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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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James L. Kelley, Chairman
Presiding Board
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Washington, DC 20555

Jerry R. Kline
Presiding Board
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Glenn O. Bright
Presiding Board
U.S. Nuclear Regulatory Commission
Washington, DC 20555

In the Matter of
INQUIRY INTO THREE MILE ISLAND UNIT 2
LEAK RATE DATA FALSIFICATION
Docket No. LRP

Dear Judges:

Enclosed is a copy of a matrix, prepared by the Staff, which correlates documents referenced in the NRR Report to the location of those documents. Also enclosed is a copy of an interview of M.V. Cooper conducted by IE and OIA on April 10, 1980. These documents are being provided to the Board and the parties in accordance with your Memorandum and Order of June 24, 1986.

Sincerely,

Mary E. Wagner
Mary E. Wagner
Counsel for NRC Staff

Enclosures: As stated

cc w/encl: Leak Rate Proceeding Service List
Edwin H. Stier, Esq.

DS07

Attachment 2 to Enclosure 1

Report of Interview of M. V. Cooper
Conducted by IE & OIA on April 10, 1980

REPORT OF INTERVIEW OF MARTY VINCENT COOPER
AS RECORDED BY JOHN R. SINCLAIR, INVESTIGATOR
U.S. NUCLEAR REGULATORY COMMISSION

On April 10, 1980, Marty Vincent Cooper, Control Room Operator, Unit 2, Three Mile Island nuclear power facility, was interviewed at the Three Mile Island site by NRC personnel regarding his knowledge of "leak rate tests" as they related to the reactor coolant system surveillance test. The interview was conducted by Tim Martin, Office of Inspection and Enforcement, Region I, NRC; James J. Cummings and John Sinclair, Office of Inspector and Auditor, Headquarters, NRC. Also present during the interview was Mr. John Wilson, Corporate Attorney, General Public Utilities, attending with the approval of Mr. Cooper. Cooper stated that he had personal knowledge that leak rate tests which were considered unacceptable or bad (i.e. indicated a leak rate greater than technical specifications) were routinely thrown away. Cooper explained that the discarding of bad test data was a "common practice" and does not recall ever receiving instructions from his immediate supervisors, or others in management, to retain these tests. Cooper also explained that he did not know how the practice started. According to Cooper, there were occasions when he informed his shift foreman, Chuck Adams, or his shift supervisor, Brian Mehler, of unacceptable leak rate test results.

During the same period, Cooper stated that some of the leak rate tests were "not off by much" but the practice would be to do it again (rerun the test) until they got a "good" leak rate. Cooper continued by explaining that obtaining "acceptable" leak rates was "not consistent" and sometimes the control room operators (CRO) would run whole shifts without getting an acceptable leak rate and then, on another shift they might get an acceptable leak rate on their first test.

When queried as to whether unacceptable leak rates had ever been provided to the shift foreman, Cooper replied "yes" and stated that he (Adams) threw it away. Cooper added that he also told the shift supervisor on one occasion that they had run a test and obtained an unacceptable leak rate at which time the supervisor (Mehler) had told him to throw it away. Cooper also stated that the "plant parameters did not change enough" to lead him to believe that the plant had a leakage problem.

Cooper explained that he did not perceive any pressure to get a "good leak rate" and stated that there was nothing that they could do to make him get a good leak rate.

Cooper was provided a copy of test documents dated November 9, 1978, and questioned about an addition of hydrogen during a leak rate test. Cooper stated that he was aware that adding hydrogen had an "inconsistent effect on the leak rate" and in some instances seemed to effect the leak rate and provide acceptable data. When questioned as to why hydrogen would be added during a test if they believed it might effect the calculations, Cooper responded because "we needed hydrogen". Cooper stated that he did not know of anyone adding hydrogen to effect the leak rate and denied adding hydrogen to intentionally effect the leak rate.

