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May 12, 1989  
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US Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Dear Sirs:

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

Defueling Water Cleanup System Technical Evaluation Report, Revision 12

Pursuant to NRC letter dated February 4, 1980, attached for your information is the annual update to the Technical Evaluation Report (TER) for the Defueling Water Cleanup System (DWCS). This update addresses system modifications effected via approved design modification documents identified in the Summary of Change Section and deletes references to the Submerged Demineralizer System which is no longer in operation. The following changed pages are:

- o DWCS TER, Pages 1 through 25;
- o DWCS TER, Attachment 1, Pages 7 and 10; and
- o DWCS TER, Attachment 2, Pages 2, and 6 through 25.

Additionally, this revision includes revised drawings 2-M74-DWC02 and 2D-3525-1188 (Attachments 4 and 8, respectively).

Sincerely,

M. B. Roche  
Director, TMI-2

RDW/emf

Attachments

cc: F. I. Young - Senior Resident Inspector, TMI  
W. T. Russell - Regional Administrator, Region I  
J. F. Stolz - Director, Plant Directorate I-4  
L. H. Thonus - Project Manager, TMI Site

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Rev.	SUMMARY OF CHANGE	Approval	Date
0	Initial issue.	<i>mm</i>	12/84
1	Revised to incorporate system design changes and comments on Revision 0.	<i>mm</i>	1/85
2	Revised to incorporate comments on Revision 1.	<i>mm</i>	1/85
3	Revised to incorporate comments on Revision 2.	<i>mm</i>	1/85
4	Revised to reflect addition of relief valves at the outlets of the defueling filter canisters, deletion of fuel pool cleanup system boronmeter and correction of minor typographical errors.	<i>mm</i>	4/85
5	Revised to correct and clarify description of low level alarm setpoints for fuel transfer canal.	<i>mm</i>	5/85
6	Revised to reflect the potential for operation of portions of the DWCS prior to system being fully operational and to incorporate minor editorial changes.	<i>mm</i>	6/85
7	Revised to incorporate Dewatering System inputs to DWCS and provide a general update of the DWCS TER.	<i>mm</i>	9/85
8	Revised to reflect capability to bypass the filter canisters.	<i>mm</i>	12/85
9	Revised to clarify site dose assessment for fuel transfer canal/spent fuel pool cleanup system.	<i>mm</i>	1/86
10	Revised to incorporate system design changes per ECAs 3525-86-0313, 0328, 0356, 0377, 0388; 3255-86-0393; 3525-86-0395; 3255-86-0406; 3525-86-0416; 3255-86-0422; 3525-86-0429, 0438; 3525-87-0444, 0450, 4051, 0454, and 0455. In addition, the following modifications were incorporated: 1) "deep suction," 2) variable post-filer micron ratings, 3) use of organic loaded ion exchanger, and 4) the use of deep bed filters (modified knockout canisters).	<i>mm</i>	4/87
11	Revised to incorporate system design changes per ECAs 3525-86-0322; 3525-87-0467, 0476, 0480, 3525-88-0503, 0504, MMAs 3525-87-0003, 0017, 0018, 0020, 0024, 0037; 3257-87-0046; and 3525-88-0068 and 0074. Revised to reflect current defueling tools/system which interact with the DWCS.	<i>mm</i>	7/88

Title

Defueling Water Cleanup System Technical Evaluation Report

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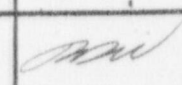
Rev.

## SUMMARY OF CHANGE

Approval

Date

- 12 Revised to incorporate system design changes per MMA 3525-88-0116; see Section 1.3.1 of Attachment 2. Added Section 8.0, "DWCS Flow vs. Allowable Pressure," to Attachment 2. Deleted reference to SDS (system removed from operation). Revised to incorporate MMA 3525-88-0132 (see Attachment 8). Also includes revised drawing 2-M74-DWC02 (see Attachment 4). Revised Section 4.3 for person-rem due to DWCS operation.



5/89