



GPU Nuclear Corporation
Post Office Box 480
Route 441 South
Middletown, Pennsylvania 17057-0191
717 944-7621
TELEX 84-2386
Writer's Direct Dial Number:

November 9, 1992
C000-92-1941
C311-92-2135

U. S. Nuclear Regulatory Commission
Att: Document Control Desk
Washington, DC 20555

Gentlemen:

Subject: Three Mile Island Nuclear Station, Unit No. 1 (TMI-1)
Docket No. 50-289
Operating License No. DPR-50
Long Range Planning Program (LRPP)
Semi-Annual Update of Integrated Schedule
"ABC" Project Listing

Pursuant to License DPR-50 Condition No. 2.c.9, GPU Nuclear (GPUN) Corporation hereby submits the required semi-annual update of projects listed in each category (A, B, and C) as defined by the LRPP integrated schedule. The attachments to this letter include: 1) the ABC project listing; and, 2) a summary of changes since the last submittal forwarded by GPUN Letter No. C311-92-2061, dated May 5, 1992. An abstract of the attachments follows:

1. Attachment A - A new project listing of Category A, B, and C projects annotated by an asterisk (*) to identify new projects and by a double asterisk (**) to identify changes in Budget Authorization (B/A) number assignments. Completed projects have been removed from the schedule listing. Remaining projects are ongoing or are scheduled consistent with cycle/year commitments. Any changes in schedule are reflected on Attachments A and B.

160020

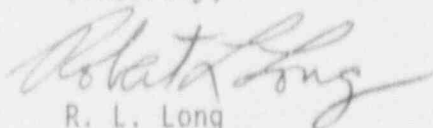
9211170019 921109
PDR ADOCK 05000289
R PDR

Adol

2. Attachment B - A summary listing of Category A and B projects which have been completed, deferred, changed in scope, or otherwise changed with explanations, as appropriate. The listing also contains Category C project completions. Changes to the Category C scope or schedule do not impact the Category A and B schedules.

Seven (7) additions to the list of Category B projects have been made by this submittal. In addition, Attachment B describes two (2) changes to the list of Category B projects affecting schedule, and three (3) project identification changes. Pursuant to the LRPP for TMI-1, GPU Nuclear will assume that the NRC is in agreement with the above Category A and B changes, unless we are notified otherwise within 15 days of receipt.

Sincerely,



R. L. Long
Vice President and Director
Corporate Services

GMG/plp

cc: Administrator, Region 1
TMI-1 Senior Project Manager
TMI Senior Resident Inspector

ATTACHMENT A

TMI-1 PROJECT LISTING
INTEGRATED SCHEDULE
SEMI-ANNUAL UPDATE

(NOVEMBER, 1992)

TMI-1 PROJECT LISTING

LEGEND

- * NEW PROJECTS
- ** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'A' PROJECTS

SORT BY CATEGORY/CYCLE/BA			STATUS AS OF 02NOV92	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
1	126236	REVISED 10CFR20 IMPLEMENTATION IMPLEMENT REVISION TO 10CFR20 STANDARDS FOR PROTECTION AGAINST RADIATION BY MODI FYING SOFTWARE, PROCEDURES & TRAINING	92/93	NRR

TIME-1 PROJECT LISTING

LEGEND

* NEW PROJECTS
** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'B' PROJECTS

SORT BY CATEGORY/CYCLE/BA

STATUS AS OF 02NOV92

OBS NUMBER	BA	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
2	123321	** REACTOR BLDG TENDON SURVEILLANCE PROG PROVIDES FOR VENDOR SERVICES AND PLANT SUPPORT FOR NEXT TENDON SURVEILLANCE REF. NUREG 1351; TS 4.4.2.1	10	NRR
3	128108	TF SEISMIC QUAL OF EQUIPMENT (SQUG) WALKDOWNS FOR SQUG WHICH DO NOT REQUIRE AN OUTAGE TO PERFORM REF. USI-AA6 ; CL 87-02	10	NRR
4	123289	PLRT - 10R RB INTEGRATED LEAK RATE TEST OF CONTAINMENT - 1993. REF. TS 4.4.1.1	10R	NRR
5	123290	OTSQ TUBE PLUGGING - 10R RB PLUG OTSG TUBES AS NECESSARY. PLAN FOR 10 NEW PLUGS(5 TUBES) PER OTSG & REPLACE 15 IN A & 10 IN B (ROLLED). REF TS 4.19	10R	NRR
6	126231	OTSQ EDDY CURRENT TESTING RB ECT OF SAMPLE INSPECTION GROUP, 3% INSPECTION PER OTSG PER TS 4.19 AND POST SLEEVING INSPECT.	10R	NRR
7	126234	TMI INSERVICE INSPECTION ALL ASME SECT XI INSPECTIONS; AUGMENTED ISI TO COMPLY WITH 10 CFR 50.55.	10R	NRR
8	128108	TF SEISMIC QUAL OF EQUIPMENT (SQUG) WALKDOWNS FOR SQUG WHICH MUST BE DONE DURING AN OUTAGE REF. USI-AA6 ; CL 87-02	10R	NRR

TMI-1 PROJECT LISTING

LEGEND

- * NEW PROJECTS
- ** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'B' PROJECTS

