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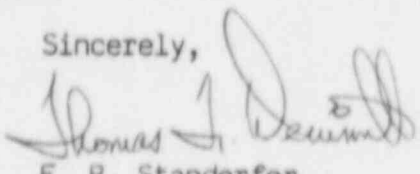
Office of Nuclear Reactor Regulation
Attn: Mr. D. G. Eisenhut
Director, Division of Licensing
US Nuclear Regulatory Commission
5920 Norfolk Avenue
Bethesda, MD 20014

Dear Mr. Eisenhut:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)
Operating License No. DPR-73
Docket No. 50-320
Generic Letter 84-15

Attached is TMI-2's response to Generic Letter 84-15, "Proposed Staff Actions to Improve and Maintain Diesel Generator Reliability". Tables 1 and 2 of the Enclosure provide a time history of the last 100 valid starts of each TMI-2 diesel generator.

Sincerely,


F. R. Standerfer
Vice President/Director, TMI-2

FRS/RDW/eml

Attachment

cc: Program Director - TMI Program Office, Dr. B. J. Snyder
Deputy Program Director - TMI Program Office, Dr. W. D. Travers

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P PDR

NRC Item 1 - Reduction in Number of Cold Fast Start Surveillance Tests for Diesel Generators

This item is directed towards reducing the number of cold fast start surveillance tests for diesel generators which the staff has determined results in premature diesel engine degradation. The details relating to this subject are provided in Enclosure 1. Licensees are requested to describe their current programs to avoid cold fast start surveillance testing or their intended actions to reduce cold fast start surveillance testing for diesel generators.

GPU Nuclear Response

During the recovery mode, TMI-2 is not required to perform cold fast starts on the emergency diesel generators DF-X-1A and B. The diesel generators are operated and surveilled in accordance with TMI-2 Procedures 4210-OPS-3860.01, "Emergency Diesels and Auxiliaries", and 4303-M16A/B, "Emergency Diesel Generator Operability Test", respectively. These procedures include the manufacturer's (Fairbanks/Morse) recommendations for prelubing and warming prior to starting the diesel generators.

NRC Item 2 - Diesel Generator Reliability Data

This item requests licensees to furnish the current reliability of each diesel generator at their plant(s), based on surveillance test data. Licensees are requested to provide the following information:

"... include the number of failures in the last 20 and 100 valid demands indicating the time history for these failures. Licensees are requested to indicate whether they maintain a record which itemizes the demands and failures experienced by each diesel generator unit, in the manner outlined in Regulatory Guide 1.108 position C.3.a, for each diesel generator unit. Licensees should also indicate whether a yearly data report is maintained for each diesel generator's reliability."

GPU Nuclear Response

The reliability of the diesel generators at TMI-2 is shown below:

DIESEL GENERATOR	FAILURES IN THE LAST 20 TESTS	RELIABILITY	FAILURES IN THE LAST 100 TESTS	RELIABILITY
DF-X-1A	0	1.0	Test Nos. 52 & 74	.98
DF-X-1B	0	1.0	Test No. 18	.99

The above figures were derived from the enclosed Tables 1 and 2 which include the last 100 valid starts for each diesel generator. Valid starts were classified in accordance with Regulatory Guide 1.108; invalid tests are marked "NA".

The information listed in Tables 1 and 2 were obtained from the Control Room Operator's log. This information is also obtainable from the following TMI-2 documents:

- o Licensee Event Reports
- o Technical Specification completed surveillance procedures
- o Machinery computer history of corrective maintenance, preventive maintenance, and test results of the diesel generators

TMI-2 does not maintain records of diesel generator operational and failure data as outlined in position C.3.a of Regulatory Guide 1.108. Additionally, TMI-2 does not maintain a yearly data report of each diesel generator's reliability. GPU Nuclear believes, however, that the above listed documents provide an accurate historical account of any events relating to the TMI-2 diesel generators.

