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TELEX 136-482  
Writer's Direct Dial Number:

August 18, 1983  
5211-83-241

Mr. Richard W. Starostecki, Director  
Division of Resident & Project Inspection  
U.S. Nuclear Regulatory Commission, Region I  
631 Park Avenue  
King of Prussia, Pa. 19406

Dear Mr. Starostecki:

As part of his recent inspection of the results of previous leak rate tests at TMI-1, Dr. Chung of your staff identified 33 apparent irregularities and 25 missing calculations and provided this information to Henry Shipman on August 9, 1983. We have conducted a review of our files and of supporting data and believe that we have discovered information that eliminates many of the questions raised by Dr. Chung.

The following table compares the information available to Dr. Chung with the additional information:

26 Missing Calculations

- 11 were discovered misfiled with other test data
- 6 were logged at different times than the test was run.
- 1 has no record in the log that corresponds to the NRC date/time
- 8 calculation sheets are still missing

12 Apparent Hydrogen Additions During Test Period

- 8 incorrect chart time references
- 1 addition made prior to test period
- 3 indications of additions made during test period

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21 Apparent Water Additions During Test Period

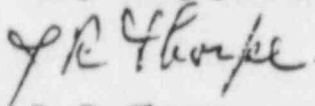
- 11 incorrect chart time reference
- 7 normal level variations which generally correspond to pressurizer level changes
- 1 addition was made and recorded on calculation sheet, in accordance with procedures
- 2 additions were made during test and not accounted for in calculation

Calculations were performed taking into account the three cases of hydrogen addition during the test period and the two water additions. In all cases, the calculated leak rate was significantly below the allowable limit.

Enclosures 1, 2 and 3 to this letter specify the disposition of each item on Dr. Chung's list by date and time.

We had hoped to meet with you to discuss this additional data. However, at your request we are submitting the data in this letter to assist you in expediting the preparation of the report of this inspection. If further discussion is necessary to clarify this additional data, we would be glad to meet with you at your convenience. If such a meeting is appropriate, please contact John R. Thorpe, Director-Licensing and Regulatory Affairs, at 201-299-2272.

Very truly yours,



J. R. Thorpe  
Director  
Licensing & Regulatory Affairs

## ENCLOSURE 1

DISPOSITION OF LEAK RATE TEST 1303-1.1 MISSING DATA SHEETS

<u>DATE</u>	<u>CRO LOG TIME</u>	<u>LOGGED LEAK RATE</u>	<u>DISPOSITION</u>
4-29-78	1400	0.0991	Data sheet found - correspondence to 0820 calculation.
5-7-78	1621	-0.2631	Data sheet found - misfiled.
5-21-78	1025	-0.846	Missing
5-29-78	1945	0.4877	Data sheet found - misfiled
6-3-78	0845	-0.0704	Data sheet found - misfiled.
6-5-78	2204	+0.1	Data sheet found - misfiled.
6-6-78	0530	+0.5812	Data sheet found -Corresponds to 6/5/78 2354 calculation.
7-4-78	2245	+0.9967	Missing
7-10-78	0338	-0.0771	Missing
8-3-78	0930	+0.11	Data sheet found - misfiled.
8-4-78	1830	+0.4467	Data sheet found - misfiled.
8-19-78	1450	-0.238	Missing
8-26-78	1630	-0.1352	Data sheet found - misfiled.
9-3-78	1138	+0.9667	Missing
9-3-78	1247	+0.2961	Data sheet found - misfiled.
9-26-78	0843	-0.4074	Data sheet found - misfiled.
11-5-78	1950	+0.3395	Data sheet found - corresponds to 1302 calculation.

