



Consumers  
Power

**POWERING  
MICHIGAN'S PROGRESS**

Big Rock Point Nuclear Plant, 10269 US-31 North, Charlevoix, MI 49720

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Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

**DOCKET 50-155 - LICENSE DPR-6 - BIG ROCK POINT PLANT - INTEGRATED PLAN  
SEMI-ANNUAL UPDATE NUMBER 20**

As required by the Big Rock Point operating license, this letter provides the twentieth update of the Big Rock Point Integrated Plan. Attachment 1 contains an index of all issues and identifies them by category, rank, description and status. Attachment 2 is a list of all open issues and contains detailed scope statements, status and applicable scheduled completion dates.

SUMMARY OF INTEGRATED PLAN ACTIVITIES SINCE THE AUGUST, 1993 UPDATE

Nine new issues have been added to the Integrated Plan, nine issues were completed and one issue was cancelled. There are no active "A" issues (established by NRC rule, order, or license condition); six (6) active "BN" issues (initiated by the NRC or commitment to the NRC); and twenty-two (22) active "B" issues (initiated by the company or an agency other than NRC), totaling twenty-eight (28) active issues.

ISSUES ADDED

B-168 - Replace CV-4040 & CV-4114

This issue involves replacement of reactor cleanup system valves CV-4040 and CV-4114. These valves are used for primary system blowdown. The location of the valves is in the reactor cleanup demineralizer room. Operations has experienced leak through on these valves and Maintenance has tried several times unsuccessfully to correct it. The valves location results in significant radiation exposure to work on them; therefore, it has been concluded that replacement will minimize exposure and improve reliability.

B-169 - Replace TR-IA66

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This issue involves replacement of temperature recorder TR-IA66. TR-IA66 provides temperature indication for the primary system recirculation pumps. The maintainability of this recorder is low because replacement parts including ink cannot be obtained. Instrument and control personnel have indicated that its remaining life is short.

ADD 1

B-170 - Modify RWS Piping

This issue involves piping replacement in the radwaste system to facilitate removal of radiological hot spots in the piping. Personnel exposure has been reduced by hydrolazing the affected piping. Currently, temporary lead shielding is in place to reduce exposure. The proposed modification involves replacement of some 2" elbows with a type of elbow that allows access to the piping interior without disassembly of the piping system.

B-171 - Replace MO/VOP-7066

This issue involves replacement of the valve and its operator for MO-7066. MO-7066 supplies fire water to the core spray heat exchanger and has a backup valve MO-7080, in case of failure. The operator has experienced difficulties in meeting its torque/thrust requirements and required modification in the 1993 Refout to meet these requirements. The valve internal condition with worn parts contributes to this problem. The existing operator is a Limitorque model SMA for which replacement parts are not readily available. Replacement of the valve and its operator with a newer model SMB will provide more margin with respect to its design requirements and increase its reliability.

B-172 - Containment Coatings

This issue involves maintenance of coatings within containment. A number of areas with peeling and chipping paint have been observed. The loose material has been removed. During the removal process, it was determined that lead based paint had been used and that its removal required special precautions. This project involves development of removal methods that consider personnel exposure to lead and application methods that assure acceptability for containment accident conditions. The maintenance of containment coating is necessary to avoid potential clogging of the core spray suction strainers.

B-173 - Replace EFP Panel

This issue involves replacement of the EFP (Electric Fire Pump) control panel which provides control, electrical protection and annunciation for the electric fire pump. The panel is original plant equipment and replacement parts are no longer available. The panel has a NFPA rating and is classified as 1E. Contact breakdown is being caused by pitting and corrosion that eventually leads to contact welding. This contact breakdown is a result of the springs weakening which slows down the contactors coming together resulting in arcing. Failures to date have only affected the non-safety related function of shutting the pump off. If total spring failure occurred, the EFP panel would not fulfill its safety function of being able to start electric fire pump. This failure mode can be detected by normal surveillance testing. A redundant full flow Diesel Fire Pump exists to provide the ECCS function. Test failure of the EFP would require a plant shutdown and replacement of the panel which has approximately a ten week lead time.

B-174 - Solenoid Valve Replacement Program

This issue involves development of a strategy for determining which ASCO solenoid valves need to be replaced or rebuilt in the upcoming years. This effort will establish what the correct replacement valve model numbers are as well as the repair kits for the existing ASCO valves. This project will determine what stock parts are needed for the upcoming outages and allow planning for yearly upgrades.

BN-175 - Reactor Vessel Margin Analysis

This issue involves performing an analysis for the reactor vessel in accordance with 10CFR50 Appendix G, Section IV.A.I. Three options were available and the margin analysis was determined the only practical alternative. The analysis will determine the material toughness of the beltline welds under pressure. The minimum upper shelf pressure requirements stated by Appendix G is 50 ft lbs. If it were to drop below 50 ft lbs, Big Rock Point would be forced to shut down. Combustion Engineering, the reactor vessel manufacturer, is performing the analysis.

B-176 - EDG Cooling Water Enhancement

This issue involves replacement of the cooling water pump for the Emergency Diesel Generator (EDG) and other minor enhancements. During the 1993 Refout, the pump was disassembled and found to be severely pitted. A repair was made to the pump casing. Other enhancements have already been made to reduce suction head loss. The proposed enhancements will allow better regulation of cooling flow to ensure appropriate cooling is provided for the EDG. The EDG plays an essential role during fires and offsite power loss, therefore, its reliable operation is necessary.

ISSUES RERANKED

None.

ISSUES CANCELLED

B-140 - Generator Synchronizing Relay Installation

This issue's need was rereviewed and determined to be quite low. This conclusion was based on a low frequency of occurrence, one mis-synchronization in the last ten years, and the insignificant resulting damage. That event resulted in an outage extension of 1.5 days for inspection. Corrective actions for that event included training for operators on mis-synchronization.

ISSUES COMPLETED

B-144 - Replace TR-9623 and Associated RTDs

Replacement of TR-9623 and its associated RTDs was completed during the 1993 Refout. The replacement addresses maintainability of the recorder and improves the plant capability for monitoring containment temperatures.

