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May 6, 1993
C000-93-2087
C311-93-2053

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

Dear Sir:

Subject: Three Mile Island Nuclear Station, Unit 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. C311-92-2135, dated November 9, 1992. An abstract of the attachment follows:

1. Attachment A - A new project listing of Category A, B, and C projects annotated by an asterisk (*) to identify new projects and 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.

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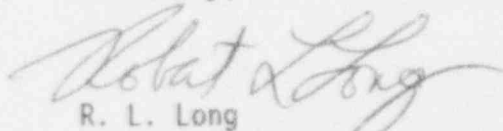
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2. Attachment B - A summary listing of Category A and B projects which have been completed, deferred, changed in scope, or otherwise changed with explanations, as appropriate. The listing also contains Category C project completions. Changes to the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

Five (5) additions to the list of Category B projects have been made by this submittal. 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
Services & TMI-2 Divisions

RLL/GMG/plp

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

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 A

TMI-1 PROJECT LISTING
INTEGRATED SCHEDULE
SEMI-ANNUAL UPDATE

(MAY, 1993)

TMI-1 PROJECT LISTING

LEGEND

- * NEW PROJECTS
- ** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'A' PROJECTS

SORT BY CATEGORY/CYCLE/BA

STATUS AS OF 03MAY93

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

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 03MAY93	
OBS	BA NUMBER	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-A46 ; GL 87-02	10	NRR
4	123289	ILRT - 10R RB INTEGRATED LEAK RATE TEST OF CONTAINMENT - 1993. REF. TS 4.4.1.1	10R	NRR
5	123290	OTSG 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	OTSG 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 50.55A	10R	NRR
8	128108	TF SEISMIC QUAL OF EQUIPMENT (SQUG) WALKDOWNS FOR SQUG WHICH MUST BE DONE DURING AN OUTAGE REF. USI-A46 ; GL 87-02	10R	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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION	
9	128148	* EROSION/CORROSION PROGRAM AND INSPECTION ESTABLISH THE LONG TERM CORP PROGRAM AND COORDINATE AUGMENTED INSPECTIONS TO DE- TECT E/C AT TMI-1. (GL 89-08)	10R	MRC	
10	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	
11	128176	* 1ST CHECK VALVE NON-INTRUSIVE TESTING EVAL OPTIONS FOR NON-INTRUSIVE TEST OF CHK VLVS CF-V4A/B, 5A/B, MU-94,95,86A/B & 220 TO MEET ASME SEC.XI & GL 89-04	10R	NRR	
12	412611	REPLACE EIM MOTOR ACTUATORS REPLACE EIM MOTOR ACTUATORS WITH LIM- TORQUE MOTOR ACTUATORS FOR 4 VALVES TO PROVIDE TEST CAPABILITIES PER GL 89-10.	10R	NRR	
13	123328	OTSG TUBE PLUGGING RB PLUG OTSG TUBES AS NECESSARY. REF. TS 4.19	11R	NRR	
14	12694G	OTSG EDDY CURRENT TESTING RB ECT OF SAMPLE INSPECTION GROUP, 3% PER OTSG TECH SPEC INSPECTION REF. TS 4.19	11R	NRR	
15	12694H	TMI INSERVICE INSPECTION ALL ASME SECTION XI INSPECTIONS; AUGMENTED ISI TO COMPLY WITH 10CFR50.55A	11R	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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION	
16	128ADS	* EROSION\CORROS PROGRAM FOR TMI ALL AUGMENTED INSPECTIONS TO DETECT EROSION/DEGRADATION OF TMI SYSTEMS REF GL 89-08	11R	NRR	
17	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	
18	123334	* ILRT INTEGRATED REACTOR BUILDING LEAK RATE TEST	12R	NRR	
19	12696B	ISI INSPECTIONS (12R) ASME SECT XI INSPECTIONS; AUGMENTED ISI TO COMPLY WITH 10CFR50.55A	12R	NRR	
20	12696C	OTSG EDDY CURRENT TESTING ECT OF SAMPLE INSPECTION GROUP. 3% PER OTSG PER T.S. 4.19	12R	NRR	
21	128ADS	* EROSION/CORROSION INSPECTION AUGMENTED INSPECTIONS TO DETECT EROSION/ CORROSION DEGRADATION OF SINGLE AND TWO PHASE SYSTEMS. REF. GL 89-08	12R	NRR	
22	128097	SQUG USERS GROUP PROGRAM SEISMIC QUALIFICATION UTILITY GROUP PARTICIPATION REF. USI-A46 ; GL 87-10	88-93	NRR	

