

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CON'T

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

SYSTEM	CAUSE	CAUSE	COMB	8
--------	-------	-------	------	---

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

7	8	9	
---	---	---	--

ACTIVITY	CONTENT	44	45	46	80
----------	---------	----	----	----	----

PERSONNEL EXPOSURES 80

PERSONNEL INJURIES		80
NUMBER	DESCRIPTION	
41		

[illegible]

ISSUED	DESCRIPTION	(45)	NRC USE ONLY
--------	-------------	------	--------------

A 81-072 NAME OF PREPARER Mark Rowland/Jan Stotz PHONE (419) 259-5000, Ext. 243

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-81-37

DATE OF EVENT: May 12, 1981

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Reactor Coolant System (RCS) Dose Equivalent I-131 Exceeded Technical Specification Limits After Reactor Trip at 1457 Hours

Conditions Prior to Occurrence: The unit was in Mode 3 with Power (MWT) = 0 and Load (Gross MWE) = 0.

Description of Occurrence: At 1457 hours on May 12, 1981 following a reactor trip, an RCS sample was collected in accordance with Technical Specification 3.4.8, Table 4.4-4. The analysis of the sample showed that the dose equivalent I-131 was .94 uCi/gm. A second sample was taken which exceeded Technical Specification 3.4.8 limit of 1.0 uCi/gm. At 2037 hours on May 12, 1981, the level peaked at 1.52 uCi/gm.

The following information is supplied per reporting requirements:

Power History

Reactor power was constant until 0022 hours on May 12, 1981 when it was reduced in anticipation of Reactor Coolant Pump (RCP) 2-1 being shutdown due to a seal problem. At 0058 hours, RCP 2-1 was taken out of service with reactor power at 75%.

<u>Date</u>	<u>Time</u>	<u>Reactor Power</u>
5/10/81	1400	100%
5/11/81	1200	100%
5/12/81	0100	73%
	0200	74%
	0300	74%
	1457	TRIP

Fuel Burnup By Core Region - See attached computer printout

Cleanup Flow History - 48 hours prior to the first limit exceeding sample:

The letdown flow during this time:

May 10, 1981 - 86 gpm
May 11, 1981 - 86 gpm
May 12, 1981 - 102 gpm

There was no degassing operation.

The dose equivalent I-131 exceeded 1.0 uCi/gm at 2037 hours on May 12, 1981, and was below that limit at 0350 hours on May 13, 1981. The total time duration was approximately 9 hours. The maximum level was 1.52 uCi/gm.

Specific Activity Analysis:

<u>Date</u>	<u>Time</u>	<u>Activity (uCi/gm) Dose Equivalent I-131</u>
5/12/81	0500	0.132
	1845	0.94
	2037	1.52
5/13/81	0013	1.14
	0350	0.99
	0555	0.74
	0815	0.16

Designation of Apparent Cause of Occurrence: A reactor trip typically causes an iodine spike in the RCS. This is caused by a slight amount of gas leakage through the fuel rod cladding due to transient conditions. The gas leak is a result of increased compression of gas by the contracting cladding. Any small defects would allow some gas to escape.

Analysis of Occurrence: There was no danger to the health and safety of the public or to station personnel. There was no venting of containment gases until the levels had decayed. The highest levels found in any sample were still well below the allowable limit of 60 uCi/gm per Figure 3.4-1 of Technical Specification 3.4.8.

Corrective Action: A corrective action is not applicable. Iodine spikes are typical following a reactor trip. No damage is indicated to the fuel. Monitoring of I-131 level was continued until it dropped below Technical Specification limit of 1 uCi/gm. At 0555 hours on May 13, 1981, the level dropped to .74 uCi/gm. A Technical Specification revision to change the limit is being evaluated per Facility Change Request 81-163.

Failure Data: There have been two previous reports of high iodine levels - see Licensee Event Reports NP-33-80-114 (80-088) and NP-33-81-14 (81-016).