The reason that hydrogen was added to the system, according to Cooper, was that the Unit Superintendent, Joe Logan, issued instructions that the hydrogen must be "maintained within a band". Cooper was provided copies of seven leak rate test records which indicated that hydrogen had been added during the leak rate test. Cooper explained that he had already stated that they were aware that "it did have an effect" on the leak rate, but that was not the purpose of the hydrogen additions. When questioned as to why other shifts did not appear to require the addition of hydrogen during tests, Cooper responded that he did not know why the other shifts did not have to do those things. This was stated to reiterate that hydrogen had to be continually added to remain "within the bands". Cooper repeated that they did not make additions with intent to effect the leak rate.

Cooper later explained that there had been operator discussions, about unacceptable leak rates and the effects of hydrogen additions on leak rate calculations, which included Chuck Adams.

Concerning knowledge of the addition of water to the make up tank, without entering the data in the computer, Cooper advised that he had no knowledge of that ever being done. Cooper concluded by stating that his shift never "got close" to the 72 hour limit when running the leak rate test.

T. T. Martin 4/29/80

T. T. Martin

J. J. Cummings 4/23/80

J. J. Cummings

J. R. Sinclair 23 APR 80

J. R. Sinclair

NAME: Booher

NRR REPORT ENCLOSURE 3

Att/Encl	Description	Where Found or Why Not
1/1	Investigative Interview of Raymond R. Booher Conducted on November 15, 1984	OI Exhibit #3
2/1	Report of Interview of R.R. Booher Conducted by IE & OIA on April 10, 1980	OI Exhibit #8
3/1	Report of Interview of J.J. Blessing Conducted by IE & OIA on April 10, 1980	OI Exhibit #5
4/1	Sworn Statement of H.W. Hartman of July 26, 1983	OI Exhibit #4
5/1	Summary of Leak Rate Tests at TMI-2 Involving R.R. Booher and Surveillance Test Records for the Nine Questionable Tests	
	- Summary sheet	Superceded by NRR Analysis, 7/30/85 (OI Exhibit #7)
	- LRT sheets	Test Evaluation Worksheets
	- CRO Log Extracts	Test Evaluation Worksheets
	- MUT Strip Chart	Test Evaluation Worksheets
6/1	Excerpt of Investigative Interview With M.V. Cooper Conducted by OI/NRR on September 28, 1984	OI Exhibit #10
1/2	Investigative Interview of R.R. Booher Conducted by OI/NRR on November 15, 1984	Not within scope (concerns past involvement in breach of security at TMI-2)
1/3	Senior Operator Upgrade Exam Report - R.R. Booher November 16, 1984	Not within scope
2/3	Operator Interview Guide	Not within scope

NAME: Congdon

NRR REPORT ENCLOSURE 4

Att/Encl	Description	Where Found or Why Not
1/1	April 10, 1980* Interview of Joseph R. Congdon by the Hartman Allegation Investigation Team	OI Exhibit #11
2/1	Transcript of Interview with Congdon	OI Exhibit #13
3/1	NRR Evaluation of TMI-2 Leak Rate Tests Performed 09/30/78 to 03/28/79	Superceded by NRR Analysis, 7/30/85 (OI Exhibit #7)
0/2	Current Performance	Not within scope
1/2	SRO Upgrade Examination Report	Not within scope
2/2	Operator Interview Guide	Not within scope

* The date of the April 10, 1980 Congdon interview is stated incorrectly in the NRR Report as April 30, 1979.

