regional Administrator, RIII
L.N. Olshan - Project Manager, NRR
P.L. Eng - Project Manager, NRR
R.M. Pulsifer - Project Manager, NRR
B. Elliot - Technical Staff, NRR
Senior Resident Inspector, Dresden
Senior Resident Inspector, Quad Cities
Senior Resident Inspector, LaSalle

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ATTACHMENT

SCHEDULE

1. RESULTS OF THE FRACTURE MECHANIC ANALYSIS

The fracture mechanic analysis has been completed. The analysis concluded that continued operation of the plant for the next fuel cycle is justified in that ASME Section XI and Section III Margins are maintained. The analysis SASR 90-33 "Structural Evaluation of Cracks in the Top Head at Quad Cities Nuclear Power Station, Unit 2" dated April, 1990 is attached.

2. RESULTS OF THE BOAT SAMPLE METALLURGICAL ANALYSES

The results of the boat sample metallurgical examinations on the Quad Cities Unit 2 Reactor Pressure Vessel Head will be submitted to the NRC by July 1, 1990. There is a potential that the Scanning Electron Microscopy (SEM) results will not be included in the July 1, 1990 submittal, due to Argonne National Laboratory commitments associated with the Three Mile Island Reactor Vessel work. In the event that the information is not yet available, Commonwealth Edison will define a submittal date of the SEM results in the July 1, 1990 submittal.

3. SUMMARY OF THE FABRICATION HISTORY

The review of the fabrication history for each of the CECO BWR vessels has been prioritized by the Refueling Outage schedule and information needed to support the development of the inspection plans. The fabrication history review required to support the development of the inspection plan includes the reactor vessel head, vessel-to-flange weld, and uppermost shell-to-shell weld for each reactor vessel.

The fabrication records for the LaSalle Station Unit 2 reactor vessel head has been reviewed to support the current Refueling Outage vessel head inspection. No anomalies, similar to the Quad Cities Unit 2 fabrication history, were identified. A review of the vessel-to-flange weld and uppermost shell-to-shell weld fabrication records will be conducted. The fabrication history summary for the vessel head, shell-to-flange weld and shell-to-shell weld will be submitted by July 2, 1990. The first phase review for the remaining units will be provided as follows:

Dresden Unit 2	July 2, 1990
Quad Cities Unit 2	July 2, 1990
Quad Cities Unit 1	August 1, 1990
Dresden Unit 3	September 4, 1990
LaSalle Unit 1	October 1, 1990

The fabrication review summary for the remaining areas of each BWR vessel will be submitted by December 31, 1990.

4. INSPECTION PLANS

An Inspection Plan will be developed for each unit prior to the respective Refueling Outage. This Inspection Plan development schedule will allow for lessons learned to be incorporated from the previous unit's inspection into each inspection plan. The schedule for submitting the Inspection Plans is as follows:

	<u>Inspection Plan Submittal</u>	<u>Refueling Outage Schedule</u>
Dresden Unit 2	July 2, 1990	September, 1990
Quad Cities Unit 1	August 1, 1990	October, 1990
Dresden Unit 3	December 3, 1990	March, 1991
LaSalle Unit 1	January 2, 1991	April, 1991
Quad Cities Unit 2	June 3, 1991	September, 1991
LaSalle Unit 2	October 1, 1991	January, 1992

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