SORT BY CATEGORY/CYCLE/BA

STATUS AS OF 02NOV92

BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
9 128155	SOLENOID VALVE/LIMIT SWITCH UPGRADE REPLACE 45 COMERCIAL GRADE LIMIT SWITCHS AND 18 SOLENOID VALVES ASSOC WITH NSR VALVES PER REG GUIDE 1.89 & 10CFR 50.49	10R	NRR
10 412611	REPLACE EIM MOTOR ACTUATORS REPLACE EIM MOTOR ACTUATORS WITH LIMIT- TORQUE MOTOR ACTUATORS FOR SIX VALVES TO PROVIDE TEST CAPABILITIES PER GL 89-10.	10R	NRR
11 123328	** OTSG TUBE PLUGGING RB PLUG OTSG TUBES AS NECESSARY. REF. TS 4.19	11R	NRR
12 12694G	* OTSG EDDY CURRENT TESTING RB ECT OF SAMPLE INSPECTION GROUP, 3% PER OTSG TECH SPEC INSPECTION REF. TS 4.19	11R	NRR
13 12694H	** TMI INSERVICE INSPECTION ALL ASME SECTION XI INSPECTIONS; AUGMENTED ISI TO COMPLY WITH 10CFR50.55	11R	NRR
14 123ABC	* OTSG TUBE PLUGGING PLUG OTSG TUBES AS NECESSARY. PLAN IN- CLUDES NEW PLUGS AND REPLACEMENT OF EX- ISTING PLUGS. REF. TS 4.19	12R	NRR
15 12696B	* ISI INSPECTIONS (12R) ASME SECT XI INSPECTIONS; AUGMENTED ISI TO COMPLY WITH 10CFR50.55	12R	NRR

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

LEGEND

* NEW PROJECTS
** BA NUMBER CHANGE

----- N R C I N T E G R A T E D S C H E D U L E -----

CATEGORY 'B' PROJECTS

SORT BY CATEGORY/CYCLE/BA

STATUS AS OF 02NOV92

OBS NUMBER	BA	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
16	12696C	* OTSG EDDY CURRENT TESTING ECT OF SAMPLE INSPECTION GROUP. 3% PER OTSG PER T.S. 4.19	12R	NRR
17	128097	SQUG USERS GROUP PROGRAM SEISMIC QUALIFICATION UTILITY GROUP PARTICIPATION REF. USI-A46 ; GL 87-10	88-93	NRR
18	412596	TMI-1 INDIVIDUAL PLANT EVALUATION INDUSTRY DEGRADED CORE ACTIVITIES & PLANT SPECIFIC NRC SUBMITTAL. (REF LAI 89-9250)	89-93	NRR
19	128152	MOV PROGRAM DEVELOP & IMPLEMENT MOV PROGRAM TO MEET GL 89-10. REF. MEMO C311-90-3132, C311-89-2117	90-94	NRR
20	419233	SIMULATOR MODIFICATIONS - TMI (1992) UPGRADE SIMULATOR CONSISTENT WITH CONTROL ROOM MODIFICATIONS. REF. 10 CFR 55.45	92	NRR
21	412617	TMI IPE EXTERNAL EVENTS PERFORM THE IPE ANALYSIS FOR EXTERNAL EVENTS - REF: LETTER NO. C311-91-2150 & LAI 91-9238, 9239.	92-94	NRR
22	41993P	SIMULATOR MODIFICATIONS - TMI (1993) UPGRADE SIMULATOR CONSISTENT WITH CONTROL ROOM MODIFICATIONS. REF 10 CFR 55.45	93	NRR

----- TM1-1 PROJECT LISTING -----

LEGEND
 * NEW PROJECTS
 ** BA NUMBER CHANGE

----- NRC INTEGRATED SCHEDULE -----

CATEGORY 'B' PROJECTS

SORT BY CATEGORY/CYCLE/BA

STATUS AS OF 02NOV92

NRS NUMBER	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
23	41994H	SIMULATOR MODIFICATIONS - TM1 (1994) UPGRADE SIMULATOR CONSISTENT WITH CONTROL ROOM MODIFICATIONS. REF. 10 CFR 55.45	94	NRR
24	41995G	* SIMULATOR MODIFICATIONS UPGRADE SIMULATOR CONSISTENT WITH CNTEL ROOM MODS REF. 10 CFR 55.45	95	NRR
25	41996D	* SIMULATOR MODIFICATIONS UPGRADE SIMULATOR CONSISTENT WITH CONTROL ROOM MODIFICATIONS REF. 10 CFR 55.45	96	NRR
26	41997C	* SIMULATOR MODIFICATIONS UPGRADES TO THE SIMULATOR TO BE CONSIST- ENT WITH CONTROL ROOM MODS REF. 10 CFR 55.45	97	NRR

