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U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER

60-259/260/296

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO:

Mr. Edson G. Case

FROM: TVA

Chattanooga, Tenn. 37401
J. E. Gilleland

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12/06/77

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12/09/77

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DESCRIPTION

ENCLOSURE

Consists of Revision 2 to the response, submitted 11/28/77, to TVA's ltr to Godwin Williams, Jr. dtd 11/18/77, concerning "Electrical Connector Assemblies."...

1p 1p

PLANT NAME: BROWNS FERRY UNITS 1 - 3

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TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401

REGULATORY DOCKET FILE COPY

December 6, 1977



Mr. Edison G. Case, Acting Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

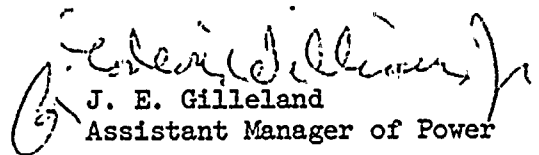
Dear Mr. Case:

In the Matter of)
Tennessee Valley Authority)

Docket Nos. 50-259
50-260
50-296

Enclosed is Revision 2 to the response, submitted November 28, 1977, to your letter to Godwin Williams, Jr., dated November 18, 1977, concerning "Electrical Connector Assemblies." Revision 2 is an addition to Part II, Section C in response to a verbal question from Dan McDonald of your staff on December 2, 1977. Please get in touch with me if you have any questions regarding this subject.

Very truly yours,


J. E. Gilleland
Assistant Manager of Power

Enclosure

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REVISION 2

RESPONSE TO
EDSON G. CASE LETTER TO GODWIN WILLIAMS, JR.,
DATED NOVEMBER 18, 1977

Addition to Part II, Section C, page 2

In addition to the isolation function provided by temperature sensors discussed above, the main steam, HPCI, and RCIC systems have excessive steam flow isolation logic. This steam flow isolation provides complete diversity to ensure steam line isolation in the unlikely event of a postulated steam line rupture. (The isolation functions of the main steam line, HPCI steam line, and RCIC steam line high flow sensors are described in the FSAR in section 7.3.4.7 (items 4., 8., and 11.) and in the response to NRC Question 7.33 dated May 22, 1971, on pages R.7.33-1 and R.7.33-2.)

The Amphenol electrical connectors associated with the main steam, HPCI, and RCIC steam line leak detectors are types MS-3102 and MS-3106. This designation indicates that these connectors comply to Military Specification, MIL-C-5015. Section 4.5.3 of MIL-C-5015 references Method 107, Condition B of Military Standard MIL-STD-202 for the thermal-shock test conditions for each connector. A range of -55°C (-67°F) to $+125^{\circ}\text{C}$ (257°F) is specified for the test temperature limits. Thus, documentation of the 257°F design temperature is identified for these Amphenol connectors.

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