

RELATED CORRESPONDENCE

DOCKETED  
USNRC

'84 APR -4 A11:11

James W Cook  
Vice President - Projects, Engineering  
and Construction

OFFICE OF SECRETARY  
DOCKETING & SERVICE  
BRANCH

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

March 30, 1984

83-03 #4

Mr J G Keppler, Regional Administrator  
US Nuclear Regulatory Commission  
Region III  
799 Roosevelt Road  
Glen Ellyn, IL 60137

MIDLAND ENERGY CENTER PROJECT  
UNIT NO 1, DOCKET NO 50-329  
UNIT NO 2, DOCKET NO 50-330  
CORE SUPPORT STRUCTURE BOLTING  
FILE: 0.4.9.75 SERIAL: 28071

- References:
- 1) Letter, J W Cook to J G Keppler, Same Subject,  
dated May 19, 1983
  - 2) Letter, J W Cook to J G Keppler, Same Subject,  
dated November 1, 1983
  - 3) BAW 1784 "Summary Report of NRC/B&W Lynchburg Meeting  
on Reactor Vessel Internals Bolting, May 6, 1983"
  - 4) Letter, J W Cook to J G Keppler, Serial 26649,  
dated January 9, 1984

Referenced letter #1 and the report (Reference #3) describe cracking of core support structure bolting in operating B&W plants.

Referenced letters #2 and #4 describe the anticipated corrective actions. This letter updates reference 4.

In order to minimize the need for inservice replacement of core support structure bolting, Consumers Power has elected to replace the ASME SA 453 Grade 660 (A-286) bolts with fasteners which have been fabricated from alternative materials as follows:

B404040314 840330  
PDR ADOCK 05000329  
PDR

OC0384-0044A-MP01

D503

<u>Bolted Connection</u>	<u>Replacement Material</u>	<u>Anticipated Completion</u>	
		<u>Unit 2</u>	<u>Unit 1</u>
Upper Core Barrel to Core Support Shield	Inconel X750-HTH	06/29/84	*
Lower Core Barrel to Lower Grid Assembly	60-Inconel X750-HTH and 48-316 Stainless Steel	06/29/84	*
Surveillance Specimen Holder Tube to Thermal Shield	Inconel X750-HTH	06/29/84	*
Lower Grid Assembly to Flow Distributor	Inconel X750-HTH	Complete	*
Upper Thermal Shield Restraint to Core Barrel	316 Stainless Steel**	03/30/84	*
Thermal Shield to Lower Grid Assembly	Inconel X750-HTH	Complete	Complete

\*Schedules have not been established for Unit 1 but plans call for replacements to be complete prior to system hydrostatic testing.

\*\*Due to galling during removal, remnants of some A-286 bolts will be left in this joint. In each case, two of the three bolts holding the restraint block to the core barrel will be replaced. Two bolts are sufficient to maintain joint integrity.

The safety implications of failed core support structure bolting have not been specifically determined for Midland. Section 4 of Reference 3 does describe the safety implications associated with the failure of the upper and lower core barrel joints and concludes that failure of the joint would not be a significant safety concern. Because these bolts perform the most significant core support function, even though core support structure bolting failure may not be a significant safety concern, Consumers Power Company considers this condition reportable under the criteria of 10 CFR 50.55(e).

An FSAR change notice has been initiated to reflect the new bolting materials. Field change packages and piece part drawings have been issued to support the replacement activities. The detailed design analysis of the design changes is finished pending final B&W reviews. The reactor internal assembly drawing will be revised following the accomplishment of the change out of the bolting materials. The B&W Owners Group Bolting Task Force is preparing a report describing the problem and the corrective actions.

Another report will be submitted on or before September 28, 1984.

*James W. Cook*

JWC/HWS/lr

CC Document Control Desk, NRC  
Washington, DC

R J Cook, NRC Inspector  
Midland Site

DHood, NRC Office of NRR  
Washington, DC

INPO Records Center

OM/OL SERVICE LIST

Mr Frank J Kelley  
Attorney General of the  
State of Michigan  
Ms Carole Steinberg  
Assistant Attorney General  
Environmental Protection Division  
720 Law Building  
Lansing, MI 48913

Mr Myron M Cherry, Esq  
Suite 3700  
Three First National Plaza  
Chicago, IL 60602

Mr Wendell H Marshall  
RFD 10  
Midland, MI 48640

Mr Charles Bechhoefer, Esq  
Atomic Safety & Licensing  
Board Panel  
U S Nuclear Regulatory Commission  
East-West Towers, Room E-413  
Bethesda, MD 20014

Dr Frederick P Cowan  
6152 N Verde Trail  
Apt B-125  
Boca Raton, FL 33433

Mr Fred C Williams  
Isham, Lincoln & Beale  
1120 Connecticut Ave, NW, Suite 840  
Washington, DC 20036

Mr James E Brunner, Esq  
Consumers Power Company  
212 West Michigan Avenue  
Jackson, MI 49201

Atomic Safety & Licensing  
Appeal Board  
U S Nuclear Regulatory Commission  
Washington, DC 20555

Mr C R Stephens (3)  
Chief, Docketing & Services  
U S Nuclear Regulatory Commission  
Office of the Secretary  
Washington, DC 20555

Ms Mary Sinclair  
5711 Summerset Street  
Midland, MI 48640

Mr William D Paton, Esq  
Counsel for the NRC Staff  
U S Nuclear Regulatory Commission  
Washington, DC 20555

Atomic Safety & Licensing  
Board Panel  
U S Nuclear Regulatory Commission  
Washington, DC 20555

Ms Barbara Stamaris  
5795 North River Road  
Rt 3  
Freeland, MI 48623

Dr Jerry Harbour  
Atomic Safety & Licensing  
Board Panel  
U S Nuclear Regulatory Commission  
East-West Towers, Room E-454  
Bethesda, MD 20014

Mr M I Miller, Esq  
Isham, Lincoln & Beale  
Three First National Plaza  
52nd Floor  
Chicago, IL 60602

Mr D F Judd  
Babcock & Wilcox  
PO Box 1260  
Lynchburg, VA 24505

Mr Steve Gadler, Esq  
2120 Carter Avenue  
St Paul, MN 55108

Mr F Robert Brown  
Clark, Klein & Beaumont  
1600 First Federal Bldg  
Woodward Ave  
Detroit, MI 48226

Mr John DeMeester, Esq  
Dow Chemical Building  
Michigan Division  
Midland MI 48640

Ms Lynne Bernabei  
Government Accountability Project  
1901 Q Street, NW  
Washington, DC 20009

3/14/84