

WORK PLAN FOR THE AS-BUILT WIRE TRACING
OF UNIT 2 CCW AND CVCS INSTRUMENTATION

Revision: 1
October 12, 1996

UNIT
2

UNIT 2 AS BUILT OF CCW AND CVCS
SYSTEM INSTRUMENTATION

1.0 PURPOSE AND APPLICABILITY

1.1 Purpose

To as-built (review, verify and document) Unit 2 Component Cooling and CVCS systems instrumentation wiring.

By agreement with I&C, ASB personnel will be at a particular instrument during its' calibration. The information needed will be recorded prior to the calibration being completed. In this way, the completion of the calibration and subsequent return to service will serve as the As-Built post maintenance testing (PMT) for the particular instrument.

There are no tagging requirements for this work plan required by ASB.

1.2 Applicability

Unit 2 Component Cooling Water System (CCW) and Chemical and Volume Control System (CVCS).

2.0 REFERENCES

2.1 The wiring to be as-built has been grouped into "drawing packages". These packages were developed from current drawings within the PDS and include P&IDs, W/Ds, S/Ds, layout drawings and connection drawings.

3.0 SUPPORT

An Electrician and/or Technician will do the actual inspections and data recording.

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4.0 EQUIPMENT AND SUPPLIES

4.1 Tools

There are no special tools or equipment required for the as-as-built of CCW. Electricians will use a variety of hand tools to aid the Technician gain access cabinets, panels, electrical compartments and wiring if needed. These tools are normally carried by the electrician. Pictures will be taken of all field equipment and wiring for future reference when possible.

4.2 Supplies

4.2.1 There are no supplies required.

5.0 PRECAUTIONS

5.1 Plant/Equipment

- 5.1.1 Care shall be used to prevent disconnecting wires.
- 5.1.2 Care shall be used to prevent wire bundling devices and scraps from falling into equipment.
- 5.1.3 Care shall be taken not to over-tighten electrical terminations and connections.
- 5.1.4 Care shall be taken to disturb only the wiring being as-as-built and not, whenever possible, any adjacent wiring.

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- 5.2.3 Work may be required to be perform near CCW equipment where the chemical compositions of chromates (a carcinogen) may be present. If a leak of any kind is discovered within the work area, notify the Chemistry Department to resolve any possible risk issue.

6.0 INSTRUCTIONS

- 6.1 It is intended that the as-built process for instrumentation be a non-intrusive exercise, primarily visual, done in the presence of the Technician performing the calibration.
- 6.2 Verify that the equipment/device you are about to work on coincides with that listed in the drawing package you have.
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 - 6.2.2 Photograph equipment according to past practice ensuring all aspects of the installation prior to the as-built process can be referenced through developed pictures.
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Caution: IF moving a wire is required, confirm with the Technician that doing so will not invalidate the calibration of the instrument or impose any undue risk to personnel or equipment.

- 6.2.4 Compare terminal numbers, wire labels and cable labels on documentation provided for each wire found and note differences on discrepancy form included.
- 6.2.5 Wherever possible, write terminal numbers, wire labels and cable labels on termination sheets in documentation provided for each wire found.
- 6.2.6 Record all device, equipment, and panel numbers visible. Designate whether identification numbers are CHAMPS labels or not.

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7.0 RESTORATION

- 7.1 If necessary, restore the instrument back to the status it was in prior to being as-built. Confirm with the Technician performing the calibration that the device is in such a condition that the calibration may continue.

8.0 RETURN TO SERVICE TESTING

~~7.1~~
8.1 Below is a listing of the ICPs and/or work activities being performed in lieu of any formal PMT undertaking by ASB.

- 10/11/96
- | | | | |
|----------------|-----------------------------|-----|------------------------------|
| a. ICP 4.003-3 | AS BUILT : | ICP | 10-23-96 ✓ |
| b. ICP 4.003-6 | AS BUILT : | ICP | 10-11-96 ✓ |
| c. ICP 4.014 | Not completed as of 12-3-96 | | |
| d. ICP 4.018 | AS BUILT : | ICP | 10-25-96 ; 11-19-96 (CV112A) |
| e. ICP 4.15 | AS BUILT : | ICP | 10-29-96 |
| f. ICP 4.16 | AS BUILT : | ICP | 10-30-96 |
| g. ICP 4.36 | AS BUILT : | ICP | 10-16-96 |
| h. ICP 5.016 | AS BUILT : | ICP | 10-22-96 (2H0130) |
| i. ICP 5.010 | AS BUILT : | ICP | 10-25-96 |
| j. IT-1213 | | | |
| k. ICP 5.011 | AS BUILT : | ICP | 10-12-96 |
- 12-3-96
- l. Activity 3470: CV-110 & CV-111 Stroke Test 4608894
- m. Activity 3507: Secondary Temp and Misc Instr Cals In progress 12-3-96
- n. Activity 3510: Misc Containment Instrumentation Cals In progress
- o. Activity 3520: RCP Seal Instrument Cals 10-17-96
- p. Activity 3560: P-2A,B,C Speed Instrument Cals 10-28-96
- q. Activity 3926: CV-371A Valve Diagnostic In progress WO 9610370
- r. Activity 3930: CV-371 Valve Diagnostic WO 9610369
- s. Activity 3936: CV-296 Valve Diagnostic WO 9610367
- t. Activity 3938: CV-313A Valve Diagnostic In progress 9610368

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9.0 CLOSEOUT

- 9.1 All tools collected and removed
- 9.2 Record problems encountered and actions taken
- 9.3 Procedure performer(s) sign for work completion

