

July 8, 1981

MEMORANDUM FOR: The Atomic Safety and Licensing Appeal Board for McGuire Nuclear Station, Units 1 and 2

FROM: Darrell G. Eisenhut, Director
Division of Licensing, NRR

SUBJECT: BOARD NOTIFICATION - SANDIA CONNECTOR TEST RESULTS OF AN O'BRIEN ELECTRICAL PENETRATION ASSEMBLY (BN 81-07)

The enclosed preliminary IE Inspection Report (Enclosure 1) dated July 2, 1981, covers a recently completed environmental test by the Sandia National Laboratory of an electrical penetration assembly (EPA) supplied by the Duke Power Company. The specific EPA was one of a batch of assemblies procured from the D. G. O'Brien Company for installation in the Catawba plant. Similar units are installed in the McGuire plant. Duke Power Company is currently planning additional tests to confirm that the EPA is suitable for its intended service. IE plans to monitor these tests.

On July 6, 1981, the NRC staff met with representatives from Duke Power Company and D. G. O'Brien Company to discuss the various environmental qualification testing that had been conducted on EPAs manufactured by D. G. O'Brien. A summary of the meeting is enclosed (Enclosure 2).

As can be seen from the Enclosures, this item relates to certain qualification test failures resulting from efforts to simulate aging characteristics. While aging is an important element for assuring full environmental qualification of electrical equipment and to insure adequate performance capability in the long term, any safety problems associated with aging occur only over the long term (a matter of a number of years).

The McGuire plant is a new plant and thus aging related problems are a number of years off. Before that time, the licensee must satisfy the Commission's Memorandum and Order of May 23, 1980, relating to environmental qualification of safety related electrical equipment. This provides that such equipment is to be fully qualified including adequate consideration of aging in accordance with the terms of that Memorandum and Order, which may be modified by the Commission in response to a recently submitted Petition. This same point was made by Mr. Noonan in his testimony, Tr. 4555, in discussing the open item of aging.

8107210064 810708
PDR ADDCK 05000369
G PDR

OFFICE						
SURNAME						
DATE						

Thus, the problem discussed above does not affect our conclusion that the McGuire facility can be operated without endangering public health and safety and does not affect the evidence of record in this proceeding.

Carrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Memo, J. Sniezek to D. Eisenhut and R. Vollmer, dated 7/2/81 w/enclosure
- 2. July 6, 1981, Meeting Summary - NRC, Duke Power Company, D. G. O'Brien Company

*OK
Eisenhut
7/8*

*NOTE: SEE PREVIOUS WHITE FOR CONCURRENCE

OFFICE ▶	LB:#4/DL	LA:DL/LB #4	LB #4/DL	AD:L/DL	DIR:DOE	OELD	DIR/DL
SURNAME ▶	*KJabbour/hmc	*MDuncan	*EAdensam	*RTedesco	*RHVollmer		*DEisenhut
DATE ▶	7/7/81	7/7/81	7/7/81	7/7/81	7/8/81	7/ /81	7/8/81

MEMORANDUM FOR: The Atomic Safety and Licensing Board for McGuire Nuclear Station, Units 1 and 2

FROM: Darrell G. Eisenhut, Director
Division of Licensing, NRR

SUBJECT: BOARD NOTIFICATION - SANDIA CONNECTOR TEST RESULTS OF AN O'BRIEN ELECTRICAL PENETRATION ASSEMBLY (BN 81-)

The enclosed preliminary IE Inspection Report (Enclosure 1) covers a recently completed environmental test by the Sandia National Laboratory of an electrical penetration assembly (EPA) supplied by the Duke Power Company. The specific EPA was one of a batch of assemblies procured from the D. G. O'Brien Company for installation in the Catawba plant. Similar units are installed in the McGuire plant. Duke Power Company is currently planning additional tests to confirm that the EPA is suitable for its intended service. IE plans to monitor these tests.

On July 6, 1981, the NRC staff met with representatives from Duke Power Company and D. G. O'Brien Company to discuss the various environmental qualification testing that had been conducted on EPAs manufactured by D. G. O'Brien. A summary of the meeting is enclosed (Enclosure 2).

As can be seen from the Enclosures, this item relates to certain qualification test failures resulting from efforts to simulate aging characteristics. While aging is an important element for assuring full environmental qualification of electrical equipment and to insure adequate performance capability in the long term, any safety problems associated with aging occur only over the long term (a matter of a number of years).

The McGuire plant is a new plant and thus aging related problems are a number of years off. Before that time, the licensee must satisfy the Commission's Memorandum and Order of May 23, 1980, relating to environmental qualification of safety related electrical equipment. This provides that such equipment is to be fully qualified including adequate consideration of aging in accordance with the terms of that Memorandum and Order, which may be modified by the Commission in response to a recently submitted Petition. This same point was made by Mr. Noonan in his testimony, Tr. 4555, in discussing the open item of aging.

OFFICE							
SURNAME							
DATE							

Thus, the problem discussed above does not affect our conclusion that the McGuire facility can be operated without endangering public health and safety and does not add to the evidence of record in this proceeding.

Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Enclosures:

1. Memo, J. Sniezek to D. Eisenhut and R. Vollmer, dated 7/2/81 w/enclosure
2. July 6, 1981, Meeting Summary - NRC, Duke Power Company, D. G. O'Brien Company

OFFICE	LB #4/DL	LA:DLXLB#4	LB #4/DL	DL:L/DL	DIR/DL	OELD	DIR/DL
SURNAME	KJabbour/hmc	MDuncan	EAdamsam	RJedesco	Rvollmer		DEisenhut
DATE	7/7/81	7/7/81	7/7/81	7/7/81	7/8/81	7/ /81	7/ /81

DISTRIBUTION OF BOARD NOTIFICATION

McGuire 1 and 2 (Docket Nos. 50-369, 50-370)

Atomic Safety and Licensing Board Panel
Atomic Safety and Licensing Appeal Panel
Docketing and Service Section

Dr. John M. Barry
Shelly Blum, Esq.
Diane B. Cohn, Esq.
William B. Schultz, Esq.
Dr. Richard F. Cole
Robert M. Lazo, Esq.
Dr. Emmeth A. Luebke
J. Michael McGarry, III, Esq.
William Larry Porter, Esq.
Mr. Jesse L. Riley
Mr. David E. Smith
Alan S. Rosenthal, Esq.
Dr. John H. Buck
Christine N. Kohl
Samuel Chilk, SECY

DISTRIBUTION OF BOARD NOTIFICATION

ACRS

Mr. Myer Bender
Dr. Max W. Carbon
Mr. Jesse C. Ebersole
Mr. Harold Etherington
Dr. William Kerr
Dr. Harold W. Lewis
Dr. J. Carson Mark
Mr. William M. Mathis
Dr. Dade W. Moeller
Dr. David Okrent
Dr. Milton S. Plesset
Mr. Jeremish J. Ray
Dr. Paul G. Shewmon
Dr. Chester P. Siess
Mr. David A. Ward