JAN 22 1993

Docket Nos. 50-325, 50-324 License Nos. DPR-71, DPR-62

Carolina Power and Light Company ATTN: Mr. R. A. Watson Senior Vice President Nuclear Generation P. O. Box 1551 Raleigh, NC 27602

Gentlemen:

SUBJECT: MEETING SUMMARY - BRUNSWICK

This refers to the management meeting conducted at NRC's request in the Region II Office on January 6, 1992. The purpose of the meeting was to discuss restart issues at Brunswick. A list of attendees, a summary, and copy of your slides are enclosed.

It is our opinion that this meeting was beneficial in understanding the status of implementing your improvement programs. As mutually agreed, another such meeting (tentatively scheduled for February 4, 1993) will be confirmed under separate correspondence.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosures will be placed in the NRC Public Document Room.

Should you have any questions concerning this matter, please contact us.

Sincerely,

Original signed by: Jon R. Johnson/for

Ellis W. Merschoff, Director Division of Reactor Projects

Enclosures: 1. List of Attendees 2. Meeting Summary

3. Licensee Slides

cc w/encls: (See page 2)

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JAN 22 1993

Carolina Power and Light Company 2

cc w/encls: R. A. Anderson Vice President Brunswick Nuclear Project P. O. Box 10429 Southport, NC 28461

R. E. Morgan Plant Manager Unit 1 Brunswick Steam Electric Plant P. O. Box 10429 Southport, NC 28461

M. Brown Plant Manager Unit 2 Brunswick Steam Electric Plant P. O. Box 10429 Southport, NC 28461

H. Ray Starling Vice President - Legal Department Carolina Power and Light Co. P. O. Box 1551 Raleigh, NC 27602

Kelly Holden Eoard of Commissioners P. O. Box 249 Bolivia, NC 28422

Chrys Baggett State Clearinghouse Budget and Management 116 West Jones Street Raleigh, NC 27603

Dayne H. Brown, Director Division of Radiation Protection N. C. Department of Environment, Health & Natural Resources P. O. Box 27687 Raleigh, NC 27611-7687

H. A. Cole Special Deputy Attorney General State of North Carolina P. O. Box 629 Raleigh, NC 27602

(cc w/encls cont'd - See page 3)

Carolina Power and Light Company

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JAN 22 1993

(cc w/encls cont'd)
Robert P. Gruber
Executive Director
Public Staff - NCUC
P. 0. Box 29520
Raleigh, NC 27626-0520

Ms. Gayle B. Nichols Staff Counsel SC Public Service Commission P. O. Box 11649 Columbia, SC 29211

bcc w/enclS: Document Control Desk H. Christensen, RII R. Lo, NRR Ar Plisco, 200 NRC Resident Inspector U.S. Nuclear Regulatory Commission Star Route 1, Box 208 Southport, NC 28461

RII:DRP RII:DRP RII:DRP RII:DRP RII:DRP RCarroll:tj HChristensen DVerrelli JJoinson 01/2/93 01/2/93 01/2/93 01/2/93

ENCLOSURE 1

List of Attendees

Carolina Power and Light

- W. Cavanaugh III, President and Chief Operating Officer
- R. A. Watson, Senior Vice President, Nuclear Operations
- A. M. Lucas, Vice President, Nuclear Engineering Department
- R. A. Anderson, Vice President, Brunswick Nuclear Project (BNP)
- J. A. Dobbs, Special Assistant to Vice President, BNP
- J. M. Brown, Plant Manager, Brunswick Unit 2
- J. P. Cowan, Manager, Technical and Regulatory Support
- D. C. McCarthy, Manager, Nuclear Licensing
- L. I. Loflin, Manager, Nuclear Assessment Department
- M. D. Bradley, Manager, Brunswick Project Assessment
- E. M. Bean, Public Relations

Nuclear Regulatory Commission

S. D. Ebneter, Regional Administrator, Region II (RII)

- S. A. Varga, Director, Division of Reactor Projects I/II, Office of Nuclear Reactor Regulation (NRR)
- L. A. Reyes, Deputy Regional Administrator, RII
- A. F. Gibson, Director, Division of Reactor Safety (DRS), RII
- J. R. Johnson, Deputy Director, Division of Reactor Projects (DRP), RII
- E. G. Adensam, Director, Project Directorate (PD) 11-1, NRR
- D. M. Verrelli, Chief, Reactor Projects Branch 1, DRP, RII
- H. O. Christensen, Chief, Reactor Projects Section 1A, DRP, RII
- R. L. Prevatte, Senior Resident Inspector Brunswick
- P. D. Milano, Project Manager, PD II-1, NRR
- R. E. Carroll, Project Engineer, DRP, RII
- J. J. Lenahan, Reactor Inspector, Materials and Processes Section, DRS, RII
- K. M. Clark, Public Affairs, RII