Signature _____ Date 11/9/96

Signature _____ Date _____

WORK PLAN FOR THE AS-BUILT WIRE TRACING
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Instrument Number	Instrument Description	Instrument Location	ICP	Date As-Built	Date Calibrated
2CV-200A,B, C	L/D Orifice A,B,C Outlet Control Valve	21/U2C/Regen HX Rm	N/A	~	~
2CV-145	HX-3A/B No-Regen HX Out Temp Control Valve	26/PAB LD Demin Galry	6.067		
2CV-244	U-9/U-1A/B Cation/MB Demin Outlet Divert SOV	26/PAB/LD Demin Galry	N/A	~	~
2CV-112A,B,C	T-4 VCT Level Control SOVs	26/PAB/U2 VCT Galry	4.18	10-25-96	10-25-96
LT-112	T-4 VCT Level	26/PAB/U2 VCT Galry	4.18	10-25-96	10-25-96
2CV-312	HX-4 ELHX Outlet Divert SOV	21/U2C/HX-4 ELHX Area West	N/A	~	~
2FT-134 ✓	HX-3A/B Non-Regen HX Outlet Flow XMTR	8/PAB/U2 Galry/N	4.003-7	10-23-96	10-23-96
2PT-135 ✓	HX-3A/B Non-Regen HX Outlet Press XMTR	8/PAB/U2 Galry/N	4.004-4	10-17-96	10-17-96
2LT-141 ✓	VCT Level XMTR	26/PAB/U2 VCT Galry	4.003-3	10-23-96	10-23-96
2PT-121 ✓	HX-4 ELHX Outlet Press XMTR	21/U2C/HX-4 ELHX Area North	4.004-4	10-17-96	10-17-96
2CV-142	Charging Line Flow Control SOV	8/PAB/Pipeway #4	5.016/ 5.16	10-21-96	10-25-96
2CV-1296	Auxiliary Charging Line Isolation SOV	8/U2C/Pipeway #4 Area SW	N/A	~	~
2P-2A	Charging Pump A	8/PAB/U2 CHG PMP RM	N/A	~	~
2P-2B	Charging Pump B	8/PAB/U2 CHG PMP RM	N/A	~	~
2P-2C	Charging Pump C	8/PAB/U2 CHG PMP RM	N/A	~	~
2FT-128	Charging Line Flow XMTR	8/PAB/Pipeway #4	4.003-4	10-12-96	10-12-96
2PT-131 ✓	2P-1A RCP Labyrinth Seal Differential Press XMTR	21/U2C/West Stairs South	5.015 14 - 11	NOT DONE	10-8-96

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2CV-313A	2P-1A/B RCP #1 Seal Water Return Isolation SOV	8/U2C/East Stairs South	N/A	~	~
2CV-386	: 2P-1A/B RCP #1 Seal Water Bypass Control SOV	8/U2C/East Stairs South OVHD	N/A	~	~
2PT-124 ✓	2P-1B RCP Labyrinth Seal Differential Press XMTR	21/U2C/SE QTR/ SI-852B West	5.014	10-16-96	10-16-96
2PT-173 ✓	RCP #1 Seal Differential Press XMTR	21/U2C/West Stairs South	4.004-4	10-17-96	10-17-96
2PT-174 ✓	2P-1B RCP #1 Seal Differential Press XMTR	21/U2C/East Stairs West	4.004-4	10-17-96	10-17-96
2FT-175 ✓	2P-1A RCP #1 Seal Water Return Low Range Flow XMTR	21/U2C/West Stairs South	5.014	NO AS-BUILT	10-8-96
2FT-176 ✓	2P-1B RCP #1 Seal Water Return Low Range Flow XMTR	21/U2C/East Stairs Lower	5.014	10-15-96	10-15-96
2FT-177 ✓	2P-1A RCP #1 Seal Water Return High Range Flow XMTR	21/U2C/West Stairs South	5.014	VISUAL ONLY 10-15-96	10-8-96
2FT-178 ✓	RCP #1 Seal Water Return High Range Flow XMTR	21/U2C/East Stairs Lower	5.014	10-15-96	10-15-96
2P-116	T-6C BAST Recirc Pump	26/PAB East	N/A	~	~
2P-4A	BAST Transfer Pump	26/PAB East	N/A	~	~
2P-4B	BAST Transfer Pump	26/PAB East	N/A	~	~
2LT-106	T-6C Level XMTR	46/PAB/BAST Area	4.15	10-28-96	10-29-96
2LT-172	T-6C Level XMTR	46/PAB/BAST Area	4.15	10-28-96	10-29-96
2LT-190	T-6C Level XMTR	46/PAB/BAST Area	4.15	10-28-96	10-29-96
2FT-185	2P-4B A/B Tran Pump Flow XMTR	26/PAB East			
2FT-110/111	BA Inlet Flow XMTR	26/PAB/U2 VCT	4.14	11-2-96	NOT DONE AS OF 12-9-96
LT-189	T-6B BAST Level XMTR	46/PAB/BAST area	4.15	10-28-96	10-29-96
LT-171	T-6B BAST Level XMTR	46/PAB/BAST area	4.15	10-28-96	10-29-96
LT-102	T-6B BAST Level XMTR	46/PAB/BAST	4.15	10-28-96	10-29-96

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		area			
2CV-110C	BA Inlet Flow Control Valve	26/PAB/U2 VCT Galry	4.14	11-2-96	NOT DONE AS OF 12-8-96
2CV-110B	BA Blender Outlet Flow Control Valve	26/PAB/U2 VCT Galry	4.14	11-2-96	"
2CV-110A	BA to Z-1 Blender Inlet Flow Control Valve	26/PAB/U2 VCT Galry	4.14	11-2-96	"
FCV-111	RMW to Z-1 Blender Flow Control	26/PAB/U2 VCT Area	4.14	11-2-96	"
PCV-135	Letdown Line Backpress Control Valve	8/PAB/U2 Non-Regen HX	5.016/5.16	10-25-96	10-25-96
PT-135			4.004-4	NOT DONE	
TIC-608		8/PAB/Pipeway #3/2RK-51	6.15	VISUAL ONLY	
TIC-612		8/PAB/Pipeway #3	6.15	VISUAL	
FIC-609		8/PAB/Pipeway #3/2RK-51	4.003-6	10-11-96	10-11-96
FIC-613		8/PAB/Pipeway #3/2RK-51	4.003-6	10-11-96	10-11-96
FT-640		8/PAB/U2 Valve Galry North	6.15	VISUAL	
FIS-640		8/PAB/U2 Valve Galry /2RK-75	6.15	VISUAL	
FT-649		8/PAB/Spray Pmp Area	6.15	VISUAL	
FIS-649		8/PAB/Spray Pmp Area /2RK-76	6.15	VISUAL	
FT-650		8/PAB/SI Pump Area	6.15	VISUAL	
FIS-650		8/PAB/SI Pump Area /2RK-77	6.15	VISUAL	
FT-619		46/PAB/BAST Area	6.068	VISUAL	
LT-618		46/PAB/BAST Area	6.15	VISUAL	
LI-618A		46/PAB/CC Surge Tank	6.15	VISUAL	
PIC-639			6.15	VISUAL	
2RE-217			13.1	VISUAL	

WCC TRACKING

DSS

#4

ORIGINAL ***** PBNP ***** WO No: 9611140
WO Priority: J * UNIT 2 * MWO * UNIT 2 *
Resp Group: IC ***** HEADER PAGE ***** Step Print: 10/09/96
Equipment: CV System: CV HP Zone:
Equipment Name: CV SYSTEM MULTI AND/OR NON-NUMBERED EQUIPMENT
Physical Location: CV Discovery Date: 10/07/96

Problem Description:
IC TO PROVIDE AS-BUILT SUPPORT FOR CV SYSTEM INSTRUMENTATION.

