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January 30, 1981
 LIL 026

Office of Inspection and Enforcement
 Attn: B. H. Grier, Director
 Region 1
 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
 Response to IE Bulletin 79-01B

In accordance with Item 1.b of Supplement No. 3 to IE Bulletin 79-01B, we are hereby forwarding a master list of equipment and qualification sheets for one qualified path to achieve cold shutdown. Supplement No. 3, Item 2a, also required submittal of qualification information by February 1, 1981 for lessons learned equipment in harsh environments needed to mitigate the consequences of LOCA's or HELB if the equipment is installed. At this time, only portions of these systems in harsh areas are completely installed. Therefore, as specified in Item 2, the environmental qualification data will be provided with the preimplementation review data, if required (Item 2b), as soon as possible for equipment under NRC review (Item 2c), or by the implementation date, if no preimplementation review is required (Item 2d). The qualification data for one identified path to cold shutdown is provided complete, except where vendor data has not been received, or where lessons learned equipment is used (RCS high point vents). The licensee is continuing to evaluate additional paths and updates as necessary will be provided.

Since our October 31, 1980 submittal (TLL-560), we have received additional information to resolve many of the open items on the hot shutdown qualification sheets. In addition, the material evaluation sheets have been reformatted and upgraded. The additional information and revised format only affect a small portion of the data previously submitted; however, many pages are affected. In order to avoid confusion for updating volumes, we are providing complete replacement volumes for hot shutdown (Volumes I and IA). The revisions made to the previously submitted information are summarized in Enclosure 1.

Sincerely,

 H. D. Hukill
 Director, TMI-1

HDH/CWS:jes

Enclosure

cc: R. W. Reid - w/o Encl.

D. DiIanni - w/o Encl.

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METROPOLITAN EDISON COMPANY
JERSEY CENTRAL POWER & LIGHT COMPANY
AND
PENNSYLVANIA ELECTRIC COMPANY
THREE MILE ISLAND NUCLEAR STATION, UNIT 1

Operating License No. DPR-50
Docket No. 50-289

This letter is submitted in response to the Nuclear Regulatory Commission request concerning IE Bulletin 79-01B, "Environmental Qualification of Class 1E Equipment," dated January 14, 1980 for Three Mile Island Nuclear Station, Unit 1. All statements contained in this report have been reviewed, and all such statements made and matters set forth therein are true and correct to the best of my knowledge, information and belief.

METROPOLITAN EDISON COMPANY

By *H. J. Hill*
Director, TMI-1

Sworn and subscribed to me this 30th day of January, 1981.

By *Pamela Joy Lubrecht*
Notary Public

PAMELA JOY LUBRECHT, Notary Public
Middletown, Dauphin County, Pa.
My Commission Expires August 29, 1983

<u>Item</u>	<u>Page</u>	<u>Description</u>	<u>Revision</u>
<u>MAIN STEAM SYSTEM</u>			
PS-600- PS 607	1-8	SLR Pressure Switch	Resolved open items and new new materials evaluation
SP6A-PT-1&2 SP6B-PT-1&2	9-12	OTSG Pressure Transmitter	Updated open items for ongoing evaluation
LSA/MS-V-6 LSB/MS-V-6	13-14	Limit Switch	Identified switch as not being replaced
LSA/MS-V-13A&B LSB/MS-V-13A&B	15,16,19 20	Limit Switch	New material evaluation
SV/MS-V-13A&B	17-18	Solenoid valves	Resolved ASCO status. New material evaluations

EMERGENCY FEEDWATER/FEEDWATER SYSTEM

All pages have new system name.

FW-V-92A&B FW-V-5A&B	11-14	Feedwater Block Valves	Updated with recent vendor Data
SVLEP-V-8A&B&C FIS-77&78&79	15-20	EFP Minimum flow valves & sensor	Added components to Master list
SV/FW-V-16 A&B SV/FW-V-17A&B	21-27	Feedwater control Valve Solenoids	Added components to Master List

MAKE-UP AND PURIFICATION SYSTEM

MU-P-2-A&B&C MU-P-3-A&B&C	4-9	Make-up Lube oil pump	New material evaluation
LSA/MU-V (various)	15,16, 26-29	limit switch	New material evaluation
LSB/MU-V (various)	32-53		
SV/MU-V (various)	17,25,30 34	Solenoid valves	Resolved ASCO status. New material evaluations
PS-480-A&B&C	37-39	Pressure switch	New material evaluations

