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U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

Gentlemen:

Three Mile Island Nuclear Station, Unit 1 (TMI-1)
Operating License No. DPR-50
Docket No. 50-289
License Amendment Request No. 170 -
Integrated Schedule "ABC" List

Pursuant to our commitment made in the December 16, 1987 meeting in Bethesda, Maryland, the ABC listing of projects (ABC refers to the categories of items in the Integrated Schedule Plan) on the Integrated Schedule is hereby submitted for your information.

Sincerely,

H. D. Hukill
Vice President and Director, TMI-1

HDH/GG/spb:1137A

cc: J. Stolz
W. Russell
R. Hernan
R. Conte

Attachment

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T M I - 1 P R O J E C T L I S T I N G

CATEGORY "A" PROJECTS

SORT BY CATEGORY/CYCLE/BA NUMBER

STATUS AS OF 30MAR88

OBS	BA NUMBER	DESCRIPTION PROJECT DESCRIPTION	CYCLE/ YEAR	CLASSIFICATION
1	128061P2	REG GUIDE 1.97 MODS-SEISMIC CR MODIFY PANELS TO MEET SEISMIC REQUIREMENTS AS NECESSARY. LAI 86-9196.	7R	NRR
2	412244P5	REMOTE SHUTDOWN SYS ENHANCEMENT CR REWIRE RSD PANELS TO ISOLATE ESAS CONTACT FROM ICV 3&4.	7R	NRR
3	412384P4	APPENDIX R OPEN ITEMS CB RCP TRIP CIRCUITS MOD(REROUTE 2 CKTS); LAI 87-9176.	7R	NRR
4	412484	FLOW MEASURING INSTRUMENTATION-1ST PRGRM CB ISPH INSTALL TAPS AND ANNUNCIATORS WITH LOCAL INDIC. TO PROVIDE FLOW FOR CHIL. PUMP & SW PUMP. LAI 83-0121.	7R	NRR
5	412491P3	REG GUIDE 1.97 MODS RB CB AB FH RB WORK, TERMINATIONS; ABOUT 30% OF TOTAL JOB. LAI 86-9193 & LAI 87-9155.	7R	NRR
6	412531P1	PUMP RECIRC FLOWMETERS FOR IST DGB INSTALL FLOWMETER ON DISCHARGE LINES OF PUMPS DF-P1A/B AND DF-P1C/D. LAI 87-9079.	7R	NRR
7	412531P2	PUMP RECIRC FLOWMETERS FOR IST AB INSTALL FLOWMETER ON RECIRC LINE FOR WDL-P13A/B; INSTALL RECIRC LOOP FOR CAP1A/B. LAI 87-9045.	8R	NRR

TMI-1 PROJECT LISTING

CATEGORY "A" PROJECTS

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OBS	BA NUMBER	DESCRIPTION PROJECT DESCRIPTION	CYCLE/ YEAR	CLASSIFICATION
8	412462	ANTICIPATE TRANSIENT W/O SCRAM(ATWS)RULE CR RELR CB TB ADD ELECTRONICS LOGIC TO TRIP REG GRP. LAI 85-9227.	9R	NRR

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CATEGORY "B" PROJECTS

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OBS	BA NUMBER	DESCRIPTION PROJECT DESCRIPTION	CYCLE/ YEAR	CLASSIFICATION
9	123227	IN SERVICE RX BLDG TENDON SURVEILLANCE 10 TENDONS.	7	NRR
10	123224	OTSG TUBE PLUGGING RB PLUG OTSG TUBES AS NECESSARY.	7R	NRR
11	123226	7R REACTOR REFUELING RB REPLACE 76 FUEL ASSEMBLIES.	7R	NRR
12	123235	RC PUMP SNUBBER VALVE BLOCK REPLACE RB REPLACE THE CONTROL VALVE BLOCKS ON THE 4 RCP SNUBBERS; TEST SNUBBERS (NRR).	7R	NRR
13	125007	TMI INSERVICE INSPECTION (OUTAGE 7R) ALL ASME SECT XI INSPECTIONS.	7R	NRR
14	125008	EDDY CURRENT INSPECTION RB ECT OF ISI TUBES ; 3% INSPECTION.	7R	NRR
15	123A08	8R REACTOR REFUELING RB 76 NEW FUEL ASSEMBLIES.	8R	NRR

