



Consumers
Power

**POWERING
MICHIGAN'S PROGRESS**

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

William L. Beckman
Plant Manager

February 25, 1991

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 14

As required by the Big Rock Point operating license, this letter provides the fourteenth 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, 1990 UPDATE

Four (4) new issues have been added to the Integrated Plan and ten (10) issues were completed/cancelled. There are two (2) active "A" issues (established by NRC rule, order, or license condition); nine (9) active "BN" issues (initiated by the NRC or commitment to the NRC) and fifteen (15) active "B" issues (initiated by the company or an agency other than NRC), totaling twenty-six (26) active issues.

ISSUES ADDED

BN-130A - Install Instrument Air Filtering

Generic Letter 88-14 evaluation and testing of the Instrument Air System identified concentrations of particulates and hydrocarbons in excess of ANSI standards. Installation of instrument air filtering at strategic locations using ANSI/ISA-S7.3-1975 as guidance will improve air quality for safety related equipment operation.

B-147 - Fire Protection System Modifications

Degradation of the fire header which supplies the core spray lines was observed during the 1990 Refueling Outage. A pin hole leak appeared to be caused by internal corrosion of the piping. The pipe wall cross section was essentially unaffected eliminating pipe wall rupture concerns. Numerous deposits or nodules were found attached to the inside diameter. Inspection of in-line basket strainers showed the nodules to be tightly adhering and not loose in the system. The project associated with this problem is to resolve existence of corrosion/nodules in the fire system.

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B-148 - Feedwater Test Stand Replacement

Replacement of the existing feedwater test stand is necessary to enhance corrosion product sampling and plant housekeeping. The proposed replacement will retire unnecessary equipment and provide a bypass to assure turbulent flow for sampling purposes.

B-149 - MO-7050 and MO-7067 Access

Maintenance access for MO-7050 and MO-7067 is lacking. The present method of rigging has too high a probability of dropping equipment which could result in personnel injury or equipment damage. The resolution for this issue is to provide a method for safe removal of valve components.

ISSUES RERANKED

None

ISSUES COMPLETED/CANCELLED

BN-005H - Isolation Valve Indication

This project was initiated to resolve a Control Room Design Review (CRDR) Human Engineering Deficiency (HED). The modification involved rearrangement of the containment isolation valve status matrix on C02-2 panel within the control room. The rearrangement grouped systems, replaced nameplates and added demarcation.

BN-006 - Safety Parameter Display System (SPDS)

SPDS justification for using the control room as the SPDS was submitted to the NRC for approval as part of the CRDR Summary Report. Issue BN-0054, Critical Safety Functions (CSF), was undertaken to apply human factors to the control room instruments considered as critical safety function indication. An NRC audit of CRDR and SPDS recommended using CSF to satisfy SPDS requirements with some modifications. Issue BN-005A was cancelled and its actions and the NRC recommendation for SPDS were addressed under this issue. The required rearrangement and changes to instrumentation including demarcation have been completed.

B-016 - Secondary System Instabilities

Secondary system instabilities have been addressed by improving the availability of feedwater after a load rejection by tripping one reactor recirculation pump concurrent with the load rejection. The load rejection/automatic reactor recirculation pump trip modification added a new relay control scheme. The control circuitry automatically trips one (1) selected reactor recirculation pump upon either of the following conditions:
a) turbine load rejection and operation of K-386B auxiliary relay, or
b) an increase in reactor pressure to a value of equal to or greater than 100 psi above normal operating pressure.

B-123 - Replace Control Room Recorders

The original scope of this issue was to replace six (6) control room recorders. The last recorder CR-6050 was replaced during the 1990 Refueling Outage completing this issue. It should be noted that additional recorder replacements are envisioned and will be done as new issues when appropriate, such as B-155, "Replace TR-9623 and Associated RTDs".