Originator: Outage ID: U2R22
Tag/Sticker Placed: N No: 95954 Tag/Sticker Lctn:
Job Type: BETTERMENT PROJECTS Project ID: Concition Report: N
Work Function: WORK ORDER
Mod Req #: -

=====

QA: Y	SEIS: 1	Operability Pre-Test: N	Procedures:
SR: Y	LCO: N		
EQ: N	PMT: Y	Operability Post-Test: N	Procedures:
SSA: L	CIV: Y	MRULE: Y	
A/P: P	CACC:		
RRN: -	-	-	-
QA Codes: 14		Sect XI Class:	Tech Spec Ref:
Tools Needed:			

=====

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Work Plan/Instructions reviewed. Planner: IC S
LINE SUPERVISOR: 11111111 NAME: DATE: 10/12/96

=====

Plant Conditions: COLD SHUTDOWN Ignition Control Permit: N
Other Conditions: Transient Combustible Permit: N
Fire Barrier Penetration Permit: N RWP: N
Equipment Isolation Required: N FME: N
Isolation Tag Series #:

Operability Pre-Test Complete. Equipment Isolation as requested.
Permission granted to perform Work.
Ops DSS Notification Req: Y Ops DSS Signature: Date: 10/12/96

=====

Special Notification:

Number of Steps: 001
Acct #: 00 - 000000 - 1200136 - 000000
MFG Code: Tech Manual Cntl #:

=====

* WORK ORDER CLOSEOUT *

=====

Group Head Signature: Date: 12/11/96

=====

ORIGINAL ***** PBNP ***** WD No: 9611140001
WD Priority: J * UNIT 2 * MWO * UNIT 2 *
Resp Group: IC ***** STEP DETAIL ***** Step Print: 10/09/96
Equipment: CV System: CV HP Zone:
Equipment Name: CV SYSTEM MULTI AND/OR NON-NUMBERED EQUIPMENT
Physical Location: CV
Sequence No: 01 Need Date
Short Desc: IC SUPPORT FOR AS-BUILT WALKDOWN Sched Start Date:

=====

PLANNED: WORK PROCEDURES:
Crew: 1
Shift: 2
Class: 330

=====

Work Plan Description:
ASSIST AS-BUILT EFFORT (SEE TEXT)

=====

QC REVIEW REQUIRED: Y LECLAIR, GENE IC S DATE: 100996

=====

WORK PERFORMED: AS BUILT INSTRUMENTS PER ATTACHED WORK PLAN

=====

MTE: QAR:

=====

ACTUAL USED: CREW: 1
SHIFT: D
WORKER CLASS: 610
NUMBER OF WORKERS: 1
TOTAL HOURS: 20
TTL EXPOSURE/STEP (MREM): 0

=====

PARTS USED LIST ATTACHED: Y / N
WD TAGS REMOVED: Y / N / (NA) WORK COMPLETE DATE: 11/19/96
EMPLOYEE NUMBER: EMPLOYEE NAME: _____

=====

* WORK COMPLETED *

Cause Failure Code: PM / SVC / NRM / _____
As Found-Out of Spec: Y / N / NA Machine History Review Required: Y / N
Failed Component: _____
Corrective Action: NA/RP/RE/ _____ Downtime: _____ hrs
LINE SUPERVISOR: _____ NAME: _____ DATE: 11/9/96

=====

* EQUIPMENT RETURN TO SERVICE *

Operability Post Testing: by ITC calibration PNT
EQUIP. TAKEN OOS - DATE: 10/11/96 TIME: 0700 RTN DATE: 12/10/96 TIME: 1833
Operability Procs Performed _____
NON OPS SUPV: _____ NAME: _____ DATE: _____
DSS: _____ NAME: _____ DATE: 12/10/96

ORIGINAL ***** PBNP ***** WO No: 9611140
WO Priority: J * UNIT 2 * MWO * UNIT 2 *
Resp Group: IC ***** TEXT DETAIL ***** Step Print: 10/09/96
Equipment: CV System: CV HP Zone:
Equipment Name: CV SYSTEM MULTI AND/OR NON-NUMBERED EQUIPMENT
Physical Location: CV Discovery Date: 10/07/96

TEXT ID: WO-9611140 PAGE: 001

THIS WORK ORDER IS TO BE USED TO ASSIST THE AS-BUILT GROUP PERFORM
AS-BUILT VERIFICATION ON I&C EQUIPMENT THAT IS TO BE CALIBRATED DURING
U2R22. EQUIPMENT TO BE AS-BUILT IS LISTED ON THE ATTACHED SHEET. THE
AS-BUILT INSPECTION WILL BE PERFORMED JUST PRIOR TO I&C CALIBRATION SO
THAT THE PMT PERFORMED AS PART OF THE I&C CALIBRATION PACKAGE WILL COVER
THE AS-BUILT WORK.

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m. Activity 3507: Secondary Temp and Misc Instr Cals
n. Activity 3510: Misc Containment Instrumentation Cals
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r. Activity 3930: CV-371 Valve Diagnostic
s. Activity 3936: CV-296 Valve Diagnostic
t. Activity 3938: CV-313A Valve Diagnostic

See
WO
9611159

Revision: 1
October 12, 1996

- 9.1 All tools collected and removed
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Signature _____ Date 11/9/96

Signature _____ Date _____

**MWR WORK PLAN**

Work Control Document: 9604151

Perform FME inspection on PT cubicle in 2A-06

Work Plan Originator: Richard Hamblin

Date: January 10, 1997

Hold Point	Step No.	Work Plan Description	Worker	Date
FME:		TOOLS AND EQUIPMENT SHALL BE CHECKED FOR LOOSE PARTS AND DEBRIS AND TEMPORARY COVERS SHOULD BE INSTALLED FOR FOREIGN MATERIAL EXCLUSION (FME) OF SYSTEMS/COMPONENTS PER NP 8.4.10 "EXCLUSION OF FOREIGN MATERIAL FROM PLANT COMPONENTS AND SYSTEMS".		
	1.	Remove 2A-06 from service per RMP-29F.	OPS	1/27/97
FME	2.	Perform FME inspection on PT cubicle. Ref CR 96-198 for possible types of FME that may be found.	MTN	1/27/97
	3.	Breaker change for cubicle 2A52-87 complete. per WO. # 9610602 Breaker has been installed in cubicle.	MTN VERIFIER	1/27/97
	4.	Breaker change for cubicle 2A52-89 complete. per WO. # 9610604 Breaker has been installed in cubicle.	MTN VERIFIER	1/27/97
	5.	Breaker change for cubicle 2A52-92 complete. per WO. # 9610605 Breaker has been installed in cubicle.	MTN VERIFIER	1/27/97
	6.	Breaker change for cubicle 2A52-96 complete. per WO. # 9610606 Breaker has been installed in cubicle.	MTN VERIFIER	1/27/97
PMT	7.	Return 2A-06 to service per RMP-29F.	OPS	1/28/97
IF SCOPE CHANGES WO MUST BE REVIEWED FOR FME/PMT/QC BEFORE PROCEEDING.				