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16	123C08	OTSG TUBE PLUGGING RB PLUG OTSG TUBES AS NECESSARY.	8R	NRR
17	123230	ILRT RB INTEGRATED LEAK RATE TEST OF CONTAINMENT - 1990.	8R	NRR
18	126A08	OTSG EDDY CURRENT TESTING RB ECT OF ISI TUBES; 3% INSPECTION.	8R	NRR
19	126C08	TMI INSERVICE INSPECTION (OUTAGE 8R) ALL ASME SECT XI INSPECTIONS; AUGMENTED ISI.	8R	NRR
20	412538	HEAT SINK PROTECTION SYSTEM UPGRADE CR CB INSTALL DIFFERENT CR INDICATOR FOR MSRD; OTHER MOD IDENTIFIED BY OPS, MAINT AND PLANT ENG.LAI 87-9283.	8R	NRR
21	128097	SEISMIC QUAL NUCLEAR POWER PLANTS RESOLUTION OF USIA-46 THROUGH SEISMIC QUALIFICATION UTILITY GROUP PARTICIPATION.	87-90	NRR
22	412523	REPLICATE SIMULATOR CERTIFICATION UPGRD UPGRADE SIMULATOR CONSISTENT WITH CONTROL ROOM MODIFICATIONS.	87-90	NRR
23	128108	SEISMIC QUAL OF EQUIP IN OPER NUC PLANTS	87-91	NRR

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		SCOPE THE SEISMIC QUAL OF EQUIP FOR TMI-1 AS WILL BE REQUIRED BY NRC GL 87-02 & LAI 87-9084.		
24	128056	VENDOR MANUAL REVIEW ESTABLISH AND IMPLEMENT VENDOR DOCUMENT CONTROL PROGRAM; LAI 85-9258.	87/88	NRR
25	126881	OUTAGE GENERAL EMPLOYEE TRAINING - TMI-1 INSTRUCT INDIVIDUALS WORKING IN NUCLEAR POWER PLANTS.	88	NRR
26	418057	CONSOLIDATION PLAN TASKS TO BE ACCOMPLISHED TO CONSOLIDATE TMI-1 AND 2 SECURITY; LAI 88-9019.	88/89	NRR
27	12689A	OUTAGE GENERAL EMPLOYEE TRAINING - TMI-1 INSTRUCT INDIVIDUALS WORKING IN NUCLEAR POWER PLANTS.	89	NRR
28	12689E	RX VESSEL INSERVICE INSP SUPP & PREP-8P PLAN AND PREPARE FOR RX VESSEL INSPECTION IN 8R.	89	NRR
29	123A09	9R REACTOR REFUELING RB 80 NEW FUEL ASSEMBLIES.	9R	NRR
30	123C09	OTSG TUBE PLUGGING RB PLUG OTSG TUBES AS NECESSARY.	9R	NRR

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31	126A09	OTSG EDDY CURRENT TESTING RB ECT OF ISI TUBES; 3% INSPECTION.	9R	NRR
32	126C09	TMI INSERVICE INSPECTION (OUTAGE 9R) ALL ASME SECT XI INSPECTIONS; AUGMENTED ISI.	9R	NRR

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CATEGORY "C" PROJECTS

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OBS	BA NUMBER	DESCRIPTION PROJECT DESCRIPTION	CYCLE/ YEAR	CLASSIFICATION
33	123222	TURBINE/GENERATOR INSPECT & OVERHAUL TB OVERHAUL GENERATOR EXCITER, B LP TURBINE, AFP TURBINE, VALVES.	7R	MRC
34	123223	RCP SEAL INSPECT/REPLACE RB INSPECT/REPLACE SEALS ON RCP'S.	7R	MRC
35	123231P1	OTSG AND RCS INSULATION REPLACEMENT RB INSULATION SCHEDULED TO BE REMOVED DURING 7R TO BE REPLACED WITH UPGRADED REFLECTIVE INSULATION.	7R	MRC
36	125005	STEAM EROSION (AUGMENTED) ALL AUGMENTED INSPECTIONS TO DETECT EROSION/DEGRADATION OF TMI SYSTEMS.	7R	NRR
37	128081P2	OTSG MECHANICAL CLEANING - SLUDGE SMPL RB REMOVE SLUDGE SAMPLE FROM OTSG TO SUPPORT CHEM CLEANING PROGRAM.	7R	MRC
38	128124F1	REDESIGN/REPLACE CONTAINMENT ISO VALVES RM AB REPLACE DHV-69, WALKDOWN AND MEASURE INTERNAL FOR OTHER VALVES (4).	7R	IOE
39	412014	UPGRADE RIVER WATER PUMP SYSTEM-LM ISPH REMOVE 14 SEAL WATER PUMPS, REPLACE WITH 2.	7R	MRC