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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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
23	412596	TMI-1 INDIVIDUAL PLANT EVALUATION INDUSTRY DEGRADED CORE ACTIVITIES & PLANT SPECIFIC NRC SUBMITTAL. (REF LAI 89-9250)	89-93	NRR
24	128152	MOV PROGRAM DEVELOP & IMPLEMENT MOV PROGRAM TO MEET GL 89-10. REF. MEMO C311-90-3132, C311-89-2117	90-94	NRR
25	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
26	419255	SIMULATOR MODIFICATIONS - TMI (1993) UPGRADE SIMULATOR CONSISTENT WITH CONTROL ROOM MODIFICATIONS. REF RG 1.149, ANS 3.5	93	NRR
27	41994H	SIMULATOR MODIFICATIONS - TMI (1994) UPGRADE SIMULATOR CONSISTENT WITH CONTROL ROOM MODIFICATIONS. REF. RG 1.149, ANS 3.5	94	NRR
28	41995G	SIMULATOR MODIFICATIONS UPGRADE SIMULATOR CONSISTENT WITH CNTRL ROOM MODS REF. RG 1.149, ANS 3.5	95	NRR
29	41996D	SIMULATOR MODIFICATIONS UPGRADE SIMULATOR CONSISTENT WITH CONTRL ROOM MODIFICATIONS REF. RG 1.149, ANS 3.5	96	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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
30	41997C	SIMULATOR MODIFICATIONS	97	NRR
		UPGRADES TO THE SIMULATOR TO BE CONSIST- ENT WITH CONTROL ROOM MODS REF. RG 1.149, ANS 3.5		

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* NEW PROJECTS
 ** BA NUMBER CHANGE

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CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA				STATUS AS OF 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION	
31	225012	* PDMS ELECTRICAL MODS SIMPLIFY AND DOWNSIZE TMI-2 ELECTRICAL SYSTEM FOR PDMS	09	IOE	
32	412577	ADD'L TURB. BLDG. & INT. BLDG. PLATFORMS DESIGN, PROCURE, AND INSTALL PERMANENT MAINTENANCE PLATFORMS IN TURBINE BLDG AND THE BWST TUNNEL	09	ISM	
33	412625	FOXBORO RECORDER REPLACEMENT REPLACE 11 FOXBORO RECORDERS WITH UNITS THAT ARE MORE RELIABLE AND EASIER TO MAINTAIN	09	MRC	
34	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	GWC	
35	418766	TMI-1 LIGHTING ENHANCEMENT IMPROVE THE SECURITY LIGHTING AROUND THE TMI-1 MAIN PLANT AREA AND INSTALL LIGHT- ING @ THE CHEMICAL CLEANING PITS.	09	NRR	
36	418794	PLANT PRESERVATION - BOP (CAPITAL) TB IB SCAFFOLD, SURFACE PREP, PAINTING,CLEANUP OF WALLS, PRETREATMENT BLDG.	09	MRC	
37	418801	IMPROVE PLANT PAGE SYSTEM REPLACE APPROX. 24 HANDSETS,INSTALL 24 NOISE MONITORS, INSTALL PHONE INTERFACE UNIT IN NOB, OTHER RELATED ITEMS	09	REL	