QC INSP. _____ DATE 1-23-97

Work Order No. 9604151

Return to Service Testing Reviews

INITIALS

Pre-Release / Pre or Post-RTS

Work Group Post-Maintenance Testing

~~AS DIRECTED BY RMP 29F~~ Step 7.5

Verify grounding strap ground resistance ≤ 5 ohms

Verify ≥ 100 M Ω Phase to ground & Discharge Absorption ratio 2:1

Section XI Equipment Y ☒ N

Operability Testing

NONE

Inservice Testing

NONE

ENGINEERING REVIEW

SECTION XI ENGINEERING REVIEW

N/A, N/A

SRO Procedure and Non-Operations Work Plan Review

All ITs, TSs, and Non-Operations work plans on Maintenance Rule or Safety Related or DSS Notification required work orders, to ensure they adequately establish initial conditions, equipment recovery actions (e.g. valve line-ups), and independent verification of recovery actions. Problems identified are to be corrected before use. This form documents the required review has been completed.

Procedure or Non-Operations work plan reviewed:

RMP 29F

SRO (Reviewer)

1-26-97
Date

62

22

No 960415/

7-23-47

7

ORIGINAL

PRNP

WO No 9604151

81

WCC TRACKING

* UNIT 2

Rese Group MTN

Step Print

Equipment: A-06

System 4.4KV 45 Zone

Equipment Name: 4.4KV BUS SWITCHGEAR (SAFEGUARDS)

Physical Location: 26/DGB/G-04 DWGR RM

Delivery Date: 04-17-97

Problem Description:

PERFORM FME INSPECTION OF BT CUBICLE. PAY PARTICULAR ATTENTION TO POSSIBLE LOOSE METALLIC FASTENERS AS DESCRIBED IN CR 96-19B.

Originator: CANC (KLINGERT)

Cage ID: U2922 active: 80644

Tag/Sticker Placed N No 94321

Tag/Sticker Locn:

Job Type: CORRECTIVE MAINTENANCE

Project ID:

Condition Report:

Work Function: WORK ORDER

Mod Req #:

GA: Y SEIS: 1 Operability Pre-Test: N Procedures:

SR: Y LDD: N

EQ: N PNT: Y Operability Post-Test: Y Procedures: CR 3

SSA: Y CIV: N MRULE: Y

A/S: F CASE:

RRN:

Tech Spec Ref: X.7.4.1.2

QA Codes: 10 21 37

Sect XI Class:

Tools Needed:

Work Plan/Instructions reviewed. Planner: SKARVAN, KEITH MPS

LINE SUPERVISOR:

NAME:

DATE: 1/27/97

Plant Conditions: SEE PROB DESC OR PROCEDURE

Con tion Control: 26-04

Other Conditions: 2A-06 DDS

Transient Combustible Permit:

Fire Barrier Penetration Permit: N

BUS

Equipment Isolation Required: Y

PMS

Isolation Tag Series #: 222-302

Operability Pre-Test Complete: _____

Equipment Isolation as requested: _____

Permission granted to perform Work: _____

Ops DSS Notification Rec: Y Ops DSS Signature: _____

Date: 1/27/97

Special Notification:

Number of Stages: 001

Acct #: 00 - 00000 - 1200141 - 00000

MFG Code: ABPPD

Tech Manual Cntl #:

* WORK ORDER CLOSEOUT *

Group Head Signature: _____

Date: 1/31/97

Priority: 6 * UNIT 2 * RMP *****
Job Group: MTN ***** MWO * UNIT 2 *
Equipment: A-06 ***** STEP DETAIL *****
Equipment Name: 4.16 KV BUS SWITCHGEAR (SAFEGUARDS) SYSTEM 4.16KV HP Zone
Physical Location: 20/DGB/G-04 SWGR RM
Sequence No: 0
Short Desc: PERFORM FME INSP/PT CUBICLE
Need Date
Sched Start Date

PLANNED
Crew: ME WORK PROCEDURES
Shift: 2 RMP 29F/297/105
Class: 420 2RMP 9339-2
2RMP 9056/9056-2
2RMP 9071/9071-2

Work Plan Description
PERFORM FME INSPECTION OF PT CUBICLE USING ATTACHED WORK PLAN.
ALL QC, FME, AND PMT ADDRESSED IN ATTACHED WORK PLAN.

QC REVIEW REQUIRED: Y SKARVAN, KEITH MPS
DATE: 01/27/97

WORK PERFORMED: *Performed FME inspection of PT cubicle per attached workplan (using RMP 29F and 2RMP 9071 + 9071-2)*

E MCMG-001 MCMH-008
MCMH-007

ACTUAL USED: CREW
SHIFT: 1
WORKER CLASS: 420
NUMBER OF WORKERS: 2
TOTAL HOURS: 1
CTL EXPOSURE/STEP (MREM): 1

RTS USED LIST ATTACHED: Y
NO TAGS REMOVED: Y / N
EMPLOYEE NUMBER: *NA*
WORK COMPLETE DATE: 1/27/97
EMPLOYEE NAME:

Cause Failure Code: PM / SVC / NRM /
Found-Out of Spec: Y / N / *NA*
Failed Component: Machine History Review Required: Y / N
Corrective Action: *NA* RP/RE/
NE SUPERVISOR: NAME: Downtime: hrs
DATE: 1/28/97

* EQUIPMENT RETURN TO SERVICE *
Availability Post Testing: TS-83 2RMP-9071
VIP. TAKEN OOS - DATE: 1/27/97 TIME: 0811 RETURN DATE: 1/28/97 TIME: 0837
Availability Procs Performed
OPS SUPV: NAME: DATE: 1/28/97
DSS: NAME: DATE: 1/28/97

SUMMARY
OF
OPERATIONS PROCEDURES REVIEW
FOR
MAINTENANCE ACTIVITIES

January 21, 1997

The Operations Group procedures were reviewed for maintenance activities using the attached document (page 2). This document was developed for this review to aid in flagging maintenance activities. The list of flags developed on this document was only to be a guide and not set the limit to what was finally identified as a maintenance activity.

The following Operations Group series procedures were reviewed:

ORT.....with exception to 3, 3a, 3b, 3c, 9,10, and 17 see attached exception table.
OI
OP
TS
IT
PC
RP.....with exception to 7 and 8 see attached exception table.
RF

Total number of procedures reviewed for maintenance activities	781
Total number of procedures requiring a revision for PMT or QC (see attached list of procedures requiring revision)	70
Total number of procedures requiring a revision for PMT	67
Total number of procedures requiring a revision for QC	15

Summary prepared by

OPERATIONS PROCEDURES
MAINTENANCE ACTIVITY REVIEWS

The following is a list of flags that can be used to help find Maintenance activities during initial reviews of Operations procedures:

NOTE: If any of the following words or descriptions under IS A FLAG appear in the procedure you are reviewing, then the step is flagged by making a rev-bar using a blue highlighter. This will identify possible procedures needing PMT or QC revisions. If you are not sure FLAG IT in pink.

