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August 30, 1984
5211-84-2203

Dr. Thomas 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. DPR-50
Docket No. 50-289
Revisions to the 1981, 1982 and 1983 Semi-Annual Effluent
and Release Reports Per IR 83-28

Our letter 5211-83-372 of December 19, 1983, included the GPUN response to Appendix A "Notice of Violation" for Inspection Report 50-289/83-28. In response to Item 83-28-02 we agreed to audit all 1983, 1982 and 1981 liquid releases and to submit appropriate revisions to the Semi-Annual Effluent Reports for data reported during this period.

Attached to this letter are the revisions for these reports, as follows:

Data for First and Second Quarters, 1981

- ..Originally submitted per TMI-1 Docket 50-289, letter L1L 81-244 on August 31, 1981.
- ..There were no errors or changes to this report.

Data for Third and Fourth Quarters, 1981 (Attachment 1)

- ..Originally submitted per TMI-1 Docket 50-289, letter 5211-82-066, on March 12, 1982.
- ..Pages included contain only the figures which were re-calculated and changed from the original submittal.
- ..Explanations for changes made:

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- a) Releases 50-81-L, Co-60 and Cs-137 were accounted for but the wrong numbers were transferred to the Liquid Release Permit from the sample analysis sheet. These release rates were recalculated and corrected.
- b) Release 59-81-L, Cs-134, Cs-137 and Co-60 were accounted for, but the \pm sigma values were used instead of the actual activity in the uCi/ml. This release was recalculated and corrected.
- c) Release 67-81-L, Co-60 was not included. This release was recalculated and corrected.

Data for First, Second, Third and Fourth Quarters, 1982
(Attachment II-A and II-B)

Attachment II-A

- ..Data for 1st and 2nd quarters, 1982.
- ..Originally submitted per TMI-1 Docket 50-289, letter 5211-82-199, on August 31, 1982.

Attachment II-B

- ..Data for 3rd and 4th quarters, 1982.
- ..Originally submitted per TMI-1 Docket 50-289, letter 5211-83-056, on February 28, 1983.

Attachment II-A and II-B

- ..Pages included contain only the figures which were recalculated and changed from the original submittal.
- ..Explanations for changes made:

- a) Releases 32-82-L, 38-82-L, 39-82-L, 44-82-L, 47-82-L, 67-82-L, and 68-82-L included problems with gamma scan interpretations. These records have been corrected and updated.
- b) Release 32-82-L, Cs-134 was not accounted for on the original report. This release was recalculated and corrected, and there was no effect on release rate to the environment.
- c) Releases 38-82-L, 39-82-L, and 44-82-L, Sb-125 was not accounted for on the original report. This release was recalculated and corrected, and there was no effect on release rate to the environment.
- d) Release 47-82-L, Cs-134, Cs-137 and Co-60 were accounted for, but the wrong numbers (wrong gamma scan) were used for the concentrations in uCi/ml. This release was recalculated and corrected and there was no effect on release rate to the environment.

- e) Release 67-82-L, Co-60, Cs-134, and Cs-137 were accounted for but the + sigma values from the gamma scan were used instead of the actual activity in uCi/ml. After recalculating and correcting the release, this release rate was greater than the original calculation. Conservation in release calculations insured that any 10CFR20 or Chemistry Spec limits on liquid effluent releases were not exceeded.
- f) Release 68-82-L, Co-60 was not accounted for and Cs-137, the wrong number was used. Recalculated and corrected the release and there was no effect on release rate to the environment.

..Explanation for Liquid Effluent Offsite Dose Recalculations:

- a) First Quarter - Recalculation figures were fairly similar to the original numbers.
- b) Second Quarter - Recalculation figures were slightly higher but the Population Total Body Dose decreased. Since this was contrary to the expected results, further investigation was made which revealed that the original calculations probably assessed two liquid source term files instead of one.
- c) Third Quarter - Recalculation figures were slightly higher than the original numbers.
- d) Fourth Quarter - Recalculation figures were fairly similar to the original numbers.

Data for First and Second Quarters, 1983 (Attachment III)

- ..Originally submitted per TMI-1 Docket 50-289, letter 5211-83-244, on August 31, 1983.
- ..Pages included contain only the figures which were recalculated and changed from the original submittal.
- ..Explanations for changes made:

- a) Release 6-83-L, Ag-110m and Sb-125 were not accounted for on the original report. This release was recalculated, corrected, and all records updated with no effect on release rate to the environment.
- b) Release 10-83-L, Sb-125 was not accounted for on the original report. This release was recalculated and corrected, and there was no effect on release rate to the environment.
- c) Release 61-83-L, Co-60 used the wrong activity in uCi/ml. This release was recalculated and corrected, and there was no effect on release rate to the environment.

..Explanation of Liquid Effluent Offsite Dose Recalculations:

- a) First Quarter - Recalculation figures were the same, or slightly changed, from the original numbers.
- b) Second Quarter - Recalculation figures were the same, or slightly changed, from the original numbers.

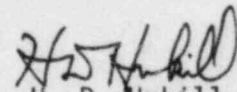
Data for Third and Fourth Quarters, 1983

..originally submitted per TMI-1 Docket 50-289, letter 5211-84-2048, on March 28, 1984.

..The data for this report was prepared and submitted in accordance with the Findings and GPU Response to Inspection Report 83-28.

This report then accounts for the liquid releases and their audit revisions during the three calendar years of 1981, 1982 and 1983. All future reports will be prepared in accordance with the findings and response to item 83-28-02 of Inspection Report 83-28.

Sincerely,



H. D. Hukill
Director, TMI-1

HDH:JGB:vjf
Attachments
cc: J. Van Vliet