TMI-1 PROJECT LISTING

LEGEND

* NEW PROJECTS
** BA NUMBER CHANGE

NRC INTEGRATED SCHEDULE

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA			STATUS AS OF 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
38	418803	TMI-2 LIGHTING ENHANCEMENT IMPROVE THE SECURITY LIGHTING AROUND THE TMI-2 MAIN PLANT AREA.	09	NRR
39	418807	PLANT PRESERVATION (BOP) PROGRAM 1993 PORTION: APPROX 13,850 SQ FT, INCLUD TB WALLS (9000 SQ FT), PRETREAT BLDG FLOORS (4850 SQ FT)	09	MRC
40	419710	UNIT 2 ADMIN BLDG ENGINEERING STUDY, VENTILATION AND HVAC MODIFICATIONS	09	FAC
41	419724	REMODEL & CONSTRUCT ADDITION-BLDG 43 PROVIDE FOR MAINT TRAINING LABS IN EXISTING STRUCTURES.	09	FAC
42	419735	* SECURITY EQUIPMENT - TMI PROC. & INSTALL PIDS PIC SYSTEM; REPL SLID GATE OPERATORS, CCTV CAMERA & MONITORS, RADIOS, PROCURE PORTABLE GUARD HOUSE	09	MRC
43	419737	* TMI SECURITY ENHANCEMENTS AS A RESULT OF THE INTRUDER EVENT AT TMI VARIOUS DETECTORS, BARRIERS, ETC. WILL BE INSTALLED.	09	ISM
44	419737	* TMI SECURITY VIDEO ENHANCEMENTS AS A RESULT OF THE INTRUDER EVENT AT TMI VARIOUS DETECTORS, BARRIERS, ETC. WILL BE INSTALLED.	09	ISM

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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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
45	412577	ADD'L TURB. BLDG. & INT. BLDG. PLATFORMS DESIGN, PROCURE, AND INSTALL PERMANENT MAINTENANCE PLATFORMS IN THE TURB. BLDG. AND THE BWST TUNNEL	10	ISM
46	412605	RMS EFFLUENT QUANTIFICATION ROUTE CABLES FROM CR READOUT PANELS AND AUXILIARY BUILDING TO THE PLANT PROCESS COMPUTER IN THE CR.	10	REL
47	412612	PERM DEMIN SYST IN PRLL W MISC WASTE EVA INSTALL PERMANENT 30-60 GPM DEMINERALIZE R SYSTEM IN PARALLEL WITH THE RADWASTE MISC WASTE EVAPORATOR	10	IOE
48	412615	TURBINE/INTERMEDIATE BLDG PLATFORMS PROVIDE PLATFORMS AND PERMANENT LADDERS IN VARIOUS AREAS, SCOPE YET TO BE FINALIZED	10	ISM
49	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	10	FAC
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	418798	ROOFING REPLACEMENT 1994 REMOVE IF NECESSARY EXISTING ROOF & INSTALL NEW ROOFING SYSTEM ON THE LOWER AUXILIARY BLDG.(EL 331-0)	10	MRC

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- * 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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION	
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	MRC	
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	
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	419727	* CONSTRUCT STORAGE FACILITY PROVIDE FACILITIES FOR IS TELEPHONE PERSONNEL, WASTE MANAGEMENT & OTHER DIVISIONS	10	GWC	
57	419735	** SECURITY EQUIPMENT - TMI REPLACE VARIOUS SECURITY EQUIPMENT	10	MRC	
58	995100	* MOBILE XFMR ON SITE STORAGE GPU SYSTEM MOBILE GENERATOR STEP UP (GSU) TO BE STORED AT TMI SITE. OIL SPILL CON- TAINMENT AND ELEC WORK REQUIRED.	10	GWC	