NAME: Cooper

NRR REPORT ENCLOSURE 5

Att/Encl	Description	Where Found or Why Not
1/1	Investigative Interview of Martin V. Cooper Conducted on September 28, 1984	OI Exhibit #10
2/1	Report of Interview of M.V. Cooper Conducted by IE & OIA on April 10, 1980	To be provided.
3/1	Report of Interview of J.R. Congdon Conducted by IE & OIA on April 10, 1980	OI Exhibit #11
4/1	Summary of Leak Rate Tests at TMI-2 Involving M.V. Cooper and Surveillance Tests Records for the 15 Questionable Tests	
	- Summary sheet	Superceded by NRR Analysis, 7/30/85 (OI Exhibit #7)
	- LRT sheets	Test Evaluation Worksheets
	- CRO Log Extracts	Test Evaluation Worksheets
	- MUT Strip Chart	Test Evaluation Worksheets
0/2	Current Performance	Not within scope
1/2	SRO Upgrade Examination	Not within scope
2/2	Operator Interview Guide	Not within scope
	10/15/85 Supplement	NRR Report
Supp./1	Technical Evaluation of LRT by Cooper	NRR Report
Supp./2	Comparison of Test Evaluation Differences for M.V. Cooper	NRR Report
Supp./3	NRR Analysis 7/30/85	OI Exhibit #7

NAME: Faust

NRR REPORT ENCLOSURE 6

Att/Encl	Description	Where Found or Why Not
1/1	Transcript of Interview with Faust, 1/30/85	OI Exhibit #24
2/1	NRR Evaluation of TMI-2 Leak Rate Tests Performed 09/30/78 to 03/28/79	Superceded by NRR Analysis 7/30/85 (OI Exhibit #7)
0/2	Current Performance	Not within scope
1/2	SRO Upgrade Examination Report	Not within scope
2/2	Operator Interview Guide	Not within scope

NAME: Frederick

NRR REPORT ENCLOSURE 7

Att/Encl	Description	Where Found or Why Not
1/1	Transcript of Interview of Frederick, 1/30/85	OI Exhibit #26
2/1	NRR Evaluation of TMI-2 Leak Rate Tests Performed 09/30/78 to 03/28/79	Superceded by NRR Analysis, 7/30/85 (OI Exhibit #7)
0/2	Current Performance	Not within scope
1/2	SFO Upgrade Examination Report	Not within scope
2/2	Operator Interview Guide	Not within scope

NAME: Guthrie

NRR REPORT ENCLOSURE 8

Att/Encl	Description	Where Found or Why Not
1/1	Investigative Interview of Carl L. Guthrie, 6/4/85*	OI Exhibit #30
2/1	NRR Evaluation of TMI-2 Reactor Coolant System Leak Rate Tests Performed 09/30/78 to 03/28/79	Superceded by NRR Analysis, 7/30/85 (OI Exhibit #7)
0/2	Current Performance	Not within scope
1/2	Memo from Travers and Wiens to Russell, 6/18/85, Subject: Supervisor's Interviews	Not within scope
2/2	SRO Upgrade Examination Report	Not within scope
3/2	Operator Interview Guide	Not within scope

* The June 4, 1985 Guthrie interview date is incorrectly reported in the List of Exhibits to the OI Report as January 4, 1985.

NAME: Illjes

NRR REPORT ENCLOSURE 9

Att/Encl	Description	Where Found or Why Not
1/1	Investigative Interview of Illjes, 1/29/85	OI Exhibit #20
2/1	NRR Evaluation of TMI-2 Reactor Coolant System Leak Rate Tests Performed 09/30/78 to 03/28/79	Superceded by NRR Analysis, 7/30/85 (OI Exhibit #7)
3/1	Excerpts of Deposition of J. Chwastik, 4/24/84 (by Winter (Stier))	OI Exhibit #22
0/2	Current Performance	Not within scope
1/2	SRO Upgrade Examination Report	Not within scope
2/2	Operator Interview Guide	Not within scope

NAME: McGovern

NRR REPORT ENCLOSURE 10

Att/Encl	Description	Where Found or Why Not
1/1	Investigative Interview of Hugh A. McGovern, 6/4/85	OI Exhibit #27
2/1	NRR Evaluation of TMI-2 Reactor Coolant System Leak Rate Tests Performed 09/30/78 to 03/28/79	Superceded by NRR Analysis, 7/30/85 (OI Exhibit #7)
0/2	Current Performance	Not within scope
1/2	Memo from Travers and Wiens to Russell, 6/18/85, Subject: Supervisor's Interviews	Not within scope
2/2	SRO Upgrade Examination Report	Not within scope
3/2	Operator Interview Guide	Not within scope