B-146 - Replace/Modify Breaker Panel 2P

Replacement of breaker panel 2P was completed during the 1993 Refout. Replacement of the panel allows breaker testing to be performed with spare breakers available.

B-147 - Resolve Exist Corrosion/Nodules in FPS

Fire Protection System (FPS) pipe replacement for severely affected portions was completed in the 1992 Refout. Inspections in the 1992 and 1993 Refouts indicate that the remaining corrosion is tightly adhering. Continued monitoring for the FPS will be performed by normal flow tests conducted by Operations.

B-153 - HEA 51 Type Auxiliary Relay Replacement

The scope of this issue was changed from replacement of the relays to testing of them. It was originally thought that spare relays were unavailable, however it has been discovered that other Consumers Power Company plants have relays available. The manufacturer indicated that failures were primarily a result of lack of exercising. Therefore, test procedures TR-102 and TR-107 were modified and testing completed in the 1993 Refout.

B-154 - Replacement of Limitorque SMA Operators

Replacement of VOP-7051 and VOP-7061, primary core spray valve operators, was completed during the 1993 Refout. Replacement of all age degradable parts in VOP-7050, Main Steam Isolation Valve operator was completed in the 1992 Refout resulting in its retaining fully qualified status.

B-157 - Containment Pipeway Cooler Efficiency/Maintainability

Replacement of both pipeway cooler tube bundles has been completed. No leaks have occurred to date and some efficiency improvement has been noted.

B-160 - Hand Trip Solenoid Replacement

The hand trip solenoid (HTS) was replaced with a dual coil model during the 1993 Refout. This design is simpler and provides some redundancy to improve HTS reliability.

B-166 - MO-7061 Modification to Address Pressure Locking

The valve disc for MO-7061, primary core spray valve, was modified by drilling a hole in one side of its disc (split wedge) to eliminate the potential for pressure binding. This modification was completed in the 1993 Refout.

B-167 - Turbine Repairs

A major turbine overhaul was completed during the 1993 Refout. The work involved controls improvements, alignment correction and steam leakage barrier refurbishment. This activity completed essentially all of the work previously planned for the 1994 Refout.

ACTIVE ISSUES FOR WHICH SIGNIFICANT PROGRESS HAS BEEN MADE

BN-138 - Improved MOV Testing & Surveillance Program Study -  
Generic Letter 89-10

The majority of work that can be done has been completed. Static testing was completed on all applicable valves and dynamic testing was completed for those that could be. The remaining work involves technical evaluation of those valves that cannot be diagnostically tested to assure operability. Industry guidance is being sought for this issue so that the evaluation methodology and assumptions are consistent with industry experience for similar valves. A letter will be submitted to the NRC indicating what work remains and when it will be completed.

B-150 - Review CRD System

Spare parts are available and seal welding for 18 of 32 control rod drives has been completed. Plant management determined with the assistance of Operations, Maintenance, Health Physics and System Engineering that the performance of the CRD system is acceptable without further seal weld repairs. A study done by Engineering reviewed the time duration between rebuilds which indicates normal drive rebuild without seal welding should be adequate until end of license. Project documentation and training materials including videotapes are available, if seal weld repairs are determined necessary at a later time. Closeout of the documentation for this project is in progress.

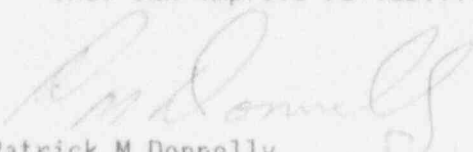
B-155 - Screenhouse Intake Biofouling

Chemical treatment for all lake water uses was conducted twice during 1993 and heat treatments for the fire water system were conducted several times. Engineering is proceeding with a modification for continuous chlorination for the service water and fire water systems. Also, chemical treatment will be used as needed for circulating water system from the intake structure pipe that was installed during the 1993 Refout. Use of the treatment system is targeted for the Spring of 1994.



B-165 - PM Program Review and Upgrade

The PPAC validation portion of the program was completed by the end of 1993. Implementation of the recommendations is approximately 50% complete. The findings of this review indicate that the PM program was mature and appropriately based. The next phase of the program is to perform an outlier evaluation for components in the plant's equipment data base and not in the PPAC system. This evaluation will identify activities that can improve reliability for essential components.