B-131 - Diesel Generator Reliability Program

This issue resulted from an evaluation of the Station Blackout Rule. The maintenance of high diesel generator reliability was considered necessary to address the possibility of the loss of off-site power. A trending/reliability program was developed using the guidance of NUMARC 87-00 and Regulatory Guide 1.155.

B-134 - Relief Valve Test Stand

This issue was initiated to improve reliability of plant relief valves. The procurement of a relief valve test stand and its controlled use are anticipated to increase uniformity in setting and testing relief valves. These improvements were used during the 1990 Refueling Outage.

B-135 - Reactor Recirculation Pump Vibration Monitoring

This project had a low TRG ranking and score. The project was reviewed with both TRG and plant management. A decision to cancel this project was made based on the low benefit as denoted by the TRG ranking and relatively high cost in engineering time, expenditures and personnel exposure.

B-136 - Provide Replacement Valve for Feedwater Regulation

The anticipated difficulties with disassembly and reassembly of this valve makes replacement of this valve necessary if maintenance is required. The lead time for procurement of the valve was such that it would have significantly affected availability. A replacement valve has been procured.

BN-139 - Open Cycle Cooling System Program - Generic Letter 89-13

Inspections were completed during the 1990 Refueling Outage and monitoring methods have been established. CPCo letter to the NRC, dated 11/30/90 informed the NRC that our commitments to the Generic Letter were complete.

B-142 - EDG Time Delay Overcurrent Relays

A time delay relay has been installed within the starting circuit of the EDG. The purpose of the relay is to prevent loss of the diesel in the event of a three phase short on 2B bus giving the branch circuit protective device an opportunity to open before the fault causes the main breaker of the diesel to open.

ACTIVE ISSUES FOR WHICH SIGNIFICANT PROGRESS HAS BEEN MADE

BN-014A - Resolution of Seismic Issues

Seismic weak links identified as significant by PRA evaluation are nearly resolved. The last two weak links to be addressed have been evaluated with more sophisticated analysis and the draft reports indicate that no further modifications will be needed. This project is scheduled for completion by 04/01/91.

A-112 - Alternate Rod Injection

An exemption request was submitted to not provide alternate rod injection and to address Secondary System Instabilities, Issue B-016, as a more beneficial way to reduce overall plant risk. With the completion of Issue B-016, all actions required for approval of the exemption request have been completed.

B-128 - Replacement of Cable in Recirc Pump Room

Polyethylene cable replacement for feedwater recirculation loop #2 was completed during the 1990 Refueling Outage. Phase 3 which will complete the work is scheduled for 1991-92 Refueling Outage. The last phase entails the most terminations (~70% of total).

BN-130 - Evaluation of Instrument Air System Per Generic Letter 88-14

Review of the instrument air system is nearly complete. Drawing and equipment updates are in progress. The surveillance program has been established. Completion of the actions required by the Generic Letter is scheduled for 06/30/91. The 1990 air quality testing showed very similar results to those from 1989. New issue BN-103A will install filtering to address deficient area. Improvements in the overall air system is being covered by issue B-126A.

A-132 - Simulator Facility Plan

The Simulation Facility Project has been upgraded in an attempt to provide an enhanced BRP Specific Limited Scope Simulator and eliminate the use of the Dresden Simulator. The Limited Scope Simulator Development has been accelerated to include a significant portion of

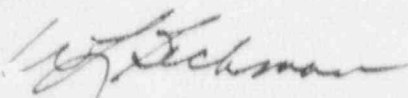
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the Phase II instrumentation and controls as early as possible. Efforts are being made to provide the additional human factors reviews and performance testing results required by this accelerated approach with the May 26, 1991 submittal.

B-143 - Pump Flow Meter Installation for Section XI

Installation of the flow meter for ASME pump testing was completed during the 1990 Refueling Outage. Documentation closeout is in progress.