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* 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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
59	123000	OTHER OUTAGE RELATED ACTIVITIES ALL OUTAGE RELATED ACTIVITIES SUCH AS INSPECTIONS, REPAIRS, SURVEILLANCES, MINOR MODIFICATIONS, MOD SUPPORT, ETC.	10R	ALL
60	123294	RX REFUELING - 10R RB 76-80 FUEL ASSEMBLIES, LOAD FOR 650 EFPD. REVIEWED	10R	MRC
61	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
62	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
63	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
64	412536	DIGITAL INST AND CONTROL MOD 10R IS TO INTRODUCE FOXBORO I/A INTO THE PLANT. REPLACE SELECTED NNI I&C FUNCTIONS. BALANCE IN 11R-13R	10R	ISM
65	412552	* MODIFICATIONS FOR SEISMIC QUALIFICATION ALL MODIFICATIONS TO COMPLY WITH SEISMIC QUALIFICATIONS. SCOPE TO BE FINALIZED AFTER USI-A-46 W/LKDOWN (REF BA 128108)	10R	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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION	
66	412570	REPLACE GASEOUS CHLORINATION SYSTEM RIP OUT OF CHLORINE LEAK DETECTION SYSTEM FROM THE CONTROL TOWER	10R	ISM	
67	412604	CONTROL ROD REPLACEMENT - 10R RB REPLACE 48 CONTROL RODS DURING REFUELING	10R	MRC	
68	412612	PERM DEMIN SYST IN PRLL W MISC WASTE EVA TIE IN CONNECTION CAPABILITY REQUIRED TO BE DONE IN AN OUTAGE, BALANCE OF WORK TO BE DONE IN CYCLE 10.	10R	IOE	
69	412622	OTSG TUBE SLEEVING RB SLEEVE APPROX. 125 TUBES PER OTSG IN THE LANE WEDGE REGION	10R	REL	
70	412623	FOXBORO TRANSMITTER REPLACEMENT RB REPLACE 15 PRESSURE & DIFFERENTIAL PRESS TRANSMITTERS; 3 ARE ASSOC WITH ES, 8 W/ OTSG LEVEL INDIC AND CONTROL & 4 W/ RPS.	10R	NRR	
71	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	
72	412627	HSPS UPGRADES ADD SOLENOIDS, FUSES, POSITIONERS FOR FW & MS VLVS, STATUS LGTS FOR MSV 13A&B, MODIFY FIRE BARRIER AND ADD COMPUTER ALARMS	10R	REL	

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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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
73	412629	MAIN F.B. VARBLE FREQ DRIVE SYS REPLACE THE EXISTING THYRISTOR DRIVE MOTOR CONTROL ON MAIN FUEL HANDLNG BBIGDE W/ VARIABLE FREQUENCY SPEED SYS	10R	REL
74	412633	HPI PIPING UPGRADE MODIFY HPI PIPE SUPPORTS TO ADDRESS HIGH TEMP. EXPERIENCED DUE TO CHECK VLV BACK LEAKAGE. 31 SUPPORTS MAY REQUIRE MODS.	10R	ISM
75	412638	HEATER DRAIN PIPING REPLACEMENT TB REPLACE ERODED HD PIPING (PARTIAL) WITH COMPONENTS MORE RESISTANT TO EROSION/CORROSION	10R	MRC
76	412642	ICCW FLOW IMPROVEMENT REPLACE CHECK VALVES AT ICCW PUMPS WITH SMALLER VALVES.	10R	REL
77	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
78	412648	** RADWASTE STORAGE CAPABIL PHASE 2 PROCURE EQUIP & CONSTRUCT STORAGE FACILITY FOR LLRW STORAGE IEN 90-09 GL 81-38	11	NRR
79	418ABJ	* CONTROL TOWER 4TH FLOOR REMOD REMODEL CONTROL TOWER FOURTH FLOOR SCOPE TO BE DETERMINED	11	GWC

