

MAY 16 1986

Docket Nos. 50-280/281/338/339

DISTRIBUTION

Docket File	C. Patel
NRC PDR	OELD
Local PDR	E. Jordan
PAD#2 Rdg	B. Grimes
J. Partlow	ACRS (10)
L. Rubenstein	L. Engle
T. Chan	C. Grimes
A. Wang	K. Eccleston

APPLICANT: Virginia Electric and Power Company

FACILITY: Surry Power Station, Units 1 and 2
and North Anna Power Station Units 1 and 2

SUBJECT: MEETING SUMMARY REGARDING FEBRUARY 5, 1986 INTEGRATED
IMPLEMENTATION SCHEDULE MEETING

A meeting was held in Bethesda, Maryland with Virginia Electric and Power Company and NRR representatives on February 5, 1986 to discuss the Integrated Implementation Schedule (ITS) proposed amendment. A list of meeting attendees is provided in Enclosure 1.

Items of discussion included overviews of Schedule A and B Items, background information supporting Schedule A and B projects, Nuclear Operations Departments (NOD) five year plan, the three year plan for implementing the Schedule, and concerns regarding potential IE citation resulting from IE activities.

A copy of the VEPCO presentation handouts is provided in Enclosure 2.

151
Terence L. Chan, Project Manager
PWR Project Directorate #3
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Enclosures:
As stated

cc: See next page

CPS
PM:PAD#3
TChan:b1
5/15/86

[Signature]
L. Rubenstein
5/15/86

8605210628 860515
PDR ADOCK 05000280
P PDR

Mr. W. L. Stewart
Virginia Electric and Power Company

Surry Power Station

cc:

Mr. Michael W. Maupin
Hunton and Williams
Post Office Box 1535
Richmond, Virginia 23213

Attorney General
Supreme Court Building
101 North 8th Street
Richmond, Virginia 23219

Mr. Robert F. Saunders, Manager
Surry Power Station
Post Office Box 315
Surry, Virginia 23883

Resident Inspector
Surry Power Station
U.S. Nuclear Regulatory Commission
Post Office Box 166, Route 1
Surry, Virginia 23883

Mr. Sherlock Holmes, Chairman
Board of Supervisors of Surry County
Surry County Courthouse
Surry, Virginia 23683

W. T. Lough
Virginia Corporation Commission
Division of Energy Regulation
Post Office Box 1197
Richmond, Virginia 23209

Mr. J. T. Rhodes
Senior Vice President - Power
Virginia Electric and Power Company
Post Office Box 26666
Richmond, Virginia 23261

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
101 Marietta Street, Suite 3100
Atlanta, Georgia 30323

James B. Kenley, M.D., Commissioner
Department of Health
109 Governor Street
Richmond, Virginia 23219

ATTENDANCE LIST

VEPCO INTEGRATED IMPLEMENTATION SCHEDULE MEETING

FEBRUARY 5, 1986

NRC-NRR

T. Chan
L. Engle
C. Grimes
A. Wang
K. Eccleston

VEPCO

D. Fortin
R. Cross
N. Clark
D. VandeWalle

BECHTEL

C. Pindzia

NRC IIS MEETING AGENDA

<u>ITEM</u>	<u>RESPONSIBLE INDIVIDUAL</u>
-BRIEFLY REVIEW VA. POWER PROPOSED LICENSE AMENDMENTS	R. W. CROSS
-DISCUSS NRC COMMENTS/CONCERNS WITH VA. POWER'S SUBMITTAL	T. CHAN/L. ENGLE
-DISCUSS EXAMPLES OF BACKUP INFORMATION SUPPORTING SCHEDULE A & B PROJECTS	R. W. CROSS
-PROVIDE OVERVIEW OF SCHEDULE A AND B	R. W. CROSS
-DISCUSS PROPOSED REVIEW SCHEDULE	R. W. CROSS

77-RWC-2308C

I. Secondary Water Chemistry Monitoring Program

The licensee shall implement a secondary water chemistry monitoring program to inhibit steam generator tube degradation. This program shall include:

1. Identification of a sampling schedule for the critical parameters and control points for these parameters;
 2. Identification of the procedures used to quantify parameters that are critical to control points;
 3. Identification of process sampling points;
 4. Procedure for the recording and management of data;
 5. Procedures defining corrective actions for off control point chemistry conditions; and
 6. A procedure for identifying the authority responsible for the interpretation of the data, and the sequence and timing of administrative events required to initiate corrective action.
- J. The licensee shall fully implement and maintain in effect all provisions of the Commission-approved Nuclear Security Personnel Training and Qualifications Program, including amendments and changes made pursuant to 10 CFR 50.54(p). The approved Nuclear Security Personnel Training and Qualifications Program consists of a document withheld from public disclosure pursuant to 10 CFR 2.790(d) identified as "Surry Power Station Nuclear Security Personnel Training and Qualifications Program" dated September 15, 1980. The Nuclear Security Personnel Training and Qualifications Program shall be fully implemented in accordance with 10 CFR 73.55(b)(4), within 60 days of this approval by the Commission. All security personnel shall be qualified within two years of this approval.
4. The Integrated Implementation Schedule Plan for Surry Power Station Units 1 and 2 (the Plan) submitted on December 13, 1985, is approved.
- a) The Plan shall be followed by the licensee from and after the effective date of this amendment.
 - b) The provisions of this paragraph shall be effective for a period of three years following the date of issuance by the NRC and may be renewed upon application by the licensee.
5. This license is effective as of the date of issuance, and shall expire at midnight June 25, 2008.

FOR THE ATOMIC ENERGY COMMISSION

Original signed by
A. Giambusso

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Enclosure
Appendix A -
Technical Specifications

Date of Issuance: May 25, 1972

Surry - Unit 1

IMPLEMENTATION SCHEDULES

- TWO SUMMARY SCHEDULES

- SCHEDULE A - ITEMS WHICH HAVE IMPLEMENTATION DATE MANDATED BY NRC REGULATIONS, ORDERS OR LICENSE CONDITIONS.

- SCHEDULE B

1. REGULATORY ITEMS IDENTIFIED BY NRC RESULTING IN, A) PLANT MODIFICATION, B) PROCEDURE REVISIONS OR C) CHANGES TO FACILITY STAFFING REQUIREMENTS AND WHICH HAVE AN IMPLEMENTATION DATE COMMITTED TO BY THE UTILITY.
2. ITEMS PERCEIVED BY THE UTILITY AS PROSPECTIVE NRC REQUIREMENTS, AND
3. ALL MAJOR UTILITY TASKS RESULTING FROM OTHER AGENCIES AND UTILITY INITIATED PROJECTS TO ENHANCE STATION RELIABILITY OR EFFICIENCY.

- MODIFICATIONS TO SCHEDULE A -

WILL CONTINUE TO BE THROUGH EXEMPTION OR ORDER DATE EXTENSION PROCESS

UTILITY TO ATTEMPT TO ALTER SCHEDULE B WORK BEFORE SCHEDULE A

- MODIFICATIONS TO SCHEDULE B -

- UTILITY TO PROVIDE NRC WITH PRIOR WRITTEN NOTIFICATION OF CHANGES TO COMPLETION DATES (AT LEAST 30 DAYS) TO ENABLE FURTHER EXPLANATION OR DISCUSSION WITH NRC (AT LEAST 15 DAYS AFTER RECEIPT OF UTILITY NOTIFICATION.)

- CHANGES DO NOT REQUIRE A LICENSE AMENDMENT

- NRC ORIGINATED CHANGES (SCHEDULE A)

- NRC TO PROVIDE UTILITY A REASONABLE OPPORTUNITY TO PROPOSE OVERALL CHANGES TO OVERALL SCHEDULE.

- UTILITY TO INFORM NRC OF RESULTING CHANGES IN SCHEDULES.

- REPORTING

SEMI-ANNUAL REPORTS OF PROGRESS TO NRC ARE REQUIRED.