William L. Beckman
Plant Manager

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

Attachments

ATTACHMENT 1

Consumers Power Company
Big Rock Point Plant
Docket 50-155

ISSUE INDEX FOR THE
BIG ROCK POINT INTEGRATED PLAN

February 18, 1991

8 Pages

ISSUES BY ISSUE NUMBER

ISSUE NUMBER	ISSUE RANK	ISSUE DESCRIPTION	STATUS
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	14	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	18	ECS LEVEL IMPROVEMENTS	ACTIVE
BN-005G	26	RELOCATE RELIEF VALVE ACOUSTIC MONITOR	ACTIVE
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	10	RESOLUTION OF SEISMIC ISSUES	ACTIVE
BN-014B*	-	SEISMIC ADEQUACY OF ACTIVE COMPONENTS	COMPLETE

*Replaced by BN-014C
 MI0287-0084A-BX01

ISSUES BY ISSUE NUMBER

<u>ISSUE NUMBER</u>	<u>ISSUE RANK</u>	<u>ISSUE DESCRIPTION</u>	<u>STATUS</u>
BN-014C	14	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

ISSUES BY ISSUE NUMBER

ISSUE NUMBER	ISSUE RANK	ISSUE DESCRIPTION	STATUS
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 CNUBBERS	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

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ISSUES BY ISSUE NUMBER

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<u>ISSUE NUMBER</u>	<u>ISSUE RANK</u>	<u>ISSUE DESCRIPTION</u>	<u>STATUS</u>
B-053	-	PIPE BREAKS OUTSIDE CONTAINMENT	COMPLETE
B-054	-	PLANT SHIELDING - NUREG-0757 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	-	EMERGENCY DG 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

ISSUES BY ISSUE NUMBER

ISSUE NUMBER	ISSUE RANK	ISSUE DESCRIPTION	STATUS
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	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 ISOL VALVE UPSTREAM OF CV-4027	COMPLETE

*This issue was combined with Issue B-82

ISSUES BY ISSUE NUMBER

ISSUE NUMBER	ISSUE RANK	ISSUE DESCRIPTION	STATUS
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 MANUALS	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	COMPLETE
B-104A	12	CORE SPRAY PUMP SUCTION STRAINER BLOCKAGE	ACTIVE
B-105	-	REACTOR DEPRESSURIZATION SYSTEM HANGER REPLACEMENT	COMPLETE
B-106	-	REMOVE TURBINE GRATING	CANCELLED
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	7	ALTERNATE ROD INJECTION	ACTIVE
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	10	ALTERNATE SOURCE OF CONDENSER HOTWELL MAKEUP	ACTIVE
B-116	-	CLEANUP DEMIN PIT ACCESS HANDRAIL	COMPLETE
B-117	-	REPLACE DIESEL FIRE PUMP ENGINE	COMPLETE
B-118	-	UNDER WATER FILTERING SYSTEM FOR SPENT FUEL POOL	COMPLETE

*Replaced by B-104A

ISSUES BY ISSUE NUMBER

ISSUE NUMBER	ISSUE RANK	ISSUE DESCRIPTION	STATUS
B-119	1	ACID SYSTEM MODIFICATIONS TO ELIMINATE PIPING CORROSION	ACTIVE
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	2	STATION AIR SYSTEM UPGRADE	ACTIVE
B-127	-	REPLACE INSTRUMENT AIR DRYER	COMPLETE
B-128	5	REPLACEMENT OF CABLE IN RECIRC PUMP ROOM	ACTIVE
B-129	-	REWIRE CRD ACCUMULATOR PRESSURE SWITCH & LEAK DETECTOR SCHEMES	COMPLETE
BN-130	23	EVALUATION OF INSTRUMENT AIR SYSTEM PER GENERIC LETTER 88-14	ACTIVE
BN-130A	25	INSTALL INSTRUMENT AIR FILTERING	ACTIVE
B-131		DIESEL GENERATOR RELIABILITY PROGRAM	COMPLETE
A-132	6	SIMULATOR FACILITY PLAN	ACTIVE
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	4	INDIVIDUAL PLANT EXAM (IPE) PROGRAM - GENERIC LETTER 88-20	ACTIVE
BN-138	12	MOV PROGRAM - GENERIC LETTER 89-10	ACTIVE
BN-139		OPEN CYCLE COOLING SYSTEM PROGRAM - GENERIC LETTER 89-13	COMPLETE
B-140	18	GENERATOR SYNCHRONIZING RELAY INSTALLATION	ACTIVE

