

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Davis-Besse Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 4 6	PAGE (3) 1 OF 0 2
---	--------------------------------------	----------------------

TITLE (4)  
Inadvertent SFAS Initiation Due to Radioactive Material Transfer

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)
0 5	0 9	8 8	8 8	0 1 2	0 0	0 6	0 8	8 8			0 5 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 50. (Check one or more of the following) (11)

OPERATING MODE (9) 6	20.402(b)	20.408(a)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 1 0 0	20.408(a)(1)(i)	50.38(a)(1)		50.73(a)(2)(v)	73.71(a)
	20.408(a)(1)(ii)	50.38(a)(2)		50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 365A)
	20.408(a)(1)(iii)	50.73(a)(2)(i)		50.73(a)(2)(vii)(A)	
	20.408(a)(1)(iv)	50.73(a)(2)(ii)		50.73(a)(2)(vii)(B)	
	20.408(a)(1)(v)	50.73(a)(2)(iii)		50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Charles S. Gordon, Senior Nuclear Specialist	TELEPHONE NUMBER AREA CODE: 4 1 9 2 4 9 1 - 5 1 0 1 0
--	---

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS
				N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If so, complete EXPECTED SUBMISSION DATE)  NO

EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On May 9, 1988, at approximately 2300 hours, the plant was in Mode 6 with Core alterations in progress. Maintenance was in progress to change the filter elements of the fuel transfer canal skimmer filter under Maintenance Work Order (MWO) 1-88-0612-00. The filters were changed and permission to transfer the filters along a previously designated route was obtained from the Shift Supervisor.

At approximately 2356 hours, during the transfer of these filters a Safety Features Actuation System level 1 initiation signal was received and the system actuated on high radiation level. This actuation was caused by passing the filter elements near the radiation detectors used to initiate SFAS. Operations was not involved in the pre-job briefing for the transfer of the filters. The path utilized for the transfer was not the normal route because the normal route was blocked with scaffolding.

Radiological Control will revise procedure HP 1607.03 "Transfer of Radioactive Material Within Davis-Besse Nuclear Power Station" by July 31, 1988 to obtain guidance from the Operations Department when transferring radioactive material. Operations Management will discuss this occurrence with the Shift Supervisors to emphasize the potential problems that could occur when transferring radioactive material.

This occurrence is being reported according to 10CFR50.73 (a)(2)(iv).

8806150379 880608  
PDR ADOCK 05000346  
S PDR

IE22  
111

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  Davis-Besse Unit 1	DOCKET NUMBER (2)  0 5 0 0 0 3 4 0 8 8 - 0 1 2 - 0 0 0 2 OF 0 2	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

TEXT: If more space is required, use additional NRC Form 366A's (17)

Description of Occurrence:

On May 9, 1988, at approximately 2300 hours, the plant was operating in Mode 6 and Core alterations were in progress. Maintenance was in progress to change the filter elements of the fuel transfer canal skimmer filter under Maintenance Work Order (MWO) 1-88-0612-00. The filters were changed and permission to transfer the filters along a previously designated route was obtained from the Shift Supervisor.

At approximately 2356 hours, during the transfer of these filters a Safety Features Actuation System (SFAS) (JE) level 1 initiation signal was received and the system actuated on high radiation level. This actuation was caused by passing very near the radiation detectors used to initiate SFAS while transferring the radioactive material.

The operators received a Channel 1 SFAS trip signal in the control room and before the cause for the Channel 1 trip could be determined and reset, Channel 4 tripped initiating SFAS.

This occurrence is being reported according to 10CFR50.73(a)(2)(iv).

Designation of Apparent Cause of Occurrence:

This occurrence was caused by personnel selecting a route for transfer of the radioactive material which passed in close proximity to the Channel 1 and Channel 4 radiation detectors used in the SFAS system for containment isolation. The route utilized for transfer was not the normal route because the normal route was blocked by scaffolding. Operations personnel were not included in the pre-job briefing nor was sufficient preplanning done by shift personnel prior to granting permission for the radioactive material transfer.

Analysis of Occurrence:

The abnormally high radiation level caused a Level 1 SFAS initiation. The system actuated normally and the containment vessel sample and purge lines were isolated and the Emergency Ventilation System (EVS) (VC) started.

This event would not have occurred at a higher power level because the evolution in progress only occurs when the plant is refueling.

Corrective Action:

Radiological Control will revise procedure HP 1607.03 "Transfer of Radioactive Material Within Davis-Besse Nuclear Power Station" by July 31, 1988 to obtain guidance from the Operations Department when transferring radioactive material. Operations Management will discuss this occurrence with the Shift Supervisors to emphasize the potential problems that could occur when transferring radioactive material within the plant.

Failure Data:

This is the first report of SFAS initiation due to transfer of radioactive material.

REPORT NO: NP-33-88-13

PCAQ NO(s): 88-0353

June 8, 1968



EDISON PLAZA  
300 MADISON AVENUE  
TOLEDO OHIO 43652-0001

Log No: KA88-0277  
NP-33-88-13

Docket No. 50-346  
License No. NPF-3

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C. 20555

Gentles...

LER No. 88-012  
Davis-Besse Nuclear Power Station Unit No. 1  
Date of Occurrence May 9, 1988

Enclosed is Licensee Event Report 88-012, which is being submitted in accordance with 10CFR50.73 to provide 30 day written notification of the subject occurrence.

Yours truly,

A handwritten signature in cursive script that reads 'Louis F. Storz'.

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

LFS/ed

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

Mr. Paul Byron  
DB-1 NRC Resident Inspector

IE22  
11