

LICENSEE EVENT REPORT

CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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LICENSEE CODE														LICENSE NUMBER												LICENSE TYPE																																																																									

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REPORT SOURCE L 6 0 5 0 0 0 2 8 9 7 1 2 1 4 8 3 E 0 1 3 1 E 4 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

012 | A Nuclear Safety related circuit for the make-up pump lube oil pressure trip was
013 | found to be incorrectly routed (MU-PlC). The green marked cable was routed in the
014 | red channel tray. Some of the cables for the makeup pump lube oil pressure trip
015 | circuit for MU-PlA, B and C are routed in non-safety trays. Due to current plant
016 | condition no threat to public health and safety existed. This is reportable per
017 | T.S. 6.9.2.A.9.

09		SYSTEM CODE S F 11		CAUSE CODE A 12		CAUSE SUBCODE X 13		COMPONENT CODE Z Z Z Z Z Z 14				COMP. SUBCODE X 15		VALVE SUBCODE Z 15			
7 8		9 10		11		12		13 18				19		20			
17 LER/RO REPORT NUMBER		EVENT YEAR 8 3 21 22		23		SEQUENTIAL REPORT NO. 0 4 6 24 26		27		OCCURRENCE CODE 0 1 28 29		REPORT TYPE T 30		31			
32		32		32		32		32		32		32		32			
ACTION TAKEN Z 18 33		FUTURE ACTION F 19 34		EFFECT ON PLANT Z 20 35		SHUTDOWN METHOD Z 21 36		HOURS 0 0 0 0 22 37 40		ATTACHMENT SUBMITTED Y 23 41		NPRD-4 FORM SUB. N 24 42		PRIME COMP. SUPPLIER Z 25 43		COMPONENT MANUFACTURER Z 9 9 9 44 47	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The circuits were originally installed as non-safety circuits and were not upgraded

1 1 when the circuit was modified. This circuit will be disconnected until proper separation

1 2 tion is achieved. Circuits for all makeup pumps will be rerouted in safety grade

1 3 raceways.

FACILITY STATUS 1 5 X 28			% POWER 0 0 0 29			OTHER STATUS NRC Order 30			METHOD OF DISCOVERY B 31			DISCOVERY DESCRIPTION QC Report 32		
ACTIVITY CONTENT RELEASED OF RELEASE 1 6 Z 33 Z 34			AMOUNT OF ACTIVITY N/A 35			LOCATION OF RELEASE N/A 36								
PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION 0 0 0 37 Z 38			N/A 39			8402140323 840131 PDR ADOCK 05000289 S PDR								
PERSONNEL INJURIES NUMBER DESCRIPTION 0 0 0 40			N/A 41											
LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION Z 42			N/A 43											
PUBLICITY NRC DESCRIPTION Z 44			N/A 45											

Not valid only

RESPONSE TO LER 83-46

I. CURRENT ACTIVITIES AT THE TIME OF OCCURRENCE

Three Mile Island Unit 1 was in cold shutdown.

II. CIRCUMSTANCES LEADING TO THE OCCURRENCE

In about 1974 a modification was implemented to provide a low lube oil pressure trip to MU-PlA, B and C. The trip signal was blocked upon receipt of an Engineered Safeguards (ES) signal.

The oil pressure switches were replaced in (1977) with switches that were seismically rated and ES interlock was removed. At this time, the cables should have been upgraded to safety grade, but were not.

Material Non-Conformance Report 115-81 identified a green marked cable in a red channel tray. The cable was found to be related to the oil pressure trip. The cable was found to be incorrectly routed. The circuit was also found to be classified as not important to safety.

III. DESCRIPTION

The circuits for MU-PlC low oil pressure trip do not meet separation criteria. The circuits were originally installed as non-safety circuits and were not upgraded when the circuit was modified. This circuit did not meet the routing criteria for an important to safety circuit in that it originated in a green channel panel and was routed in a red channel tray. Trip circuits for MU-PlA and B have acceptable separation. These circuits for MU-PlA, B and C are installed in some non-safety trays; however, the trays are all in Seismic 1 Buildings and have the same design as seismically mounted trays.

IV. RESULTANT EVENTS

No significant event took place as a result of this event.

V. PREVIOUS EVENTS OF A SIMILAR NATURE

LER 83-044

VI. ROOT CAUSE

The apparent root cause for the occurrence was design oversight in that the trip circuits were not upgraded to meet separation criteria when the Field Change package was issued to remove the ES interlock.

VII. IMMEDIATE CORRECTIVE ACTION

No immediate corrective action is required because of current plant condition. However, it should be noted that procedures implemented since 1981 provide assurance that this type of event is unlikely to recur.

VIII. LONG TERM CORRECTIVE ACTION

1. Circuit routing for MU-PlA and B were reviewed and found to have acceptable separation. The seismic adequacy of the circuits for MU-PlA and B has been confirmed and lube oil pressure trip will be disconnected for MU-PlC until acceptable separation is established. The lube oil pressure trip circuit for MU-PlC may be reconnected for Tech Spec testing but will be disconnected when the test is complete. Disconnecting the low pressure trip is acceptable because it is for equipment protection only and the HPI function will be fully operable with cable disconnected. A modification package is being prepared to re-route the circuits in question for MU-PlA, B, and C. This modification is scheduled to be completed by July, 1984.
2. A review of all cable routing for modifications, initiated after issuance of TMI-1 Operating License, which upgraded a system or component to safety grade will be performed to assure that cables are properly routed and classified. This will be completed by July, 1984.



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Writer's Direct Dial Number:

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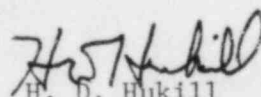
Dr. T. E. Murley
Region I, Regional Administrator
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Dear Sir:

Three Mile Island Nuclear Station, Unit 1 (TMI-1)
Operating License No. DFR-50
Docket No. 50-289
LER 83-046/01T-1

Attached is revision (1) to Licensee Event Report 83-046/01T concerning improper safety-related circuit routing. Margin bars indicate where changes have been made.

Sincerely,


H. D. Hukill
Director, TMI-1

HDH:RAS:jrg

Enclosure

cc: R. J. Conte
Document Management Branch