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

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* NEW PROJECTS
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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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION	
80	418812	ROOF REPAIRS - 1996 REMOVE, REPAIR AND INSTALL ROOFING	11	MRC	
81	419728	RENOVATE BLDG 222 RENOVATE BLDG EXTERIOR, REMODEL INTERIOR, REFURBISH ELECTRICAL, INSTALL CENTRAL HVAC & HOOK UP DOMESTIC WATER	11	GWC	
82	419735	** SECURITY EQUIPMENT - TMI REPLACE VARIOUS SECURITY EQUIPMENT	11	MRC	
83	41994C	REPLACE BUILDING 400 DEMOLISH EXISTING CONNECTED TRAILERS AND COMMON ROOF. CONSTRUCT A NEW BLDG FOR SECURITY, GET, ARWT AND OUTAGE PROCESSNG	11	FAC	
84	123GGG	OTHER OUTAGE RELATED ACTIVITIES ALL OUTAGE RELATED ACTIVITIES SUCH AS INSPECTIONS, REPAIRS, SURVEILLANCES, MINOR MODIFICATIONS, MOD SUPPORT, ETC.	11R	ALL	
85	123329	REACTOR REFUELING - 11R RB APPROX 68 NEW FUEL ASSEMBLIES FOR 650 EFPD	11R	MRC	
86	123330	RX BUILDING PRESERVATION RB PRESERVATION OF THE REACTOR BUILDING	11R	MRC	

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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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
87	123331	CRDM FLANGE GASKET REPLACEMENT REPLACE 17 CRDM FLANGE GASKETS	11R	MRC
88	123335	REPLACE MAIN STEAM LINE INSULATION REPLACE DEGRADING INSULATION ON MAIN STEAM LINE	11R	MRC
89	412AGW	EROSION/CORROSION PIPE REPLACEMENT 11R SCOPE, IF ANY, IS DEPENDENT UPON 10R INSPECTION RESULTS.	11R	MRC
90	412536	DIGITAL INST & CONT MOD PHASE II IS THE FOXBORO I/A INTERFACE WITH DTCS (BA 412609), CRT CONTROL OF SELECTED MU & RCP FUNCTIONS.	11R	ISM
91	412552	MODIFICATIONS FOR SEISMIC QUALIFICATION ALL MODIFICATIONS TO COMPLY WITH SEISMIC QUALIFICATIONS. SCOPE TO BE FINALIZED AFTER USI-A-46 W/LKDOWN (REF BA 128108)	11R	NRR
92	412608	OPTIONS TO REDUCE IRON TRANSPORT TO OTSG REVIEW SECONDARY SYSTEM CHEM HISTORY & INDUSTRY PRACTICES, RECOMMEND CORRECTIVE ACTIONS TO MINIMIZE OTSG CRUD	11R	MRC
93	412609	DIGITAL TURBINE CONTROL SYSTEM (DTCS) UPGRADE MAIN TURBINE EHC ELECTRONICS WITH DIGITAL CONTROL SYSTEM TO IMPROVE RELIABILITY OF TURBINE CONTROLS	11R	REL

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- * 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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
94	412626	UPGRADE SOURCE RANGE NUCLEAR INSTR (N1) CB RB REMOVE BF-3 DETECTORS FROM N1-1,2;ADD ADDITIONAL FISSION CHAMBERS FOR N1-11A, 12A CHANNELS; ROUTE CABLE. (PHASE 2)	11R	MRC
95	412644	REPLACE INVERTERS REPLACE 385 15KVA INVERTERS. MODIFY CABLES AS NECESSARY. PHASE 1 IS TO DETERMINE MOST ECONOMIC SOLUTION.	11R	MRC
96	412646	** MOV MODS REPLACE OR MODIFY ACTUATORS AS REQUIRED DUE TO GL 89-10 PROGRAM	11R	NRR
97	418808	* RCP SEAL INSPECTION (4 CARTRIDGE KITS) INSPECT/REPLACE SEALS ON RCP INCLUDING CARTRIDGE SEALS AND #1 SEALS	11R	MRC
98	123ABD	REACTOR REFUELING LOAD FUEL ASSEMBLIES FOR 600 EFPD	12R	MRC
99	123ABG	RB PRESERVATION PRESERVATION OF THE RB IN VARIOUS AREAS.	12R	MRC
100	123LLL	* OTHER OUTAGE RELATED ACTIVITIES ALL OUTAGE RELATED ACTIVITIES SUCH AS INSPECTIONS, REPAIRS, SURVEILLANCES MINOR MODIFICATIONS, MOD SUPPORT, ETC.	12R	ALL