IS A FLAG	IS NOT A FLAG
Flange or test cap removal (test cap only if there is NO isolation valve. In most cases there will be an isolation valve)	Flange or test cap removal if isolation valve is used
Perform packing adjustment or tighten packing on AOV or MOV	Packing adjustment on a manual valve.
Lubricate, fill with oil, or grease	If grease type is specified in procedure
Filter removal or replacement	
Resin replacement (eg., boron control)	Resin is not used for Safety related system
Setpoint adjustment	If controlled in procedure
Installing/removing jumpers, grounds, or lifting/landing leads	If restoration is described in procedure
	Breaker racking-in or out
	Valve manipulations
	Changing bulbs
	Hose connections
Repair (anytime the word repair is used flag it)	
Any other possible maintenance activities you think are appropriate	

EXAMPLES OF MAINTENANCE ACTIVITIES FOUND DURING REVIEW

1. PMT steps were added following installation of equipment requiring a leak check.

EXAMPLE;

7.3.6 Install following steam traps:

a. (list of steam traps)

PMT

7.3.7 Check components listed in step 7.3.6 for leakage when system is at normal operating pressure.

2. Removal and installation of filter housing covers.

EXAMPLE; Added PMT identification to existing step.

PMT

4.6 Inspect filter housings listed in step 1.1 for leakage while system is in operation.

3. Preventative maintenance performed on pumps.

EXAMPLE; Added PMT identification to existing step.

PMT

4.7 Cycle pump No. 3 from minimum to maximum (greater than 56 gpm), noting any abnormal noises or conditions.

4. QC witness points were added following cover installation.

EXAMPLE; Added QC inspector note and step. Added M&TE identification.

NOTE: *QC Inspector must witness performance of Step 5.2.12.*

5.2.12 Ensure access cover properly installed and torqued to 60 ft-lbs. _____

Torque Wrench No. _____ Cal Date: _____

5.2.13 Access cover bolts properly torqued _____

QC

EXCEPTION TABLE

The procedures listed below will receive an extensive revision prior to use.

ORT 3 series has many issues not related to maintenance steps that require resolution before the procedures will be revised and used. ORT 3 Unit 2 is being reviewed for this outage's performance.

ORT 9, 10, and 17 (Unit 2) series are in the process of revision for this outage. The current schedule for approval of this procedure series is after Jan 31, 1997. Guidance on including PMT/QC for maintenance activities has been provided to the responsible engineer. A review for QC will be required by a QC inspector qualified individual prior to procedure approval.

ORT 9, 10, and 17 (Unit 1) series will be based on the Unit 2 procedures when that series is complete. The Unit 1 ILRT is currently scheduled for the spring outage. This series will be required for that performance.

RP-7 and RP-8 are for ISFSI. The review of this series of procedures was previously completed by a maintenance QC inspector. The procedure series is currently in draft form. It is not expected that this series will be approved by Jan 31, 1997. The revisions to this series will be required for loading the next cask.

Procedure ID		Unit 1	Unit 2
ORT	3	Revisions will be done prior to next use (ORT 3, 3A, 3B, 3C)	ORT 3 will be done Jan 29
	3A		ORT 3A and 3B revisions will be done prior to next use
	3B		
	3C		
ORT	9	Prior to next use (Unit 1 Outage)	Prior to completion of Unit 2 Outage
	10		
	17		
RP	7	ISFSI	
	8	Prior to Cask Load	

PROCEDURES REQUIRING REVISION

ORT UNIT 1			ORT UNIT 2		
PROCEDURE NUMBER	TITLE	REV	PROCEDURE NUMBER	TITLE	REV
ORT 4	Main Turbine Mechanical Overspeed Trip Device	8	ORT 4	Main Turbine Mechanical Overspeed Trip Device	8
ORT 31	Nitrogen Supply to the Pressurizer Relief Tank (P14A)	10			
ORT 50	PRT to Gas Analyzer Sample Line (P34A)	8	ORT 50	PRT to Gas Analyzer, Sample Line(P34A)	6
ORT 59	Train A Spray System CIV Leakage Test	16	ORT 59	Train A Spray System CIV Leakage Test(P54)	17
ORT 60	Train B Spray System CIV Leakage Test	18	ORT 60	Train B Spray System CIV Leakage Test(P55)	17
ORT 67	Component Cooling Water to and from the Excess Letdown Heat Exchanger - Refueling Shutdown (P19, 20)	14	ORT 67	Component Cooling Water to and from the Excess Letdown Heat Exchanger, Unit 2 - Refueling Shutdown(P19, 20)	12
ORT 71	Electrical Penetration Leak Test (P58)	6	ORT 71	Electrical Penetration Leak Test(PE58)	6
ORT 72	Electrical Penetration Leak Test (P21, 22)	7	ORT 72	Electrical Penetration Leak Test(PE20, E22)	8
ORT 73	Electrical Penetration Leak Test (P28)	7	ORT 73	Electrical Penetration Leak Test(PE1)	6

OI

PROCEDURE NUMBER	TITLE	REV	PROCEDURE NUMBER	TITLE	REV
OI-17	Letdown Gas Stripper Operation	9	OI-22G	Changing Boric Acid Evaporator Feed Filters (F8)	4
OI-17A	Letdown Gas Stripper Preparation for Maintenance and Recovery, Unit 1	1	OI-22H	Changing Boric Acid Concentrates Filters (F-5A&B)	4
OI-17B	Letdown Gas Stripper Preparation for Maintenance and Recovery, Unit 2	1	OI-32	Hydrogen System Operation	16
OI-22A	Changing Reactor Coolant Micron Filter (F1)	9	OI-48B	Lube Oil Filter Changeouts	3
OI-22B	Changing Seal Water Return Filter (F2)	6	OI-48E	EH Fluid System	14
OI-22C	Changing Spent Fuel Pit Filter (F6)	5	OI-64A	Installation and Removal of Purge Valve Component Bypass Lines	5
OI-22D	Changing Seal Water Injection Filters (F39A&B)	8	OI-86	Instrument Air K2A/K2B and Service Air K3A/K3B Compressor Run-in Operating Instructions	5
OI-22E	Changing Letdown Gas Stripper Filters (F60A&B)	6	OI-86A	Instrument Air Dryer Z-31 Operating Instructions	1
OI-22F	Changing Boric Acid Filters (F3)	2	OI-115	SFP Service Water Cooling Isolation for Maintenance	1
OI-73J	Water Treatment Resin Sampling	1			

OP

PROCEDURE NUMBER	TITLE	REV
OP-4D Part 1	Draining the Reactor Coolant System to a CVCS HUT Without Entering Reduced Inventory	45
OP-4D Part 5	Draining the Reactor Coolant System to a CVCS Hut Without Entering Reduced Inventory and Without Draining Steam Generator Tube	0
OP-9C	Containment Venting and Purging	37