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40	412081P3	OTSG BLOWDOWN RB TB INSTALL PIPING & VALVES & CONTROLS FOR HOT OTSG B/D.	7R	MRC
41	412232	FUEL HANDLING SYS UPGRADE RB FHB REPLACE HYDRAULIC MAST CONTROL CONSOLE DILLON SYSTEM, UPGRADE FROM B4 TO B5.	7R	MRC
42	417255	STRIP CHART RECORDER UPGRADE CR TB REPLACE 21 STRIP CHART RECORDERS (19 IN CR).	7R	MRC
43	412444	MAIN GENERATOR PROTECTION IMPROVEMENTS CR TB RELR ADD CORE H2 SAMPLE; NEW RELAY PANEL; ADD 2 REVERSE POWER RELAYS.	7R	REL
44	412495	RX EX-VESSEL FLUENCE MEASUREMENT RB PLACE DOSIMETRY IN EXISTING SOURCE CAL TUBE.	7R	NRR
45	412534P2	ICS/NNI - ENHANCE RELIABILITY CB RELR RESPONSE TO SPIP REC: REROUTE "HAND" POWER CIRCUIT.	7R	REL
46	418678	NATURAL DRAFT COOLING TOWER PIPE REFURB. NDCT REPLACE WOODEN PIPING, PIPE SUPPORTS AND SPLASH BOXES. REFURBISH VALVES, HOT BASIN, ETC.	7R	MRC
47	126B08	STEAM EROSION (AUGMENTED)	8R	NRR

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		ALL AUGMENTED INSPECTIONS TO DETECT EROSION/DEGRADATION OF TMI SYSTEMS.		
48	128125	TMI-1 MAIN ANNUNCIATOR REFORMATING CR RELR RELOCATE AND RETURN 200 MAIN CR ANNUNCIATOR ALARMS AND WINDOWS. (PART OF SPIP)	8R	NRR
49 *	128128	OTSG CHEMICAL CLEANING SYSTEM RB IMPLEMENT CLEANING OF BOTH OTSG'S BASED ON KWU PROCESS.	8R	MRC
50	412522	REPLACE BAILEY TRANSMITTERS REPLACE BAILEY BY TRANS WITH ROSEMOUNT OR FOXBORO.	8R	MRC
51	128098	BWOG PERFORM IMPROVE UPGRADES REL R CR UPGRADES RESULTING FROM SECO/DAVIS BESSE EVENTS. SCOPE NOT DEFINED.	87-89	NRR
52	128114	EPRI STEAM GENERATOR RELIABILITY PROJ CO-FUNDING FOR EPRI SGRP TASK 404.	87-89	MRC
53	412536	B&WOG ADVANCED CONTROL SYSTEM TASK FORCE SUPPORT OF TASK FORCE TO DEVELOP AN OPTIMAL CONFIGURATION FOR THE ADVANCED CONTROL SYSTEM.	87-89	ISM
54	419648	CONSTRUCT ADMIN NORTH BUILDING CONSTRUCT A 200X150 TWO STORY	87-89	FAC