IDENTIFY CHANGES SINCE THE LAST REPORT.

SUMMARIZE REASONS FOR SCHEDULE CHANGES ASSOCIATED WITH REGULATORY REQUIREMENTS.

BACKUP INFORMATION
NOD 5 YEAR PLAN

*FOLLOWING SECTIONS ARE INCLUDED FOR BOTH STATIONS

- 1.0 SCHEDULE ANALYSIS
- 2.0 PROJECTS SUMMARY
- 3.0 COST SUMMARY
- 4.0 RESOURCE REQUIREMENTS
- 5.0 COMMITMENTS
- 6.0 OUTAGES
- 7.0 POTENTIAL PROJECTS
- 8.0 PROJECT DESCRIPTIONS

PROJECT MANAGEMENT
INFORMATION SYSTEM

REVISED 01 DATE

ACTIVITY NAME	ACTIVITY DESCRIPTION	ACTIVITY CODE	1985	1986	1987	1988	1989
0001	UNIT 1 REFUELING 1985	001 0					
0002	UNIT 1 REFUELING 1987	001 0					
0003	UNIT 1 REFUELING 1988	001 0					
0004	UNIT 2 REFUELING 1986	001 0					
0005	UNIT 2 REFUELING 1987	001 0					
0006	UNIT 2 REFUELING 1989	001 0					
4902Y	SG MANWAY MODS U1 OUTAGE CONSTR	081 3 OC					
4902Z	SG MANWAY MMODS U2 OUTAGE CONSTR	081 3 OC					
4903			121				
4903T	DEMIN SUMP PMP MODS T3 ENGR	196 3 NE					
4903V	DEMIN SUMP PMP MODS CONSTR	196 3 NC					
4904							
4904N	CONTAINMENT PERSONNEL AIR SUPPLY MODS	NE					
4905			14				
4905T	MACHINE SHOP MODS T3 ENGR	196 3 NE					
4905V	MACHINE SHOP MODS CONSTR	196 3 NC					
4907			85				
4907T	AUX FW OIL ALARM T3 ENGR	090 3 NE					
4907V	AUX FW OIL ALARM CONSTR	090 3 NC					
4911							
4911T	DIESEL ROOM DOOR MODS (CANCELLED)	196 3 NE					
4914			115				
4914V	TRAINING EQPT	166 S NC					
4980							
4980S	TG THERMAL DETECTION T2 ENGR	093 2 NE					
4980T	TG THERMAL DETECTION T3 ENGR	093 3 NE					
4980U	TG THERMAL DETECTION MATL DELIVERY	093 3 NC					
4980Y	TG THERMAL DETECTION U1 OUTAGE CONSTR	093 3 OC					
4985			62				
4985T	NITROGEN HDR VALVE T3 ENGR	087 3 NE					
4985U	NITROGEN HDR VALVE MATL DELIVERY	087 3 NC					
4985Y	NITROGEN HDR VALVE U1 OUTAGE CONSTR	087 3 OC					
4985Z	NITROGEN HDR VALVE U2 OUTAGE CONSTR	087 3 OC					
4987			87				
4987T	TURB BLDG ROOF MODS T3 ENGR	084A3 NE					
4987V	TURB BLDG ROOF MODS CONSTR	084A3 NC					
4995			241				
4995V	SECONDARY PRESSURE UPGRADE	093 3 NC					
5600			83				
5600T	NON-REGEN HX DRAIN MODS T3 ENGR	123 3 NE					
5600Y	NON-REGEN HX DRAIN MODS U1 OUTAGE CONSTR	123 3 OC					
5600Z	NON-REGEN HX DRAIN MODS U2 OUTAGE CONSTR	123 3 OC					
5603							
5603S	SECURITY ENTRANCE WEST T2 ENGR	169 2 NE					

