



# THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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Al Kaplan

VICE PRESIDENT  
NUCLEAR GROUP

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PERRY NUCLEAR POWER PLANT

February 28, 1990  
PY-CEI/NRR-1137 L

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

Perry Nuclear Power Plant  
Docket No. 50-440  
Annual ECCS Outage Report

Dear Sir:

Attached is the 1989 Annual ECCS Outage Report for Perry Unit 1. This report is submitted in accordance with NUREG-0887, Section 6.3.3 and our current USAR Appendix 1A - TMI Action Plan Item No. II.K.3.17.

In the future, this formal compilation report will not be submitted. Instead, The Cleveland Electric Illuminating Company (CEI) will utilize our ongoing involvement with the INPO Nuclear Plant Reliability Data System (NPRDS) and the 10CFR50.73 reporting requirements in order to identify significant ECCS component failures and reliability data for the ECCS systems. This approach is consistent with the current actions being taken throughout the industry to report such information, and a review of the publicly available record on this item has shown that this approach has been found acceptable by the NRC at other facilities.

The decision to revise our previous commitment on this subject is based on two reviews; one, a review of the regulatory basis for the reporting of ECCS outages and two, a review of the methods being utilized by other utilities to report such information in response to this TMI item. This included a review of NUREG-0737 item II.K.3.17 entitled "Report on Outages of Emergency Core Cooling System's - Licensee Report and Proposed Technical Specification Changes," and of NUREG-0626 Appendix F. The intent of the NRC staff at the time of NUREG-0737 issuance was to quickly gather historical reliability data on ECCS system outages to be used to verify that Technical Specifications did not need to contain cumulative outage requirements. Since PNPP did not have any historical data to contribute to the data base due to its construction status at the time, a commitment was made in 1982 that once the plant became operational an annual report would be submitted.

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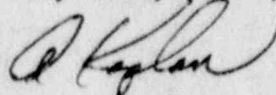
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The time when this type of detailed information on ECCS outages was needed in order to evaluate possible Technical Specification changes is long past, and it is more appropriate to allow reporting vehicles established and/or improved since the 1981 time frame to serve their purpose. The NPRDS and 10CFR50.73 reporting channels provide an ongoing method for reporting ECCS component failures and reliability data. Therefore, The Cleveland Electric Illuminating Company hereby revises the response to the TMI Action Plan item II.K.3.17 as detailed in Enclosure 1 to this letter. CEI will update the PNPP USAR Appendix 1A to reflect this revised commitment.

Please feel free to call if you have any questions on this issue.

Very truly yours,



Al Kaplan  
Vice President  
Nuclear Group

AK:njc

Enclosure

cc: T. Colburn  
P. Hiland  
L. Hiller (Office of Management & Program Analysis)  
USNRC, Region III

Item No. II.K.3.17

Report on Outages of Emergency Core-Cooling  
Systems Licensee Report and Proposed Technical Specification Changes

REQUIREMENT

Several components of the emergency core cooling (ECC) systems are permitted by Technical Specifications to have substantial outage times (e.g., 72 hours for one diesel-generator; 14 days for the HPCI system). In addition, there are no cumulative outage time limitations for ECC systems. Licensees should submit a report detailing outage dates and lengths of outages for all ECC systems for the last 5 years of operation. The report should also include the causes for the outages (i.e., controller failures, spurious isolation).

RESPONSE

~~The Cleveland Electric Illuminating Company commits to reporting a summary of emergency core cooling system outages annually.~~

In 1981, PNPP was in the construction phase and therefore did not have five years of previous ECCS outage data to provide in order to meet this reporting request. Although the intent of this item was for the NRC staff to quickly develop a historical data base from the five years previous to 1981 in order for them to evaluate whether a need existed for cumulative outage requirements in the Technical Specifications, CEI responded to this item with a commitment to provide data in the future when it became available.