TS		
PROCEDURE NUMBER	TITLE	REV
TS-37 U1	Containment Spray Nozzles Check (Frequency of Less Than or Equal to Five Years)	5
TS-38 U2	Containment Spray Nozzles Check (Frequency of Less Than or Equal to Five Years)	5
TS-80	Sampling of Emergency Fuel Oil Tank (T-72), Fuel Oil Storage Tanks (T-175A,B) and EDG Day Tanks (T-31A,B & T-176A,B) (Quarterly)	8

IT		
PROCEDURE NUMBER	TITLE	REV
IT-200 U1	Pressurizer Power-Operated Relief Valves and Block Valves (Cold Shutdown)	12
IT-205 U2	Pressurizer Power-Operated Relief Valves and Block Valves (Cold Shutdown)	14
IT-380 U1	Purge Valve Air System Check Valve (Quarterly)	5
IT-385 U2	Purge Valve Air System Check Valve (Quarterly)	6
IT-530 U1	Leakage Reduction and Preventive Maintenance Program Test of the Residual Heat Removal System (Refueling)	11
IT-530A U1	Leakage Reduction and Preventive Maintenance Program Test of the Train A HHSI and RHR Systems (Refueling)	1
IT-530B U1	Leakage Reduction and Preventive Maintenance Program Test of the Train B HHSI and RHR Systems (Refueling)	1
IT-535 U2	Leakage Reduction and Preventive Maintenance Program Test of the Residual Heat Removal System (Refueling)	11
IT-535A U2	Leakage Reduction and Preventive Maintenance Program Test of the Train A HHSI and RHR Systems (Refueling)	1
IT-535B U2	Leakage Reduction and Preventive Maintenance Program Test of the Train B HHSI and RHR Systems (Refueling)	2

PC

PROCEDURE NUMBER	TITLE	REV
PC-1 Part 3	Monthly Heating and Ventilation System Checks, Unit 2 Turbine Hall	20
Part 2	Monthly Heating and Ventilation System Checks, Unit 1 Turbine Hall	27
PC-9 Part 1	Monthly Shifting of Instrument Air Compressors and Air Dryer Checks	20
PC 23 Part 5	Charging Pump Preventative Maintenance	1
PC 24	Containment Inspection Checklist (Monthly), Unit 1	42
PC-24	Containment Inspection Checklist (Monthly), Unit 2	42
PC-43 Part 3	Service Water Strainers	12
PC-77 Part 1	Refueling Interval Automatic Fire Protection System Valve Trip-Test and Alarm Verification Test, Unit 1	8
Part 2	Refueling Interval Automatic Fire Protection System Valve Trip-Test and Alarm Verification Test Unit 2	10
Part 4	Annual Automatic Dry-Pipe Fire Protection System Valve Trip- Test and Alarm Verification Test	4
Part 6	Annual Gas Turbine and Auxiliary Transformer Fire Protection System Valve Trip-Test and Alarm Verification Test	5

RP		
PROCEDURE NUMBER	TITLE	REV
RP-1A	Preparation for Refueling	42
RP-1B	Recovery from Refueling	32
RP-6A	Steam Generator Crevice Flush (Vacuum Mode)	8

RF		
PROCEDURE NUMBER	TITLE	REV
RF-190	Condenser Hotwell Inspection, Unit 1	3
RF-195	Condenser Hotwell Inspection, Unit 2	2
RF-230.1	EH Filter Changeout and Magnetic Plug Inspection, U1	4
RF-235.1	EH Filter Changeout and Magnetic Plug Inspection, U2	3

***** Responsible Person: WILLIAM HEINSOHN
* Trkid: NRC 96EC * Urgency: DONE
* Action Number: 51 * Work Priority: 99

Activity Pending is: DONE

ASSOCIATED WITH A COMMITMENT

-----TITLE AND TASK DESCRIPTION-----

NRC 09/12/96 Enforcement Conference

PMT: Review other operating procedures that contain maintenance activities and revise as necessary to ensure PMT and QC are properly addressed by the procedure.

-----DATES-----

Source Record: 11/13/96	***** Evaluation *****	***** Correction *****
Commitment: 01/31/97	Eval Due:	Corr Act Due: 01/31/97
Action Create: 11/14/96	Orig Eval Due:	Orig CA Due: 01/31/97
Action Closed: 02/04/97	Eval Done:	Corr Act Done: 01/31/97

-----PEOPLE-----

Responsible for Overall Action: MSV WILLIAM HEINSOHN
Responsible for Current Pending Activity: JOHN PALMER
Issue Manager: FRITZIE FLENTJE
Initiator: FRITZIE FLENTJE
Punchlist Administrator: FRITZIE FLENTJE

-----UPDATE-----

(11/18/96 WBF) Changed Responsible Person: From (WBF) to (BOS)
Changed Responsible Group: From (MT) To (MSV) ..

(12/04/96 BOS) Changed Responsible Person: From (BOS) to (WWH) .

(01/30/97 WWH) All operating procedures of the following types have been reviewed: IT, TS, OP, OI, ORT, RF, RP, PC. Of the 781 procedures reviewed, 70 procedures required changes made for PMT and/or QC. Some required only identification of an existing step as performing PMT or QC. Some required adding steps to perform PMT or QC. Also in the 781 procedures, several series of procedures were identified as potentially requiring PMT/QC added into them, but other issues still required resolution prior to a revision to the procedure being completed. A temporary change to the operating procedures in these series was issued to place the procedures on administrative hold, requiring thereview to be completed and a revision (if required) prior to use. Lists of each type of procedure will be included in future updates to this action item. All procedures requiring revision have had the revisions approved.

(01/31/97 WWH) Revisions to all 70 procedures have been issued.

(01/31/97 WWH) The following procedures were revised to identify or add PMT and/or QC. IT-200, IT-205, IT-380, IT-385, IT-530, IT-530A, IT-530B, IT-535, IT-535A, IT-535B, OP-4D Part 1, OP-4D Part 5, OP-9C, RP-1A, RP-1B, RP-6A, OI-17, OI-17A, OI-17B, OI-22A through OI-22H, OI-32, OI-48B, OI-48E, OI-64A, OI-73J, OI-86, OI-86A, OI-115, Unit 1 and 2: ORT-4, ORT-50, ORT-59, ORT-60, ORT-67, ORT-71, ORT-72, ORT-73, Unit 1 only: PC-1 Part 3, PC-9 Part 1, PC-23 Part 5, PC-24 Unit 1, PC-24 Unit 2, PC-43 Part 3, PC-77 Part 1, PC-77 Part 2, PC-77 Part 4, PC-77 Part 6, PC-1 Part 2, RF-190, RF-195, RF-230.1, RF-235.1, TS-37, TS-38, TS-80.