Patrick M Donnelly  
Plant Manager

CC: Administrator, Region III, USNRC  
NRC Resident Inspector - Big Rock Point

ATTACHMENTS

ATTACHMENT

CONSUMERS POWER COMPANY  
BIG ROCK POINT PLANT  
DOCKET 50-155

ISSUE INDEX FOR THE  
INTEGRATED PLAN UPDATE 20

Submitted February 21, 1994

8 Pages

<u>ISSUE NUMBER</u>	<u>ISSUE RANK</u>	<u>DESCRIPTION</u>	<u>STATUS</u>
B-001	-	HEAT EXCHANGER TUBE BUNDLE REPLACEMENT	COMPLETE
B-002	-	ACID LINE EXTENSION	COMPLETE
B-003	-	REACTOR COOLANT PRESSURE BOUNDARY LEAKAGE DETECTION	COMPLETE
B-004	-	STACK GAS MONITORING	COMPLETE
BN-005	-	CONTROL ROOM DESIGN REVIEW	COMPLETE
BN-005A	-	CRITICAL SAFETY FUNCTIONS	CANCELLED
BN-005B	21	IMPROVE COMMUNICATIONS	ACTIVE
BN-005C	-	RESOLVE HED W/RCP CONTROLS	COMPLETE
BN-005D	-	THIRTY-THREE MINOR CHANGES	COMPLETE
BN-005E	-	AUTOMATED PLANT SIREN CONTROL	COMPLETE
BN-005F	-	ECS LEVEL IMPROVEMENTS	CANCELLED
BN-005G	-	RELOCATE RELIEF VALVE ACOUSTIC MONITOR	CANCELLED
BN-005H	-	ISOLATION VALVE INDICATION	COMPLETE
BN-006	-	SAFETY PARAMETER DISPLAY SYSTEM	COMPLETE
B-007	-	SCRAM DUMP TANK LEVEL INSTRUMENTATION	COMPLETE
B-008	-	SINGLE CHANNEL RESET INVESTIGATION	COMPLETE
B-009	-	REACTOR COOLING WATER PRESSURE STUDY	COMPLETE
B-009A	-	INSTALLATION OF TELLTALES ON SHUTDOWN HEAT EXCHANGER	COMPLETE
B-010	-	VENTILATION FOR PANEL C-52	COMPLETE
B-011	-	RUCKER SYSTEM (STUDY)	COMPLETE
B-011A	-	TURBINE BYPASS SYSTEM IMPROVEMENTS	COMPLETE
B-012	-	RESIDUAL HEAT REMOVAL HEAT EXCHANGER TUBE FAILURE	COMPLETE
B-013	-	PURITY OF PRIMARY COOLANT	COMPLETE
B-014	-	SEISMIC DESIGN CONSIDERATIONS	COMPLETE
BN-014A	-	RESOLUTION OF SEISMIC ISSUES	COMPLETE
BN-014B	-	SEISMIC ADEQUACY OF ACTIVE COMPONENTS	COMPLETE
BN-014C	21	SEISMIC ADEQUACY OF ACTIVE COMPONENTS	ACTIVE
B-015	-	CONTAINMENT ELECTRICAL PENETRATIONS	COMPLETE



B-016	-	SECONDARY SYSTEM INSTABILITIES	COMPLETE
B-017	-	PCS ISOLATION - PC SYSTEM	COMPLETE
B-018	-	HIGH PRESSURE RECYCLE	CANCELLED
B-019	-	HYDROGEN MONITORING	COMPLETE
B-020	-	INSTRUMENTATION TO DETECT INADEQUATE CORE COOLING	COMPLETE
B-021	-	RECIRCULATION PUMP TRIP	COMPLETE
BN-022A	-	ORGANIC MATERIALS (WALL COATINGS)	COMPLETE
B-022B	-	POST ACCIDENT CHEMISTRY - SEP TOPIC VI-1	COMPLETE
B-023	-	BALANCE OF PLANT QA PLAN DEVELOPMENT	CANCELLED
B-024	-	INSTALLATION OF DP GAUGE ON NONREGEN HEAT EXCHANGER	COMPLETE
BN-025	-	WIND AND TORNADO LOAD & TORNADO MISSILE - SEP TOPICS III-2 & III-4.A	COMPLETE
B-026	-	ISI OF WATER CONTROL STRUCTURES	COMPLETE
B-027	-	SERVICE WATER/COOLING WATER SYSTEMS	COMPLETE
B-028	-	PROXIMITY OF TECTONIC STRUCTURES	COMPLETE
B-029	-	TURBINE MISSILES	COMPLETE
A-030	-	RADIOLOGICAL EFFLUENT TECHNICAL SPECIFICATIONS	COMPLETE
B-031	-	DEFINITION OF OPERABILITY	COMPLETE
BN-032	-	EMERGENCY OPERATING PROCEDURE UPGRADE	COMPLETE
B-033	-	REFERENCE VOLUME CHAMBER REMOVAL	COMPLETE
B-034	-	CONTROL ROOM AIR CONDITIONING	COMPLETE
A-035B	-	FHSR UPDATE STUDY	COMPLETE
A-036	-	ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT (EEQ)	COMPLETE
B-036A	-	EEQ PROGRAM ENHANCEMENTS	COMPLETE
B-037	-	PROBABLE MAXIMUM FLOOD CONSIDERATIONS	COMPLETE
B-038	-	SAFETY RELATED WATER SUPPLY - SEP TOPIC II-3.C	COMPLETE
B-039	-	EFFECTS OF HIGH WATER LEVEL - SEP TOPIC III-3.A	COMPLETE
B-040	-	PIPING AND SAFE END INTEGRITY	COMPLETE
B-041	-	CLASSIFICATION OF STRUCTURES, SYSTEMS & COMPONENTS	COMPLETE

B-042	-	ONGOING ISI	COMPLETE
B-043	-	MECHANICAL SNUBBERS	COMPLETE
B-044	-	VERIFICATION OF BS&B VALVE DATA	COMPLETE
B-045	-	ECCS TEST TERMINAL BOX	CANCELLED
B-046	-	REVISED REACTOR VESSEL PRESSURE/TEMPERATURE LIMITS	COMPLETE
B-047	-	SPENT FUEL POOL CLEANUP	COMPLETE
B-048	-	CLEANUP DEMINERALIZER SYSTEM PUMP REPLACEMENT INVESTIGATION	COMPLETE
B-049	-	VENTILATION SYSTEMS	COMPLETE
B-050A1	-	MSIV BACKUP VALVES - LEAK TESTING	COMPLETE
BN-050A2	-	CONTAINMENT ISOLATION - ONLINE TESTING OF MSIV	COMPLETE
BN-050B	-	CONTAINMENT ISOLATION - LEAK TEST OF SERVICE AND INSTRUMENT AIR	COMPLETE
B-050C	-	CONTAINMENT ISOLATION - ISOLATION VALVES IN HEATING, COOLING OR SERVICE WATER	COMPLETE
B-050D	-	CONTAINMENT ISOLATION - ADD CONTROL CIRCUIT TO TREATED WASTE VALVE (CV-4049)	COMPLETE
B-050E	-	CONTAINMENT ISOLATION - AIR LOCK TESTING - SEP TOPIC VI-4	COMPLETE
B-050F	-	CONTAINMENT ISOLATION - HAND ISOLATION OF INSTRUMENT LINES - SEP TOPIC VI	COMPLETE
B-050G	-	CONTAINMENT ISOLATION - PNEUMATIC TEST OF MSIV - SEP TOPIC VI-4	COMPLETE
BN-051	-	DESIGN CODES, CRITERIA AND LOAD COMBINATIONS	COMPLETE
B-052	-	HELB - SEP TOPIC III-5.A	COMPLETE
B-053	-	PIPE BREAKS OUTSIDE CONTAINMENT	COMPLETE
B-054	-	PLANT SHIELDING - NUREG-0737 ITEM II.B.2	COMPLETE
B-055	-	METEOROLOGICAL TOWER	COMPLETE
B-056	-	ESF UPGRADE	COMPLETE
B-057	-	CONTROL ROOM HABITABILITY - NUREG-0737	COMPLETE
B-057A	-	CONTROL ROOM HABITABILITY - SEAL DOORS	COMPLETE
B-058	-	POST ACCIDENT SAMPLING	COMPLETE
B-059	-	MSLB OUTSIDE CONTAINMENT	COMPLETE