ENCLOSURE 2

Meeting Summary

The licensee began their presentation with a brief status of short-term actions and emergency diesel generator (EDG) 1. After confirming their intent to address EDG 1 operability in a submittal to NRC by January 22, 1993, the licensee presented their backlog strategy.

CP&L characterized Brunswick's backlog as failing under one of four types: corrective maintenance; key operational items (i.e., temporary conditions, control room indicators out-of-service, and caution tags); engineering work/evaluation requests; and administrative support. Though not specifically captured by one of the above backlog types, CF&L confirmed that adverse condition reports were being reviewed for restart applicability. With the present influx of identified work items, the license indicated that more are coming in than are being worked. A characterization of the total integrated backlog as of January 4, 1993, was presented to be: 5509 pre-startup items; 4648 post-startup items; and 1640 items awaiting screening/classification. The approximate unit breakdown of this backlog was indicated to be 37 percent (Jnit 1), 48 percent (Unit 2), and 15 percent (other).

With regard to backlog management, CP&L stated that the highest management focus was being placed on priority 1-4 items for the 19 systems identified to be important to plant safety/reliability, priority 1-3 items for all systems, and key operational items. The presented open item strategy includes: system engineer involvement; work scheduling based on system priority, age, required plant conditions and related work; implementation of programs to reduce the number of future items (e.g., corrosion and recurring equipment failure programs); and improved work processes (e.g., minor maintenance program and work control process improvements). As indicated, targets/standards are to be identified by January 31, 1993, for high focus categories and by February 28, 1993, for the others. The related vision was presented as having no key operational items older than one cycle and eliminating the excess of other backlog categories over the next three years.

Focusing more specifically on material condition improvement, the licensee indicated that 22 plant areas had been identified for further walkdowns prior to restart. Giving completion dates of February 1, 1993 (Unit 2) and April 1, 1993 (Unit 1) for these area walkdowns, the licensee also indicated their plans for hot/pressurized inspections, as well as management field walkdowns and startup inspections.

With respect to assessing startup readiness, line management and the Nuclear Assessment Department (NAD) were identified as having major roles. As presented, line management self-assessment has a three element approach consisting of: (1) functional area assessments involving issues specific to one organizational unit (e.g., configuration control by Operations); (2) plant issue assessments involving areas of needed improvement applicable to more than one organizational unit (e.g., corrective action effectiveness); and (3) assessments of current performance issues (e.g., component/system operability determinations). Similarly, NAD's independent assessment was presented as having three phases. Phase I (November 2, 1992 - January 31, 1993) focuses on plant material condition, personnel/program readiness and resolution of

Enclosure 2

NRC/NAD issues. Targeting plant material condition, people and procedures/processes, Phase II (February 1-12, 1993) assesses operations, surveillance and testing, plant self-assessment activities, management organization, maintenance, startup test program, and engineering/technical support. Phase III (February 13, 1993 - startup) involves issue followup, emergent issue resolution, and monitoring of startup activities.

In addition to the above assessments, CP&L indicated that there would be a full-scope INPO evaluation January 11-22, 1993, and also revealed their plans for INPO to perform a sample system readiness review. Furthermore, the licensee stated that there would be special controls and oversight established during startup and power ascension through the existence of plant management on-shift; augmentation of normal startup readiness checklists with special pre-requisites, inspections and area closeouts; and augmentation of normal startup and operating procedures with special testing and hold-point assessment.