<u>Item</u>	<u>Page</u>	<u>Description</u>	<u>Revision</u>
<u>DECAY HEAT REMOVAL - NO CHANGE</u>			
<u>DECAY HEAT CLOSED LOOP COOLING SYSTEM</u>			
SV/DC-V-19A&B	36	Solenoid Valves	Resolved ASCO status. New material evaluations
LSA/DC-V-19 A&B LSB/DC-V-19 A&B	4,5,7,8	Limit switch	Updated with recent vendor data
<u>REACTOR BUILDING ISOLATION SYSTEM</u>			
LSA/ various LSB/ various	1,2,7,8, 13,14,18, 19,21,22, 25,26,28 29,31,32 34,35,37 38,42,43 46,56,57 59,60,62, 63,65,66	Limit switches	New material evaluation
SV/ various	3,4,9,10, 12,23,27 30,33,36, 39,41,44, 49,55,61, 64,67	Solenoid valves	Resolved ASCO status. New material evaluation
RB-V-7	51-53	RBECS normal cooling outlet valve	Valve replaced with limitorque motor operator
WDG-V-3&4	54-57	R.B. Vent header ISO. valves	Changed specification to reflect cold shutdown applicability

<u>Item</u>	<u>Page</u>	<u>Description</u>	<u>Revision</u>
<u>REACTOR BUILDING SPAY SYSTEM - NO CHANGE</u>			
<u>REACTOR PROTECTION SYSTEM</u>			
RC4A-TE2,3 RC4B-TE23	5-8	Temperature Transmitter	New material evaluation
PS-672&4&5	13-15	Pressure Switches	New material evaluations
<u>ENGINEERED SAFEGUARDS ACTUATION SYSTEM</u>			
PT-282&5&8	1,4,7	Pressure Transmitters	Updated open items for ongoing evaluation
PT-283&4&6 PT-287&9 &290	2,3,5,6 8,9	Pressure switches	New material evaluation
RC3A-PT3&4	10-12	Pressure Transmitters	Updated open items for ongoing evaluation
<u>REACTOR BUILDING EMERGENCY COOLING SYSTEM - NO CHANGE</u>			
<u>REACTOR BUILDING COOLING RIVER WATER SYSTEM - NO CHANGE</u>			
<u>CORE FLOOD SYSTEM</u>			
CF-V-3A&B	5,6	Core Flood Tank vent valves	Changed specification to reflect cold shutdown applicability
LSA/CF-V-19&20	11,12	Solenoid valves	Resolved ASCO status. New material evaluations

<u>Item</u>	<u>Page</u>	<u>Description</u>	<u>Revision</u>
<u>NUCLEAR SERVICES CLOSED LOOP COOLING SYSTEM</u>			
NS-V-4&15 NS-V-32&35	4-7	R.C. Cooler ISO. Valves	Changed specification to reflect cold shutdown applicability
LSA/NS-V-52 &53 LSB/NS-V-52 &53	8,9,11, 12,14,15 17,18,20, 21,23,24	Limit switch	New material evaluation
SV/NS-V-52&53	10,13,16, 19,22,25	Solenoid Valves	Resolved ASCO status. New material evaluation
<u>ADDITIONAL ACCIDENT MONITOR EQUIPMENT/REACTOR COOLANT SYSTEM</u>			
All pages have new system name			
SPIA-LT2&4 SPIB-LT2&4	1-7	Level Transmitters	Updated open items for ongoing evaluations
RC5A-TE1&2&3&4 RC5B-TE1&2&3&4	8-15	Temperature Transmitter	New material evaluations
<u>COMMON SYSTEM</u>			
Terminal Block	2	Terminal Block	New Material evaluation. Updated irradiation
1A&1B&1C ES VLVCC	6-8	Valve Control Center	specifications to non-harsh environment
<u>CALCULATIONS</u>			
0370-025-028	REV. 1	Effects of DBA's on thermal aging sensitive materials	
0370-025-030	REV. 0	Arrhenius model for neoprene	
0370-025-033	REV. 0	Arrhenius model for ethylene propylene rubber	
0370-025-041	REV. 0	Pressure evaluation of SOR pressure switch	
0370-025-042	REV. 0	Stress calculation of an SOR pressure switch due to a pressure environment.	