B-060	-	REVISED SECURITY PRINTS	CANCELLED
B-061	-	EQUIPMENT IDENTIFICATION	CANCELLED
B-062	-	REVISE DRAWINGS (SYSTEM CHECKSHEET VERIFICATION)	COMPLETE
B-063	-	CONTAINMENT PURGE AND VENT	COMPLETE
B-064	-	CONTAINMENT ILRT	COMPLETE
B-065	-	TEST CARD READER	CANCELLED
B-066	-	RADWASTE MONITOR FLUSH TIMER	CANCELLED
B-067	-	ISOLATION OF RPS FROM NONSAFETY SYSTEMS	COMPLETE
B-068	-	DC SYSTEM MONITORING	COMPLETE
B-069	-	ACID AND CAUSTIC TANK PROBLEMS	COMPLETE
B-070	-	EDG PANEL VENTILATION	COMPLETE
B-071	-	CHANGE PIPING IN CHEM LAB HOT HOOD	CANCELLED
B-072	-	FACILITY MODIFICATIONS - WAREHOUSE	COMPLETE
B-073	-	CONTROL OF HEAVY LOADS	COMPLETE
B-074	-	REACTOR COOLANT SYSTEM - HIGH POINT VENTS	COMPLETE
A-075A	-	ALTERNATE SHUTDOWN SYSTEM	COMPLETE
A-075B	-	RADIANT ENERGY SHIELDS	COMPLETE
A-075C	-	ASSOCIATED CIRCUITS	COMPLETE
B-076	-	CONTAINMENT HIGH RANGE MONITOR	COMPLETE
B-077	-	INVESTIGATE INCORE AVAILABILITY PROBLEM	COMPLETE
B-077A	-	INVESTIGATE INCORE AVAILABILITY PROBLEM	CANCELLED
B-078	-	CLEANUP SYSTEM DRAIN LINE	CANCELLED
B-079	-	CONTROL ROD MISOPERATION	COMPLETE
B-080	-	PERFORMANCE OF BWR SAFETY VALVES	COMPLETE
B-081	-	POSITION INDICATION OF PORV'S	COMPLETE
B-082	-	RDS RELIABILITY IMPROVEMENTS	COMPLETE
B-083	-	FULL STROKE TESTING OF REACTOR DEPRESSURIZATION VALVE (This issue was combined with Issue B-82)	CANCELLED
B-084	-	SCRAM DUMP TANK VALVE - LACK OF REDUNDANCY (STUDY)	COMPLETE
B-084A	-	SCRAM DUMP TANK REDUNDANT VALVES	COMPLETE

B-085	-	CONTAINMENT OVERPRESSURE - NITROGEN SUPPLY TO RDS ISOLATION VALVES	COMPLETE
B-086	-	BYPASS OF MOV THERMAL OVERLOADS	COMPLETE
B-087	-	PIPE BREAK OUTSIDE OF CONTAINMENT	COMPLETE
B-088	-	MSLB OUTSIDE CONTAINMENT - RADIOLOGICAL CONSEQUENCES	COMPLETE
B-089	-	RCPB LEAKAGE DETECTION	COMPLETE
BN-090	-	CLASSIFICATION OF STRUCTURES, SYSTEMS AND COMPONENTS	COMPLETE
B-091	-	CONTAINMENT ISOLATION - POST LOCA SYSTEM WALKDOWNS	COMPLETE
B-092	-	CONTAINMENT ISOLATION - CLOSED SYSTEMS	COMPLETE
B-093	-	EMERGENCY RESPONSE FACILITIES (UPGRADE TSC)	COMPLETE
B-094A	-	POST TRIP REVIEW - DATA & INFORMATION CAPABILITIES	COMPLETE
B-094B	-	POST TRIP REVIEW - DATA & INFORMATION CAPABILITIES	COMPLETE
B-095	-	INSTALLATION OF FILTERS IN INSTRUMENT AIR LINE	COMPLETE
B-096	-	INSTALLATION OF ISOLATION VALVE UPSTREAM OF CV-4027	COMPLETE
B-097	-	REPLACEMENT OF VIP-5 WITH MOTOR OPERATED VALVE	COMPLETE
B-098	-	REVISIONS TO 125-VOLT DC DRAWINGS	COMPLETE
B-099	-	EQUIPMENT CLASSIFICATION - RPS COMPONENTS	COMPLETE
BN-100	-	VENDOR INTERFACE AND MANU/LS	COMPLETE
B-101	-	POST MAINTENANCE TESTING - RPS COMPONENTS	COMPLETE
B-102	-	EQUIPMENT CLASSIFICATION - ALL SAFETY RELATED EQUIPMENT	COMPLETE
B-103	-	POST MAINTENANCE TESTING - ALL SAFETY RELATED EQUIPMENT	COMPLETE
B-104	-	CORE SPRAY PUMP SUCTION STRAINER BLOCKAGE (Replaced by B-104A)	COMPLETE
B-104A	-	CORE SPRAY PUMP SUCTION STRAINER BLOCKAGE	COMPLETE
B-105	-	REACTOR DEPRESSURIZATION SYSTEM HANGER REPLACEMENT	COMPLETE
B-106	-	REMOVE TURBINE GRATING	COMPLETE
B-107	-	FLOOD ANNUNCIATION	CANCELLED
B-108	-	MAIN STEAM LINE DRAIN ISOLATION	COMPLETE
BN-109	-	BACKUP HIGH RANGE STACK MONITOR	COMPLETE
B-110	-	LIGHTNING PROTECTION	COMPLETE