At the meeting's end, NRC and CP&L tentatively agreed to February 4, 1993, as the date of the next startup meeting. Additionally, CP&L confirmed that they would: (1) provide NRC with a conceptual diagram of plateaus/hold points planned for Unit 2 startup/power ascension; (2) identify who will perform the line management self-assessments; and (3) inform NRC of the findings from the full-scope INPO evaluation. ENCLOSURE 3

AGENDA

CP&L/NRC Public Meeting (Region II) Brunswick Steam Electric Plant Outage Progress Report Wednesday, January 6, 1993 10:00 a.m. to 12:00 pm

I. Opening Remarks

S.D. Ebneter R.A. Anderson

II. Unit 2 Outage Status - Diesel Generators

- Enclosure 3 (7/23/92) Status

III. Backlog Strategy

- Characterization
- Goals and Standards

IV. Material Condition Inspections

V. Startup Readiness Review

VI. Closing Remarks

J.P. Cowan

J.M. Brown

J.P. Cowan

J.A. Dobbs M.D. Bradley

R.A. Anderson S.D. Ebneter

AGEN_9

UNIT 2

INTEGRATED STARTUP SCHEDULE CRITICAL PATH REMAINING DURATIONS AS OF JANUARY 04, 1993

DIESEL INSPECTIONS	34 DAYS
• 4160V BUS / BREAKER WORK	3 DAYS
• SWITCHYARD WORK	5 DAYS
• CRD MAINTENANCE	6 DAYS
• ILRT	5 DAYS
• SYSTEM CLOSEOUT / LINEUPS	21 DAYS
• STAPTUP / SYNCHRONIZATION	9 DAYS
TOTAL	83 DAYS
	U2/55(

DIESEL GENERATOR SUMMARY

DIESEL #1

- REPAIRED FLEX DRIVE GEAR
- COMPLETED "BREAK-IN" RUNS
- COMPLETED OPERABILITY TESTS
- PRELIMINARY MAIN SHAFT ANALYSIS COMPLETED
- FUNCTIONAL ON DECEMBER 31, 1992
- DIESEL #4
 - INSPECTION IN PROGRESS
 - TEAR DOWN INSPECTIONS 18 MONTH
 - BEARINGS
 - FLEX DRIVE
 - THRUST RINGS
- PLANNED INSPECTIONS DIESELS #2 AND #3
 - BEARINGS
 - THRUST RINGS
 - FLEX DRIVE (#3)
 - TEAR DOWN INSPECTIONS 18 MONTH (#3)

DQS

UNIT 2

INTEGRATED STARTUP SCHEDULE NEAR CRITICAL PATH REMAINING DURATIONS AS OF JANUARY 04, 1993

 MSIV REPAIRS 25 DAYS RHR COMMON SYSTEM 24 DAYS (MISCELLANEOUS STEEL 37 DAYS) • ILRT 5 DAYS • SYSTEM CLOSEOUT / LINEUPS 21 DAYS • STARTUP / SYNCHRONIZATION 6 DAYS TOTAL 81 DAYS UZISSNCP

UNIT 2 INTEGRATED STARTUP SCHEDULE MAJOR PROJECTS REMAINING DURATIONS AS OF JANUARY 04, 1993

 MISCELLANEOUS STEEL 37 DAYS · WALLS 6 DAYS INSTRUMENT RACKS
 51 DAYS HARDENED WET WELL VENT 47 DAYS MAIN TURBINE 38 DAYS LOCAL LEAK RATE TESTING
 40 DAYS

U2ISSMPR

SHORT TERM ACTIONS

ENCLOSURE 3 TO JULY 23, 1992, LETTER

- EQUIPMENT CORROSION PROBLEMS
 - 2 WORK COMPLETE
 - 1 IN PROGRESS
- DEFERRED EQUIPMENT MAINTENANCE PROBLEMS
 - 11 OF 11 WORK COMPLETE
- POTENTIAL STRUCTURAL DEFICIENCIES
 - 10 WORK COMPLETE
 - 5 IN PROGRESS

BACKLOGS OF TEMPORARY CONDITIONS AND OPERATOR WORKAROUNDS

5 IN PROGRESS

- EQUIPMENT DEFICIENCIES DISCOVERED DURING WALKDOWN
 - 2 IN PROGRESS
- OTHER
 - 3 WORK COMPLETE
 - 1 IN PROGRESS
- * SUMMARY
 - 26 WORK COMPLETE
 - 14 IN PROGRESS