(01/31/97 WWH) The following procedures were placed administratively on hold by issuing a temporary change that states the procedure can not be used until the review for PMT/QC is complete, and a revision is issued if required. Unit 1: ORT-3, ORT-3A, ORT-3B, ORT-3C, ORT-3 App C; Unit 2: ORT-3A, ORT-3B, ORT-3 App C; Unit 1 and 2: ORT-9, ORT-9 App A to Z, ORT-9 CL-1B, ORT-10, ORT-17; for ISFSI: RP-7, RP-7 Part 1 to 8, RP-8, RP-8 Part 1 to 5.

(01/31/97 WWH) Passed to BRUCE SASMAN for acceptance of work.

(01/31/97 WWH) Passed to JOHN PALMER for Verification.
This item is complete. All operating procedures have been reviewed. The revisions required have been approved and issued.

(02/03/97 JAP) Passed to FRITZIE FLENTJE for Final Close Out.
Item is complete

(02/04/97 FAF) PLA Closure of Item.

ACTION ITEM STATUS REPORT

PAGE 2
02/04/97

Item has been verified. Too many procedures affected to reference in this
action item.

-----REFERENCES-----

IR 96-006

IR 96-011

-----MISCELLANEOUS-----

Originating Agency:

System: XX

NRC Open Item Number:

NRC Status: O

Related Outages:

Engineering Work Type: None Specified

Person Hours: Original Estimate =

Current Estimate =

Actual Hours =

NUCLEAR POWER BUSINESS UNIT
INSERVICE TESTS

IT INDEX
Revision 172
January 31, 1997

INDEX

PROCEDURE NUMBER	PROCEDURE TITLE	REVISION NUMBER	EFFECTIVE DATE	BIENNIAL REVIEW/ CANCELED DATE
IT-01 U1	High Head Safety Injection Pumps and Valves (Quarterly).....	34 C	03/29/96	03/07/94
IT-02 U2	High Head Safety Injection Pumps and Valves (Quarterly).....	38 C	04/08/96	03/07/94
IT-03 U1	Low Head Safety Injection Pumps and Valves (Quarterly).....	30 C	03/29/96	01/04/95
IT-03A U1	RHR Pump and Valve Tests in DHR Mode (Cold Shutdown)	7 C	07/12/93	01/04/95
IT-04 U2	Low Head Safety Injection Pumps and Valves (Quarterly).....	34 C	04/08/96	01/04/95
IT-04A U2	RHR Pump and Valve Tests in DHR Mode (Cold Shutdown)	6 C	07/12/93	01/04/95
IT 05 U1	Containment Spray Pumps and Valves (Quarterly) ..	33 C	01/28/97	01/28/97
IT 06 U2	Containment Spray Pumps and Valves (Quarterly) ..	39 C	01/28/97	01/28/97
IT-07	Service Water Pumps and Valves (Quarterly).....	24 C	10/04/96	10/04/96
IT 08 U1	Turbine-Driven Auxiliary Feed Pump Hot Start	29 C	01/17/96	07/27/92
IT 08A U1	Cold Start Testing of Turbine-Driven Auxiliary Feed Pump and Valve Test (Quarterly).....	15 C	01/06/97	02/03/95
IT 09 U2	Turbine-Driven Auxiliary Feed Pump Hot Start	31 C	01/06/97	02/10/95
IT 09A U2	Cold Start Testing of Turbine-Driven Auxiliary Feed Pump and Valve Test (Quarterly).....	15 C	01/06/97	02/03/95
IT 10	Test of Electrically-Driven Auxiliary Feed Pumps and Valves (Quarterly)	32 C	01/17/97	01/17/97
IT 10A U1	Test of Electrically-Driven Auxiliary Feed Pumps and Valves with Flow to Unit 1 Steam Generators (Quarterly)	0 C	01/24/97	01/24/97
IT-11	Spent Fuel Pool Cooling Pumps (Quarterly).....	9 C	10/04/96	10/04/96
IT-11A	Performance Test for Spent Fuel Pool Heat Exchanger HX-13A/B (Replaces PC-56 Part 3)	1 R	09/12/96	05/10/96
IT-12 U1	Component Cooling Water Pumps and Valves (Quarterly)	11 C	08/29/96	04/18/94
IT 13 U2	Component Cooling Water Pumps and Valves (Quarterly)	13 C	01/24/97	04/29/94
IT 14	Quarterly Inservice Test of Fuel Oil Transfer System Pumps and Valves	11 C	11/15/96	11/15/96
IT-15	Chill Water Pumps and Valves (Quarterly).....	4 C	03/20/95	07/11/94
IT-16	Quarterly Fail-Safe Stroke Test of Air-Operated Valves.....	4 C	08/09/96	08/09/96
IT 17 U1	Boric Acid Transfer Pumps and Valves (Quarterly) ...	7 C	11/15/96	04/24/95

(T - Temporary Change)

C = Continuous Use
R = Reference Use
I = Information Use

NUCLEAR POWER BUSINESS UNIT
INSERVICE TESTS

IT INDEX
Revision 172
January 31, 1997

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PROCEDURE NUMBER	PROCEDURE TITLE	REVISION NUMBER	EFFECTIVE DATE	BIENNIAL REVIEW/ CANCELED DATE
IT 18 U2	Boric Acid Transfer Pumps and Valves (Quarterly) ...	6 C	11/15/96	04/24/95
IT-20 U1	Reactor Coolant Valves (Quarterly)	14 C	03/29/96	03/29/96
IT-21 U1	Charging Pumps and Valves Test (Quarterly)	4 C	04/13/95	04/13/95
IT-22 U2	Charging Pumps and Valves Test Quarterly	4 C	04/24/95	04/24/95
IT-25 U2	Reactor Coolant Valves (Quarterly)	13 R	04/08/96	04/08/96
IT-40 U1	Safety Injection Valves (Quarterly)	31 C	03/15/96	03/20/95
IT-45 U2	Safety Injection Valves (Quarterly)	30 C	03/08/96	03/20/95
IT-60 U1	Containment Isolation Valves (Quarterly)	21 C	01/08/96	10/03/94
IT-65 U2	Containment Isolation Valves (Quarterly)	23 C	01/08/96	10/03/94
IT-72	Service Water Valves (Quarterly)	4 C	02/21/94	02/21/94
IT-80 U1	Main and Radwaste Steam Valves (Quarterly)	16 C	10/14/96	09/04/92
IT-85 U2	Main Steam Valves (Quarterly)	16 C	10/14/96	09/04/92
IT-90 U1	Atmospheric Steam Dump Valves (Quarterly)	6 C	10/04/96	03/20/95
IT-95 U2	Atmospheric Steam Dump Valves (Quarterly)	4 C	03/20/95	03/20/95
IT-100	Seat Leakage Test of Diesel Air Compressor			
	Discharge Check Valves (Quarterly)	4 R	10/12/95	11/15/93
IT-110 U1	Instrument Air Valves (Quarterly)	9 R	04/13/95	04/13/95
IT-115 U2	Instrument Air Valves (Quarterly)	8 R	04/13/95	04/13/95
IT-140	Renumbered to IT-290			
IT-145	Renumbered to IT-295			
IT-150	Renumbered to IT-280			
IT-155	Renumbered to IT-285			
IT-160	Renumbered to IT-270			
IT-165	Renumbered to IT-275			
IT-170	Renumbered to IT-320			
IT-175	Renumbered to IT-325			
IT-180	Renumbered to IT-330			
IT-185	Renumbered to IT-335			
IT 200 U1	Pressurizer Power-Operated Relief Valves and			
	Block Valves (Cold Shutdown)	13 C	01/31/97	01/04/95
IT 205 U2	Pressurizer Power-Operated Relief Valves and			
	Block Valves (Cold Shutdown)	15 C	01/31/97	01/16/95
IT-210 U1	SI Valves (Cold Shutdown)	5 R	02/08/93	02/08/93
IT-215 U2	SI Valves (Cold Shutdown)	6 R	02/01/93	02/01/93
IT-230 U1	Leak Test of Class 1 Components Following a			
	Refueling Shutdown	19 C	11/20/95	11/20/95
IT-235 U2	Leak Test of Class 1 Components Following a			
	Refueling Shutdown	16 C	10/14/96	11/20/95

