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United States Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Gentlemen:

LER 89-012
Davis-Besse Nuclear Power Station, Unit No. 1
Date of Occurrence - July 14, 1989

Enclosed is Licensee Event Report 89-012 which is being submitted in accordance with 10CFR50.73(a)(2)(i) to provide notification of the subject occurrence.

Yours truly,

Louis F. Storz
Plant Manager
Davis-Besse Nuclear Power Station

LFS/plg

Enclosure

cc: Mr. A. Bert Davis
Regional Administrator
USNRC Region III

Mr. Paul Byron
DB-1 NRC Sr. Resident Inspector

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Davis-Besse Unit No. 1	DOCKET NUMBER (2) 0 5 0 0 0 3 4 6	PAGE (3) 1 OF 3
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TITLE (4)
Unplanned Release of 1700 Gallons From the Clean Waste Receiver Tank 1-1

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
07	14	89	89	012	00	09	01	89			0 5 0 0 0
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OPERATING MODE (9) 1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)					
POWER LEVEL (10) 1 0 0	20.402(b)		20.406(e)		50.73(a)(2)(iv)	73.71(b)
	20.406(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)	73.71(e)
	20.406(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	20.406(a)(1)(iii)	X	50.73(a)(2)(ii)		50.73(a)(2)(viii)(A)	
	20.406(a)(1)(iv)		50.73(a)(2)(iii)		50.73(a)(2)(viii)(B)	
20.406(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(ix)		

LICENSEE CONTACT FOR THIS LER (12)

NAME Jan C. Stotz, Engineer - Maintenance Planning	TELEPHONE NUMBER AREA CODE: 411 924 191-1510 1010
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH DAY YEAR
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewriter lines) (16)

On July 14, 1989, at 1735 hours, an unplanned release occurred from Clean Waste Monitor Tank (CWMT) 1-1 while intending to release from CWMT 1-2. This release to the collection box lasted for about ten minutes. There were 1700 gallons and 2.14E-3 Ci of entrained noble gases released. The cause was an error in procedure DB-OP-03011, Radioactive Liquid Batch Release, which directed the operator to the wrong column in procedure SP 1104.83, Clean Waste Monitor Tank Operations. This caused four valves to be opened that otherwise would be closed. When the #2 transfer pump was started, CWMT 1-1 was being released.

The appropriate sampling had been conducted in anticipation of releasing from CWMT 1-2. However, because the release from CWMT 1-1 was unplanned, the Surveillance Requirement 4.11.1.1 to sample the tank prior to the release was not satisfied. This is reportable under 10CFR50.73(a)(2)(i)(B) as a condition prohibited by Technical Specifications.

The release was below the limits of 10CFR50.73(a)(2)(viii)(B).

Temporary change TA89-4775 to DB-OP-03011 was issued July 15, 1989. A re-validation of the entire procedure was completed on August 12, 1989. Changes from this validation were implemented on August 21, 1989, as TA89-9513.

The unplanned release will also be included in the next Semi-annual Radioactive Effluent Release Report.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Davis-Besse Unit No. 1	0500034689	01	2	0	0	2	OF 03

TEXT (If more space is required, use additional NRC Form 386A's) (17)

Description of Occurrence:

On July 14, 1989, at 1735 hours, an unplanned release occurred from Clean Waste Monitor Tank (CWMT) 1-1 while intending to release CWMT 1-2. The release continued for approximately ten minutes before being discovered and stopped. There were 1700 gallons and 2.14E-3 Ci of entrained noble gases released.

The release was below the limits of 10CFR50.73(a)(2)(viii)(B). However, since the release of CWMT 1-1 was unplanned, the Surveillance Requirement (SR) 4.11.1.1 to sample and analyze the tank prior to release was not met. This is reportable under 10CFR50.73(a)(2)(i)(B) as a condition prohibited by Technical Specifications.

This event will also be included in the next Semi-annual Radioactive Effluent Release Report.

The report date is beyond 30 days of the event date. This situation was originally evaluated as an unplanned release of activity below the 10CFR50.73(a)(2)(viii)(B) limits. Nonetheless, Toledo Edison decided to submit a Voluntary Report although no specific reporting criteria of 10CFR50.73 was identified. Because this was a Voluntary Report, the 30-day time requirement was not mandated. Subsequently, the NRC Resident Inspector issued a violation identifying that the unplanned release constituted a default missed surveillance requirement. A missed surveillance requirement is specifically reportable per 10CFR50.73(a)(2)(i)(B) as a condition prohibited by Technical Specifications. However, by that time, the 30-day requirement had already been exceeded.

Apparent Cause of Occurrence:

The cause of the unplanned release was an error in the procedure DB-OP-03011, Radioactive Liquid Batch Release. Section 5.12 of this procedure provides direction for performing a CWMT 1-2 release. Step 5.12.3 stated that if the CWMT Transfer Pump 1-2 is being used to perform the release, then lineup CWMT 1-1 for Makeup/Discharge, Normal Pump Lineup, in accordance with DB-OP-06105 (SP 1104.83), Clean Waste Monitor Tank Operations. It should have called for the lineup of CWMT 1-2 for Makeup/Discharge. Because of the error, the operator was using the wrong list of valve positions from SP 1104.83. This placed four valves in the open position that would have been closed had the correct list been used. This lineup allowed water from CWMT 1-1 to be released when the #2 transfer pump was started.

Analysis of Occurrence:

This was the first release of either CWMT since December 1988 and the first release of Tank 1-2 using the new procedure DB-OP-03011 which was approved November 16, 1988.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
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TEXT (If more space is required, use additional Form 306A's) (17)

The total volume and activity released from CWMT 1-1 were 1700 gallons and 2.14E-3 Ci of entrained noble gases, respectively. The estimated volume and activity planned to be released from CWMT 1-2 was 22,000 gallons and 2.12E-2 Ci. Water in the CWMT is filtered and demineralized. Both radiation monitors REL770A and REL770B that sample the common discharge line for the CWMTs were operable with very low alarm setpoints. Since the monitors did not detect any unusual activity, offsite doses remained within allowable limits. There was no safety significance to this event.

Corrective Action:

Temporary Change TA89-4775 was issued on July 15, 1989, to correct the error in DB-OP-03011. The sections of the procedure needed to release CWMT 1-2 were re-validated on July 15, 1989. CWMT 1-2 was successfully released on July 16, 1989, using DB-OP-03011 with TA89-4775 in place. A re-validation of the entire procedure was completed on August 12, 1989. Changes from this validation were implemented on August 21, 1989, as TA89-9513.

Failure Data:

There have been no previous reports of a procedural error causing an unplanned release. LER 89-011 did report a procedural deficiency following a plant modification which resulted in a surveillance requirement not being properly completed.

REPORT NO.: NP33-89-013

PCAQR NO.: 89-0372