STA



PROGRESS

IDENTIFICATION OF MATERIAL CONDITION DEFICIENCIES

BM1

Q

CLOSURE OF BACKLOG ITEMS

BACKLOG (OPEN ITEM) MANAGEMENT

-10

- CATALOGED
- CATEGORIZED
- DEVELOPED STRATEGY

BACKLOG REMAINING AFTER STARTUP

SYSTEMS IMPORTANT TO SAFETY/RELIABILITY

TYPES OF BACKLOG ITEMS

PRIORITY

AGE

BM2

CM BACKLOG



BACKLOG CHARACTERIZATION

SYSTEMS IMPORTANT TO SAFETY/RELIABILITY

- 1. EMERGENCY DIESEL GENERATORS (EDG)
- 2. DIESEL GENERATOR EMERGENCY POWER (DGEP)
- 3. SWITCHYARD (SWYD)
- 4. INSTRUMENT AIR/NITROGEN (IA/N)
- 5. REACTOR PROTECTION SYSTEM (RPS)
- 6. RESIDUAL HEAT REMOVAL SYSTEM (RHR)
- 7. CONTAINMENT ATMOSPHERIC CONTROL (CAC) (VENTING)
- 8. SERVICE WATER (SW)
- 9. DC POWER (DCP)
- 10. PLANT ELECTRICAL (AC)
- 11. PRIMARY CONTAINMENT ISOLATION SYSTEM (PCIS)
- 12. MAIN STEAM/ELECTROHYDRAULIC CONTROL (MS/EHC)
- 13. CONDENSATE AND FEEDWATER (C&F)
- 14. FIRE SUPPRESSION/DETECTION (FS/D)
- 15. HIGH PRESSURE COOLANT INJECTION (HPCI)
- 16. TURBINE BUILDING COMPONENT COOLING WATER (TBCCW)
- 17. REACTOR CORE INJECTION COOLING (RCIC)
- 18. AUTOMATIC DEPRESSURIZATION SYSTEM/SAFETY RELIEF VALVES (ADS/SRV)
- 19. STANDBY GAS TREATMENT (SBGT)

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BACKLOG MANAGEMENT BACKLOG CHARACTERIZATION TYPES OF BACKLOG CORRECTIVE MAINTENANCE KEY OPERATIONAL ITEMS - TEM. ORARY CONDITIONS - CONTROL ROOM INDICATORS OUT OF SERVICE (OOS) - CAUTION TAGS ENGINEERING WORK/EVALUATION REQUESTS (EWR/EER) ADMINISTRATIVE/SUPPORT RAA