TMI - 1 PROJECT LISTING

CATEGORY "C" PROJECTS

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OBS	BA NUMBER	DESCRIPTION PROJECT DESCRIPTION	CYCLE/ YEAR	CLASSIFICATION
		OFFICE BUILDING.		
55	128072	PLANT LIFE ASSURANCE/EXTENSION SUPPORT OF STUDIES BY EPRI & BWOG FOR FEASIBILITY OF EXTENDING OPERATING LIFE.	87-90	REL
56	412AAQ	PLANT CHECK VALVE UPGRADE STUDY OF CHECK VALVE APPLICATIONS - BASED ON SAN ONOPRE.	87-90	ISM
57	412271	PLANT PERFORMANCE MON INST TB RB EVALUATION TO DETERMINE WHAT INSTRUMENTATION IS NEEDED. (POSSIBLE MOD)	87-90	HRP
58	412512P1	SAFETY/PERFORMNC IMPROVEMENT PROG (BWOG) TB MODS TO IMPLEMENT SPIP RECOMMENDATIONS.	87-90	NRR
59	128019	TMI-1 DECOMMISSIONING COST EST. UPGRADE DEVELOP COST ESTIMATE CONSISTENT WITH CHANGES TO 10CFR50.	88	ORR
60	418058	SECURITY ACCESS CONTROL COMPUTER ENHANCE ALL REPLACE CARD READERS; UPGRADE MAIN COMPUTER; NEW PRINTER.	88	NRR
61	419448	PURCHASE IN-PLACE(CANBERRA) WBC SYSTEMS WHOLE BODY COUNTING SYSTEMS.	88	NRR

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62	419453	EQUIPMENT FOR RCRA & WASTE MINIMIZATION EQUIPMENT FOR HANDLING OF HAZARDOUS MATERIALS AND WASTES.	88	ERR
63	419477	EMERG COMMUNICATIONS SYSTEM UPGRADE REPLACE 31 DEDICATED TELEPHONE CIRCUITS WITH MICROWAVE TRANSMISSION SYSTEM.	88	NRR
64	419883	REPLICA SIMULATOR REMOTE SHUTDOWN PANELS REPL. CATE AND INSTALL TMI-1 REMOTE SHUTDOWN PANELS AT SIMULATOR; MODIFY SOFTWARE.	88	ISM
65	128122	B&W OWNER'S GROUP PROGRAM GPUN PARTICIPATION IN THE BWOG.	88-90	NRR
66	128132	AS FOUND DOCUMENT & DRAWING UPDATE MAINTAIN AS-FOUND DOCUMENTATION (PER 10CFR50 APP B).	88-90	NRR
67	128099	TMI-1 INDIVIDUAL PLANT EVALUATION INDUSTRY DEGRADED CORE ACTIVITIES & PLANT SPECIFIC NRC SUBMITTAL.	88/89	NRR
68	412521	VOLUME REDUCTION EQUIPMENT FACILITY PROVIDE SOLID WASTE DISPOSAL FACILITY.	88/89	RAD

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69	419454	AUTOMATIC PRECIPITATION SAMPLERS AUTOMATIC SAMPLERS FOR ENVIRONMENTAL MONITORING PROGRAM.	88/89	ERR
70	419456	AUTOMATIC WATER COMPOSITORS CONTINUOUSLY OPERATING WATER SAMPLER FOR RIVER WATER SAMPLES.	88/89	ERR
71	128100	STATION BLACKOUT ANALYSIS TO RESPOND TO NRC REQUIREMENTS ON STATION BLACKOUT.	89	NRR
72	128101	DECAY HEAT REMOVAL RELIABILITY ANALYSIS TO RESPOND TO NRC REQUIREMENTS WHEN DEVELOPED.	89	NRR
73	128113	LOW ACTIVITY WASTE STREAM PETITION (EPRI SUPPORT OF BELOW REGULATORY CONCERN TECHNICAL SUPPORT PROGRAM.	89	NRR
74	412AAG	BELOW REGULATORY CONCERN POWDEX DISPOSAL OBTAIN PERMISSION FOR ONSITE DISPOSAL OF SPENT POWDEX.	89	NRR
75	419XX2	CONSTRUCT TURBINE BUILDING TOOL SHOP CONSTRUCT MAINT CONTRACTOR TOOL SHOP ON 305' LEVEL OF TB TO REPLACE PLYWOOD SHED.	89	ORR
76	419XX9	CONSTRUCT VISITOR CENTER *****	89	FAC

