Central Mail

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January 31, 1978

Donald C. Cook Nuclear Plant Unit 2
Docket No. 50 - 316
DPR NO. 74 and CPPR No. 61

Mr. J. G. Keppler, Regional Director
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

This letter is in response to your letter of December 19, 1977, which transmitted IE Bulletin No. 77-07 to us. The attached enclosure is submitted in fulfillment of the requirement to respond to this IE Bulletin.

Very truly yours,

John E. Dolan

John E. Dolan

JED:em
Enclosure

cc: R. C. Callen
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Donald C. Cook Nuclear Plant Unit No. 2
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CPPR No. 61 and DPR No. 74

RESPONSES TO IE BULLETIN NO.77 -07

1.0 The containment electrical penetrations used at D.C. Cook Nuclear Plant Units 1 and 2 are not manufactured by General Electric and do not employ an epoxy sealant to ensure adequate functioning of electrical safety related equipment or to ensure containment leak tightness.

1.1 The electrical penetrations used at D.C. Cook Plant are manufactured by the Conax Corporation. The manufacturer does not employ model numbers. The Conax part numbers for the penetrations used at the D.C. Cook Plant Unit 2 are as follows:

Electrical Penetration No.	Conax Part No.
EP-1	2325-8396-01
EP-2	2325-8386-01
EP-3	2325-8386-02
EP-4	2325-8386-03
EP-5	2325-8386-04
EP-6	2325-8386-05
EP-7	2325-8386-06
EP-8	2325-8386-07
EP-9	2325-8386-08
EP-10	2325-8386-09
EP-11	2325-8386-10
EP-12	2325-8386-11
EP-13	2325-8396-12

1.2 The electrical conductors in the electrical penetrations used at the D.C. Cook Plant do not employ epoxy for electrical insulation or for leak tightness. There is no embedment of the conductors in epoxy.

2.0 The penetrations were shipped and stored with dry nitrogen under pressure. During a short period during installation, the penetrations were depressurized to permit installation in the containment sleeve and again when the pressurization connections were being made. The penetrations are maintained at approximately 15 psig pressure of dry air after installation.

3.0 There is no need to maintain pressure in the electrical penetrations during a design basis accident. Each penetration is provided with 2 seals in series, each of which is capable of withstanding pressures greater than those generated during a design basis accident, without leaking.

3.0 The penetrations were pressurized with dry nitrogen at 15 psig during environmental qualification tests. The penetration was required to pass a leak rate test of less than 1×10^{-6} cc per second of helium at 20 psig pressure differential following the environmental qualification test.

3.1 The containment electrical penetrations are qualified for LOCA environmental conditions by test.

3.2 The measures taken that provide assurance of qualification of the penetrations are adequate to satisfy the Commission's regulations as identified in the question.