NRC Item 3 - Diesel Generator Reliability

Licensees are requested to describe their program, if any, for attaining and maintaining a reliability goal for their generators. An example of a performance Technical Specification to support a desired diesel generator reliability goal has been provided by the staff in Enclosure 3. Licensees are requested to comment on, and compare their existing program or any proposed program with the example performance specification.

GPU Nuclear Response

As indicated in the response to Item 2, the reliability figures for the diesel generators indicate that there is currently no need for an improved diesel generator reliability program. Furthermore, the NRC's Amendment Order dated December 19, 1984, reduced the number of surveillance runs from once every 12 hours to once every 7 days when a redundant diesel generator or offsite power source is out of service. Reducing the frequency of unnecessary diesel generator starts results in improved reliability by decreasing the possibility of premature diesel engine degradation.

GPU Nuclear is currently developing a Technical Specification Change Request (TSCR) which proposes deleting the diesel generator requirements at TMI-2. This proposed TSCR is based on a Safety Evaluation Report which demonstrates that the diesel generators are not required for safe operation of TMI-2 during the recovery mode.

Therefore, pending the submittal and approval of the above TSCR, GPU Nuclear does not intend to alter the surveillance and maintenance programs of the TMI-2 diesel generators.

TABLE I
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
100	04-22-85	0345	3MW	1 HR.	Monthly Surveillance (Procedure 4303-M16A)	
99	03-23-85	0110	3MW	1 HR.	Monthly Surveillance (Procedure 4303-M16A)	
98	02-25-85	0310	3MW	1 HR.	Monthly Surveillance (Procedure 4303-M16A)	
97	02-14-85	0414	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service.	
96	01-30-85	1515	3MW	1 HR.	Post Maintenance surveillance.	
NA	01-29-85	1132	---	---	Started for maintenance.	
95	01-28-85	0355	3MW	1 HR.	Monthly Surveillance (Procedure 4303-M16A)	
94	12-26-84	0159	3MW	1 HR.	Monthly Surveillance (Procedure 4303-M16A)	
93	12-03-84	0320	3MW	1 HR.	Monthly Surveillance (Procedure 4303-M16A)	
92	10-31-84	1415	3MW	1 HR.	Monthly Surveillance (Procedure 4303-M16A)	
91	10-30-84	0333	3MW	1 HR.	Surveillance run due to redundant diesel being out of service.	1B diesel generator annual preventive maintenance.

TABLE 1
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN		COMMENTS	
90	10-29-84	0340	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.		1B diesel generator annual preventive maintenance.	
89	10-29-84	1532	3MW	1 HR.				
88	10-28-84	1534	3MW	.5 HR.				
87	10-28-84	0335	3MW	.5 HR.				
86	10-27-84	1635	3MW	.5 HR.				
85	10-27-84	0436	3MW	.5 HR.				
84	10-26-84	1631	3MW	.5 HR.				
83	10-26-84	0438	3MW	.5 HR.				
82	10-25-84	1640	3MW	.5 HR.				
81	10-25-84	0440	3MW	.5 HR.				
80	10-24-84	1640	3MW	.5 HR.				

TABLE 1
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
79	10-24-84	0400	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service.	
78	10-23-84	1102	3MW	1 HR.	Post maintenance surveillance run for operability.	
NA	10-23-84	1032	---	---	Overspeed trip testing	
NA	10-23-84	1032	---	---	Overspeed trip testing.	
NA	10-20-84	1358	See Comments	See Comments	Annual preventive maintenance break-in run.	1 HR. @ .75MW 2 HR @ 1.86MW 1 HR. @ 1.11MW 3 HR @ 2.25MW 2 HR. @ 1.5 MW 3 HR @ 2.61MW 2 HR @ 3 MW
NA	10-20-84	1140	---	---	Preventive maintenance break-in run due to liner replacement.	
NA	10-20-84	1128	---	---		
NA	10-20-84	1042	---	---		
NA	10-20-84	0955	---	---		
77	10-08-84	0451	3MW	1 HR.	Monthly surveillance (Procedure 4303-MI 6A)	
76	09-10-84	1315	3MW	1 HR.	Monthly surveillance (Procedure 4303-MI 6A)	