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

LEGEND

* NEW PROJECTS
** BA NUMBER CHANGE

N R C I N T E G R A T E D S C H E D U L E

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA

STATUS AS OF 02NOV92

ORBS NUMBER	DESCRIPTION	CYCL/ YEARS	CLASSIFICATION
27 225011	TM1-2 PDMS ALARM MONITORING BY TM1-1 ENGINEER, PROCURE AND INSTALL THE EQUIP. NECESSARY TO MONITOR TM1-2 ALARMS BY UNIT 1	09	NPR
28 412076	POISON FUEL RACKS-POOL A FHB RERACK FUEL RACKS IN POOL A TO PROVIDE END OF LICENSED LIFE STORAGE CAPACITY	09	NRR
29 412577	ADD'L TURB. BLDG. & INT. BLDG. PLATFORMS DESIGN, PROCURE, AND INSTALL PERMANENT MAINTENANCE PLATFORMS IN TURBINE BLDG AND THE BMS1 TUNNEL	09	ISM
30 412620	RADWASTE STORAGE CAPABILITY MODIFY CONCRETE WALL IN THE ISMSF TO INCREASE LLRW STORAGE CAPACITY LEN 90-09 GL81-38. (PHASE 1)	09	NRR
31 412625	FOXBORO RECORDER REPLACEMENT REPLACE 11 FOXBORO RECORDERS WITH UNITS THAT ARE MORE RELIABLE AND EASIER TO MAINTAIN	09	MRC
32 412628	REACTOR BUILDING COOLING SYS TIE-IN INSTALL EXTERNAL TIE-IN POINTS TO ENABLE AN EXT CHILLED WATER SYSTEM TO PROVIDE RB VENTILATION DURING SUMMER OUTAGES.	09	GMC
33 418750	SERVICE BLDG ADDITION - FENCE RELOCATION RELOCATE THE PROTECTED AREA FENCE OUT- WARD TO ALLOW CONSTRUCTION OF AN ADDI- TION TO THE SERV BUILDINGS'S NORTH SIDE	09	FAC

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

LEGEND

* NEW PROJECTS
** BA NUMBER CHANGE

----- N R C I N T E G R A T E S C H E D U L E -----

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA

STATUS AS OF 02NOV92

OBS NUMBER	BA	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
34	418766	TM1-1 LIGHTING ENHANCEMENT	09	NRH
35	418771	IMPROVE THE SECURITY LIGHTING AROUND THE TM1-1 MAIN PLANT AREA AND INSTALL LIGHT- ING @ THE CHEMICAL CLEAN'G PITS. LOOSE PARTS/NEUTRON NOISE SYS UPGRADE	09	REL
36	418794	UPGRADE THE EXISTING LOOSE PARTS/NEUTRON NOISE MONITORING SYSTEM WITH B&W LPM IV SYSTEM PLANT PRESERVATION - BOP (CAPITAL) TB 1B SCAFFOLD, SURFACE PREP PAINTING, CLEANUP OF WALLS, PRETREATMENT BLDG.	09	MRC
37	418797	ROOFING REPAIRS 1992	09	MRC
38	418801	REMOVE AND INSTALL NEW ROOFING ON ; AUX BLDG (BOTH ROOFS), RIVER SCREEN HOUSE AND WASTE NEUTRALIZER TANK BLDG IMPROVE PLANT PACE SYSTEM	09	REL
39	418803	REPLACE APPROX. 24 HANDSETS, INSTALL 24 NOISE MONITORS, INSTALL PHONE INTERFACE UNIT IN NOB, OTHER RELATED ITEMS TM1-2 LIGHTING ENHANCEMENT	09	NRH
40	418807	IMPROVE THE SECURITY LIGHTING AROUND THE TM1-2 MAIN PLANT AREA. * PLANT PRESERVATION (BOP) PROGRAM	09	OWC
BA COVERS THE 1993 CAPITAL (NEVER BEFORE COATED) PORTION OF THE BOP PRESERVATION PROGRAM (APPROX 17% OF THE TOTAL).				

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

LEGEND

* NEW PROJECTS
** BA NUMBER CHANGE

----- N R C I N T E G R A T E D S C H E D U L E -----

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA

STATUS AS OF 02NOV92

QBS NUMBER	BA	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
41	419689	ROOF REPLACEMENTS	09	FAC
		REPLACE ROOFS ON BLDG 35, WAREHOUSE 1, WAREHOUSE 3, AND DEWEY HOUSE.		
42	419700	IMPROVE NC3 OUTSIDE AREA	09	GMC
		IMPROVE THE AREA OUTSIDE THE NORTH OFFICE BUILDING.		
43	419710	UNIT 2 ADMIN BLDG	09	FAC
		ENGINEERING STUDY, VENTILATION AND HVAC MODIFICATIONS		
44	419723	SECURITY EQUIPMENT - TMI	09	MRC
		REPLACE VARIOUS SECURITY EQUIPMENT		
45	419724	REMODEL & CONSTRUCT ADDITION-BLDG 43	09	FAC
		PROVIDE FOR MAINT TRAINING LABS IN EXISTING STRUCTURES.		
46	412577	* ADD'L TURB. ELDB. & INT. BLDG. PLATFORMS	10	ISM
		DESIGN, PROCURE, AND INSTALL PERMANENT MAINTENANCE PLATFORMS IN THE TURB. BLDG. AND THE BMST TUNNEL		
47	412605	RMS EFFLUENT QUANTIFICATION	10	REL
		ROUTE CABLES FROM CR READOUT PANELS AND AUXILIARY BUILDING TO THE PLANT PROCESS COMPUTER IN THE CR.		