IR NUMBER	IR DESCRIPTION	COMMITMENT MANAGER/ SUPERVISOR	COMMIT RESPONSE DATE	COMMITMENT DESCRIPTION	SOURCE DOC/ COMMITMENT NO
2	REG GUIDE 1.127	ROBINSON	10/31/89	NORTH ANNA DAM INSPECTION UNDER RG 1.127 REQUIREMENTS.	850031-001
3	ILS	DAVIS/CROSS	12/15/85	PROVIDE INTEGRATED LIVING SCHEDULE T.S. SUBMITTAL TO THE NRC FOR NORTH ANNA.	850050-001
4	OL 85-12 THI ACTION ITEMS	CALDER/BASEHORE	02/15/86	GENERIC LTR 85-12 - PROVIDE RESPONSE CONCERNING THI ACTION ITEMS ON RCPS TO THE NRC FOR NA.	850063-001
5	FED REG VOL 50	CALDER/BERRYMAN	01/23/86	PROVIDE SUPPORT TO STATIONS AS REQ'D OF REVIEW OF FINAL RULE FED REG ITEM 50.6161 OF VOL. 50.	850056-001
5	FED REG VOL 50	CALDER/BERRYMAN	04/23/86	PROVIDE SUPPORT AS REQUIRED IN THE REVIEW OF FINAL RULE FED REG ITEM 50.6163 OF VOL. 50 FOR NA.	850056-002
4870	NUREG 0737	GETTLER/GERMON	11/22/85	NORTH ANNA NUREG 0737 - PROVIDE ADDITIONAL INFORMATION TO THE NRC ON ITEM II.D.1.	850059-001
4870	REG GUIDE 1.97	GETTLER/MCKERCHER	12/19/85	NA 1 R.G. 1.97-INSTALL QUALIF'D CLOSED/NOT CLOSED POSITION INDICATION FOR SPECIFIED VALVES(ITEM 2.)	850052-001
4870	REG GUIDE 1.97	GETTLER/MCKERCHER	12/19/85	NA1 R.G. 1.97-MODIFY HIGH PRESSURE SAFETY INJECTION FLOW TRANSMITTERS & NOTIFY THE NRC (ITEM 10).	850052-002
4870	REG GUIDE 1.97	GETTLER/MCKERCHER	12/19/85	NA1 R.G. 1.97-MODIFY SW WATER TEMP INSTRU.CHANNELS & NOTIFY THE NRC (ITEM 14) VA PWR LTR 85-094.	850052-004
4870	REG GUIDE 1.97	GETTLER/MCKERCHER	12/19/85	NA1 R.G. 1.97-INSTALL NEW CAT 2 FLOW INSTRU CHANNEL IN SW RETURN HEADER & NOTIFY THE NRC(ITEM 15).	850052-005
4870	REG GUIDE 1.97	GETTLER/MCKERCHER	12/19/85	NA1 R.G. 1.97-MODIFY EMERG DAMPER POSITION INDICATION & INSTALL EQ'D LIMIT SWITCHES (ITEM 16).	850052-006
4870	NUREG 0737	GETTLER/SAUNDERS	12/19/85	NORTH ANNA 1 NUREG 0737 ACCOUSTICAL MONITORING SYSTEM FUNCTIONAL AND NOTIFY THE NRC.	850016-001
4870	REG GUIDE 1.97	GETTLER/MCKERCHER	12/19/85	NORTH ANNA 1 REG GUIDE 1.97 - IMPLMENT REQUIREMENT EXCEPT FOR INCORE TC INSTALLATIONAND NOTIFY NRC.	850013-001
4870	REG GUIDE 1.97	GETTLER/MCKERCHER	05/02/86	NORTH ANNA 2 REG GUIDE 1.97 - IMPLEMENT EXCEPT FOR INCORE TC INSTALLATION & NOTIFY NRC.	850013-002
4870	NUREG 0737	GETTLER/SAUNDERS	05/02/86	NORTH ANNA 2 NUREG 0737 - ACCOUSTICAL MONITORING SYSTEM FUNCTIONAL AND NOTIFY THE NRC.	850016-002
4870	REG GUIDE 1.97	GETTLER/MCKERCHER	05/02/86	NA2 R.G. 1.97-INSTALL QUALIFIED CLOSED/NOT CLOSED POSITION INDICATION FOR SPECIFIED VALVES(ITEM2)	850052-007
4870	REG GUIDE 1.97	GETTLER/MCKERCHER	05/02/86	NA2 R.G.1.97-MODIFY HIGH PRESS SAFETY INJEC FLOW XMTRS & CAT 1 EQ'D INSTRUMENT CHANNELS (ITEM 10).	850052-008

