



Consumers
Power
Company

James W Cook
Vice President - Projects, Engineering
and Construction

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0453

May 19, 1983

83-05 #1

Mr J G Keppler, Regional Director
Office of Inspection and Enforcement
US Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

MIDLAND NUCLEAR PLANT
UNIT NO 1, DOCKET NO 50-329
UNIT NO 2, DOCKET NO 50-330
CORE SUPPORT STRUCTURE BOLTING
FILE: 0.4.9.75 SERIAL: 22185

- References:
- 1) Letter, R J Rodriguez (Sacramento Municipal Utility District) to J B Martin (NRC Region V), April 6, 1983.
 - 2) Letter, J H Taylor (Babcock and Wilcox) to R C DeYoung (NRC), April 11, 1983.
 - 3) Letter, J H Taylor (Babcock and Wilcox) to R C DeYoung (NRC) April 22, 1983.

In accordance with the requirements of 10 CFR 50.55(e), this letter constitutes an interim report concerning a potentially unsafe situation originally reported by a telephone call from W R Bird, CPCo MPQAD, to E Schweibinz, NRC Region III, on April 19, 1983.

As is described in Reference 1, on March 25, 1983 the Sacramento Municipal Utility District found indications of cracked upper core barrel to support shield bolts in the Rancho Seco core support structure. Additional information on this event is provided in Reference 2.

Subsequently, as is described in Reference 3, indications of cracked upper core barrel to support shield bolts were found by Florida Power Corporation in their Crystal River III core support structure.

As of this date, and as reported to the NRC staff during a meeting on May 6, 1983 in Bethesda Maryland, additional indications of cracking have been found in the Crystal River III lower core barrel to lower grid assembly bolting, and surveillance specimen holder tube bolting and in Arkansas Nuclear One Unit 1 upper core barrel to support shield bolts.

8305260309 830519
PDR ADOCK 05000330
S PDR

OC0583-0020A-MP01

MAY 23 1983

IE27

Prior to March of 1983, broken lower thermal shield to lower grid assembly bolting had been found at the three Oconee units, Rancho Seco, and Arkansas Nuclear One Unit 1.

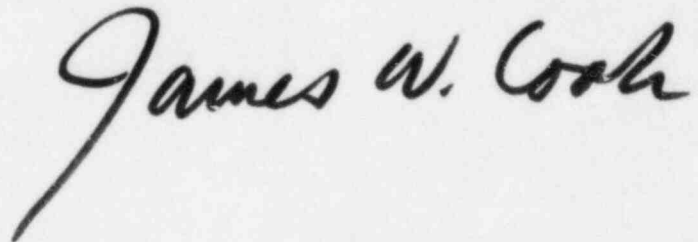
Information to date has shown that there is sufficient similarity between the Midland Units and the Rancho Seco, Crystal River III and Arkansas Nuclear One Unit 1 upper core barrel to support shield bolts, as well as the Crystal River III lower core barrel to lower grid assembly bolting to indicate that corrective action may be required for these bolted joints at Midland.

All of the failures described above have been in bolted connections using ASME SA 453, Grade 660 (A-286) bolts. Consumers Power is evaluating the need for corrective action for all bolted connections in the core support structure which use this material. Included in this evaluation will be:

- . The surveillance specimen holder tube bolting
- . The lower grid assembly to flow distributor bolting
- . The upper thermal shield to upper core barrel bolting

It is not expected that corrective action will be required for the lower thermal shield to lower grid assembly bolting because the A-286 bolting was replaced in 1982 and 1983 by Inconel X 750 HTH bolting as is described in the Midland FSAR, Subsection 4.5.2.1.

Corrective action has not been fully determined at this time, but current scheduling calls for completion of corrective actions by November 1, 1983 for Midland Unit 2; therefore, another report, either interim or final, will be sent on or before November 1, 1983.



JWC/HWS/cd

CC Document Control Desk, NRC
Washington, DC

RJCook, NRC Resident Inspector
Midland Nuclear Plant

CC: CBechhoefer, ASLB Panel
FPCowan, ASLB Panel
JHarbour, ASLB Panel
AS&L Appeal Panel
MMCherry, Esq
MSinclair
BStamiris
CRStephens, USNRC
WDPaton, Esq, USNRC
FJKelley, Esq, Attorney General
SHFreeman, Esq, Asst Attorney General
WHMarshall
GJMerritt, Esq, TNK&J
Great Lakes QA Managers
INPO Records Center


SMUD

SACRAMENTO MUNICIPAL UTILITY DISTRICT ☐ 6201 S Street, Box 15830, Sacramento, California 95813; (916) 452-3011

RJR 83-332

April 6, 1983

J B MARTIN, REGIONAL ADMINISTRATOR
 REGION V OFFICE OF INSPECTION AND ENFORCEMENT
 U S NUCLEAR REGULATORY COMMISSION
 1450 MARIA LANE SUITE 210
 WALNUT CREEK CA 94596

DOCKET NO. 50-312
 LICENSE NO. DPR-54
 LICENSEE EVENT REPORT NUMBER 83-9 Follow-up

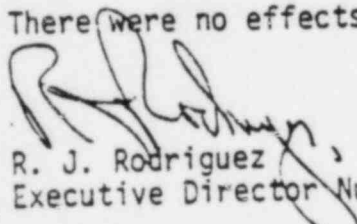
In accordance with Rancho Seco Nuclear Generating Station Technical Specifications Section 6.9.4.1.i and Regulatory Guide 1.16 Section C.2.a.9, the Sacramento Municipal Utility District hereby submits the following 14-day follow-up of LER 83-9.

As reported in our 24-hour report, on March 25, 1983, while performing inspections of the Core Barrel to Support Shield bolts, indications of cracked bolts were found. A complete inspection of the 120 bolts on this ring found 19 bolts showing indication of cracking at the bolt head to bolt shank transition.

The District is continuing to investigate this situation further to verify the accuracy of those indications. If they are valid, the District will pursue determining causes and appropriate corrective actions. The District is awaiting arrival of special tooling to remove two bolts which will be sent to Babcock and Wilcox for analysis. Of the bolts selected for analysis, one will be a bolt that ultrasonic inspection indicated as good and the other will be one showing indications of cracking. An additional follow-up to this report will be written when results of this analysis are available.

Upon inspection of the core barrel to core support casting bolts, no indications of cracking were noted.

There were no effects on public or plant safety resulting from this event.


 R. J. Rodriguez
 Executive Director Nuclear

cc: DCD, Washington
 INPO

~~8304190253~~
 PDR

| | | |
|---------------|---------------|-----------------|
| bc: T. Baxter | J. Marx | R. Rodriguez |
| D. Blachly | J. Mattimoe | L. Schwieger |
| H. Canter | J. McColligan | J. Sullivan |
| R. Colombo | R. Myers | D. Whitney |
| G. Coward | R. Miller | J. Willfong |
| S. Crunk | P. Oubre' | 4th Floor Files |
| R. Dieterich | K. Pooler | RJR Chron |
| J. Edwards | R. Powers | RO File |
| D. Holt | D. Raasch | RWC Chron |
| J. Janis | J. Ravera | |
| W. Latham | S. Redeker | |