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

LEGEND

* NEW PROJECTS
** BA NUMBER CHANGE

N R C I N T E G R A T E D S C H E D U L E

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA

STATUS A OF 02NOV92

OBS NUMBER	BA	DESCRIPTION	CYCLE/ YEARS	CLF	IFICATION
48	412612	PERM DEMIN SYST IN PRL W MISC WASTE EVA INSTALL PERMANENT 29-60 GPM DEMINERALIZE R SYSTEM IN PARALL WITH THE RADWASTE MISC WASTE EVAPORA JR	10	IOE	
49	412615	TURBINE/INTERMEDIATE BLDG PLATFORMS PROVIDE PLATFORMS AND PERMANENT LADDERS TO FW BAY VENTS & DRAINS, MS LINE VENTS, IND COOLERS, RMA-2 ISOL VALVE, ETC	10	ISM	
50	418750	SERV BLDG ADDITION-FOUND, STRUCT, TIE-IN INSTALL FOUNDATION, SUPERSTRUCTURE, AND PERFORM TIE-INS FOR THE ADDITION TO THE NORTH SIDE OF THE SERVICE BUILDING.	10	FAC	
51	518798	ROOFING REPAIRS 1994 REMOVE IF NECESSARY EXISTING ROOF & INSTALL NEW ROOFING SYSTEM ON THE LOWER AUXILIARY BLDG. (EL 331-0)	10	MRC	
52	418807	* PLANT PRESERVATION (BOP) PROGRAM 1994/1995 CAPITAL (NEVER BEFORE COATED) PORTION OF THE BOP PRESERVATION PROGRAM (APPROX 17% OF THE TOTAL PROGRAM).	10	GMC	
53	419669	TMI ROADS UPGRADE NORTH BRIDGE PAVING, LIBERTY LANE UPGRADE, RESTRIPIING, UNIT 2 RX HATCH IMPROVEMENT	10	FAC	
54	419689	* ROOF REPLACEMENTS REPLACE ROOF ON BLDG 36, WAREHOUSE 1, WAREHOUSE 3, AND DEWEY HOUSE.	10	FAC	

TMI-1 PROJECT LISTING

LEGEND

- * NEW PROJECTS
** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA				STATUS AS OF 02NOV92	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION	
55	419707	OUTAGE FABRICATION FACILITY DESIGN AND CONSTRUCT FACILITY TO SUPPORT FAB ACTIVITIES FOR PLANT MODS AND MAINT. TO REPLACE EXIST DELAPIDATED SHOPS.	10	GWC	
56	419723	* SECURITY EQUIPMENT - TMI REPLACE VARIOUS SECURITY EQUIPMENT	10	MRC	
57	123000	OTHER OUTAGE RELATED ACTIVITIES ALL OUTAGE RELATED ACTIVITIES SUCH AS INSPECTIONS, REPAIRS, SURVEILLANCES, MINOR MODIFICATIONS, MOD SUPPORT, ETC.	10R	ALL	
58	123294	RX REFUELING - 10R RB 76-80 FUEL ASSEMBLIES, LOAD FOR 525 OR MORE EFPD IF FEASIBLE. LOAD IS BEING REVIEWED	10R	MRC	
59	123315	REPL CRDM FLANGE GASKETS/BORON REM 10R INSPECT FOR BORON AND REPLACE UP TO 18 CRDM FLANGE GASKETS (35 REMAIN). RE- MOVE BORON DEPOSITS FROM HEAD AS REQ'D.	10R	MRC	
60	123316	MAIN CONDENSER PRESERVATION PROGRAM-10R TB DETAILED INSPECTION AND REPAIR OF MAIN CONDENSER COATING, REPLACEMENT OF 120 (MAX) ANODES AND EDDY CURRENT TEST	10R	MRC	
61	123319	RX BLDG PRESERVATION PROGRAM PRESERVATION IN THE REACTOR BUILDING. 1300 SQ FT OF IC & NS PIPE AND 10675 SQ FT OF STRUCTURE.	10R	MRC	

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

LEGEND

* NEW PROJECTS
 ** BA NUMBER CHANGE

----- N R C I N T E G R A T E D S C H E D U L E -----

CATEGORY 'C' PROJECTS

 SORT BY CATEGORY/CYCLE/BA

STATUS AS OF 02NOV92

OBS NUMBER	BA	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
62	4128148	EROSION/CORROSION PROGRAM AND INSPECTION	10R	MRC
63	412536	ESTABLISH THE LONG TERM CORP PROGRAM AND COORDINATE AUGMENTED INSPECTIONS TO DETECT E/C AT TMI-1. (GL 89-08)	10R	ISM
64	412570	DIGITAL INST AND CONTROL MOD	10R	ISM
65	412604	10R IS TO INTRODUCE FOXBORO I/A INTO THE PLANT. REPLACE SELECTED NMI IBC (MU AND SELECTED RCP & RCS). BALANCE IN 11R-13R	10R	ISM
66	412612	REPLACE GASEOUS CHLORINATION SYSTEM	10R	ISM
67	412622	RIP OUT OF CHLORINE LEAK DETECTION SYSTEM FROM THE CONTROL TOWER	10R	ISM
68	412623	CONTROL ROD REPLACEMENT - 10R	10R	ISM
		REPLACE 48 CONTROL RODS DURING REFUELLING	10R	ISM
		PERM DEMIN SYST IN PRLL W MISC WASTE EVA	10R	ISM
		TIE IN CONNECTION CAPABILITY REQUIRED TO BE DONE IN AN OUTAGE. BALANCE OF WORK TO BE DONE IN CYCL 10.	10R	ISM
		OTSG TUBE SLEEVING	10R	ISM
		SLEEVE APPROX. 125 TUBES PER OTSG IN THE LANE WEDGE REGION	10R	ISM
		FOXBORO TRANSMITTER REPLACEMENT	10R	ISM
		REPLACE 15 PRESSURE & DIFFERENTIAL PRESS TRANSMITTERS; 3 ARE ASSOC WITH ES, 8 W/ OTSG LEVEL INDIC AND CONTROL & 4 W/ RPS.	10R	ISM