SURRY 2 1986 REFUELING OUTAGE SUMMARY

I. Outage Schedule	10-17-86 through 12-14-86	
II. Planned duration	58 days	
III. Major Work Activities		Estimated Duration-Days
A. Refueling		27
B. Construction Projects		
1. IR 4925	Reg. Guide 1.97	~48
2. IR 4991	Appendix "R" Modifications	~30
3. IR 5308	Feedwater Heater Replacement	48
4. IR 5337	AC Vital Bus Upgrade	48
5. IR 5351	Replace Service Water Valves	26
6. IR 5358	SI Leakage Monitor	38
7. IR 5359	Containment Sump Drain Trip Valves	38
8. IR 5413	RCP Thermal Barriers	~30
9. IR 6158	NUREG 0696 SPDS	> 30
C. O & M Projects		
1. Steam Generator		
a. EC Inspection		12
b. Tube Plug/Leak Repair		10
2. Turbine Work		42
3. Major Equipment Overhaul		
a. RCP		
Seals		32
b. Grinnel Valves		26
c. Service Water Valves and RSHXs		38
4. Testing		
a. Type C		38
b. SV and RV		29
c. Station Breakers		22
d. Type A		8
5. PMS		
MOV		30
IV. Work Activities With High Dose Exposure		Estimated Dose Man-rem (No shielding)
A. Refueling		14(OPS) 80(Other)

Unit 2 (Cont'd)

B. Construction Projects

- | | |
|---|------|
| 1. IR 4925 Reg Guide 1.97 | > 50 |
| 2. IR 5358 SI Leakage Monitor | 77 |
| 3. IR 5359 Containment Sump Drain Trip Valves | 15 |
| 4. IR 5413 RCP Thermal Barriers | * |

C. O & M Projects

- | | |
|--------------------|--------------|
| 1. Steam Generator | 10/Generator |
| 2. RCP | 20/Pump |

V. Major Licensing Commitments

- | | |
|---------|---------------------------------|
| IR 6158 | Safety Parameter Display System |
| IR 4925 | Reg. Guide 1.97 |
| IR 4991 | Appendix R Modifications |
| IR 5413 | RCP Thermal Barriers |
| IR 5409 | ATWS Modifications |

*No estimate available at this time.

**PRELIMINARY LIST OF OUTAGE RELATED CAPITAL PROJECTS WITH CONSTRUCTION SCHEDULED
DURING 1986 SURRY UNIT 2 REFUELING OUTAGE
10-17-86 THROUGH 12-14-86¹**

<u>IR#</u>	<u>DESCRIPTION</u>	<u>REGULATORY COMMITMENT</u>	<u>AMOUNT OF NON-OUTAGE WORK</u>	<u>ESTIMATED CONSTRUCTION OUTAGE DURATION</u>	<u>ESTIMATED CONSTRUCTION MAN-REM (NO SHIELDING)</u>
4925	Reg. Guide 1.97	NRC	Minor	48 Days(9067 M-D)	50
4991	Appendix "R" Modifications	NRC	Significant	30 Days(1460 M-D)	
5308	Feedwater Heater Replacement ²	None	Minor	48 Days(3609 M-D)	N/A
5337	AC Vital Bus Upgrade ³	None	Minor	30 Days(1424 M-D)	N/A
5351	Service water Motor Operated Butterfly Valve	None	None	26 Days(284 M-D)	N/A
5358	SI Leakage Monitor	None	Minor	38 Days(276 M-D)	77
5359	Containment Sump Drain Trip Valves	None	None	38 Days(114 M-D)	15
5413	Install RCP Thermal Barriers	NRC	None	30 Days	
6158	NUREG 0696 SPDS	NRC	Significant	30 Days	N/A

- NOTES:**
1. Outage date based on 3 year forecast, dated Sept. 4, 1985
 2. Scope of Work is such that all 12 feedwater heaters and drain coolers cannot be replaced during a 58 day outage. Project completion will be scheduled for the 1988 and 1989 refueling outages.
 3. It is planned to accomplish this project over the 1986 and 1988 refueling outages.