ISSUES BY ISSUE NUMBER

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<u>ISSUE NUMBER</u>	<u>ISSUE RANK</u>	<u>ISSUE DESCRIPTION</u>	<u>STATUS</u>
B-141	16	BRP COORDINATION ANALYSIS MODIFICATIONS	ACTIVE
B-142		EDG TIME DELAY OVERCURRENT RELAYS	COMPLETE
B-143	18	PUMP FLOW METER INSTALLATION FOR SECTION XI	ACTIVE
B-144	18	REPLACE TR 9623 AND ASSOCIATED RTDs	ACTIVE
B-145	18	GENERAL ELECTRIC HFA RELAYS	ACTIVE
B-146	23	REPLACE/MODIFY BREAKER PANELBOARD 2P	ACTIVE
B-147	2	FIRE PROTECTION SYSTEM MODIFICATIONS	ACTIVE
B-148	16	FEEDWATER TEST STAND REPLACEMENT	ACTIVE
B-149	10	MO-7050 AND MO-7067 ACCESS	ACTIVE

ATTACHMENT 2

Consumers Power Company

Big Rock Point Plant

Docket 50-155

BIG ROCK POINT INTEGRATED PLAN

OPEN ISSUES

02/27/91

SIG ROCK POINT PLANT
INTEGRATED PLAN
TYPE 'A' PROJECTS

ISSUE NUMBER	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
A-112 685	7 ALTERNATE ROD INJECTION	00-00-00
SCOPE: PERFORM ADDITIONAL RISK-BASED EVALUATIONS TO DETERMINE THE EFFICACY OF ALTERNATE ROD INJECTION (10CFR50.62).		
STATUS: RISK ANAL COMPLETED & PRESENTED TO TRS. ANAL SUBMITTED TO NRC 10/1/86 & FOLLOW-UP EXEMPT- TION REQUEST ON 12/29/86. NRC REQUESTED SRP BE EXEMPT FROM INSTALLING AN ALTERNATE ROD INJECTION SYSTEM OR MODIFIED VERSION. WAITING ON NRC APPROVAL OF EXEMPTION.		
A-122 827	5 SIMULATION FACILITY	05-26-91
SCOPE: DEVELOP SIM. FAC. CONSISTING OF ON-SITE FULL SCALE OR STATIC REPAIR W/PART TASK ENHANCE- MENT USING PHYS. DEVICE MOCKUPS, DYNAMICS SIM. A WORK STATION WITH I/O'S USING SINGER RETACT SOFTWARE, ADDITIONAL DYNAMICS VIO USE OF B&O COMP SYS WILL ELIMINATE NEED FOR CRUTEN.		
STATUS: TRAINING & ACCEPTANCE TESTING OF RETACT WORK- STATION IS IN PROGRESS. PRESENTATION TO NRC WAS HELD ON 11/14/90. R-111 APPROVED NOT USING DRESDEN FOR FALL OF ENGINE. TESTING EXEMPTION REQUEST APPROVED 9/10/90. REV TO APPLICATION WAS SUBMITTED 11/14/90.		