TMI-1 PROJECT LISTING

LEGEND

- * NEW PROJECTS
- ** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA				STATUS AS OF 02NOV92	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION	
69	412626	UPGRADE SOURCE RANGE NUCLEAR INSTR (NI) CB AB INSTALL NEW AMPLIFIERS & SIGNAL PROCESSING UNITS, ROUTE CABLE - PHASE 1. PROJECT TO COMPLETE IN 11R.	10R	MRC	
70	412627	HSPS UPGRADES MODIFY HSPS BY ADDING SOLENOIDS, FUSES, POSITIONERS FOR FW AND MS VALVES. MOD- IFY FIRE BARRIER AND ADD COMPUTER ALARMS	10R	REL	
71	412629	MAIN & AUX F.B. VARBLE FREQ DRIVE SYS REPLACE THE EXISTING THYRISTOR DRIVE MOTOR CONTROL ON MAIN & AUX FUEL HANDLING BBIGDES W/ VARIABLE FREQUENCY SPEED SYS	10R	REL	
72	412633	* HPI PIPING UPGRADE MODIFY HPI PIPE SUPPORTS TO ADDRESS HIGH TEMP. EXPERIENCED DUE TO CHECK VLV BACK LEAKAGE. 33-41 SUPP MAY REQUIRE MODS.	10R	ISM	
73	412638	** HEATER DRAIN PIPING REPLACEMENT TB REPLACE ERODED HD PIPING (PARTIAL) WITH COMPONENTS MORE RESISTANT TO EROSION/CORROSION	10R	MRC	
74	412642	* ICCW FLOW IMPROVEMENT IMPROVE FLOW CAPACITY BY INSTALLING TWO REPLACEMENT PUMPS WITH HIGHER CAPACITY. NEW MOTORS AND POWER CABLE ARE INCLUDED.	10R	REL	
75	418800	RC-P CARTRIDGE SEAL CONVERSION KIT-10R RB INSPECT/REPLACE SEALS ON 2 RCPS WITH WESTINGHOUSE CARTRIDGE SEAL CONVERSION KITS AND MODIFY 2 ARTICULATED ARM ASSEMB	10R	MRC	

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

LEGEND

- * NEW PROJECTS
- ** BA NUMBER CHANGE

----- N R C I N T E G R A T E D S C H E D U L E -----

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA

STATUS AS OF 02NOV92

OBS NUMBER	BA	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
76	412ACU	RADWASTE STORAGE CAPABIL PHASE 2 PROCURE EQUIP & CONSTRUCT STORAGE FACILITY FOR LLRW STORAGE 1EN 90-09 GL 81-38	11	NRR
77	418812	* ROOF REPAIRS - 1996 REMOVE, REPAIR AND INSTALL ROOFING	11	MRC
78	419723	* SECURITY EQUIPMENT - TMI REPLACE VARIOUS SECURITY EQUIPMENT	11	MRC
79	419728	* RENOVATE BLDG 222 RENOVATE BLDG EXTERIOR, REMODEL INTERIOR, REFURBISH ELECTRICAL, INSTALL CENTRAL HVAC & HOOK UP DOMESTIC WATER	11	GMC
80	41994C	* REPLACE BUILDING 400 DEMOLISH EXISTING CONNECTED TRAILERS AND COMMON ROOF. CONSTRUCT A NEW BLDG FOR SECURITY, GET, ARMT AND OUTAGE PROCESSING	11	FAC
81	123GGG	OTHER OUTAGE RELATED ACTIVITIES ALL OUTAGE RELATED ACTIVITIES SUCH AS INSPECTIONS, REPAIRS, SURVEILLANCES, MINOR MODIFICATIONS, MOD SUPPORT, ETC.	11R	ALL
82	123329	* REACTOR REFUELING - 11R RB APPROX 68 NEW FUEL ASSEMBLIES FOR 65L FFPD	11R	MRC

TMI-1 PROJECT LISTING

LEGEND

- * NEW PROJECTS
- ** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA				STATUS AS OF 02NOV92	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION	
83	123330	** RX BUILDING PRESERVATION RB PRESERVATION OF THE REACTOR BUILDING	11R	MRC	
84	123331	* CRDM FLANGE GASKET REPLACEMENT REPLACE 17 CRDM FLANGE GASKETS	11R	MPC	
85	123335	* REPLACE MAIN STEAM LINE INSULATION REPLACE DEGRADING INSULATION ON MAIN STEAM LINE	11R	MRC	
86	128ADS	** EROSION\CORROS PROGRAM FOR TMI ALL AUGMENTED INSPECTIONS TO DETECT EROSION/DEGRADATION OF TMI SYSTEMS	11R	NRR	
87	412AGW	* EROSION/CORROSION PIPE REPLACEMENT 11R SCOPE, IF ANY, IS DEPENDENT UPON 10R INSPECTION RESULTS.	11R	MRC	
88	412AHB	* MCV MODS REPLACE ACTUATORS ON MFW & MFW START-UP BLOCK VALVE FW-V-5A/B & 92A/B IF REQ'D.	11R	NRR	
89	412536	DIGITAL INST & CONT MOD 11R (PHASE1) IS THE FOXBORO I/A INTER- FACE WITH THE DIGITAL TURBINE CONTROL SYSTEM (DTCS) - 412609	11R	ISM	