Therefore, ECCS outage reports were submitted for the years 1986 through 1989. However, since the original NRC evaluation of the data base had already been completed, these annual reports were discontinued.

ECCS component failure data and system reliability data are reported to INPO's Nuclear Plant Reliability Data System (NPRDS) on an ongoing basis. Also, significant problems with Emergency Core Cooling Systems are reported to the NRC in accordance with 10CFR50.73.

PERRY UNIT 1 1989 ECCS OUTAGE REPORT

The 1989 Annual Emergency Core Cooling System Outage Report is submitted in accordance with USAR Appendix 1A (TMI Action Plan Item Number II.K.3.17) and NUREG 0887 section 6.3.3. The report covers the period from January 1, 1989 to December 31, 1989. This information was compiled from a review of Perry's Active Limiting Conditions for Operations (Active LCO) log for 1989 and the list of Surveillance Tests that could cause the system to be inoperable during the test. The following definition of "system outage" was used:

"The inability of an Emergency Core Cooling System to perform its intended function during a time when the system is required to be operable to satisfy the Emergency Core Cooling System Technical Specifications."

Entries marked with a \* indicate preplanned maintenance or scheduled Technical Specification surveillance tests. Low Pressure Coolant Injection (LPCI) "outages" in support of Shutdown Cooling operations were not included, as plant design requires these outages.

Low Pressure Coolant Injection "A" E12A

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
1/10/89 0248	1/11/89 1705	1 DAY 14 HRS. 17 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform preplanned preventive maintenance
1/14/89 0340	1/14/89 0454	1 HR. 14 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic
1/17/89 0759	1/17/89 1028	2 HRS. 29 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
2/7/89 1710	2/7/89 2235	5 HRS. 25 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform preplanned preventive maintenance.
2/11/89 0105	2/11/89 0115	10 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.
2/11/89 0900	2/11/89 1110	2 HRS. 10 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic
2/17/89 0151	2/17/89 0218	27 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
8/12/89 0027	8/12/89 0105	38 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.
8/12/89 2100	8/12/89 2244	1 HR. 42 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic
8/19/89 0030	8/19/89 0135	1 HR. 5 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
8/22/89 0410	8/24/89 0500	2 DAYS 0 HRS. 50 MIN.	Operational Condition 1 Applicable Tech. Spec. 3.6.3.2, 3.6.3.3 Troubleshoot inoperable valve.
9/11/89 0826	9/11/89 0850	24 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.
9/12/89 0213	9/12/89 0435	2 HRS. 22 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic
9/17/89 0039	9/17/89 0226	1 HR. 47 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
9/25/89 1855	9/26/89 0430	9 HRS. 35 MIN.	Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform maintenance on the ESW Cooling system.
10/10/89 0112	10/12/89 2210	2 DAYS 20 HRS. 58 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform preplanned preventive maintenance.
10/21/89 0435	10/21/89 0810	3 HRS. 35 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
10/21/89 1920	10/21/89 2307	3 HRS. 47 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.6.3.2, 3.6.3.3 Perform preplanned preventive maintenance.
10/24/89 0200	10/24/89 0640	4 HRS. 40 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.6.3.2, 3.6.3.3 Perform a Fill and Vent due to Valve leakage.
11/11/89 0035	11/11/89 0055	20 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.
11/17/89 2255	11/17/89 2325	30 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
11/21/89 2143	11/21/89 2223	40 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
12/11/89 1400	12/11/89 1418	18 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.
12/11/89 1827	12/11/89 2010	1 HR. 43 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic
12/19/89 1300	12/19/89 1319	19 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
12/19/89 1045	12/19/89 1543	4 HRS. 58 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform a tagout to permit I&C Surveillance Testing.