TMI-1 PROJECT LISTING

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* NEW PROJECTS
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NRC INTEGRATED SCHEDULE

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA			STATUS AS OF 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
101	412536	DIGITAL INST & CONT MOD 12R (PHASE III) COMPLETES REPLACEMENT OF NNI HARDWARE WITH THE FOXBORO DIGITAL HARDWARE	12R	ISM
102	418813	* INCORE DETECTOR REPLACEMENT (40) REPLACE 40 INCORE DETECTORS THAT ARE PROJECTED TO HAVE REACHED THE END OF USEFUL LIFE.	12R	MRC
103	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
104	128114	EPRI STEAM GENERATOR RELIABILITY PROGRAM CO-FUNDING FOR EPRI SGRP TASK 404.	88-94	MRC
105	123262	RELIABILITY CENTERED MAINTENANCE PROG RCM EVALUATION OF PLANT SYSTEMS TO DEFINE MAINT. ACTIVITIES THAT IMPROVE RELIABILITY.	89-94	MRC
106	128151	CAVITY DOSIMETRY ANALYSIS SHIP IRRADIATED CAVITY DOSIMETRY REMOVED IN 9R AND ANALYZE	91-93	NRR
107	126223	TMI APPENDIX VIII QUALIFICATION SUBSCRIPTION FEE FOR PROGRAMS DEVEL BY EPRI & OTHERS FOR CONTRACTOR QUAL & CERT OF UT NDE INSPECTORS PER APP VIII	91-97	NRR

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CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA				STATUS AS OF 03MAY93	
CBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION	
108	128170	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	
109	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	
110	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	
111	412645	CFC ELIMINATION MODIFY/REPLACE EQUIPMENT TO BE COMPATIBLE WITH REPLACEMENT CHEMICALS AS REQUIRED.	92-94	MRC	
112	412643	FLOOD PANELS DEVELOP PLAN TO RESOLVE THE OUTSTANDING PRA ISSUE REGARDING FLOODING. ALSO IM- PLEMENT MODS DEEMED APPROPRIATE.	92-95	ISM	
113	128163	DRAWING ENHANCEMENTS TMI 1. ENHANCE THE LEGIBILITY OF APPR 500 DWGS. 2. REDRAW FLOW DIAG. IN CAD FORMAT 3. REDRAW GEN ARRANG IN CAD FORMAT	92-98	MRC	
114	412592	1992 CONFIGURATION MANAGEMENT - DBR DESIGN BASIS RECONSTITUTION 1992	92-98	IOE	

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CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA			STATUS AS OF 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
115	128160	B&W OWNER'S GROUP PROGRAM - 1992/93 PARTICIPATION IN B&W OWNERS GROUP PROGRAM	92/93	NRR
116	419232	SIMULATOR ENHANCEMENTS - TMI (1992) UPGRADE THE PLANT-REFERENCED SIMULATOR IN ORDER TO IMPROVE ITS RELIABILITY AND SCOPE OF SIMULATION CAPABILITIES.	92/93	REL
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
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	126238	** EVAL OF TMI ALERT & NOTIFICATION SYSTEM EVALUATE SYSTEM SIRENS USING LATEST DEMOGRAPHIC & TOPOGRAPHIC INFO TO INSURE STILL MEETING FEMA REQMENTS	93	NRR
121	412AHE	CAVITY SEAL PLATE INSTALLATION TO SPECIFY, PROCURE AND INSTALL A PERM SEAL PLATE TO REPLACE THE CURRENT REMOVABLE DEVICE. COST/BENEFIT ANAL INCLUDED	93-95	GWC