TMI - 1 PROJECT LISTING

CATEGORY "C" PROJECTS

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OBS	BA NUMBER	DESCRIPTION PROJECT DESCRIPTION	CYCLE/ YEAR	CLASSIFICATION
		EXPAND AND RENOVATE VISITOR/ OBSERVATION CENTER - TO PROVIDE OFFICES FOR THE COMMUNICATION DIVISION GROUP.		
77	41989G	MELITA 3000 EMERG TELENOTIFICATION SYS THIS SYSTEM WILL AUTOMATICALLY PERFORM SURVEILLANCES.	89	NRR
78	41989H	REMOTE SIREN MONITORING SYS (RSMS) PURCHASE RSMS INCLUDING SIREN SENSORS AND CENTRAL (REMOTE) STATION.	89	ISM
79	419639	RENOVATE GREEN ADMIN BUILDING 222 RENOVATE AND ENLARGE GREEN ADMIN BLDG.	89/90	FAC
80	419665	CONSTRUCT TRAINING LABS PROVIDE FOR TRAINING LABS IN EXISTING STRUCTURES.	89/90	FAC
81	412076	POISON FUEL RACKS - POOL A FHB EXPAND CAPACITY. (CYCLE 9)	9	NRR
82	126B09	STEAM EROSION (AUGMENTED) ALL AUGMENTED INSPECTIONS TO DETECT EROSION/DEGRADATION OF TMI SYSTEMS.	9R	NRR
83	412ABE	SQUG MODS ALL MODIFY ANCHORAGES/SUPPORTS, REPLACE PROTECTIVE RELAYS TO COMPLY WITH SEISMIC QUALIFICATIONS.	9R	NRR

ABC Classifications

- a) Meet NRC Requirements (NRR) - Activities that a) must be carried out to fulfill specific NRC requirements or b) have been committed to the NRC by the Company or c) are such that if not accomplished could result in an NRC non-compliance even though the specific activity is not required by the NRC.
- b) Meet Environmental Requirements (ERR) - Activities that a) are specifically required by environmental regulatory agencies (State and Federal) or b) have been committed to environmental agencies by the Company or c) are such that if not accomplished could result in a regulatory non-compliance even though the specific activity is not required by an environmental regulatory agency.
- c) Meet Other Requirements (OPR) - Activities not covered by the NRC or environmental requirements but that are required by local, state, or federal ordinances, codes, court order or lawsuit settlement, or other guidance to which the Company is committed or if not accomplished could result in a violation of that ordinance, code or guidance, court order, etc.
- d) Increase Safety Margins (ISM) - Activities that, if implemented, will improve nuclear plant or personnel safety but are neither required for regulatory compliance nor required by safety regulations, codes or guidance.
- e) Decrease Environmental Effects (E) - Activities that, if implemented, will result in an improved environmental quality but are neither required for regulatory compliance nor required by environmental regulations, codes or guidance.
- f) Improve Radiological Conditions (RAD) - Activities that, if implemented, will result in improved radiological conditions, lower man-rem exposure rates, or radwaste control/reduction but are neither required for regulatory compliance nor required by radiological regulations, codes or guidance.
- g) Maintain Reliability/Capability (MRC) - Activities that, if implemented, will maintain power production at existing levels by preventing deterioration of plant systems or equipment. Includes activities in response to national codes & standards, insurance policies, equipment vendor specifications or nuclear industry high unavailability equipment data without which the plant could not operate prudently.
- h) Improve Reliability/Capability (REL) - Activities that, if implemented, will increase power generation by improving availability or capacity factor to maximize energy output.
- i) Improve Operational Effectiveness (IOE) - Activities that, if implemented, will improve staff efficiency or provide a direct economic payback in terms of reduced operating/maintenance costs.

- j) Improve Personnel Facilities (FAC) - Activities that, if implemented, will improve working conditions and the usefulness of personnel facilities.
- k) Provide Contingency/Blanket (CUI) - Activities that, if implemented, will provide management flexibility to respond in a timely manner to emergent work requirements or the ongoing requirements to procure, replace or repair minor items essential to support routine operations.
- l) Improves Heat Rate Performance - (HRP) - Activities, that, if implemented, will increase power production by enhancing the heat rate efficiency.