02/27/91

816 ROCK POINT PLANT
INTEGRATED PLAN
TYPE "B" PROJECTS

ISSUE NUMBER	PLAN NUMBER	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
BN-005B 766	14	IMPROVE COMMUNICATIONS SCOPE: INSTALL P4 SYSTEM CONTROL RM SPEAKER NOTE SW. INSTALL COMMUNICATION 'HEAR-HERE OR EQUI' L. BOOTH IN SCREEN HOUSE. (AR COMPRESSOR RM AND AT DESIGNE FRONT STATION). PROVIDE ADDITIONAL P4 COVERAGE IN AREAS NOT PRESENTLY COVERED (60% SURVEY REQ'D: - (SEE AIR-BPT-88-06/6 JT)).	12-31-91
BN-005F 772	18	ECS LEVEL IMPROVEMENT SCOPE: MODIFY EMERGENCY CONDENSER LEVEL INDICATING SYSTEM TO: (1) PROVIDE LEVEL INDICATION IN ACTIVE AREA OF LEVEL INSTRUMENTATION RANGE AND (2) PROVIDE NORMAL LEVEL INDICATION IN ACTIVE AREA OF LEVEL INSTRUMENTATION RANGE.	12-31-92
BN-005G 773	26	RELOCATE 50N 2/IN RELIEF VLV ACROUSTIC NOISES SCOPE: RELOCATE 2" IN DRUM RELIEF VALVE ACROUSTIC MONITOR FROM THE FRONT OF THE MAIN PANEL TO THE BACK. MOUNT AT ELEVATION WHICH ALLOWS EASY ACCESS. INCORPORATE ALARM INTO ANNUNCIATORS AND ELIMINATE INTERNAL AUDIBLE ALARM.	12-31-92

STATUS:
INITIAL SCOPING HAS BEGUN. SCHEDULE AND
DESIGN PACKAGE TO BE DEVELOPED. WORK WILL
CONTINUE AFTER COMPLETION OF OTHER HIGHER
PRIORITY PROJECTS.

STATUS:
WORK WILL COMMENCE AFTER COMPLETION OF OTHER
HIGHER PRIORITY PROJECTS. SCHEDULE TO BE
DEVELOPED.

STATUS:
PROJECT ASSIGNED, NO ENGINEERING STARTED.
AN EVALUATION OF OPTIONS TO EXISTING
AVAILABLE MANPOWER, COMPLETION SCHEDULE,
AND PROJECT SCOPE IS BEING PREPARED.

02/27/91

BIG ROCK POINT PLANT
INTEGRATED PLAN
TYPE : EN : PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
BN-0140 847	8	MODIFY EN CONDENSER SHELL SUPPORTS	04-01-91
<p>SCOPE:</p> <p>EVALUATE THE EMERGENCY CONDENSER SHELL SUPPORTS TO WITHSTAND SEISMIC LOADS GREATER THAN THOSE INCURRED BY THE ESTABLISHED SITE SPECIFIC EARTHQUAKE.</p> <p>STATUS:</p> <p>ANALYSIS HAVE EVALUATED EXISTING ANCHORAGE AND DETERMINED THAT MODIFICATION IS NOT NECESSARY. FINAL REPORT HAS BEEN SUBMITTED. AWAITING FINAL REPORT REVIEW BY ESS ENGR.</p>			
BN-0140* 846	8	ENGINEERING ANALYSIS OF BLOCK WALLS (3)	04-01-91
<p>SCOPE:</p> <p>PERFORM A 2-D NON-LINEAR ANALYSIS OF BLOCK WALLS M100.20, M100.21, AND M100.23 TO DEMONSTRATE THEIR SEISMIC CAPACITY IS GREATER THAN THE ESTABLISHED SITE SPECIFIC EARTHQUAKE.</p> <p>STATUS:</p> <p>ANALYSIS HAS BEEN PERFORMED BY CONSULTANTS. FINAL REPORT HAS BEEN SUBMITTED. CPD ESS ENGINEERING IS PERFORMING INDEPENDENT REVIEW OF FINAL REPORT. WORK IS ONGOING.</p>			
BN-0140 737	14	VERIF. OF SEISMIC ADEQUACY OF ACTIVE COMP.	00-00-00
<p>SCOPE:</p> <p>ASSEMBLE AND TRAIL WALKDOWN TEAM. DETERMINE SAFE SHUTDOWN PATHS. PERFORM SYSTEM/ EQUIPMENT WALKDOWNS AND IDENTIFY EQUIPMENT OUTLIERS.</p> <p>STATUS:</p> <p>IMPLEMENTATION SCHEDULE TO BE DETERMINED. WILL BE CONSISTENT WITH SCHEDULE PROPOSED BY SPMG. SAFE SHUTDOWN EQUIPMENT LIST BEING DEVELOPED.</p>			