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

LEGEND

* NEW PROJECTS
** BA NUMBER CHANGE

----- N R C I N T E G R A T E D S C H E D U L E -----

CATEGORY 'C' PROJECTS

3001 BY CATEGORY/CYCLE/BA

STATUS AS OF 02NOV92

OBS NUMBER	BA	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
90	412608	OPTIONS TO REDUCE IRON TRANSPORT TO OTSG REVIEW SECONDARY SYSTEM CHEM HISTORY & INDUSTRY PRACTICES, RECOMMEND CORRECTIVE ACTIONS TO MINIMIZE OTSG CRUD	11R	MRC
91	412609	DIGITAL TURBINE CONTROL SYSTEM (DTCS) UPGRADE MAIN TURBINE ENC ELECTRONICS WITH DIGITAL CONTROL SYSTEM TO IMPROVE RELIABILITY OF TURBINE CONTROLS	11R	REL
92	412626	* UPGRADE SOURCE RANGE NUCLEAR INSTR (NI) CB REMOVE BF-3 DETECTORS FROM NI-1,2; ADD ADDITIONAL FISSION CHAMBERS FOR NI-11A, 12A CHANNELS; ROUTE CABLE. (PHASE 2)	11R	MRC
93	412644	* REPLACE INVERTERS REPLACE 15KVA BUS INVERTERS 1A-1E. MODI- FY CABLES AS NECESSARY. PHASE 1 IS TO DETERMINE MOST ECONOMIC SOLUTION.	11R	MRC
94	123ABD	* REACTOR REFUELLING LOAD FUEL ASSEMBLIES FOR 600 EFPD	12R	MRC
95	123ABG	* RB PRESERVATION PRESERVATION OF THE RB IN VARIOUS AREAS.	12R	MRC
96	126ADS	* EROSION/CORROSION INSPECTION AUGMENTED INSPECTIONS TO DETECT EROSION/ CORROSION DEGRADATION OF SINGLE AND TWO PHASE SYSTEMS	12R	MRC

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

LEGEND

* NEW PROJECTS
** BA NUMBER CHANGE

----- N R C I N T E G R A T E D S C H E D U L E -----

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA

STATUS AS OF 02NOV92

OBS NUMBER	BA	DESCRIPTION	CYCL./ YEARS	CLASSIFICATION
97	412536	* DIGITAL INST & CONT MOD 12R (PHASE III) COMPLETES REPLACEMENT OF NNI HARDWARE WITH THE FOXBORO DIGITAL HARDWARE	12R	ISM
98	412536	* DIGITAL INST & CONT MOD 13R (PHASE IV) WILL REPLACE THE EXISTING ICS WITH THE NEW ACS HARDWARE. 13R IS EARLIEST THIS PHASE WOULD BE INSTALLED.	13R	ISM
99	128114	EPRI STEAM GENERATOR RELIABILITY PROGRAM CO-FUNDING FOR EPRI SCRP TASK 404.	28-94	MRC
100	123262	RELIABILITY CENTERED MAINTENANCE PROG RCM EVALUATION OF PLANT SYSTEMS TO DEFINE MAINT. ACTIVITIES THAT IMPROVE RELIABILITY.	89-94	MRC
101	126223	TMI APPENDIX VIII QUALIFICATION TO PAY FOR UPGRADED TRAINING & TESTING PROGRAMS DEVEL BY CONTRACTOR FOR QUAL & CERT OF UT NDE INSPECTORS PER APP VIII	91-97	MRR
102	126220	EVALUATION OF WAREHOUSE STOCK - TMI PERF EVAL CONCERN MIX SAFETY CLASS. NO CLASS ON OLD QA TAGS & MAT'S INVENT. GREENS. TO SUPP. COMM GRADE DED.	91/92	IOE
103	128151	CAVITY DOSIMETRY ANALYSIS SHIP IRRADIATED CAVITY DOSIMETRY REMOVED IN 9R AND ANALYZE	91/92	MRR

TMI-1 PROJECT LISTING

LEGEND

* NEW PROJECTS
** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA			STATUS AS OF 02NOV92	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
104	412591	1991 CONFIGURATION MANAGEMENT - DBR DESIGN BASIS RECONSTITUTION 1991	91/92	IOE
105	126237	OPERATOR TRAINING ANALYSIS CONDUCT ANALYSIS OF AO,CRO,SF/SS POSITIONS REFERENCE: NUREG 1122	92	NRR
106	128161	1992 TMI-1 CONFIG. MANAGMNT - SSFI PERFORM ONE (1) SAFETY SYSTEM FUNCTIONAL INSPECTION (SSFI). PREP DRAFT DESIGN BASIS DOCUMENT(IF REQUIRED).	92	ISM
107	418755	RC-P SEAL CARTRIDGE TEST EQPT. PURCHASE CARTRIDGE SEAL TESTER	92	REL
108	419232	SIMULATOR ENHANCEMENTS - TMI (1992) UPGRADE THE PLANT-REFERENCED SIMULATOR IN ORDER TO IMPROVE ITS RELIABILITY AND SCOPE OF SIMULATION CAPABILITIES.	92	REL
109	128173	** GUIDELINES FOR ABNORMAL TRANSIENT PROC DEVELOP PLANT SPEC GUIDE (PSG) FOR TMI-1 ATP PROVIDING TECH BASES FOR ATP'S TO BE USED IN TRAINING, EVAL PROC CHANGES,ETC.	92-93	IOE
110	128166	COMPONENT DATA BASE EXPANSION ENHANCE THE EXISTING ENG DATA BASE WITH SUBCOMPONENTS TO MEET THE NEEDS OF PLANT MAINT & OPERATIONS ORGANIZATIONS.	92-94	IOE