0621	PHISA	20122E	01	20301E	01	20871E	01	20379E	01	20119E	01	21248E	01	20235E	01
0622		13265E	02	17114E	02	10323E	02	17114E	02	13276E	02	20230E	01	21242E	01
0623		91260E	01	31982E	01	10391E	02	17070E	02	10815E	02	17971E	02	10822E	02
0624		17047E	02	16390E	02	31973E	01	91242E	01	21245E	01	31980E	01	13681E	02
0625		16026E	02	17044E	02	17285E	02	16960E	02	17284E	02	17032E	02	16840E	02
0626		14178E	02	31974E	01	21240E	01	29231E	01	17028E	02	16417E	02	17041E	02
0627		15252E	02	11878E	02	20785E	02	13239E	02	15263E	02	17040E	02	16421E	02
0628		17029E	02	29227E	01	20117E	01	13185E	02	17005E	02	16940E	02	15479E	02
0629		14364E	02	16885E	02	13860E	02	16883E	02	13858E	02	15483E	02	16926E	02
0630		16637E	02	13189E	02	20116E	01	20375E	01	16618E	02	10954E	02	17829E	02
0631		13308E	02	16958E	02	11683E	02	14404E	02	11672E	02	16961E	02	13371E	02
0632		17832E	02	10948E	02	16620E	02	20376E	01	20864E	01	10344E	02	17958E	02
0633		16957E	02	17782E	02	13851E	02	14065E	02	17034E	02	14080E	02	13845E	02
0634		17789E	02	16951E	02	17965E	02	10344E	02	20867E	01	26373E	01	16621E	02
0635		10952E	02	18040E	02	13201E	02	16960E	02	11679E	02	14398E	02	11686E	02
0636		16966E	02	13332E	02	17839E	02	10949E	02	16027E	02	26378E	01	20113E	01
0637		13188E	02	16765E	02	16921E	02	15476E	02	13846E	02	16880E	02	13801E	02
0638		16884E	02	14375E	02	15466E	02	16923E	02	16733E	02	13180E	02	20120E	01
0639		29225E	01	17030E	02	16412E	02	17626E	02	15272E	02	13314E	02	17802E	02
0640		13208E	02	15269E	02	17624E	02	16405E	02	17041E	02	29234E	01	21238E	01
0641		31972E	01	14176E	02	16030E	02	17043E	02	17274E	02	16964E	02	17278E	02
0642		17047E	02	16032E	02	13677E	02	31983E	01	21247E	01	91279E	01	31974E	01
0643		16397E	02	17012E	02	10826E	02	17039E	02	10819E	02	17243E	02	16406E	02
0644		31984E	01	91294E	01	21241E	01	29239E	01	13268E	02	17123E	02	10334E	02
0645		17127E	02	13267E	02	29237E	01	21250E	01	20120E	01	26380E	01	28872E	01
0646		26382E	01	20124E	01										
0647	PHISC	12038E	02												
0648	RPLP(1-4)	10013E	03	99906E	02	99679E	02	99601E	02						
0649	RPIM(1-4)	60048E	01	45244E	01	62490E	01	58979E	01						
0650	WLETON	39109E	02												
0651	TILT (1-4)	12145E	01	33560E	03	26702E	02	97808E	02						
0652	PEQXN	99898E	02												
0653	RODW	10000E	03	92679E	02	10000E	03	10000E	03	10000E	03	10000E	03	10000E	03
0654		92476E	02	25574E	02	10000E	03	27771E	02	92609E	02	10000E	03	10000E	03
0655		00000E	00	00000E	00	10000E	03	10000E	03	10000E	03	25640E	02	92445E	02
0656		10000E	03	92664E	02	25613E	02	10000E	03	10000E	03	00000E	00	10000E	03
0657		10000E	03	00000E	00	10000E	03	92539E	02	10000E	03	10000E	03	10000E	03
0658		10000E	03	10000E	03	92609E	02	10000E	03	00000E	00	10000E	03	10000E	03
0659		00000E	00	10000E	03	10000E	03	25533E	02	91835E	02	10000E	03	92640E	02
0660		25626E	02	99687E	02	10000E	03	10000E	03	00000E	00	00000E	00	10000E	03
0661		99648E	02	92476E	02	26128E	02	10000E	03	26238E	02	92445E	02	10000E	03
0662		10000E	03	10000E	03	10000E	03	10000E	03	92593E	02	10000E	03		
0663	RE	0203,													
0664	RIE	0029,													
0665	LABEL: PERFORMANCE DATA OUTPUT SEGMENT 1														
0666	PLANT: TOLEDO EDISON CO. DAVIS BESSE ONE														
0667	TIME: YEAR 01 MONTH 05 DAY 01 HOUR 09 MINUTE 36 REF EST														