02/27/91

BIG ROCK POINT PLANT

INTEGRATED I-40

TYPE: BN - PM - ELLIS

PLAN
SCHEDULED
COMPLETION
DATEISSUE
NUMBER

RUPP

ISSUE
TITLEBN-130
788

23 EVAL INST AIR SWS PER GENERIC LTR 88-14

SCOPE:

EVALUATE INSTRUMENT AIR SYSTEM & ASSOCIATED EQUIP IN ACCORDANCE WITH REQUIREMENTS OF GL 88-14. FC-655 PERMITS CONTINUOUS MONITORING OF INST. AIR BEN POINT FOR COMPLIANCE WITH AIR QUALITY STANDARDS AND EFFICIENT OPERATION OF DRYER.

STATUS:

IDENTIFIED SCOPE OF GL 88-14. 180 DAY RESP. COMPLETE. PRELIMINARY INST AIR PIPING WALK-DOWN DMS ARE COMPLETE. VERIFICATION OF DRAWINGS COMPLETE. DMS CHANGES IN PROGRESS. CONCEPTUAL DESIGN OF FC-655 COMPLETE. MAJOR PARTS ORDERED. DETAIL DESIGN IN PROGRESS.

06-30-91

BN-1304
870

25 INSTALL INSURGENT AIR FILTERING

SCOPE:

INSTALL INSURGENT AIR FILTERING AT STRATEGIC LOCATIONS TO INSURE AIR QUALITY FOR SAFETY RELATED EQUIPMENT OPERATION. TO BE IN COMPLIANCE WITH 4051/150-57.3-1075.

STATUS:

PROJECT ASSIGNED. NO INITIAL SCOPING PERFORMED.

93 REFOUT

BN-137
856

4 TERTIARY PLANT EXAM (IPE) PROGRAM

SCOPE:

COMPLETION OF A LEVEL I PRA UPDATE AND CONTAINMENT ANALYSIS.

STATUS:

WORK HAS BEGUN ON EVENT TREES. CONTINUING SIMULATION FACILITY WORK HAS NOTED PROGRESS. CONTAINMENT ANALYSIS MODELING CONTRACTED TO GEA (GEOR KENTON ASSOCIATES).

09-01-93

NOTES

SCHEMIVALED

DATE _____

0161-2201-944

MOV PROGRAM - GENERIC LETTER 89-10

BN-133
954

CONTROL OF IMPPELL HAS COMPLETED DESIGN-BASIS STUDY DRAFT PROGRAM PLAN. BOTH ARE BEING REVIEWED. IMPLEMENTATION WILL BEGIN FOR NEXT 5 YEARS.

