

July 13, 2000

Mr. Oliver D. Kingsley, President
Nuclear Generation Group
Commonwealth Edison Company
Executive Towers West III
1400 Opus Place, Suite 500
Downers Grove, IL 60515

SUBJECT: QUAD CITIES - REQUEST FOR ADDITIONAL INFORMATION ON
REMIEDIATION PLAN FOR IGSCC-SUSCEPTIBLE WELDS (TAC NO. MA7022)

Dear Mr. Kingsley:

By letter dated November 3, 1999, Commonwealth Edison Company (ComEd) provided additional information on their remediation plan for welds susceptible to Intergranular Stress Corrosion Cracking (IGSCC) at Quad Cities Nuclear Power Station, Unit 1, and to request that weld 02AS-F8 be UT tested in accordance with Category C provisions in lieu of the staff's recommendation that the testing be increased to Category D. The staff requires additional information in order to complete its review. Please respond to the enclosed request for additional information (RAI) within 30 days of receipt of this letter. These questions were discussed with Mr. Joseph Sipek, et. al., of your staff on June 14, 2000.

If you have any questions about the staff's review or about the enclosed questions, please call me at (301) 415-1321.

Sincerely,

/RA/

Stewart N. Bailey, Project Manager, Section 2
Project Directorate III
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-254, 50-265

Enclosure: RAI

cc w/encl: See next page

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DATE	7/6/00	7/6/00	7/3/00	7/13/00

OFFICIAL RECORD COPY

O. Kingsley
Commonwealth Edison Company

Quad Cities Nuclear Power Station
Units 1 and 2

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Chicago, Illinois 60690-0767

REQUEST FOR ADDITIONAL INFORMATION
QUAD CITIES REMEDIATION PLAN FOR IGSCC-SUSCEPTIBLE WELDS
EFFECTIVENESS OF INDUCTION HEAT STRESS IMPROVEMENT (IHSI)
FOR WELD 02AS-F8

- (1) Describe how the acceptance criteria of 555 degrees Fahrenheit for ΔT of cast stainless steel was determined. Provide the equation and parameters used in the evaluation. Identify the data source of σ_y (yield stress of cast stainless steel) used in the calculation and discuss its conservatism.
- (2) Describe how the field ΔT for the subject weld was determined and discuss the conservatism of the methodology and data used in the evaluation.
- (3) Provide the thermocouple data (temperature measurements from each thermocouple) from the IHSI of the subject weld. Also provide a sketch of the subject weld with connecting components including dimensions to show the location of each thermocouple and the corresponding local wall thickness.
- (4) Discuss and evaluate the effect of the shrinkage from the neighboring overlay repaired welds and loading from mechanical restraints such as pipe hangers and snubbers on the effectiveness of the IHSI treatment of weld O2AS-F8. Also discuss what effect would the reduced minimum outside surface temperature have on the acceptance criteria of minimum heating zone length and minimum heating distance from weld centerline.

ENCLOSURE