TABLE I
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
NA	08-18-84	0500	---	---	Started for troubleshooting purposes.	
74	08-18-84	0435	---	---	Started for monthly surveillance.	Start failure - diesel failed to come up to speed and voltage.
NA	08-18-84	0428	---	---	Started for monthly surveillance	Operator error in timing diesel start - Diesel was shutdown immediately after start.
73	08-06-84	1356	3MW	1 HR.	Post maintenance surveillance run.	
72	08-02-84	1737	3MW	1 HR.	Post maintenance surveillance run.	
71	08-02-84	1415	3MW	2 HR.	Surveillance run due to redundant diesel being out of service.	
70	07-16-84	0425	3MW	1 HR.	Monthly surveillance (Procedure 4303-MI6A)	
69	06-13-84	1555	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service for relay maintenance.	
68	06-13-84	0408	3MW	.5 HR.		
67	06-12-84	1610	3MW	.5 HR.		
66	06-12-84	0416	3MW	1 HR.	Monthly surveillance/operability test (Procedure 4303-MI6A)	

TABLE 1
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
65	06-11-84	1659	3MW	1 HR.	Surveillance run due to redundant diesel being out of service for relay maintenance.	
64	06-11-84	0500	3MW	.5 HR.	↓	
63	06-06-84	1650	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service for maintenance.	
62	06-06-84	0513	3MW	.5 HR.		
61	06-05-84	1758	3MW	.5 HR.		
60	06-05-84	0523	3MW	.5 HR.		
59	06-04-84	1740	3MW	.5 HR.		
58	06-04-84	0522	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service for maintenance.	
57	05-31-84	1410	3MW	1 HR.	Post maintenance surveillance run for operability.	
56	05-22-84	0350	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	
55	05-21-84	1617	3MW	.5 HR.		

TABLE 1
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
54	05-21-84	0444	3MW	.43 HR.	Surveillance run prior to taking redundant diesel out of service	
53	05-18-84	1931	3MW	1 HR.	Post maintenance surveillance/monthly surveillance. (Procedure 4303-MI6A)	
NA	05-18-84	1911	---	---	Started for maintenance to troubleshoot output breaker malfunction.	
NA	05-18-84	1634	---	---	↓	
NA	05-18-84	1415	---	---		
52	05-18-84	1140	---	---		Start failure - Diesel generator output breaker failed to close.
51	05-17-84	1206	3MW	1 HR.	Post maintenance surveillance run.	
50	05-11-84	1412	3MW	1 HR.	Post maintenance surveillance run.	
49	05-01-84	0538	3MW	.5 HR.	Surveillance run prior to taking redundant diesel out of service.	
48	04-23-84	0203	3MW	1 HR.	Monthly surveillance (Procedure 4303-MI6A)	
47	04-18-84	2053	3MW	1 HR.	Post maintenance surveillance run.	

TABLE 1
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
NA	04-18-84	1823	---	---	Started for maintenance.	
NA	04-18-84	1746	---	---		
NA	04-18-84	1700	---	---		
NA	04-18-84	1620	---	---		
46	04-16-84	1648	3MW	1 HR.	Post maintenance surveillance run.	
45	04-13-84	1410	3MW	1 HR.	Post maintenance surveillance run.	
44	04-13-84	0805	3MW	.5 HR.	Heat-up run prior to changing governor oil.	
43	04-09-84	0315	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16A)	
42	03-19-84	1241	3MW	.5 HR.	Surveillance run due to a station service transformer being out of service.	
NA	03-19-84	0734	---	---	Started after shutdown to verify correct frequency setting for emergency standby.	
41	03-19-84	0230	3MW	.5 HR.	Surveillance run due to a station service transformer being out of service.	