02/27/91

BIG ROCK POINT PLANT
INTEGRATED PLAN
TYPE "B" PROJECTS

ISSUE NUMBER	ISSUE NUMBER	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
B-1044 521	12	COPE SPRAY PUMP SUCTION STRAINER BLOCKAGE SCOPE: INSTALL REINFORCED CONE SPRAY PUMP SUCTION STRAINER, SCREENS.	06-01-91
B-1154 515	10	ALTERNATE SOURCE OF MAKE-UP TO COND HOTWELL SCOPE: PROVIDE A HEARS OF FLOODING WATER TO THE CONDENSER HOTWELL WITH EXISTING PIPING, WITH AUTO SHUTOFF CAPABILITY.	03 REF OUT
B-117 729	1	ACID SYSTEM MTD. TO ELIMINATE PIPING EROSION SCOPE: IMPROVE CONTACT ACID ADDITION SYSTEM TO ELIMINATE PERSONNEL SAFETY CONCERNS AND IMPROVE SYSTEM RELIABILITY.	03-01-91

STATUS:
DETERMINED THAT ADDING SCREENS TO THE
APPLICABLE DOWNWAYS WILL AFFECT THE
POSSIBILITY OF FLUGGING SUCTION STRAINER
SCREENS. PC IN PROGRESS; PRELIMINARY ENGR
H&G IN ROUTING. DETAILED ENGINEERING IN
PROGRESS.

STATUS:
METHOD SELECTED IS USE OF THE EXISTING TIE-IN
FROM THE FIRE WATER SYSTEM. SCHEDULE HAS
BEEN DEVELOPED; FINAL SPECIFICATIONS HAVE
BEEN DEVELOPED. ORDERS FOR NEW VALVES HAVE
BEEN PLACED. WORK IS ONGOING.

STATUS:
CA-6053 INSTALLED. DRAWING REVISIONS AND
CLOSEOUT IN PROGRESS.

02/27/91

BIG ROCK POINT PLANT
INTEGRATED PLAN
TYPE B PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
B -1254 763	2	STATION VR SYSTEM UPGRADE SCOPE: INSTALL ONE ADDITIONAL AIR COMPRESSOR. ADD FLOW/TEMPERATURE INSTRUMENTS.	06-01-91
B -128 787	5	REPLACEMENT OF CABLES IN RECIRC PUMP ROOM SCOPE: REPLACE ALL POLYETHYLENE CABLES IN THE RECIRC PUMP ROOM. EVALUATE NEED TO REPLACE OTHER TYPES OF CABLES.	91 REF OUT
B -140 796	18	GENERATOR SYNCHRONIZING RELAY INSTALLATION SCOPE: INSTALL SYNCHRONIZING CHECK RELAY(S) TO PREVENT SYNCHRONIZING THE GENERATOR TO THE SYSTEM AT LARGE PHASE ANGLES.	93 REF OUT

STATUS:
FC-6484 IS COMPLETE. AIR COMPRESSOR IS ON
SITE. REFOUT WORK FOR SERVICE AIR TIE-IN,
POWER TIE-IN AND PCV-4502 BYPASS PER FC-6488
IS COMPLETE. CLOSEOUT IN PROGRESS. FINAL
INSTALL. PLANNED FOR MARCH 1991 VIA FC-6486.
FC-6488 75% COMPLETE; FC-6486 25% COMPLETE.

STATUS:
CABLE REPLACEMENT ON R/P #2 LOOP EQUIPMENT
IS COMPLETE. TESTING OF EQUIP IS COMPLETE.
LOC UPDATES FOR 70 WORKSHEET ARE SUBMITTED.
THIS PROJECT ALSO INCLUDES 91 WORKSCOPE.
PROCESSES FOR CABLE REPLACEMENT NEED TO BE
WRITTEN.

STATUS:
INITIAL INVESTIGATION AND EQUIPMENT
REQUIREMENTS ESTABLISHED BY SYSTEM PLANNING
AND PROTECTION - OUTAGE REQUIRED.
NO WORK HAS BEEN PERFORMED ON PROPOSED
DEVELOPMENT.