PRIORITY	WORK ITEM CATEGORY
	A. ACTION TO CORRECT AN EXISTING OR IMMINENT CONDITION INVOLVING NUCLEAR SAFETY WHICH WILL PRESERVE THE HEALTH AND SAFETY OF THE PUBLIC OR PLANT PERSONNEL.
1	8. ACTION TO CORRECT AN EXISTING CONDITION WHERE A THREAT OF PERSONNEL INJURY IS IMMENENT.
	C. ACTION TO CORRECT AN EXISTING CONDITION WHERE A THREAT OF ACUTE RADIATION EXPOSURE > SREM TO AN INDIVIDUAL IS IMMINENT
	A. ACTION TO CORRECT A CONDITION WHICH IS IN VIOLATION OF A REGULATORY REQUIREMENT AND FOR WHICH COMPENSATORY ACTION CANNOT BE PROVIDED.
2	8. ACTION TO CORRECT A CONDITION WHICH, IF NOT CORRECTED, WILL RESULT IN NEAR TERM I < 7 DAYSI VIOLATION OF A REGULATORY REQUIREMENT FOR WHICH COMPENSATORY ACTION CANNOT BE PROVIDED.
	C. ACTION REQUIRED TO CORRECT & CONDITION WHICH SEVERLY HINDERS APPROPRIATE RESPONSE TO ACCIDENT OR OPERATIONAL TRANSIENTS
	A. ACTION TO CORRECT & CONDITION WHICH WILL REQUIRE IMMEDIATE OR NEAR TERM (<7 CAYS) UNIT SHUTDOWN OR SIGNIFICANT REDUCTION IN CAPACITY (250 MWe).
3	B. ACTION TO CORRECT A CONDITION WHICH DELAYS START UP OR RETURN TO SERVICE.
	C. ACTION TO SUPPORT EVALUATION OF A CONDITION WHICH MAY BECOME A PRIORITY 1 ITEM OR TO CORRECT & CONDITION WHICH WILL OR IS LIKELY TO BECOME A PRIORITY 1 ITEM IF NOT ADDRESSED.
	A ACTION TO SUPPORT EVALUATION OF A CONDITION WHICH MAY BECOME A PRIORITY 2 ISEM OR TO CORRECT A CONDITION WHICH WILL OR IS LIKELY TO BECOME A PRIORITY 2 ITEM IF NOT ADDRESSED.
김왕동원	8. ACTION REQUIRED TO MEET AN EXPLICIT COMMITMENT TO A REGULATORY AGENCY.
4	C. ACTION REQUIRED TO SUPPORT A PT OR ST.
	D. ACTION REQUIRED TO MEET AN EXPLICIT INPO COMMITMENT.
	E. ACTION REQUIRED TO SUPPORT A PM (N SAFETY RE ATED EQUIPMENT.
	A. ACTION TO SUPPORT EVALUATION OF A CONDITION WHICH MAY BECOME A PRIORITY 3A OR 3B ITEM OR TO CORRECT A CONDITION WHICH WILL OR IS
	B. ACTION TO CORRECT A CONDITION WHICH IS CAUSING OR WILL CAUSE OR RESULT IN A NEAR TERM (<7 DAYS) UNIT POWER REDUCTION 25 MWA.
5	C. ACTION TO IMPROVE OR MAINTAIN UNIT AVAILABILITY INCLUDING RELIABILITY OF POWER PRODUCING EQUIPMENTI
Ŭ	D. ACTION REQUIRED TO SUPPORT NONREGULATORY REQUIRED TESTING OF POWER PRODUCING EQUIPMENT.
	E. ACTION REQUIRED TO IMPROVE OR MAINTAIN UNIT CAPACITY (INCLUDING EFFICIENCY OF POWER PRODUCING EQUIPMENT).
	A. ACTION TO MAINTAIN THE PLANT'S HARDWARE OR SOFTWARE CONFIGURATION IN ACCORDANCE WITH LICENSE REQUIREMENTS.
6	B. ACTION REQUIRED TO MEET WRITTEN MANAGEMENT STANDARDS OF PERFORMANCE
7	A. ACTION REQUIRED TO REDUCE CHRONIC RADIATION EXPOSURE TO PERSONNEL.
	B. ACTION REQUIRED TO REDUCE THE POTENTIAL FOR A THREAT TO PERSONNEL SAFETY.
	A. ACTION REQUIRED TO SUPPORT A PM ON NONSAFETY RELATED EQUIPMENT.
8	8 ACTION REQUIRED TO SUPPORT NONREGULATORY PEQUIRED TESTING OF NONPOWER PRODUCING EQUIPMENT.
9	A. ANY OTHER ACTION WHICH HAS BENEFIT.

WORK ACTIVITY PRIORITY TABLE

BACKLOG MANAGEMENT BACKLOG CHARACTERIZATION

APPROXIMATE UNIT BREAKDOWN

- 37% UNIT 1
- 48% UNIT 2
- 15% OTHER

• OTHER GENERAL CHARACTERIZATIONS

- 70% CAN BE WORKED DURING OPERATION

- 50% OF CORRECTIVE MAINTENANCE CAN BE ACCOMPLISHED IN LESS THAN FOUR HOURS

- 20% ARE MINOR MAINTENANCE

- 20% ARE "SUPPORT" TICKETS





TEMPORARY CONDITIONS

SYSTEMS IMPORTANT TO SAFETY/RELIABILITY

Emergency Diesel Generator	0		
Diesel Generator Emergency Power	r 2	2-EER Temp. Change	(2) No
Switchyard	0		
Instrument Air/Nitrogen	1	1 - Clearance > 3 mo.	(1) No
RPS	1	1 - EER Temp. Change	(1) No
RHR	4	<pre>1 - Dis.Annunciator 2 - EER Temp.Change 1 - Jumper/Lifted Wire</pre>	(1) Yes (2) No (1) Yes
CAC (venting)	3	3 - EER Temp. Change	(3) No
Service Water	3	2 - EER _amp. Change 1 - Clearance > 3 mo.	(2) No (1) No
DC Power	2	2 - EER Temp. Change	(1) Yes (1) No
Plant Electrical	22	18 - Temporary Power 4 - EER Temp. Change	(18) Yes (1) Yes (3) No
PCIS	0		
Main Steam/EHC	Ó		
Condensate and Feedwater	0		
Fire Suppression/Detection	1	1 - EER Temp. Change	(1) Yes
HPCI	1	1 - EER Temp. Change	(1) No
TBCCW	Q		
RCIC	1	1 - EER Temp. Change	(1) No
ADS/SRV	5	2 - LCO'N > J months. 3 - EER Temp. Change	(2) No (3) No
SBGT	0		