B-111	-	REPLACEMENT OF NEUTRON MONITORING INSTRUMENTATION	COMPLETE
A-112	-	ALTERNATE ROD INJECTION	CANCELLED
B-113	-	RELIEF VALVE FAILURES INVESTIGATION	COMPLETE
B-114	-	RECIRCULATION PUMP ROOM LIGHTING	COMPLETE
B-115	-	CONDENSER MAKEUP WATER/CORE SPRAY INVESTIGATION	COMPLETE
B-115A	13	ALTERNATE SOURCE OF MAKEUP TO CONDENSER HOTWELL	ACTIVE
B-116	-	CLEANUP DEMIN PIT ACCESS HANDRAIL	COMPLETE
B-117	-	REPLACE DIESEL FIRE PUMP ENGINE	COMPLETE
B-118	-	UNDERWATER FILTERING SYSTEM FOR SPENT FUEL POOL	COMPLETE
B-119	-	ACID SYSTEM MODIFICATIONS TO ELIMINATE PIPING CORROSION	COMPLETE
B-120	-	ACCESS TO RECIRC PUMP ROOM HEAT SENSORS	COMPLETE
B-121	-	PROVIDE ENGINEERING SUPPORT FOR CRD REPAIRS	COMPLETE
B-122	-	REPLACE STATION BATTERY	COMPLETE
B-123	-	REPLACE CONTROL ROOM RECORDERS	COMPLETE
BN-124	-	VITAL AREA UPGRADE	COMPLETE
BN-125	-	CCTV UPGRADE	COMPLETE
B-126	-	STATION AIR COMPRESSORS	COMPLETE
B-126A	1	STATION AIR SYSTEM UPGRADE	ACTIVE
B-127	-	REPLACE INSTRUMENT AIR DRYER	COMPLETE
B-128	-	REPLACEMENT OF CABLE IN RECIRC PUMP ROOM	COMPLETE
B-129	-	REWIRE CRD ACCUMULATOR PRESSURE SWITCH & LEAK DETECTOR SCHEMES	COMPLETE
BN-130	-	EVALUATION OF INSTRUMENT AIR SYSTEM PER GENERIC LETTER 88-14	COMPLETE
BN-130A	27	INSTALL INSTRUMENT AIR FILTERING	ACTIVE
B-131	-	DIESEL GENERATOR RELIABILITY PROGRAM	COMPLETE
A-132	-	SIMULATOR FACILITY PLANT	COMPLETE
B-133	-	SHUTDOWN COOLING HEAT EXCHANGER TUBING REPLACEMENT	CANCELLED
B-134	-	RELIEF VALVE TEST STAND	COMPLETE
B-135	-	REACTOR RECIRCULATION PUMP VIBRATION MONITORING	CANCELLED

B-136	-	PROVIDE REPLACEMENT VALVE FOR FEEDWATER REGULATOR	COMPLETE
BN-137	3	INDIVIDUAL PLANT EXAM (IPE) PROGRAM - GENERIC LETTER 88-20	ACTIVE
BN-138	17	MOV PROGRAM - GENERIC LETTER 89-10	ACTIVE
BN-139	-	OPEN CYCLE COOLING SYSTEM PROGRAM - GENERIC LETTER 89-13	COMPLETE
B-140	-	GENERATOR SYNCHRONIZING RELAY INSTALLATION	CANCELLED
B-141	24	BREAKER COORDINATION ANALYSIS MODIFICATIONS	ACTIVE
B-142	-	EDG TIME DELAY OVERCURRENT RELAYS	COMPLETE
B-143	-	PUMP FLOW METER INSTALLATION FOR SECTION XI	COMPLETE
B-144	-	REPLACE TR-9623 AND ASSOCIATED RTDs	COMPLETE
B-145	-	GENERAL ELECTRIC HFA RELAYS	COMPLETE
B-146	-	REPLACE/MODIFY BREAKER PANELBOARD 2P	COMPLETE
B-147	-	RESOLVE EXISTING CORROSION/NODULES IN FPS	COMPLETE
B-148	24	FEEDWATER TEST STAND REPLACEMENT	ACTIVE
B-149	-	MO-7050 AND MO-7067 ACCESS	CANCELLED
B-150	3	REVIEW CRD SYSTEM	ACTIVE
B-151	-	UPGRADE REACTOR BUILDING CRANE BRAKES	COMPLETE
B-152	21	BREAKER REPLACEMENT STRATEGY	ACTIVE
B-153	-	HEA 51 TYPE AUXILIARY RELAY REPLACEMENT	COMPLETE
B-154	-	REPLACEMENT OF LIMITORQUE SMA OPERATORS	COMPLETE
B-155	1	SCREENHOUSE INTAKE BIOFOULING	ACTIVE
B-156	-	PS RE07 A THROUGH D REPLACEMENT	CANCELLED
B-157	-	CONTAINMENT PIPEWAY COOLER EFFICIENCY/MAINTAINABILITY	COMPLETE
B-158	10	MAKEUP DEMIN REPLACEMENT	ACTIVE
B-159	13	MO-7070/VPI-303 SPOOL PIECE MONITOR & VENTING	ACTIVE
B-160	-	HAND TRIP SOLENOID (HTS) IMPROVEMENT	COMPLETE
B-161	13	CRD PUMP RELIEF VALVE LEAKAGE	ACTIVE
B-162	8	LOADING DOCK CRANE (HOIST)	ACTIVE
B-163	6	VP-301 & 302 AND VPI-304 TEST METHOD CHANGE	ACTIVE



