



**Atwood and Morrill Co., Inc.**  
Designers and Manufacturers Since 1900

285 CANAL STREET - SALEM, MASSACHUSETTS 01970 - PHONE 508 744-5690 - TELEX 94-0299  
FAX 508 741-3626

June 24, 1992

USNRC  
Operations Center

**Notification to Report Possible Defects  
in MSIV Poppets supplied by Atwood & Morrill**

This notification is supplied subsequent to that provided by CEI Perry on May 22, 1992.

Recent problems have been encountered with cracking of the Stellite 21 hardfacing on the guide nose of the poppets supplied as part of the MSIV leakage improvement modification at CEI Perry Station.

While no specific root cause of the cracking has been determined, it appears that major repair welds to the hardfacing on the poppet nose may have contributed to a significant increase in residual stresses induced in the material. These residual stresses have, in some cases, been of sufficient magnitude to cause the Stellite 21 hardfacing to crack well after the poppets were manufactured.

This delayed cracking has appeared only on the hardfaced nose guide or nose cone and seat on the end of the poppet. No cracking has appeared on either of the poppet guide bands or the pilot poppet seat.

We have conducted a review of our records for poppets manufactured for the leakage improvement modification and have determined that poppets with major repairs to the hardfacing have been supplied to the following listed plants.

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PDR ADOCK 05000219  
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TO 13014800127

FROM AM 508 741 3626

JUN 24 1992 09:28

#5901 FAX 3 1

10:54 JUN 24 1992 ID: NRC OPERATIONS CTR. TEL NO: 501-492-8187

JUN 24 1992



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<u>PLANT</u>	<u>POPPET SERIAL NUMBER</u>
Illinois Power Clinton Power Station	One Poppet 243569-8
Detroit Edison Enrico Fermi Nuclear Plant	One Poppet 234794-1A
GPU Nuclear Corporation Oyster Creek Nuclear Station	One Poppet 219570-2
Public Service Electric & Gas Hope Creek Generating Station	One Poppet 216485-1

In accordance with regulatory requirements we have notified appropriate personnel at each location. We have recommended that if the poppet is not yet installed, a liquid penetrant examination be performed on the guide nose and seating surface up to but not including the lower guide band.

If the poppet is installed we have recommended that the examination be performed when the MSIV is disassembled.

Submitted by S.N. Shields  
V.P. Engineering  
Atwood & Morrill Company, Inc.

5NS0022A

< TRANSACTION REPORT >

06-24-1992(WED) 09:47

[ RECEIVE ]

NO.	DATE	TIME	DESTINATION STATION	PG.	DURATION	MODE	RESULT
996	6-24	09:45	NRC OPERATIONS CTR.	4	0' 01' 46"	NORMAL	OK
				4	0' 01' 46"		

Facsimile

Transmittal

United States Nuclear Regulatory Commission  
 AEOP / Incident Response Branch  
 Operations Center



From : SUPER Sent at : Thursday, Jun 24, 1992 10:53 a.m.  
 Destination Fax number : 9,504-2260  
 Send To: Berlinger

Fax Number:

Message:

Fax Number: (301) 492-4933 or 492-8187

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## FAX DATA SHEET

DATE: 6/24/92 # OF PAGES TO FOLLOW: 2

### TO:

COMPANY: USNRC Operations Center

FAX NO: 301-492-8187

ATTENTION: \_\_\_\_\_

### FROM:

NAME: S.N. Shields - V.P. Engineering