TABLE 1
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
39	03-14-84	2033	3MW	.5 HR.	Surveillance run prior to taking a station service transformer out of service.	
38	03-10-84	0415	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service for instrument calibration.	
37	03-08-84	0510	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	
36	03-07-84	2021	3MW	1 HR.	Monthly surveillance - Post maintenance surveillance - (Procedure 4303-M16A)	
35	02-10-84	1255	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16A)	
34	01-30-84	1116	3MW	1 HR.	Post maintenance surveillance run.	
33	01-27-84	1130	3MW	1 HR.	Post maintenance surveillance run.	
32	01-16-84	0100	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16A)	
31	12-23-83	2325	3MW	1 HR.	Post maintenance surveillance run.	
NA	12-22-83	2050	3MW	2 HR.	Run for maintenance purposes.	Troubleshooting governor problem
NA	12-22-83	2016	---	---	Started for maintenance purposes.	↓

TABLE 1
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN		COMMENTS	
NA	12-22-83	1425	3MW	1 HR.	Run for maintenance purposes		Troubleshooting governor problem	
NA	12-22-83	1045	---	---	Started and run for maintenance testing purposes.			
NA	12-21-83	2115	---	---				
NA	12-21-83	1910	3MW	1.5 HR.				
NA	12-21-83	1347	---	---				
NA	12-21-83	1115	3MW	.3 HR.				
30	12-20-83	1330	3MW	1 HR.	Surveillance run to determine if there was a problem with the governor.		Governor was determined not to be functioning properly.	
29	12-19-83	0045	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16A)			
29	12-02-83	1255	3MW	1 HR.	Post maintenance surveillance run.			
27	11-30-83	1710	3MW	1 HR.	Post maintenance surveillance run.			
26	11-23-83	0345	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16A)			

TABLE 1
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN		COMMENTS
25	11-14-83	1410	3MW	1 HR.	Post Maintenance surveillance run.		
24	11-02-83	1726	3MW	1 HR.	Post maintenance surveillance run.		
23	10-27-83	1823	3MW	.5 HR.	Surveillance run due to a station service transformer being out of service.		
22	10-27-83	0530	3MW	.5 HR.			
21	10-26-83	1732	3MW	.5 HR.			
20	10-26-83	0510	3MW	.5 HR.			
19	10-25-83	1804	3MW	.5 HR.			
18	10-24-83	1940	3MW	.5 HR.			
17	10-24-83	0706	3MW	.5 HR.			
16	10-21-83	1245	3MW	.5 HR.			
15	10-21-83	0120	3MW	.5 HR.			

TABLE 1
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
14	10-20-83	1433	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16A)	
13	10-19-83	2124	3MW	.5 HR.	Surveillance run due to a station service transformer being out of service.	
12	10-19-83	1014	3MW	.5 HR.		
11	10-19-83	0045	3MW	1 HR.		
10	10-18-83	1300	3MW	1 HR.		
9	10-18-83	0110	3MW	.5 HR.		
8	10-17-83	1300	3MW	.5 HR.		
7	10-17-83	0225	3MW	.5 HR.		
6	10-13-83	0510	3MW	.5 HR.	Surveillance run prior to taking redundant diesel out of service.	
5	09-27-83	1715	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	
4	09-27-83	0535	3MW	.5 HR.	Surveillance run prior to taking a station service transformer out of service.	

TABLE 1
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1A START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
3	09-24-83	1323	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	
NA	09-24-83	1255	---	---	Started for surveillance run due to redundant diesel being out of service.	Operator error in timing diesel start - diesel was shutdown immediately after start.
2	09-24-83	0050	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	
1	09-23-83	1248	3MW	.5 HR.	↓	

TABLE 2
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1B START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
100	05-06-85	0040	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16B)	
99	04-08-85	1800	3MW	1 HR.		
98	03-11-85	0335	3MW	1 HR.		
97	02-14-85	1332	3MW	1 HR.	Post maintenance surveillance run for operability.	
96	02-11-85	0105	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16A)	
95	01-29-85	0403	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service for maintenance.	
94	01-14-85	0405	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16A)	
93	12-31-85	0848	3MW	1 HR.	Run for operations surveillance	
92	12-17-84	0306	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16A)	
91	12-03-84	1225	3MW	1 HR.	Run for operations surveillance.	
90	11-19-84	0358	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16A)	

