



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

June 6, 1989

Docket No. 50-254

Mr. Thomas J. Kovach
Nuclear Licensing Manager
Commonwealth Edison Company
Post Office Box 767
Chicago, IL 60690

Dear Mr. Kovach:

SUBJECT: SAFETY EVALUATION OF THE QUAD CITIES, UNIT 1, IGSCC INSPECTION
PLAN AND REPAIRS (TAC NO. 66529)

- RE:
- (a) Letter from I. Johnson (CECo) to T. Murley (NRC) dated, December 10, 1987
 - (b) Letter from I. Johnson (CECo) to T. Murley (NRC) dated, December 17, 1987
 - (c) Letter from T. Ross (NRC) to L. Butterfield (CECo) dated, December 18, 1987
 - (d) Letter from T. Ross (NRC) to L. Butterfield (CECo) dated, April 13, 1988
 - (e) Letter from I. Johnson (CECo) to T. Murley (NRC) dated, May 31, 1988
 - (f) Letter from W. Morgan (CECo) to T. Murley (NRC) dated, July 29, 1988

In reference (a), Commonwealth Edison Company (CECo) submitted their final report detailing the results of the Quad Cities (Unit 1) augmented inspection program for piping welds susceptible to Intergranular Stress Corrosion Cracking (IGSCC) pursuant to General Letter (GL) 84-11. This report provided descriptions of flaws, along with analyses and repair actions conducted during the Reload 9/ Cycle 10 Refueling Outage for Quad Cities, Unit 1. In addition to their final report, CECo committed (reference (b)) to upgrade two particular weld repairs and reevaluate another weld during the next refueling outage, and institute an augmented leakage monitoring program in accordance with GL 84-11 during Cycle 10.

Based upon a preliminary review of the aforementioned documentation, we determined in reference (c), that the condition of respective Unit 1 pipe welds should not preclude restart. However, in reference (d), we requested additional information from CECo in order to satisfactorily complete our safety evaluation of the IGSCC inspection plan results and repairs. CECo responded to this request with reference (e).

Enclosed is the final NRC Safety Evaluation for the IGSCC inspection program conducted at Quad Cities, Unit 1, during the Reload 9/ Cycle 10 Refueling Outage. We have concluded that the inspections, repairs, and mitigations performed during this outage met the guidelines of GL 84-11 and Quad Cities Unit 1 can continue to operate safely for at least an 18-month fuel cycle (Cycle 10) in its present configuration.

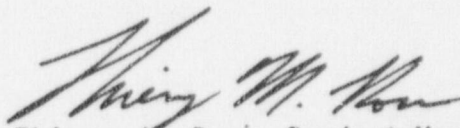
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CECo's plans for inspection and/or modification of the recirculation system piping, and any other piping systems susceptible to IGSCC, during the next refueling outage must now follow the guidelines in Generic Letter 88-01. CECo did already respond to Generic Letter 88-01 in reference (f) regarding their IGSCC program for future outages related to piping replacement, inspection, repair and leakage detection. However, we have not completed our evaluation of this response because additional information is needed. When our review is completed, a separate safety evaluation will be forthcoming.

With regard to the specific IGSCC inspection plan of the upcoming Unit 1 refueling outage (scheduled to begin September 1989), CECo should incorporate the additional weld repairs and examinations recommended in our SER or provide detailed justification for not doing so. These recommendations include previous CECo commitments identified by reference (b).

Should you have any particular questions concerning our conclusions and recommendations contained in the enclosed SER, please do not hesitate to contact me.



Thierry M. Ross, Project Manager
Project Directorate III-2
Division of Reactor Projects III,
IV, V, and Special Projects

Enclosure:
As stated

cc w/enclosure:
See next page

Mr. Thomas J. Kovach
Commonwealth Edison Company

Quad Cities Nuclear Power Station
Units 1 and 2

cc:

Mr. Stephen E. Shelton
Vice President
Iowa-Illinois Gas and
Electric Company
P. O. Box 4350
Davenport, Iowa 52808

Michael I. Miller, Esq.
Sidley and Austin
One First National Plaza
Chicago, Illinois 60603

Mr. Richard Bax
Station Manager
Quad Cities Nuclear Power Station
22710 206th Avenue North
Cordova, Illinois 61242

Resident Inspector
U. S. Nuclear Regulatory Commission
22712 206th Avenue North
Cordova, Illinois 61242

Chairman
Rock Island County Board
of Supervisors
1504 3rd Avenue
Rock Island County Office Bldg.
Rock Island, Illinois 61201

Mr. Michael E. Parker, Chief
Division of Engineering
Illinois Department of Nuclear Safety
1035 Outer Park Drive,
Springfield, Illinois 62704

Regional Administrator, Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road, Bldg. #4
Glen Ellyn, Illinois 60137

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