Commonwealth Edison
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January 31, 1984

PRINCIPAL STAFF			
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Mr. James G. Keppler
Regional Administrator
U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: LaSalle County Station Units 1 and 2
Response to Confirmatory Action Letter
dated November 28, 1983 Item E,
Qualification Plan
NRC Docket Nos. 50-373 and 50-374

Reference (a): J. G. Keppler letter to Cordell Reed
dated November 28, 1983.

Dear Mr. Keppler:

As required by the referenced confirmatory action letter, this letter provides our response to Item E, Plan and schedule to obtain a fully qualified soft seat for the inboard feedwater check valves, B21-F010 A&B.

A material supplier and literature search was conducted for alternate materials to replace the presently used EPR. Two alternative materials are being considered for testing: Kalrez, from Dupont, and Aflas from Parker Seal.

These materials, and the presently used EPR compound, will be subjected to the following conditions:

1. Temperature	420° Continuous, all water environment. 450°, for 4 hours, all water environment
2. Pressure	1000 PSIG
3. Radiation	2.6×10^7 Rads Gamma
4. Time	Sufficient Duration to measurably effect physical properties.
5. Compression	0,10,20, 30% of original material thickness.

Upon completion of testing, the physical condition of the samples will be evaluated by measuring the change in the following physical parameters. These evaluations will be based on various ASTM standards. A degradation of physical properties that results in a failure of a seal to pass an equivalent leak rate test, will be considered a failure of the material.

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1. Compression set	ASTM D3985
2. Hardness	ASTM D224
3. Tensile Strength	ASTM D412
4. Modulus of Elasticity	ASTM D797
5. Tear Strenght	ASTM D624
6. Padiation Damage	NA

Testing is expected to take approximateiy 10 months.

When a physically acceptable material has been selected, the seal design will be reviewed to determine if any changes would be necessary to the original design due to a material change. This should be completed in two weeks. A design change would result in a new mold being fabricated. This is estimated to take six weeks.

Production and delivery of new seals is estimated to take six weeks. Installation could then be done during a planned outage of appropriate duration, but no later than startup following the first refueling outage for each respective unit.

A detailed test plan and procedures will be developed in conjunction with a testing consultant. To date we have discussed the above plan with Anchor/Darling and Farwell & Hendricks, Inc.

To the best of my knowledge and belief the statements contained herein and in the attachment are true and correct. In some respects these statements are not based on my personal knowledge but upon information furnished by other Commonwealth Edison and contractor employees. Such information has been reviewed in accordance with Company practice and I believe it to be reliable.

If there are any further questions regarding this matter, please contact this office.

Very truly yours,

CW Schroeder 1/31/84

C. W. Schroeder
Nuclear Licensing Administrator

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cc: NRC Resident Inspector - LSCS

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