B-164	13	CONDENSATE STORAGE TANK SAMPLING LOCATION CHANGE	ACTIVE
B-165	12	PM PROGRAM REVIEW AND UPGRADE	ACTIVE
B-166	-	MO-7061 MODIFICATION TO ADDRESS PRESSURE LOCKING	COMPLETE
B-167	-	TURBINE REPAIR	COMPLETE
B-168	17	REPLACE CV-4040 AND CV-4114	ACTIVE
B-169	28	REPLACE TR-IA66	ACTIVE
B-170	17	MODIFY RWS PIPING	ACTIVE
B-171	10	REPLACE MO/VOP-7066	ACTIVE
B-172	17	CONTAINMENT COATINGS	ACTIVE
B-173	5	REPLACE EFP PANEL	ACTIVE
B-174	24	SOLENOID VALVE REPLACEMENT PROGRAM	ACTIVE
BN-175	9	REACTOR VESSEL MARGIN ANALYSIS	ACTIVE
B-176	6	EDG COOLING WATER ENHANCEMENT	ACTIVE

ATTACHMENT

CONSUMERS POWER COMPANY  
BIG ROCK POINT PLANT  
DOCKET 50-155

INTEGRATED PLAN OPEN ISSUES

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10 Pages

PAGE 1

02/21/94

BIG ROCK POINT PLANT  
INTEGRATED PLAN  
TYPE : BN / PROJECTS

PLAN  
SCHEDULED  
COMPLETION  
DATE

ISSUE  
NUMBER RANK TITLE

BN-005B 21 IMPROVE COMMUNICATIONS

766

05-01-94

SCOPE:

INSTALL PA SYSTEM CONTROL RM SPEAKER MUTE SW.  
INSTALL COMMUNICATION (HEAR-HERE OR EQUAL)  
BOOTH IN SCREEN HOUSE; AIR COMPRESSOR RM AND  
AT TURBINE FRONT STANDARD. PROVIDE ADDITIONAL  
PA COVERAGE IN AREAS NOT CURRENTLY COVERED  
(TOP5 SURVEY REQ'D) - (SEE AIR-88-05/WJTI).

STATUS:

BASED ON STUDY RESULTS THE PROJ WAS SUBMITTED  
FOR CANCELLATION. TRG REVIEWED THIS RECOMMEN-  
DATION & DETERMINED THAT THE PROPOSED IMPRVTS  
FOR IN PLANT TELEPHONE SVS & A NEW SURVEY OF  
THE PLANT SIREN COVERAGE SHOULD BE COMPLETED  
FOR CLOSEOUT OF THIS ISSUE.

BN-014C 21 VERIF. OF SEISMIC ADEQUACY OF ACTIVE COMP.

737

05-21-95

SCOPE:

ASSEMBLE AND TRAIN WALKDOWN TEAM. DETERMINE  
SAFE SHUTDOWN PATHS. PERFORM SYSTEM/  
EQUIPMENT WALKDOWNS AND IDENTIFY EQUIPMENT  
OUTLIERS.

STATUS:

120 DAY RESPONSE HAS BEEN SUBMITTED TO THE  
NRC. NRC COMMENTS ON THE 120 RESPONSE WERE  
FORMALLY ADDRESSED WITH ANOTHER CPCO SUB-  
MITTAL. RESOLUTION OF SEISMIC WEAK LINKS  
QUESTIONS FROM THE NRC STAFF IS ONGOING.

BN-130A 27 INSTALL INSTRUMENT AIR FILTERING

870

94 REF OUT

SCOPE:

INSTALL INSTRUMENT AIR FILTERING AT STRATEGIC  
LOCATIONS TO INSURE AIR QUALITY, FOR SAFETY  
RELATED EQUIPMENT OPERATION, TO BE IN  
COMPLIANCE WITH ANSI/ISA-57.3-1975.

STATUS:

THE ANNUAL AIR QUALITY SURVEILLANCE CONTINUES  
TO SUPPORT THE NEED FOR THIS PROJECT. CON-  
CEPTUAL DESIGN IS BEING FORMULATED.

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BIG ROCK POINT PLANT  
INTEGRATED PLAN  
TYPE : BN / PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
BN-137 855	3	INDIVIDUAL PLANT EXAM TYPE PROGRAM	05-31-94

SCOPE:  
COMPLETION OF A LEVEL I PRA UPDATE AND  
CONTAINMENT ANALYSIS.

STATUS:  
STM LINEBREAK OUTSIDE OF CONTAINMENT, ATWS  
PRESSURE TRANSIENT ANALYSES CONT, THE CONT.  
PHENOMOLOGICAL DRA CONT, 1ST DRAFT OF THE  
PARTIALLY COMPLETED REPORT IS FINISHED.

BN-138 854	17	MOV PROGRAM - GENERIC LETTER 89-10	05-28-94
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SCOPE:  
DEVELOP AND IMPLEMENT MOV PROGRAM PROPOSALS  
TO ADDRESS GENERIC LETTER 89-10.

STATUS:  
PROCS TO IMPLEMENT THE MOV PROGRAM ARE COM-  
PLETE. INITIAL VOTES STATIC TESTING & VOTES OF  
TESTING ARE COMPLETE. THE ANALYTICAL BASIS FOR  
NON-OP TESTED VLVs HAS BEEN DEVELOPED. THE  
LACK OF INDUSTRY VLV DATA & METHODOLOGY  
REQUIRES US TO CONSIDER CALC AS PRELIMINARY.

BN-175 955	9	RX VESSEL MARGINS ANALYSIS	04-01-94
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SCOPE:  
PROVIDE ASME APPENDIX G EQUIVALENT  
MARGINS ANALYSIS TO DETERMINE COM-  
PLIANCE WITH 10CFR50 APPENDIX G RE-  
QUIREMENTS

STATUS:  
ANALYSIS IS APPROXIMATELY 90% COMPLETE  
BY COMBUSTION ENGINEERING INC. REPORT  
IS EXPECTED TO BE AT BRP FOR REVIEW BY  
2-28-94.

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02/21/94

BIG ROCK POINT PLANT  
INTEGRATED PLAN  
TYPE ' B ' PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
B-115A 515	13	ALTERNATE SOURCE OF MAKE-UP TO COND HOTWELL	12-01-94
B-126A 763	1	STATION AIR SYSTEM UPGRADE	12-01-94
B-141 811	24	BREAKER COORDINATION ANALYSIS MODIFICATIONS	12-31-94

SCOPE:  
PROVIDE A MEANS OF ADDING WATER TO THE CONDENSER HOTWELL WITH EXISTING PIPING, WITH AUTO SHUTOFF CAPABILITY.