DISPOSITION OF LEAK RATE TEST 1303-1.1 MISSING DATA SHEETS

<u>DATE</u>	<u>CRO LOG TIME</u>	<u>LOGGED LEAK RATE</u>	<u>DISPOSITION</u>
11-10-78	1125	+0.5374	Data sheet found -corresponds to 1033 calculation.
12-11-78	0432	-0.8113	Missing
1-7-79	0600	-----	No log entry found at this time - Data for 0415, 1200, and 1830 calculations available.
1-18-79	0530	-0.69	Data sheet found -corresponds to 0401 calculation.
1-18-79	1310	3AF	Unable to verify but probably corresponds to 0959 calculation (-.0499 gpm).
1-26-79	0032	-0.4909	Missing
1-26-79	1106	+0.2788	Data sheet found - misfiled.
1-29-79	0310	-0.3124	Missing
2-6-79	0856	-0.1827	Data sheet found - misfiled.

## ENCLOSURE 2

DISPOSITION OF  
WATER ADDITIONS DURING LEAK RATE TESTS

DATE	TIME		DISPOSITION
	Start	End	
1. 5/12/78	0047	0147	Variable MUF Level-Some correspondence to pressurizer level. Chart signature not typical of addition.
2. 5/12/78	1643	1743	Addition logged at 1745 may have affected test. Not accounted for in calculation.
3. 5/15/78	1736	1836	Chart time reference in error.
4. 6/4/78	0756	0856	Chart time reference in error.
5. 6/11/78	0804	0904	Variable MUT level- Some correspondence to pressurizer level. Chart signature not typical of addition.
6. 6/21/78	0341	0441	Chart time reference in error.
7. 7/6/78	1648	1748	Chart time reference in error.
8. 8/22/78	0838	0938	Chart time reference in error.
9. 8/29/78	1547	1647	Chart time reference in error.
10. 8/31/78	0801	0901	Chart time reference in error.
11. 9/1/78	1825	1925	Variable MUF level - Some correspondence to pressurizer level. Chart signature not typical of addition.
12. 9/18/78	2036	2136	Chart time reference in error.
13. 9/22/78	2100	2200	Chart time reference in error.
14. 10/17/78	1201	1301	Variable MUT level- Some correspondence to pressurizer level. Chart signature not typical of addition.
15. 10/29/78	1544	1644	Chart time reference in error.

## ENCLOSURE 2

-2-

DISPOSITION OF  
WATER ADDITIONS DURING LEAK RATE TESTS

DATE	TIME		DISPOSITION
	Start	End	
16.	11/7/78	1608 1708	Variable MUF Level - Some correspondence to pressurizer level. Chart signature not typical of addition.
17.	11/21/78	0206 0306	Variable MUF Level - Some correspondence to pressurizer level. Chart signature not typical of addition.
18.	11/28/78	1653 1853	Variable MUF Level - Some correspondence to pressurizer level. Chart signature not typical of addition.
* 19.	12/13/78	1842 1942	Addition made during test and logged in CRO log but not in calculation.
20.	1/6/79	0756 1156	Addition accounted for in calculation.
21.	1/19/79	0841 0941	Chart time reference in error.

NOTE: Chart time error was determined by comparing levels used in calculation to those on chart during period of test. An error was noted when it was clear the level change could not have taken place during test period.

## ENCLOSURE 3

DISPOSITION OF  
HYDROGEN ADDITIONS DURING LEAK RATE TESTS

DATE	TIME		DISPOSITION
	Start	End	
1. 5/9/78	0738	0838	Chart time reference error.
2. 8/8/78	0735	0835	Addition may have been made during test period.
3. 9/8/78	1529	1729	Chart time reference error.
4. 9/17/78	0503	0608	Level increase occurred prior to test.
5. 9/18/78	2355	0055	Chart time reference error.
6. 9/19/78	2348	0048	Chart time reference error.
7. 10/20/78	1646	1746	Addition made during test period.
8. 11/12/73	0816	0916	Addition made during test period.
9. 12/9/78	2353	0053	Chart time reference error.
10. 12/18/78	0830	0930	Chart time reference error.
11. 2/2/79	1500	1700	Chart time reference error.
12. 2/3/79	1616	1716	Chart time reference error.

NOTE: Chart time error was determined by comparing levels used in calculation to those on chart during period of test. An error was noted when it was clear the level change could not have taken place during test period.