OVERVIEW OF SCHEDULE A AND B

SCHEDULE A

*SURRY - 5 ITEMS

R.G. 1.97

NUREG 0700 - CONTROL ROOM DESIGN REVIEW (CRDR)

APPENDIX R

ATWS

NUREG 0696 - SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

*NORTH ANNA - 6 ITEMS

R.G. 1.97

NUREG 0700 - CRDR

APPENDIX R

ATWS

NUREG 0696 - SPDS

GDC-17

SURRY

SCHEDULE B - 15 ITEMS

*NRC COMMITMENTS

Q LIST

RCP THERMAL BARRIERS

*NRC INTEREST OR INVOLVEMENT REQUIRED

PRZ SAFETY AND RELIEF VALVE MODS

CORE UPRATING

U1 SG/RCP SNUBBER REPLACEMENT

SPENT FUEL FACILITY

*NO NRC INVOLVEMENT REQUIRED

L.P. TURBINE REFURBISHMENT

P 250 COMPUTER REPLACEMENT

STATION PERSONNEL FACILITY MOD.

FW HTR BUNDLE REPLACEMENT

RADWASTE FACILITY

VITAL BUS MODS

SPENT RESIN TANK MODS

SG INSTRUMENTATION MONITORING SYSTEM

TRAINING CENTER EXPANSION

SCHEDULE B - 18 ITEMS

*NRC COMMITMENTS

Q LIST

*NRC INTEREST OR INVOLVEMENT REQUIRED

BORIC ACID CONCENTRATION REDUCTION

SW SYSTEM IMPROVEMENTS

SW SYSTEM PIPE CLEANING

PRZ SAFETY AND RELIEF VALVE MODS

SG/RCP SNUBBER REPLACEMENT

REACTOR TRIP BELOW 30% POWER

CORE UPRATING

*NO NRC INVOLVEMENT REQUIRED

L. P. TURBINE REFURBISHMENT

LAKE ANNA DEMINERALIZER

P 250 COMPUTER

SG MANWAY MODS

FUEL TRANSFER SYSTEM MODS

SG BLOWDOWN IMPROVEMENTS

RV HEAD SHIELD

FW HTR BUNDLE REPLACEMENT

FLOOD CONTROL MODS

RADWASTE FACILITY

1986 - 1988 CAPITAL BUDGET OVERVIEW

*SURRY

	<u>1986</u>	<u>1987</u>	<u>1988</u>
TOTAL	58.8	49.7	51.3
SCHEDULE A	18.3	4.6	1.4
SCHEDULE B	31.1	15.8	27.4
OTHER	9.4	29.3	22.5

*NORTH ANNA

TOTAL	54.7	52.9	51.2
SCHEDULE A	10.4	10.0	0.1
SCHEDULE B	30.2	29.3	31.3
OTHER	14.1	13.6	19.8

PROPOSED REVIEW SCHEDULE

- SUBMITTAL OF SURRY AND NORTH ANNA LICENSE AMENDMENTS AND "PLAN" 12/85

- MEET WITH NRC TO DISCUSS AND CLARIFY SUBMITTAL 1/86

- OBTAIN INFORMAL AGREEMENT ON ACCEPTABILITY OF LICENSE AMENDMENT AND "PLAN" 2/86

- SUBMIT DRAFT IMPLEMENTATION SCHEDULES 3/86

- MEET, AS REQUIRED, TO DISCUSS IMPLEMENTATION SCHEDULES 3-6/86

- SUBMIT FINAL IMPLEMENTATION SCHEDULE 7/86

- OBTAIN LICENSE AMENDMENT 8/86