TABLE 2
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1B START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
89	11-07-84	1015	3MW	1 HR.	Operations surveillance	
88	11-05-84	1241	3MW	1 HR.	Run for operations surveillance	
87	10-31-84	0400	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service for maintenance.	
86	10-30-84	1328	3MW	1 HR.	Post maintenance surveillance run for operability.	
85	10-23-84	1325	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	1A diesel generator annual preventive maintenance.
84	10-23-84	0333	3MW	.5 HR.		
83	10-22-84	1535	3MW	.5 HR.		
82	10-22-84	0335	3MW	.5 HR.		
81	10-21-84	1535	3MW	1 HR.	Monthly surveillance/surveillance run due to redundant diesel being out of service - (Procedure 4303-MI6B).	
80	10-21-84	0337	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	
79	10-20-84	1538	3MW	1 HR.		

TABLE 2
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1B START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN		COMMENTS	
78	10-20-84	0348	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.		1A diesel generator annual preventive maintenance.	
77	10-19-84	1550	3MW	.5 HR.				
76	10-19-84	0337	3MW	.5 HR.				
75	10-18-84	1537	3MW	1 HR.				
74	10-18-84	0338	3MW	.5 HR.				
73	10-17-84	1539	3MW	.5 HR.				
72	10-17-84	0340	3MW	.5 HR.				
71	10-16-84	1548	3, W	.5 HR.				
70	10-16-84	0348	3MW	.5 HR.				
69	10-15-84	1549	3MW	.5 HR.				
68	10-15-84	0350	3MW	.5 HR.				

TABLE 2
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1B START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN		COMMENTS	
67	10-14-84	1613	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.		1A diesel generator annual preventive maintenance.	
66	10-14-84	0415	3MW	.5 HR.				
65	10-13-84	1640	3MW	.5 HR.				
64	10-13-84	0443	3MW	.5 HR.				
63	10-12-84	1706	3MW	.5 HR.				
62	10-12-84	0508	3MW	.5 HR.				
61	10-11-84	1728	3MW	1 HR.				
NA	10-11-84	1722	---	---	Started for surveillance.		Operator error in timing diesel start - diesel was shutdown and restarted.	
60	10-11-84	0455	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service		1A diesel generator annual preventive maintenance.	
59	10-10-84	1700	3MW	.5 HR.				
58	10-10-84	0508	3MW	.5 HR.				

TABLE 2
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1B START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
57	10-09-84	1724	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service	1A diesel generator annual preventive maintenance.
56	10-09-84	0503	3MW	.5 HR.	↓	↓
NA	10-09-84	0500	---	---	Started for surveillance	Operator error in timing diesel start - diesel was shutdown and restarted.
55	10-08-84	1710	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	
NA	10-08-85	1700	---	---	Started for surveillance	Operator error in timing diesel start - diesel was shutdown and restarted.
54	10-08-84	0420	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service.	
53	09-24-84	0115	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16B)	
52	09-10-84	0105	3MW	1 HR.	Operations surveillance	
51	08-27-84	0415	3MW	1 HR.	Monthly Surveillance (Procedure 4303-M16B)	
50	08-18-84	1705	3MW	1 HR.	Post maintenance surveillance run.	
49	08-18-84	0603	3MW	1 HR.	Surveillance run due to redundant diesel being out of service.	

