

Central Mail



**Consumers
Power
Company**

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January 6, 1978

Mr James G Keppler, Regional Director
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Region III
799 Roosevelt Rd
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MIDLAND PROJECT
DOCKET NO 50-329, 50-330
IE BULLETIN 77-05, 77-05A
FILE: 0505.2 SERIAL: 4645

IE Bulletin No 77-05 as supplemented by IE Bulletin 77-05A requested Consumers Power Company to conduct an investigation to determine the adequacy of all electrical connectors used in safety systems for the Midland Plants Units 1 and 2. In response to this request, we are providing a complete response to IE Bulletin 77-05 and a partial response to IE Bulletin 77-05A covering the Balance of Plant Equipment. A response to IE Bulletin 77-05A for the NSSS equipment will be provided by January 13, 1978.

NSSS Equipment

Their are no electrical connectors of the type identified in IE Bulletin 77-05 planned for use in the safety related systems inside containment.

Balance of Plant Equipment

Through our investigation, we have identified connectors that fall into this category for use in instrument circuits in the electrical penetration assemblies and the engineered safety features actuation system (ESFAS).

The connectors used in the penetration assemblies are fabricated by the penetration supplier, Bunker Ramo Corporation, Amphenol SAI'S Division. The connectors will be qualified as a part of the penetration assembly through prototype testing which will meet the requirements of IEEE Std 317-1972/RG 1.63 dated 10/73, IEEE Std 323-1974/RG 1.89 dated 11/74, and IEC Std 344-1975/RG 1.100 Revision 1. The test plan for environmental qualification is described in the Midland FSAR, Table 3.11-4, Qualification Test 10. Test results will be provided by amendment to the Midland FSAR in March 1978.

The connectors utilized in the ESFAS are of three types: Elco Series 8016, Continental Series 600 and Stanford Applied Engineering Series SEC. These connectors will be qualified for the intended service by the ESFAS supplier, Automation Industries Inc, Vitro Laboratories Division. The qualification

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will be in accordance with IEEE Std 323-1974/RG 1.89 dated 11/74 and IEEE Std 344-1975/RG 1.100 Revision 1. The environmental qualification test plan is not presently available but is scheduled to be submitted as amendment to the Midland FSAR in May 1978.



SHH/lmc

CC: Director, NRC Office of Inspection & Inforcement
Director of Nuclear Reactor Regulation