OPEN ITEM STRATEGY

- BACKLOG ITEMS FOR THE FOLLOWING CATEGORIES:
 - PRIORITY 1-4 ITEMS FOR SYSTEMS IMPORTANT TO SAFETY/RELIABILITY
 - HIGH PRIORITY (1,2, or 3) ITEMS FOR ALL SYSTEMS
 - KE ITEMS
 - TEMPORARY CONDITIONS
 - CONTROL ROOM INDICATORS OUT OF SERVICE
 - CAUTION TAGS

OPEN ITEM STRATEGY

APPROACH FOR ALL BACKLOG ITEMS

- MANAGE NEW ITEMS IDENTIFIED

USE SYSTEM ENGINEERS

SCHEDULE BASED ON

SYSTEM

PRIORITY

o AGE

REQUIRED PLANT CONDITIONS

RELATED WORK

- IMPLEMENT PROGRAMS TO REDUCE NUMBER OF NEW ITEMS

CORROSION PROBLEM

MATERIAL CONDITION INSPECTIONS

RECURRING EQUIPMENT FAILURE PROGRAM

IMPROVE WORK PROCESS EFFICIENCY

MINOR MAINTENANCE

PLANNING AND SCHEDULING

WORK CONTROL PROCESS

- ENHANCE ABILITY TO TRACK AND REPORT ITEMS

8948

ESTABLISHMENT OF TARGETS, GOALS, OR STANDARDS

THE TYPES OF TARGET, GOALS, OR STANDARDS BEING CONSIDERED ARE:

ABSOLUTE NUMBER OF ITEMS

NUMBER OF ITEMS BASED ON:

- SYSTEM IMPORTANCE
- PRIORITY
- AGE
- WORK GROUP

AGE LIMITS

TARGET CURVES
 (NUMBER vs AGE)

ESTABLISHMENT OF TARGETS, GOALS, OR STANDARDS

THE 3-YEAR PLAN INITIATIVE MILESTONES ARE:

- TARGET/STANDARDS IDENTFIED BY 1/31/93 FOR HIGHEST FOCUS CATEGORIES
- TARGETS/STANDARDS IDENTIFIED BY 2/28/93 FOR OTHER CATEGORIES
- THE VISION IS:
 - TO HAVE NO KEY OPERATIONAL ITEMS OLDER THAN ONE CYCLE
 - TO MANAGE THE HIGHEST FOCUS CATEGORY ITEMS TO STANDARDS BEGINNING IMMEDIATELY
 - TO ELIMINATE THE EXCESS OF OTHER BACKLOG CATEGORIES OVER THE NEXT THREE YEARS

BNP IMPROVEMENT PLAN - MATERIAL CONDITION RELATED ACTIVITIES APPROACH PROGRESS AND PLANS e RESULTS BIPMAC

RELATED ACTIVITIES

- PREVIOUS HOTSIDE/COLDSIDE WALKDOWNS

ESTABLISHMENT OF MODEL ROOMS

- PN-30 PROCESS

-- SYSTEM REVIEWS

- OUTAGE SCOPE MANAGEMENT

- BACKLOG MANAGEMENT

- CORPORATE INITIATIVES 11 AND 12

-- BACKLOG REDUCTION, MATERIAL CONDITION

BIPMC1-1

APPROACH

- DISCIPLINED TEAMS

-- WELL-TRAINED

- MULTI-DISCIPLINED

- IDENTIFY/CORRECT MINOR MAINTENANCE ITEMS

- IDENTIFY PROCESS IMPROVEMENTS

- INSPECT WITH CONSISTENT HIGH STANDARDS

BIPAAC1-2

- PROGRESS AND PLANS
 - WORK PLAN-COMPLETE UNIT 2 BY FEBRUARY 1, 1993
 - COMPLETE UNIT 1 BY APPIL 1, 1993
 - PLAN FOR REMAINING AREAS AND OTHER ACTIVITIES
 - A-46, INSPECTIONS (SEISMIC QUALIFICATIONS UTILITY GROUP CRITERIA)
 - AI-96, DRYWELL INSPECTION AND STARTUP CHECKLIST
 - AI-114, MANAGEMENT FIELD WALKDOWNS
 - -- MANAGEMENT INSPECTIONS DURING STARTUP
 - HOT/PRESSURIZED INSPECTIONS