STATUS:  
PLANT MANAGEMENT RECOMMENDS CANCELLATION AND REFERRED TO TRG FOR CANCELLATION. TRG REMAINED THIS ITEM WITH THE CONCLUSION THAT IT SHOULD REMAIN IN HOLD UNTIL IT CAN BE EVALUATED WITH THE NEW IPE. THIS PROJ IS AN EOP ENHANCEMENT AND ITS SIGNIFICANCE TO NUC SAFETY IS MINIMAL

SCOPE:  
INSTALL ONE ADDITIONAL AIR COMPRESSOR. ADD FLOW/TEMPERATURE INSTRUMENTS TO EXISTING AIR COMPRESSORS.

STATUS:  
FC-648A IS COMPLETE (INSTR. AIR FLOW MONITORING). FC-648B IS NEAR COMPLETE (STA AIR SYS UP-GRADE OUTAGE WORK FOR NEW AIR COMPR). FC-648C DESIGN IN PROGRESS (STA AIR SYS UP-GRADE - NEW AIR COMPR).

SCOPE:  
UPGRADE BREAKERS/WIRING TO MEET RECOMMENDATIONS OF THE "BRP COORDINATION ANALYSIS" PROVIDED BY SYSTEM PROTECTION (JACKSON).

STATUS:  
THE TOTAL PROJECT IS 95% COMPLETE. THE ONLY REMAINING TASK IS THE TESTING OF THE EXISTING 052-2851 WHICH WILL TAKE PLACE DURING THE 1994 REPORT.

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02/21/94

BIG ROCK POINT PLANT  
INTEGRATED PLAN  
TYPE - B / PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
B-148 621	29	RELOCATE GE FEEDWATER TEST STAND	09-01-94
		SCOPE: RELOCATE AND REPLACE THE GE FEEDWATER TEST STAND. ADD SAMPLE BYPASS LINE TO ENSURE TURBULENT FLOW THROUGH SAMPLING LINE. BYPASS TO FLOW INTO SUCTION SIDE OF FEED PUMPS.	STATUS: ADDITIONAL WORK REQUIRED: INSULATE FEEDWATER BYPASS AND COOLING WATER SUPPLY LINES. EDC IS IN REVIEW TO ADD TELL TALE DRAIN LINE IN COOLING WATER OUTLET AND REPLACE RUPTURED COOLER.
B-150 893	3	REVIEW CRD SYSTEM	95 REF OUT
		SCOPE: REVIEW THE CONTROL ROD DRIVE (CRD) SYSTEM AND DEVELOP PROPOSED ACTIONS TO ADDRESS ITS RELIABILITY AND MAINTAINABILITY.	STATUS: 18 CRDS HAVE BEEN MODIFIED BY SEAL WELDING. ALL MODIFIED CRDS ARE OPERABLE. MODIFICATION PKG BEING ROUTED FOR CLOSE OUT.
B-152 898	31	BREAKER REPLACEMENT STRATEGY	94 REF OUT
		SCOPE: DEVELOP A PROGRAM FOR SCHEDULING/TESTING OF BREAKERS THAT PROVIDES ASSURANCE THAT UNNECESSARY TESTING ASSOCIATED FAILURES ARE MINIMIZED AND ANTICIPATES NECESSARY REPLACEMENTS.	STATUS: CREATED A LIST OF 480 VAC BREAKER/MODEL NUMBERS. CONFIRMED REQUIRED MODEL NUMBER FOR REPLACEMENT BREAKER. WILL DEVELOP REQUIRED STRATEGY.



02/21/94

BIG ROCK POINT PLANT  
INTEGRATED PLAN  
TYPE ' B ' PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
B-155 911	1	SCREENHOUSE INTAKE CONTINUOUS HOCL OR CL2	09-01-94

SCOPE:  
ZEBRA MUSSEL CONTROL - TANK, PUMPS, PIPE, INSTRUMENTS SAMPLE SYSTEM, BIO BOX, CORROSION COUPON RACK & CHEMICAL FEEDLINE.

STATUS:  
DESIGN IN PROGRESS. BIO BOX, CORROSION COUPON RACK & CHEM FEED LINE INSTALLED INTE-RIM CHEM & HT TREATMENT HAVE BEEN PERFORMED. FINAL DESIGN WILL PROVIDE CONTINUOUS CHLORI-NATION FOR SWS & FPS & PERIODIC CHEM TREAT-MENT FOR RAW LAKE WATER SYSTEMS.

B-158 905	10	MAKEUP DEMIN REPLACEMENT	09-01-94
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SCOPE:  
FC-684A; REMOVE NEUT. TANK & ASSOC PIPING FC-684B; INSTALL INTERLAKE R/O UNIT IN NEUT. TANK AREA.

STATUS:  
FC BEING PREPARED TO REMOVE NEUT TANK NEW RO UNIT WILL BE INSTALLED AFTER NEUT TANK IS REMOVED.  
EXISTING DEMIN. WILL BE RETIRED IN PLACE OR REMOVED LATER.

B-159 907	13	MO-7070/VPI-303 SPOOL PIECE MONIT & VENTING	94 REF OUT
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SCOPE:  
THIS SPECIFICATION CHANGE WILL ADD FOUR (4) TEMPERATURE MONITORING POINTS ON TR-1055. THE NEW POINTS ARE TO MONITOR THE REDUNDANT CORE SPRAY HEADER TEMPERATURES NEAR MO-7070; MO-7071 & VPI-303.

STATUS:  
WORKING ON FINAL DESIGN.