Low Pressure Coolant Injection "B" E12B

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
1/4/89 923	1/4/89 1150	2 HRS. 27 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic
1/18/89 0150	1/18/89 2005	18 HRS. 15 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Penetration Leak Rate Test.
1/19/89 1917	1/19/89 2138	2 HRS. 21 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.
1/26/89 0411	1/26/89 0535	1 HR. 24 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
2/4/89 1317	2/4/89 1411	54 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic
2/18/89 1057	2/18/89 1327	2 HRS. 30 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
8/5/89 0028	8/5/89 0327	2 HRS. 59 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
8/7/89 2116	8/7/89 2210	54 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic
8/15/89 0515	8/18/89 0035	2 DAYS 19 HRS. 20 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform preplanned preventive maintenance.
8/18/89 2118	8/18/89 2217	59 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.
8/26/89 2150	8/26/89 2245	55 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
9/4/89 1110	9/4/89 1241	1 HR. 31 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic
9/13/89 1355	9/14/89 1433	1 DAY 0 HR. 38 MIN.	Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform corrective maintenance on the Injection Pump

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
9/18/89 0128	9/18/89 0210	42 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.
9/27/89 1945	9/27/89 2018	33 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
10/4/89 1842	10/4/89 1942	1 HR.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic
10/18/89 1048	10/18/89 1128	40 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.
* 10/30/89 1036	10/30/89 1340	3 HRS 4 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
11/5/89 0011	11/5/89 0130	1 HR. 19 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
11/14/89 0100	11/16/89 1355	2 DAYS 12 HRS. 55 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform preplanned preventive maintenance and surveillance.
11/18/89 0120	11/18/89 0203	43 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.
11/29/89 1745	11/29/89 1947	2 HRS. 2 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
12/4/89 1841	12/4/89 2015	1 HR. 34 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Pump Starting Logic
12/18/89 0925	12/18/89 1011	46 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Injection Valve pressure permissive.
12/28/89 1342	12/28/89 1405	23 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1, 3.6.3.2, 3.6.3.3 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.

Low Pressure Coolant Injection "C" E12C

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
1/18/89 0036	1/18/89 0130	54 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
1/20/89 0820	1/20/89 0837	17 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
2/18/89 1315	2/18/89 1520	2 HRS. 5 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
2/23/89 0124	2/23/89 0156	32 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
8/15/89 0515	8/18/89 0020	2 DAYS 19 HRS. 5 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Preplanned Maintenance.
8/18/89 2205	8/19/89 0130	3 HRS. 25 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
8/21/89 0150	8/21/89 0237	47 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
9/18/89 0930	9/18/89 1447	5 HRS. 17 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
9/20/89 0126	9/20/89 0451	3 HRS. 25 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
10/19/89 1724	10/19/89 1947	2 HRS. 23 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
10/20/89 0024	10/20/89 0044	20 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
11/18/89 1408	11/18/89 1435	27 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
11/20/89 1710	11/20/89 2100	3 HRS. 50 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
12/18/89 1050	12/18/89 2120	10 HRS. 30 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
12/20/89 1126	12/20/89 1300	1 HR. 34 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.

Low Pressure Core Spray E21

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
1/10/89 0248	1/11/89 1316	1 DAY 12 HRS. 28 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform preplanned maintenance
2/10/89 1405	2/10/89 1537	1 HR. 32 MIN.	Operational Condition 1 Applicable Tech. Spec. 3.5.1 Fill and Vent following testing
1/23/89 0433	1/23/89 0542	1 HR. 9 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
1/23/89 1838	1/23/89 2250	4 HRS. 12 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
7/24/89 1102	7/24/89 1227	1 HR. 25 MIN.	* Operational Condition 2 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
7/30/89 2034	7/30/89 2200	1 HR. 26 MIN.	* Operational Condition 2 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
8/23/89 1114	8/23/89 1208	54 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
8/24/89 1122	8/24/89 1154	32 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
9/23/89 0150	9/23/89 0215	25 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
9/23/89 0701	9/23/89 1005	3 HRS. 4 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
10/9/89 2107	10/13/89 0830	3 DAYS 11 HRS. 23 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform preplanned maintenance
10/17/89 0800	10/17/89 1017	2 HRS. 17 MIN.	Operational Condition 1 Applicable Tech. Spec. 3.5.1 Fill and Vent following testing
10/30/89 0839	10/30/89 0906	27 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
10/30/89 2121	10/30/89 2225	1 HR. 4 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
11/23/89 0128	11/23/89 0147	19 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.
11/23/89 0342	11/23/89 0437	55 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.