TMI-1 PROJECT LISTING

LEGEND

- * NEW PROJECTS
- ** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA			STATUS AS OF 02NOV92	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
111	128174	* REPLACEMENT OF OZONE DEPLETING CHEMICALS RECHARGE EQUIPMENT THAT IS COMPATIBLE WITH REPLACEMENT CHEMICALS DUE TO PHASE OUT OF OZONE DEPLETING CHEMICALS	92-94	MRC
112	412645	* CFC ELIMINATION MODIFY/REPLACE EQUIPMENT TO BE COMPATIBLE WITH REPLACEMENT CHEMICALS AS REQUIRED.	92-94	MRC
113	412643	* FLOOD PANELS DEVELOP PLAN TO RESOLVE THE OUTSTANDING PRA ISSUE REGARDING FLOODING. ALSO IM- PLEMENT MODS DEEMED APPROPRIATE.	92-95	ISM
114	128163	DRAWING ENHANCEMENTS TMI 1. ENHANCE THE LEGIBILITY OF APPR 50: DWGS. 2. REDRAW FLOW DIAG. IN CAD FOR 3. REDRAW GEN ARRANG IN CAD FORMAT	92-97	MRC
115	412592	1992 CONFIGURATION MANAGEMENT - DBR DESIGN BASIS RECONSTITUTION 1992	92-98	IOE
116	128160	B&W OWNER'S GROUP PROGRAM - 1992/93 PARTICIPATION IN B&W OWNERS GROUP PROGRAM	92/93	MRC
117	412634	* TMI-1 RCP MOTOR STANDBY STATOR AND ROTOR SPECIFY AND PROCURE A SPARE STATOR AND ROTOR SUITABLE FOR ANY RCP MOTOR. NO PROCUREMENT FUNDING-ENGINEERING ONLY.	92/94	MRC

TMI-1 PROJECT LISTING

LEGEND

- * NEW PROJECTS
- ** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA			STATUS AS OF 02NOV92	
OBS	BA NUMB.	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
118	412631	** PRESSURIZER HEATER BUNDLE REPLACEMENT DEVELOP A PROCUREMENT SPEC TO DESCRIBE THE ELEC AND MECH REQUIREMENTS FOR A NEW BUNDLE. PURCHASE IN '94/'95.	92/95	MRC
119	126109	* BWOG GLRA PROGRAM PARTICIPATE IN AND PROVIDE SUPPORT FOR THE BWOG GENERIC LICENSE RENEWAL APPLICATION (GLRA) PROGRAM	93	MRC
120	12693A	EVAL OF TMI ALERT & NOTIFICATION SYSTEM EVALUATE SYSTEM SIRENS USING LATEST DEMOGRAPHIC & TOPOGRAPHIC INFO TO INSURE STILL MEETING FEMA RECMNTS	93	NRR
121	412AHE	* CAVITY SEAL PLATE INSTALLATION TO SPECIFY, PROCURE AND INSTALL A PERM SEAL PLATE TO REPLACE THE CURRENT REMOV- ABLE DEVICE. COST/BENEFIT ANAL INCLUDED	93-95	GWC
122	412618	ACCIDENT MANAGEMENT GUIDELINES(AMG) USING IPE OUTPUT, DEVEL AMG FOR USE BY EMERG RESPONSE PERSONNEL TO COPE WITH CORE DAMAGE EVENTS	93-95	NRR
123	412624	CJRE MONITORING SYSTEM UPGRADE INSTALL NEW FIXED MARGIN TS SFTWARE THAT WHEN USED WITH EXISTING NAS WILL PROVIDE ADDED OPERATING SAFETY MARGIN	93-96	ISM
124	128173	* CAVITY DOSIMETRY ANALYSIS REPLACE A & B CAPSUL HOLDERS WITH NEW DOSIMETRY DURING TOR, TRANSPORT, ANALYSIS AND REPORT OF RESULTS OF TESTING	93/94	NRR

TMI-1 PROJECT LISTING

LEGEND

* NEW PROJECTS
 ** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA				STATUS AS OF 02NOV92	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION	
125	122031	DEMOBILIZATION SOUTH OF THE DIKE DISPOSITION OF EQUIPMENT, MATERIAL, BUILDINGS AND FACILITIES IN TMI-2	94	GWC	
126	126940	MAINTENANCE TRAINING ANALYSIS DEVELOP TASK ANALYSIS FOR I&C, ELECTRICAL AND MECHANICAL INPO ACCREDITED PROG	94	NRR	
127	412619	* CPU/IPU UPGRADE FOR PLAK* PROCESS COMPUT UPGRADE PLANT PROCESS COMPUTERS CPU AND IPU BOARDS (18) WITH A SINGLE BOARD.	94	IOE	
128	412552	SQUG MODS ALJ MODIFICATIONS TO COMPLY WITH SEISMIC QUALIFICATIONS. SCOPE TO BE FINALIZED AFTER 31-A-46 W/LKDOWN (REF BA 128108)	94-95	NRR	
129	412AHK	* ASSMNT & UPGRD OF UNDRGRND TANKS/PIPING I-ASSESS APPLIC TANK/PIPE SYS. II-INIT TEST & MONITORING. III-UPGRADE AS REQD.	94-96	ERR	
130	128ADX	* B&W OWNER'S GROUP 1994/1997 PARTICIPATION IN B&W OWNERS GROUP PROGRAM	94-97	ERR	
131	126101	PLANT LIFE ASSURANCE/EXTENSION SUPPORT OF STUDIES BY GPUN & BWOG FOR FEASIBILITY OF EXTENDING OPERATING LIFE.	94/95	REL	