BPMC2-1

				the second second			
	12/14	12/21	12/28	1/4	1/11	1/18	1/25
	11111	111111	11111	11111	11111	11111	111
Control Room	11						
RWCU Pump Room B	11						
RWCU Pump Room A	1-	1					
SJAE Room A							
U2 Main Steam Line Tunnel		1-1					
U2 TIP Room			1-1				
U2 Torus			1-1-1				
SJAE Room B	1.199						
U2 Condensate Booster Pump Room				11			
U2 Condensate Pit					[]		
U2 Condenser 20' & 45'						[]	
U2 Drywell							-1
Feed Pump Room A							
Feed Pump Room B	- 1	1					
U2 20' Mini Steam Tunnel			1-1				
U2 77' Pump & Valve Room			[]				
U2 Heater Drain Pump Rooms				[·····]			
U2 50' MSIV Pit					11		
U2 RWCU Heat Exchanger					1-	1	
U2 Spent Fuel Pool Cooling heat Exchanger						11	
Feedwater Heater Room A	11						
Feedwater Heater Room B		1					

RESULTS

- NO OPERABILITY ISSUES

1594 SUBSTANDARD CONDITIONS

- 14 ENGINEERING WORK REQUESTS UNDER 94-DAY REVIEW

BIPMC2-2







Satisfy Startup Criteria

6ovrvw.sit

- Line management self-assessment
- Independent Assessment (NAD)

Confirm Startup Readiness in a meeting with NRC management

Special Control and Oversight Process for startup and power ascension

Brunswick Unit 2

Startup Criteria:

I. CAL Items

- Enclosure 3 (7/23/92)

- Diesel Generator Repairs and Testing

II. System Reviews

- Operability/Reliability Impact
- Complete Unit 2 Startup Required Work

IV. Operator Training

- Plant Modifications
- Augmented Startup Procedures
- Approach to Criticality
- Power Operation and Emergency Response

III. Special Controls and Increased Oversight

- Infrequent Evolution Controls
- Augmented Startup Checklists
- Augmented General Operating Procedures
- Management On-Shift

16crit4.mr

Brunswick Unit 2

Line Management Self-Assessment

How it will be done:

Three-Element Approach to Self-Assessment and Accountability:

1. Functional Area Assessments

2. Plant Issues Assessments

3. Assessments of Current Performance

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Brunswick Unit 2

Line Management Self-Assessment

How it wil' 'e done: (cont'd)

1. Functional Area Assessments

Issues specific to one organizational unit that are either normally evaluated prior to startup or have been identified as an area needing improvement.

Example performance issues:

Operations - "control of component position" Maintenance - "supervisory development and oversight" Technical Support - "support for upgrade of plant material condition"

16sal2b.ser

Brunswick Unit 2

Line Management Self-Assessment

How it will be done: (cont'd)

2. Plant Issue Assessments

Issues that have been identified as needing improvement applicable to more than one organizational unit.

Example plant issues:

"Corrective Action Effectiveness" "Material Condition Standards" "Effective teamwork and productivity"

16ss12c.srr

Brunswick Unit 2

Line Management Self-Assessment How it will be done: (cont'd)

3. Assessments of Current Performance

Contemporary issues that provide the opportunity to evaluate current performance to determine future performance capability.

Example current performance issues:

"Safe Shutdown Risk management and execution"

"Effectiveness of Correcting Emerging Problems"

"Component/System Operability Determinations"

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Brunswick Unit 2

INPO

First Visit

- PN-30 System Review Process
- Schedule Review

Second Visit

- Implementation of PN-30

Return Visit (Planned)

- Sample System Review for Readiness

Full-Scope INPO Evaluation

- Scheduled January 11 - 22

16inpo.srt

Brunswick Unit 2

Special Control and Oversight During Startup and Power Ascension

- Infrequent Evolution INPO 91-1
- Plant Management On-Shift
- Augmented Normal Startup Readiness Checklists
 - Special Pre-Requisites
 - Special Inspections and Area Closeouts
 - "People/Program Readiness Issue" Completion
- Augmented Normal Startup and Operating Procedures
 - Special Testing
 - Assessment Hold-Points

16apa.arr

PURPOSE

- ADVISE THE SENIOR V. P. NUCLEAR AND CP&L CORPORATE SENIOR MANAGEMENT OF THE READINESS OF BNP TO RESTART

· HOW

- ASSESSMENT PLAN TARGETED TO ADDRESS PROBLEM AREAS AND PLANT OPERATIONS

- USE PERSONNEL WITH EXTENSIVE NUCLEAR EXPERIENCE

BNSRA

INVOLVEMENT.