LER #81-031

POOR ORIGINAL

0621 PHISA	23507E	01	30821E	01	33722E	01	30819E	01	23503E	01	24878E	01	34148E	01
0622	13746E	02	17572E	02	10852E	02	17572E	02	13757E	02	34142E	01	24870E	01
0623	94664E	01	37465E	01	16826E	02	17545E	02	11342E	02	18480E	02	11349E	02
0624	17516E	02	16825E	02	37457E	01	94645E	01	24675E	01	37463E	01	14092E	02
0625	16523E	02	17510E	02	17773E	02	17480E	02	17772E	02	17498E	02	16536E	02
0626	14590E	02	37456E	01	24869E	01	34143E	01	17493E	02	16918E	02	18097E	02
0627	15737E	02	12454E	02	21281E	02	13798E	02	15749E	02	18096E	02	16922E	02
0628	17494E	02	34139E	01	23501E	01	13646E	02	17477E	02	17371E	02	15996E	02
0629	14799E	02	17400E	02	14466E	02	17398E	02	14293E	02	16000E	02	17357E	02
0630	17097E	02	13650E	02	23499E	01	30813E	01	17092E	02	11512E	02	18323E	02
0631	13878E	02	17471E	02	12287E	02	14877E	02	12276E	02	17476E	02	13951E	02
0632	18327E	02	11506E	02	17095E	02	30814E	01	33715E	01	10870E	02	18467E	02
0633	17476E	02	18278E	02	14457E	02	14538E	02	17510E	02	14553E	02	14450E	02
0634	18285E	02	17470E	02	18474E	02	10871E	02	33718E	01	30811E	01	17095E	02
0635	11510E	02	18534E	02	13754E	02	17475E	02	12283E	02	14872E	02	12200E	02
0636	17482E	02	13905E	02	18333E	02	11507E	02	17102E	02	30817E	01	23495E	01
0637	13649E	02	17221E	02	17352E	02	15993E	02	14281E	02	17395E	02	14467E	02
0638	17398E	02	14809E	02	15983E	02	17354E	02	17196E	02	13642E	02	23503E	01
0639	34136E	01	17495E	02	16913E	02	18082E	02	15757E	02	13887E	02	18298E	02
0640	13761E	02	15755E	02	18080E	02	16906E	02	17506E	02	34146E	01	24866E	01
0641	37454E	01	14587E	02	16526E	02	17509E	02	17761E	02	17484E	02	17766E	02
0642	17513E	02	16529E	02	14089E	02	37466E	01	24876E	01	94681E	01	37456E	01
0643	16832E	02	17483E	02	11353E	02	18478E	02	11346E	02	17720E	02	16841E	02
0644	37467E	01	94697E	01	24870E	01	34141E	01	13749E	02	17580E	02	10861E	02
0645	17584E	02	13748E	02	34150E	01	24879E	01	23503E	01	30819E	01	33723E	01
0646	30822E	01	23508E	01										
0647 PHISC	12516E	02												
0648 RPLP(1-4)	75671E	02	76101E	02	75445E	02	75734E	02						
0649 RPIM(1-4)	28231E	00	40440E	00	12283E	01	10910E	01						
0650 WLETON	39335E	02												
0651 TILT (1-3)	12268E	-01	35171E	-02	30899E	-02	56076E	-02						
0652 PEQXN	97906E	02												
0653 RODW	10000E	03	94117E	02	99906E	02	10000E	03	10000E	03	10000E	03	10000E	03
0654	93914E	02	26279E	02	10000E	03	27796E	02	94031E	02	10000E	03	10000E	03
0655	00000E	00	00000E	00	10000E	03	10000E	03	10000E	03	26373E	02	93859E	02
0656	10000E	03	94085E	02	26345E	02	10000E	03	10000E	03	00000E	00	10000E	03
0657	10000E	03	00000E	00	10000E	03	93992E	02	10000E	03	10000E	03	10000E	03
0658	10000E	03	10000E	03	94046E	02	10000E	03	00000E	00	10000E	03	10000E	03
0659	00000E	00	10000E	03	10000E	03	26265E	02	93992E	02	10000E	03	94085E	02
0660	26333E	02	99718E	02	10000E	03	10000E	03	00000E	00	00000E	00	10000E	03
0661	10000E	03	93914E	02	26833E	02	10000E	03	26943E	02	93882E	02	10000E	03
0662	10000E	03	10000E	03	10000E	03	10000E	03	94031E	02	10000E	03		
0663 RE	0203.													
0664 RIE	0029.													
0665 LABEL: PERFORMANCE DATA OUTPUT SEGMENT 1														
0666 PLANT: TOLEDO EDISON CO. DAVIS BESSE ONE														
0667 TIME: YEAR 01 MONTH 05 DAY 22 HOUR 16 MINUTE 04 REF EST														

LER #81-031

POOR ORIGINAL