ENTRY TIME	CLEARANCE TIME	DURATION	REASON
12/24/89 0107	12/24/89 0453	3 HRS. 46 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Minimum Flow Valve pressure permissive.
12/25/89 0310	12/25/89 0350	40 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Injection Valve pressure permissive.

High Pressure Core Spray E22

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
1/25/89 0020	1/25/89 0130	1 HR. 10 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Pump Discharge Pressure Instrument.
1/27/89 2037	1/27/89 2108	31 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the HPCS System Flow Rate Instrument.
7/31/89 2050	7/31/89 2203	1 HR. 13 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Pump Discharge Pressure Instrument.
8/2/89 2312	8/2/89 2341	29 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the HPCS System Flow Rate Instrument.
8/22/89 0959	8/23/89 2223	1 DAY 12 HRS. 24 MIN.	Operational Condition 1 Applicable Tech. Spec. 3.5.1 Troubleshooting of the Test Return Valve depressurized the system.
8/23/89 2122	8/24/89 0124	4 HRS. 2 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the HPCS System Flow Rate Transmitter.
8/25/89 0700	8/25/89 0732	32 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Pump Discharge Pressure Instrument.
8/28/89 0910	8/28/89 0942	32 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the HPCS System Flow Rate Instrument.

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
9/14/89 1550	9/14/89 2215	6 HRS. 25 MIN.	Operational Condition 1 Applicable Tech. Spec. 3.5.1 Repair of the Leak Detection transmitter.
9/25/89 1339	9/25/89 2030	6 HRS. 51 MIN.	Operational Condition 1 Applicable Tech. Spec. 3.5.1 Repair of the Drywell "C" Pressure instrument.
9/26/89 2109	9/26/89 2330	2 HRS. 21 MIN.	Operational Condition 1 Applicable Tech. Spec. 3.5.1 Retest of the Drywell "C" Pressure Transmitter.
9/27/89 1408	9/27/89 1437	29 MIN.	* Operational Condition 1 Applicable Tech. Spec 3.5.1 Perform Surveillance Test for the Pump Discharge Pressure Instrument.
9/27/89 1855	9/27/89 2014	1 HR. 19 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the HPCS System Flow Rate Instrument.
10/22/89 2345	10/28/89 2130	5 DAYS 21 HRS. 45 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Preplanned Maintenance

ENTRY TIME	CLEARANCE TIME	DURATION	REASON
10/27/89 0009	10/27/89 0239	2 HRS. 30 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the HPCS System Flow Rate Instrument.
10/29/89 0138	10/29/89 0153	15 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Pump Discharge Pressure Instrument.
11/25/89 0236	11/25/89 0300	24 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Pump Discharge Pressure Instrument.
11/28/89 1830	11/28/89 2311	4 HRS. 41 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the HPCS System Flow Rate Instrument.
12/22/89 1027	12/23/89 0435	18 HRS. 8 MIN.	Operational Condition 1 Applicable Tech. Spec. 3.5.1 Inoperable due to Low Battery Temperature.
12/27/89 0935	12/27/89 1111	1 HR. 36 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the Pump Discharge Pressure Instrument.
12/27/89 1020	12/27/89 1128	1 HR. 8 MIN.	* Operational Condition 1 Applicable Tech. Spec. 3.5.1 Perform Surveillance Test for the HPCS System Flow Rate Instrument.