02/27/91

BIG ROCK POINT PLUM
INTEGRATED PLAN
TYPE B PROJECTS

ISSUE NUMBER	RAW	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
8-143 811	16	ERP COORDINATION ANALYSIS MODIFICATIONS SCOPE: UPGRADE BREAKERS/WIRING TO MEET RECOMMENDATIONS OF THE "BPP COORDINATION ANALYSIS" PROVIDED BY SYSTEM PROTECTION LEVEL 3 ONP.	91 REF OUT
8-143 825	18	PUMP FLOW METER INSTALL FOR SEC M7 SCOPE: INSTALL FLOW METERS TO MEASURE THE FLOW RATE OF CORE SPRAY PUMPS AND THE ELECTRIC B DIESEL FIRE PUMPS.	03-01-91
8-144 852	18	REPLACE TR-9623 & RTDS SCOPE: REPLACE TR-9623 AND ASSOCIATED RTDS.	91 REFUT

STATUS:
SC-82-0098 HAS ONE OPEN MAINTENANCE
ORDER TO BE RESOLVED BY THE 91 REFUT.
SC-89-0040 - DEFERRED WITH TARGET DATE
FOR COMPLETION DURING 91 REFUT.

STATUS:
FEASIBILITY/ AUTHORIZATION COMPLETE.
CLOSEOUT IN PROGRESS.

STATUS:
PROJECT ASSIGNED. NO ENGINEERING STARTED.

02/27/91

BIG ROCK POINT PLANT
INTEGRATED PLAN
TYPE 'B' PROJECTS

ISSUE NUMBER	RANK	ISSUE TITLE	PLAN SCHEDULED COMPLETION DATE
3-145 867	1B	PREPARE EVAL TO A-EAP-90-10 FOR NEA RELAYS	91 REFOUT
8-146 863	2B	REPLACE/MODIFY BREWER PANEL	91 REFOUT
8-147 873	2	RESOLVE EXIST CORROSION/MODULES IN FPS	91 REFOUT

SCOPE:

IDENTIFY ALL NEA RELAYS AND ENTER
RELAYS TO THE EQUIPMENT DATABASE (EDDB).
DETERMINE BIG ROCK POINT'S APPROACH REGARDING
NUCLEAR 1E AND NON-1E APPLICATION.

STATUS:

THIRTY-FIVE NEA RELAYS WERE IDENTIFIED AND
ENTERED ON THE EDDB. LETTER TO PPC REGARDING
ERP'S APPROACH WAS SUBMITTED 10/10/90. NO
SUBMITTED TO CHECK ON SPS NEA RELAY. THIS
SHOULD BE SCHEDULED AT SOME TIME AS BREWER
TESTING FOR 152-104 (11361).

SCOPE:

REPLACE OR IDENTIFY BREWER PANELBOARD ON
IN SPHERE.

STATUS:

PRELIMINARY SCOPING IS UNDERWAY.

SCOPE:

RESOLVE EXISTENCE OF CORROSION IN THE FIRE
SYSTEM AS THEY AFFECT ECCS CAPABILITY AND
PIPE INTEGRITY.

STATUS:

PROJECT SCOPING IN INITIAL PHASE.

02/27/91

SIG ROCK POINT PLANT
INTEGRATED PLAN
TYPE B PROJECTS

PLAN
SCHEDULED
COMPLETION
DATE

ISSUE
NUMBER

DATE

TITLE

06-30-91

16 RELOCATE GE FEEDWATER TEST STATION

B-149
621

SCOPE:
RELOCATE AND REPLACE THE GE FEEDWATER
TEST STATION, AND SUPPLY BYPASS LINE TO
ENSURE TURBULENT FLOW THROUGH SAMPLING LINE.
BYPASS TO FLOW INTO SECTION SIDE OF FEED
PUMP.

STATUS:
CONCEPTUAL DESIGN PACKAGE IN REVIEW.

B-149
874

10 89-7050 & 89-7057 ACCESS

91 REPORT

SCOPE:
FIND A SAFE WAY TO REMOVE 89-7053 AND 89-7057
FOR MAINTENANCE WORK IN '91.

STATUS:
NEARLY ASSIGNED, REVIEW OF OPTIONS IN
PROGRESS.