

## LICENSEE EVENT REPORT

CONTROL BLOCK / / / / / / (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

/0/1/ /V/A/N/A/S/2/ (2) /0/0/-/0/0/0/0/0/-/0/0/ (3) /4/1/1/1/1/ (4) / / / (5)  
LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT  
/0/1/ REPORT /L/ (6) /0/5/0/0/0/3/3/9/ (7) /0/7/1/3/8/2/ (8) /0/8/0/2/8/2/ (9)  
SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On July 13, 1982, with Unit 2 in cold shutdown to investigate a noise monitored /  
/0/3/ / In "A" Steam Generator, the removal of the handhole covers on each side of the /  
/0/4/ / generator revealed that the Tube Lane Blocking Device (TLBD) split plate on the /  
/0/5/ / manway side was loose. Since the split plate and sleeve assembly were constrain-/  
/0/6/ / ed and no safety concerns were identified, the public health and safety were not /  
/0/7/ / affected. This event is being reported pursuant to T.S.6.9.1.9.b. /  
/0/8/ /

SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
/0/9/ /H/J/ (11)	/A/ (12)	/C/ (13)	/H/T/E/X/C/H/ (14)	/F/ (15)	/Z/ (16)
LER/RO REPORT NUMBER	EVENT YEAR	SEQUENTIAL REPORT NO.	OCCURRENCE CODE	REPORT TYPE	REVISION NO.

(17) /8/2/ /-/ /0/4/5/ /-/ /0/3/ /L/ /-/ /0/  
ACTION FUTURE EFFECT SHUTDOWN ATTACHMENT NPRD-4 PRIME COMP. COMPONENT  
TAKEN ACTION ON PLANT METHOD HOURS SUBMITTED FORM SUB. SUPPLIER MANUFACTURER  
/A/ (18) /Z/ (19) /A/ (20) /A/ (21) /0/0/9/6/ (22) /Y/ (23) /N/ (24) /N/ (25) /W/1/2/0/ (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / Upon removal of generator manway side handhole cover, the TLBD was found to be /  
/1/1/ / loose. An investigation revealed that the split plate had not been fitted tight-/  
/1/2/ / ly into the tube lane blocking channel and the welds on the set screw nuts in /  
/1/3/ / the TLBD sleeve were cracked. The bottom edge of the split plate was built up /  
/1/4/ / with .25 inch of weld material and a new TLBD sleeve was installed. /

FACILITY STATUS	%POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
/1/5/ /G/ (28)	/0/0/0/ (29)	/ NA / (30)	/A/ (31)	/Maintenance Observation/

ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
/1/6/ /Z/ (33)	/Z/ (34)	/ NA /	/ NA /

PERSONNEL EXPOSURES NUMBER	TYPE	DESCRIPTION (39)
/1/7/ /0/0/0/ (37)	/Z/ (38)	/ NA /

PERSONNEL INJURIES NUMBER	DESCRIPTION (41)
/1/8/ /0/0/0/ (40)	/ NA /

LOSS OF OR DAMAGE TO FACILITY TYPE	DESCRIPTION (43)
/1/9/ /Z/ (42)	/ NA /

PUBLICITY ISSUED	DESCRIPTION (45)	NRC USE ONLY
/1/2/0/ /N/ (44)	/ NA /	/ / / / / / / / / / / / / /

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#### Description of Event

On July 13, 1982, with Unit 2 in cold shutdown to investigate a noise previously monitored in "A" Steam Generator during power operation, it was found that the origin of the noise was the Tube Lane Blocking Device (TLBD) installed in the handhole on the manway side of the Steam Generator. It was also observed upon removing the set screws from the set screw nuts on the TLBD sleeve that the weld on one of the nuts had failed, and that welds on two of the other set screw nuts were cracked. Each of the set screw nuts on each of the TLBD's in each steam generator had previously been rewelded during Design Change 82-S02 (Steam Generator Bolted Tube Lane Blocking Device.)

#### Probable Consequences of Occurrence

The TLBD diverts feed flow away from the tube lane and up through the tube bundle. In this event, the device was loose but constrained in the tube lane blocking channel. If the device had broken apart some damage may have been done to the inner row of steam generator tubes. However, because these tubes have been previously plugged, the consequences of tube damage resulting from an unconstrained TLBD would have been minimal. Consequently, the public health and safety were not affected.

#### Cause of Event

This event was the result of improperly fitting the split plate in the tube lane blocking channel. The split plate was apparently cut .25 inch short during a prior installation. The split plates, as received from the manufacturer, are longer than necessary and measurements must be made to fit the plates. Either there was something in the locking channel preventing a proper measurement from being taken, or an error was made while taking the measurements. In any case, the plate was fitted, the sleeve installed, and the set screws and locking bolts tightened and torqued. The rigidity of the TLBD after installation was verified by the installer and further verified by Quality Control personnel.

#### Immediate Corrective Action

After the handhole covers on "A" Steam Generator were removed, the origin of the noise was found to be a loose TLBD on the manway side of the generator. The sleeve and split plate was removed and repairs implemented. A .25 inch weld build up on the lower edge of the split plate was needed to enable the plate to fit snug in the tube lane blocking channel. The TLBD sleeve removed from the manway side of "A" Steam Generator was removed and sent back to the manufacturer for replacement. In addition, the fillet size of the weld around the circumference of each set screw nut located on each TLBD sleeve on "A" Steam Generator was increased to 3/16 inch.

Scheduled Corrective Action

No scheduled Corrective Action.

Action Taken To Prevent Recurrence

It was observed while refitting the split plates that the split plates on one of the two TLBD's on both "B" and "C" Steam Generators was cut short. Each of the tube lane blocking split plates on the Unit 2 "B" and "C" Steam Generator TLBD's were refitted. In addition, the fillet size of the weld around the circumference of each set screw nut located on each TLBD sleeve was increased to 3/16 inch. This latter action should prevent the sleeve nuts from failing when tightened and torqued.

Generic Implications

TLBD's are being installed during the current Unit No. 1 outage. The above modifications will be implemented.