- MAJOR ONGOING NAD EFFORT FOCUSSED ON BNP

- EXPERIENCED NAD READINESS ASSESSMENT TEAM

- TEAM LEADERSHIP LOFLIN/BRADLEY

- FIVE NON CP&L

O NRC, INPO, PLANT MANAGEMENT

- TEN CP&I.

O SEVEN SRO

OPERATIONS MGT, MAINTENANCE MGT, ENG. MGT

BNSRAPA

PHASE I. NOVEMBER 2, 1992 TO JANUARY 31, 1993

TARGET AREAS:

- PLANT MATERIAL CONDITION
- PERSONNEL/PROGRAM READINESS
- NRC/NAD ISSUES

• PHASE II. FEBRUARY 1, 1993 TO FEBRUARY 12, 1993

TARGET AREAS:

- PLANT MATERIAL CONDITION
- PEOPLE
- PROCEDURES/PROCESSES

PHASE III. FEBRUARY 13, 1993 TO STARTUP

TARGET AREAS:

- ISSUE FOLLOW-UP

BNSRA2

· PHASE I.

MATERIAL CONDITION

I. BACKLOG CATEGORIZATION

II. NED/CIVIL/STRUCTURAL

III. SYSTEMS WALKDOWNS

IV. OPERATOR WORK-AROUNDS

V. TEMPORARY CONDITIONS

VI. WELDING ASSESSMENT

ENSRAP1

PHASE I. (Cont):

PERSONNEL/PROGRAM READINESS

I. TRAINING ASSESSMENT

II. SIMULATOR OBSERVATIONS

III. EP ASSESSMENT

IV. PROGRAM REVIEWS

V. SHUTDOWN RISK MANAGEMENT

NRC/NAD ISSUES

FOR UNRESOLVED ISSUES, ASSESS ADEQUACY OF THE 3 YEAR PLAN INITIATIVES

BNSRAP2X

• PHASE II.

I. OPERATIONS

II. SURVEILLANCE AND TESTING

III. PLANT SELF-ASSESSMENT ACTIVITIES

IV. MANAGEMENT ORGANIZATION

V. MAINTENANCE

VI. STARTUP TEST PROGRAM

VII. ENGINEERING AND TECHNICAL SUPPORT

BNSRAP2C

e PHASE III.

I. ISSUE FOLLOW-UP

II. EMERGENT ISSUE RESOLUTION

III. MONITORING OF STARTUP ACTIVITIES

BNSRAP3

INDEPENDENT ADVICE

NUCLEAR SAFETY REVIEW COMMITTEE

- ADVISES SITE V. P.

- PLANT, CORPORATE, EXTERNAL REPRESENTATION

- FUNCTIONAL FEBRUARY 5, 1993

NUCLEAR SAFETY OVERSIGHT COMMITTEE

- ADVISES CP&L PRESIDENT

- EXTERNAL REPRESENTATION

- FUNCTIONAL MARCH, 1993

NUCLEAR ASSESSMENT DEPARTMENT

- ADVISES SENIOR V. P. NUCLEAR & CORPORATE SENIOR MANAGEMENT

- PERMANENT STAFF, SUPPLEMENTED WITH EXTERNAL EXPERIENCE

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Junning			
	6Jan	Startup Readiness Review Plan	
	11Jan	INPO Scheduled Evaluation Begins	
			Senior Management
	22Jan	INPO Evaluation Debrief (System Readiness)	Review Meeting Self-Assessment/Accountability
	26Jan		Functional Area Plant Issues Current Performance
February			INPO Results/Actions
	1Feb	NAD Phase II Assessment Begins	
	5Feb	Proposed NRC Progress Meeting	
	10Feb 12Feb	NAD Phase II Debrief	Senior Management Review bleeting
	16Feb		Self-Assessment/Accountability Functional Area Plant Issues
	21Feb	NRC Inspection Begins	Current Performance
	25Feb	Area Closeout/Valve Lineups Begin	INPO/NAD Results/Actions
March			
			Senior Management
	(18Mar)	Area Closeout/Valve Lineups Complete	Self-Assessment/Accountability
	(19Mar)	NRC Meeting - Reg. II Concurrence	Functional Area
	213/00	Initial Criticality	Current Performance
	# TIATET	man ornicality	INPO/NAD Results/Actions