NAME: Miller

NRR REPORT ENCLOSURE 11

Att/Encl	Description	Where Found or Why Not
1/1	Investigative Interview of Adam W. Miller, 6/5/85	OI Exhibit #19
2/1	NRR Evaluation of TMI-2 Reactor Coolant System Leak Rate Tests Performed 09/30/78 to 03/28/79	Superceded by NRR Analysis, 7/30/85 (OI Exhibit #7)
0/2	Current Performance	Not within scope
1/2	Memo from Travers and Wiens to Russell, 6/18/85, Subject: Supervisor's Interviews	Not within scope
2/2	SRO Upgrade Examination Report	Not within scope
3/2	Operator Interview Guide	Not within scope

NAME: Olson

NRR REPORT ENCLOSURE 12

Att/Encl	Description	Where Found or Why Not
1/1	Investigative Interview of Dennis I. Olson Conducted on November 15, 1984	OI Exhibit #14
2/1	Report of Interview of Mark S. Coleman Conducted by IE & OIA on April 10, 1980	Included as part of Encl. 14 to NRR Report
3/1	Summary of Leak Rate Tests at TMI-2 Involving D.I. Olson and Surveillance Test Records for the 14 Questionable Tests	
	- Summary sheet	Superceded by NRR Analysis, 7/30/85 (OI Exhibit #7)
	- LRT sheets	Test Evaluation Worksheets
	- CRO Log Extracts	Test Evaluation Worksheets
	- MUT Strip Charts	Test Evaluation Worksheets
0/2	Current Performance	Not within scope
1/2	SRO Upgrade Examination Report	Not within scope
2/2	Operator Interview Guide	Not within scope

NAME: Blessing

NRR REPORT ENCLOSURE 13

Att/Encl	Description	Where Found or Why Not
0/1	Report of Interview by IE/OIA with J.J. Blessing on April 10, 1980	OI Exhibit #5 (also included in NRR Report)
0/2	Summary of TMI-2 Leak Rate Surveillance Data Involving Mr. Blessing and Mr. Booher Between 09/30/78 - 03/28/79	Included in NRR Report
0/3	Sworn Statement of J.J. Blessing Taken By OI on December 14, 1984	Not within scope (breach of security incident)

NAME: Coleman

NRR REPORT ENCLOSURE 14

Att/Encl	Description	Where Found or Why Not
0/1	Report of Interview with Mark S. Coleman by IE & OIA on April 10, 1980	Included in NRR Report
0/2	Summary of Leak Rate Tests at TMI-2 Involving M.S. Coleman and D.I. Olson During the Period 09/30/78 through 03/28/79	Included in NRR Report

NAME: Germer

NRR REPORT ENCLOSURE 15

Att/Encl	Description	Where Found or Why Not
0/1	Investigative Interview of Leonard P. Germer, 3/28/85	OI Exhibit #28
0/2	NRR Evaluation of TMI-2 Reactor Coolant System Leak Rate Tests Performed 09/30/78 - 03/28/79	Superseded by NRR Analysis, 7/30/85 (OI Exhibit #7)

NAME: Hemmila

NRR REPORT ENCLOSURE 16

Att/Encl	Description	Where Found or Why Not
0/1	Investigative Interview of Earl David Hemmila, 3/28/85	OI Exhibit #29
0/2	NRR Evaluation of TMI-2 Reactor Coolant System Leak Rate Tests Performed 09/30/78 to 03/28/79	Superceded by NRR Analysis, 7/30/85 (OI Exhibit #7)

NAME: Wright

NRR REPORT ENCLOSURE 17

Att/Encl	Description	Where Found or Why Not
0/1	Investigative Interview of Wright, 3/27/85	OI Exhibit #18
0/2	NRR Evaluation of TMI-2 Reactor Coolant System Leak Rate Tests Performed 09/30/78 to 03/28/79	Superseded by NRR Analysis, 7/30/85 (OI Exhibit #7)