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CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA			STATUS AS OF 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
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	CORE MONITORING SYSTEM UPGRADE INSTALL NEW FIXED MARGIN TS SFTWARE THAT WHEN USED WITH EXISTING NAS WILL PROVIDE ADDED OPERATING SAFETY MARGIN	93-97	ISM
124	128173	CAVITY DOSIMETRY ANALYSIS REPLACE A & B CAPSULE HOLDERS WITH NEW DOSIMETRY DURING 10R, TRANSPORT, ANALYSIS AND REPORT OF RESULTS OF TESTING	93/94	NRR
125	122031	DEMOBILIZATION SOUTH OF THE DIKE DISPOSITION OF EQUIPMENT, MATERIAL, BUILDINGS AND FACILITIES IN TMI-2	94	GWC
126	12694C	MAINTENANCE TRAINING ANALYSIS DEVELOP TASK ANALYSIS FOR I&C, ELECTRICAL AND MECHANICAL INPO ACCREDITED PROG	94	NRR
127	412619	CPU/IPU UPGRADE FOR PLANT PROCESS COMPUT UPGRADE PLANT PROCESS COMPUTERS CPU AND IPU BOARDS (18) WITH A SINGLE BOARD.	94	IOE
128	41994G	* SIMULATOR ENHANCEMENTS - TMI (1994) UPGRADE THE PLANT-REFERENCED SIMULATOR IN ORDER TO IMPROVE ITS RELIABILITY AND SCOPE OF SIMULATION CAPABILITIES.	94	REL

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* NEW PROJECTS
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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 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
129	128175	** ASSMNT & UPGRD OF UNDRGRND TANKS/PIPING I-ASSESS APPLIC TANK/PIPE SYS. II-INIT TEST & MONITORING. III-UPGRADE AS REQD. (REF 40 CFR 112)	94-96	ERR
130	128ADX	B&W OWNER'S GROUP 1994/1997 PARTICIPATION IN B&W OWNERS GROUP PROGRAM	94-98	NRR
131	126101	PLANT LIFE ASSURANCE/EXTENSION SUPPORT OF STUDIES BY GPUN & BWOG FOR FEASIBILITY OF EXTENDING OPERATING LIFE.	94/95	REL
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	41996C	SIMULATOR ENHANCEMENTS UPGRADE THE PLANT REFERENCED SIMULATOR TO IMPROVE RELIABILITY AND SCOPE OF SIM- ULATOR CAPABILITIES	96	REL

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- * NEW PROJECTS
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NRC INTEGRATED SCHEDULE

CATEGORY 'C' PROJECTS

SORT BY CATEGORY/CYCLE/BA			STATUS AS OF 03MAY93	
OBS	BA NUMBER	DESCRIPTION	CYCLE/ YEARS	CLASSIFICATION
136	128ADV	1996 CONFIG MGMT SSFI PERFORM ONE SAFETY SYSTEM FUNCTIONAL INSPECTION. PREPARE DRAFT DESIGN BASIS DOCUMENT IF REQUIRED.	96/98	ISM

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 (MAY 4, 1993)

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:	419233 Simulator Modifications - 1992
Deletions:	None
Schedule Changes:	None
Other Changes:	None

ATTACHMENT B (continued)

CATEGORY C PROJECTS

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

Completions: 126220 Evaluation of Warehouse Stock
 126237 Operator Training Analysis
 128161 1992 Configuration Management-SSFI
 225011 TMI-2 PDMS Alarm Monitoring by TMI-1
 412076 Poison Fuel Racks - Pool A
 412591 1991 Configuration Management-DBR
 412620 Radwaste Storage Capability
 418755 RCP Cartridge Test Equipment
 418771 Loose Parts/Neutron Noise System Upgrade
 418794 Plant Preservation - BOP
 418797 Roofing Repairs 1992
 419689 Roof Replacements
 419700 Improve NOB Outside Area
 419723 Security Equipment

Deletions: None

BA Number Changes:	<u>OBS</u>	<u>Previous BA Number</u>	<u>New BA</u>
57	419723 Security Equipment		419735
78	412AGU Radwaste Storage Capability Phase 2		412648
82	419723 Security Equipment		419735
96	412AHB MOV Mods		412646
120	12693A Eval of TMI Alert & Notification System		126238
129	412AHK Assessment Upgrade of Underground Tanks/Piping		128175