02/21/94

BIG ROCK POINT PLANT  
INTEGRATED PLAN  
TYPE ' B ' PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
B-161 935	13	CRD PUMP RV LEAKAGE RESOLUTION	05-01-94
		SCOPE: INSTALL DESURGERS AT RELIEF VALVE FOR EACH CRD PUMP.	STATUS: CONCEPTUAL DESIGN COMPLETE. DETAILED ENGINEERING IN PROGRESS. WILL BE INSTALLED DURING PLANT OPERATIONS.
B-162 935	8	LOADING DOCK CRANE HOIST BRAKE REPLACEMENT	05-01-94
		SCOPE: REPLACE LOADING DOCK CRANE HOIST BRAKE ASSEMBLY	STATUS: EXISTING HOIST BRAKE IS UNRELIABLE AND WILL BE REPLACED. PARTS ON HAND. SC PACKAGE BEING REVIEWED. FIELD WORK WILL BE WITH RX CRANE CABLE REPL. & TURB CRANE INSP. FIELD WORK RESCHEDULED 1ST WEEK OF APRIL DUE TO WEATHER CONDITIONS IN THE LOADING DOCK.
B-163 936	6	REPLACE VPI-304, VP-301 & VP-302	05-30-94
		SCOPE: INVESTIGATE EXTENDING FREQUENCY BETWEEN TESTING TO REDUCE PERSONNEL RADIATION EXPOSURE.	STATUS: NEW 1ST SUBMITTAL INCLUDES CHANGE IN TESTING FREQUENCY FOR VP-301 & VP-302 TO ONE OF THESE VALVES EACH REFUELING OUTAGE IN ACCORDANCE WITH GENERIC LETTER 89-04.

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BIG ROCK POINT PLANT  
INTEGRATED PLAN  
TYPE / B / PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
B-164 938	13	COND STORAGE TANK SAMPLING LOCATION CHANGE	06-01-94

SCOPE:  
RELOCATION OF SAMPLE VALVE FROM  
CONDENSATE STORAGE TANK PIT. THIS  
WILL ALLOW MORE FREQUENT TESTING AND  
ELIMINATE RISK OF PERSONNEL INJURY.

STATUS:  
DESIGN COMPLETE. AWAITING TECH-REVIEW AND  
INSTALLATION.

B-165  
937

12 PM PROGRAM REVIEW & UPGRADE

07-01-94

SCOPE:  
EVALUATE AND DOCUMENT BASIS FOR EXISTING  
PM TASKS. REVISE AND ADD PM TASKS WHERE  
NECESSARY BASED ON EVALUATION OF CRITICAL  
COMPONENTS.

STATUS:  
EVALUATION OF FINAL SYS'S PRACS COMPLETED IN  
NOV. AWAITING TECH REVIEW COMPLETION ON  
5 SYS'S. 38 SYS'S HAVE BEEN APPROVED THROUGH  
STEERING COMMITTEE. OUTLIER EVALU PHASE OF  
PROJ IS UNDERWAY. PROJ ON SCHEDULE FOR  
7/1/94.

B-168  
958

17 REPLACE CV-4010 & CV-4114

94 REF OUT

SCOPE:  
REPLACE VALVES AND OPERATORS

STATUS:  
ASSEMBLING INFORMATION TO ESTABLISH BOUNDS  
OF PROJECT.

02/21/94

BIG ROCK POINT PLANT  
INTEGRATED PLAN  
TYPE ' B ' PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
B -167 954	28	REPLACE TR-IA66	00-00-00
		SCOPE: REPLACE EXISTING TR-IA66 WITH NEW TRACTOR WESTRONICS RECORDER.	STATUS: INITIAL SCOPING COMPLETE.
B -170 21	17	RAD. WASTE PIPING 2" BW FITTINGS	94 REF OUT
		SCOPE: REPLACE APPROX. 40' OF RAD WASTE PIPING.	STATUS: THE REPLACEMENT 2" CARBON STEEL PIPING WILL HAVE CLEANDUT FITTINGS FOR FLUSHING & BW FITTING IN PLACE OF EXISTING SW FITTING TO REDUCE DOSE.
B -171 959	10	REPLACE MO/VOP-7066	94 REF OUT
		SCOPE: THIS PROJECT WILL REPLACE BOTH THE VALVE (MO-7066) AS WELL AS THE OPERATOR (VOP-7066) FOR FIRE WATER TO THE CORE SPRAY HEAT EXCHANGER.	STATUS: SPECIFICATION TO BUY NEW VOP OUT FOR TECHNICAL REVIEW. PURCHASING DEPART- MENT CANVASING SUPPLIERS FOR REPLACE- MENT VALVE (MO).

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BIG ROCK POINT PLANT  
INTEGRATED PLAN  
TYPE 'B' PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
B-172 957	17	CONTAINMENT COATING	09-01-94

SCOPE:  
REPAIR COATINGS ROOM 435 SPHERE  
STATUS:  
EQUIPMENT PURCHASE COMPLETE. A QUALIFIED COATING PROCEDURE HAS DEVELOPED. EVALUATION OF AREAS REQUIRING REPAIR IS ONGOING.

B-173 960	5	REPLACE EFP PANEL	94 REF DUT
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SCOPE:  
THIS PROJECT WILL REPLACE THE ELECTRIC FIRE PUMP CONTROL PANEL C-77.  
STATUS:  
A NUMBER OF QUOTES FOR THE REPLACEMENT PANEL HAVE BEEN OBTAINED AND ARE BEING EVALUATED.

B-174 951	24	ASCO SOLENOID IMPROVEMENT	00-00-00
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SCOPE:  
EVALUATING PLANT ASCO SOLENOID VALVES FOR REPLACEMENT OR REBUILDING  
STATUS:  
SOLENOID REPLACEMENTS FOR 94 REFOUT BEING EVALUATED

02/21/94

BIG ROCK POINT PLANT  
INTEGRATED PLAN  
TYPE ' B ' PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
B-175 956	5	REPLACE E.G. COOLING PUMP	94 REF OUT

SCOPE:  
REPLACE EDG COOLING PUMP CASING

STATUS:  
REPLACE EDG COOLING PUMP CASING AND ADD  
FLOW GAUGE AND VALVE TO BETTER MONITOR  
AND REGULATE PUMP PERFORMANCE. ALSO  
INVESTIGATE THE POSSIBILITY OF ELIMINATING  
USE OF THE PRIMING HEAD TANK.