TMI-1 PROJECT LISTING

LEGEND

- * NEW PROJECTS
- ** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'C' PROJECTS

STATUS AS OF 02NOV92

SORT BY CATEGORY/CYCLE/BA				
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
132	412AEG	FUEL UT EQUIPMENT FOR REACTOR BLDG DEVELOP, DESIGN AND PROCURE UT TESTING EQUIPMENT TO INSPECT FUEL ASSYS FOR DEF- ECTIVE FUEL RODS IN THE REACTOR BUILDING	94/95	REL
133	412AHJ	* RCS RESISTANCE TEMPERATURE DETECTORS REPLACE EXISTING ROSEMONT RTDS WITH QUAL WEED RTDS AND MODIFY WELLS TO ELIM LEAK- AGE.	94/95	MRC
134	128ADW	* REACTOR CAVITY DOSIMTRY - 11R SHIP IRRADIATED CAVITY DOSIMETRY REMOVED IN 11R AND ANALYZE	95/96	NRR
135	128ADV	* 1996 CONFIG MGMT SSFI PERFORM ONE SAFETY SYSTEM FUNCTIONAL INSPECTION. PREPARE DRAFT DESIGN BASIS DOCUMENT IF REQUIRED.	96	ISM
136	41996C	* SIMULATOR ENHANCEMENTS UPGRADE THE PLANT REFERENCED SIMULATOR TO IMPROVE RELIABILITY AND SCOPE OF SIM- ULATOR CAPABILITIES	96	REL

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 would 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 would result in a regulatory non-compliance even though the specific activity is not required by an environmental regulatory agency.
- c) Meet Other Requirements (ORR) - 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 would 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 and 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.

ABC Classifications
(continued)

- 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.

ATTACHMENT B
CHANGES TO TMI-1 NUCLEAR GENERATING STATION
INTEGRATED SCHEDULE
SEMIANNUAL UPDATE (NOVEMBER 4, 1992)

CATEGORY A PROJECTS

Additions:	None
Completions:	None
Deletions:	None
Schedule Changes:	None

ATTACHMENT B (continued)
CATEGORY B PROJECTS

Additions: As denoted by * next to the project title in Attachment A.

Completions: None

Deletions: 123287 Main Steam Test - based on ASME Code changes, this hydro is no longer required.

Schedule Charges: 128108 TF Seismic Qualification of Equipment
This schedule was changed to be consistent with IPEEE walkdowns. Walkdowns are now scheduled to be done in Outage 10R and Operating Cycle 10. Completion and submittal will be by May 22, 1995. The schedule for SQUG was transmitted via memo C311-29-2119 dated October 21, 1992.

412617 TMI IPE External Events - This schedule was reassessed and revised to support completion and submittal of the TMI-1 IPEEE by December 20, 1994. This schedule was transmitted via memo C311-92-2107 dated September 2, 1992.

Other Changes: Based on budget reforecast, BA 41994H - Simulator Modifications was changed from years 1994-1995 to 1994 only. BA 41995G will cover 1995 expenditures. This change does not effect the project schedule.

BA 128155 - Solenoid Valve/Limit Switch Upgrade - was scheduled for Cycle 9 and Cycle 10R. The Cycle has been changed to 10R only based on the intent to complete the operating cycle work during the rampup to 10R. This change does not effect the completion schedule for this project.

Budget Activity (BA) Number Changes

The following BA numbers have been changed. There is no change in scope or schedule associated with these changes. BAs which have had their numbers changed are indicated by a ** in Attachment A.

OBS	<u>Previous BA Number</u>	<u>New BA</u>
2	1232YX Reactor Building Tendon Surveillance	123321
11	123B11 OTSG Tube Plugging	123328
13	126K11 TMI Inservice Inspection	12694H

ATTACHMENT B (continued)
CATEGORY C PROJECTS

Additions: As denoted by * next to the project title in Attachment A.

Completions: 128128 OTSG Chemical Cleaning
128148 Cycle 9 Erosion/Corrosion Program
412AFP IB Vent Upgrade (Study)
419633 Upgrade Domestic Water System

Deletions: 122026 Component Spare Parts Bill of Materials
412AEA Additional Multiplexers
412AGD Turbine Supervisory Instrumentation

BA Number Changes:	<u>OBS</u>	<u>Previous BA Number</u>	<u>New BA</u>
73	412AEY	Heater Drain Pipe Replace	412638
83	123J11	Rx Bldg Preservation	123330
86	128A11	Erosion Corrosion Program	128ADS
109	128ACS	Guidelines for Abnormal Transient Procedures	128170
118	412AGJ	Pressurizer Heater Bundle Replacement	412631