TABLE 2
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1B START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
48	08-13-84	1706	3MW	1 HR.	Operations surveillance	
47	08-06-84	0452	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service.	
46	08-02-84	1612	3MW	1 HR.	Post maintenance surveillance run to verify operability.	
45	07-30-84	0450	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16B)	
44	07-16-84	1226	3MW	1 HR.	Operations surveillance	
NA	07-16-84	1218	---	---	Started for operations surveillance.	Operator error in timing diesel start - diesel was shutdown and restarted.
43	07-02-84	0230	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16B)	
42	06-18-84	0928	3MW	1 HR.	Operations surveillance.	
41	06-14-84	0100	3MW	1 HR.	Post maintenance surveillance run.	
40	06-06-84	1925	3MW	1 HR.	Monthly surveillance/post maintenance surveillance run - (Procedure 4303-M16B)	
39	05-31-84	0404	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service.	

TABLE 2
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1B START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
38	05-22-84	1435	3MW	1 HR.	Post maintenance surveillance run.	
37	05-18-84	2129	3MW	1 HR.	Post maintenance surveillance run.	
36	05-18-84	1227	3MW	1 HR.	Post maintenance surveillance run.	
35	05-11-84	1245	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	
34	05-01-84	1315	3MW	1 HR.	Monthly surveillance/post maintenance surveillance (Procedure 4303-M16B)	
33	05-01-84	0813	3MW	.5 HR.	Run for maintenance purposes.	Governor oil change.
32	04-18-84	1719	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	
31	04-18-84	0511	3MW	.5 HR.		
30	04-17-84	1707	3MW	.5 HR.		
29	04-17-84	0435	3MW	1 HR.		
28	04-16-84	1738	3MW	.5 HR.		

TABLE 2
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1B START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
27	04-16-84	0425	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service.	
26	04-13-84	0525	3MW	.5 HR.	Surveillance run prior to taking redundant diesel out of service.	
25	04-08-84	0335	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16B)	
24	03-26-84	1145	3MW	1 HR.	Operations surveillance.	
23	03-19-84	1353	3MW	.5 HR.	Surveillance run due to one station service transformer being out of service.	
22	03-19-84	0347	3MW	.5 HR.	Surveillance run prior to taking a station service transformer out of service.	
21	03-16-84	0923	3MW	.5 HR.	Surveillance run due to one station service transformer being out of service.	
20	03-15-84	2135	3MW	.5 HR.	Surveillance run prior to taking one station service transformer out of service.	
19	03-08-84	1110	3MW	1 HR.	Monthly surveillance/post maintenance surveillance run - (Procedure 4303-M16B).	
NA	03-08-84	1055	---	---	No information	Diesel was started and stopped for no apparent reason.
18	03-07-84	1655	---	---	Surveillance run due to redundant diesel being out of service.	Start failure - diesel taken out of service for troubleshooting.

TABLE 2
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1B START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
17	03-07-84	0456	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	
16	03-06-84	1645	3MW	1 HR.	Surveillance run due to redundant diesel being out of service.	
15	03-06-84	0500	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service.	
14	02-27-84	0855	3MW	1 HR.	Operations surveillance.	
13	02-12-84	1205	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16B)	
12	01-30-84	1435	3MW	1 HR.	Surveillance run due to redundant diesel being out of service.	
11	01-30-84	-515	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service.	
10	01-27-84	-344	3MW	1 HR.	Surveillance run prior to taking redundant diesel out of service.	
9	01-16-84	0230	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16B)	
8	01-02-84	0935	3MW	1 HR.	Operations surveillance	
7	12-22-83	1735	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	

TABLE 2
TMI-2 EMERGENCY DIESEL GENERATOR DF-X-1B START DATA

START NO.	DATE	TIME	LOAD (MW)	TIME RUN AT LOAD	REASON FOR RUN	COMMENTS
6	12-22-83	0520	3MW	.5 HR.	Surveillance run due to redundant diesel being out of service.	
5	12-21-83	1725	3MW	.5 HR.		
4	12-21-83	0521	3MW	.5 HR.		
3	12-20-83	1830	3MW	.5 HR.		
2	12-18-83	1935	3MW	1 HR.	Monthly surveillance (Procedure 4303-M16B)	
1	12-05-83	1049	3MW	1 HR.	Operations surveillance.	