(T - Temporary Change)

C = Continuous Use
R = Reference Use
I = Information Use

INDEX

PROCEDURE NUMBER	PROCEDURE TITLE	REVISION NUMBER	EFFECTIVE DATE	BIENNIAL REVIEW/ CANCELED DATE
IT-240 U1	Safety Injection Accumulator Valves (Cold Shutdown)	8 R	08/14/92	08/14/92
IT-245 U2	Safety Injection Accumulator Valves (Cold Shutdown)	9 R	08/14/92	08/14/92
IT-250 U1	Chemical and Volume Control and Component Cooling System Valves (Cold Shutdown)	13 R	02/24/95	02/24/95
IT-255 U2	Chemical and Volume Control and Component Cooling System Valves (Cold Shutdown)	12 R	07/11/94	08/21/92
IT-270 U1	1SW-2880 Service Water Supply to Unit 1 Turbine Hall (Cold Shutdown)	4 R	01/04/95	01/04/95
IT-275 U2	2SW-2880 Service Water Supply to Unit 2 Turbine Hall (Cold Shutdown)	4 R	01/04/95	01/04/95
IT-280 U1	Main Steam Stop Valves (Stroke Test)	16 C	12/04/95	12/04/95
IT-280A U1	Main Steam Stop Valves Stroke Test (Cold Shutdown) <200°F	6 C	09/12/96	01/15/96
IT-280B U1	Main Steam Isolation Valves Exercise Trip Test (Unit Shutdown)	5 C	09/12/96	12/04/95
IT-285 U2	Main Steam Stop Valves (Stroke Test)	17 C	12/04/95	12/04/95
IT-285A U2	Main Steam Stop Valves Stroke Test (Cold Shutdown) <200°F	6 C	09/12/96	12/04/95
IT-285B U2	Main Steam Isolation Valves Exercise Trip Test (Unit Shutdown)	5 C	09/12/96	12/04/95
IT-290 U1	Auxiliary Feedwater System Check Valves and Flow Indicators	29 R	02/03/95	02/03/95
IT 290A U1	Auxiliary Feedwater System Flow Paths and Indicators	14 R	01/06/97	02/03/95
IT 290B U1	Overspeed Test Turbine-Driven Auxiliary Feedwater Pump, Refueling Interval	6 R	01/06/97	02/08/93
IT-295 U2	Auxiliary Feedwater System Check Valves and Flow Indicators	27 R	02/03/95	02/03/95
IT 295A U2	Auxiliary Feedwater System Flow Paths and Indicators	13 R	01/06/97	02/03/95
IT 295B U2	Overspeed Test Turbine-Driven Auxiliary Feedwater Pump, Refueling Interval	7 R	01/06/97	02/08/93
IT-300 U1	Main Feed Line Check Valves (Cold Shutdown)	9 R	03/25/93	03/25/93
IT-300A U1	Steam Generator A Main Feed Line Check Valves (Cold Shutdown)	1 R	10/17/96	10/17/96
IT-300B U1	Steam Generator B Main Feed Line Check Valves (Cold Shutdown)	1 R	10/17/96	10/17/96

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IT-305 U2	Main Feed Line Check Valves (Cold Shutdown).....	9 R	04/19/93	04/19/93
IT-305A U2	Steam Generator A Main Feed Line Check Valves (Cold Shutdown)	1 R	10/14/96	10/14/96
IT-305B U2	Steam Generator B Main Feed Line Check Valves (Cold Shutdown)	1 R	10/14/96	10/14/96
IT-310 U1	Main Steam Line Non-Return Valves (Cold Shutdown)	7 R	08/22/94	08/22/94
IT-315 U2	Main Steam Line Non-Return Valves (Cold Shutdown)	8 R	08/22/94	08/22/94
IT-320 U1	CVCS Valves (Cold Shutdown).....	7 R	02/12/93	02/12/93
IT-325 U2	CVCS Valves (Cold Shutdown).....	7 R	02/22/93	02/22/93
IT 330 U1	Containment Isolation Valves (Cold Shutdown).....	7 C	11/15/96	10/03/94
IT-335 U2	Containment Isolation Valves (Cold Shutdown).....	7 C	09/09/96	10/03/94
IT 360 U1	Purge Supply and Purge Exhaust Valves (Cold Shutdown)	8	11/15/96	11/15/96
IT-365 U2	Purge Supply and Purge Exhaust Valves (Cold Shutdown)	8	09/09/96	09/09/96
IT 380 U1	Purge Valve Air System Check Valve (Quarterly).....	6 R	01/31/97	10/04/94
IT 385 U2	Purge Valve Air System Check Valve (Quarterly).....	7 R	01/31/97	10/04/94
IT-390 U1	Safety Injection Valves (Annual)	3 C	01/29/96	02/22/93
IT-395 U2	Safety Injection Valves (Annual)	3 C	01/29/96	04/22/93
IT-500 U1	Leakage Reduction and Preventive Maintenance Program Test of Post-Accident Reactor Coolant Sampling System (Refueling)	12 C	09/09/96	12/21/93
IT-505 U2	Leakage Reduction & Preventive Maintenance Program Test of Post-Accident Reactor Coolant Sampling System (Refueling)	9 C	09/08/95	12/21/93
IT-510B U1	Leakage Reduction and Preventive Maintenance Program Test of Safety Injection Test Line (Refueling).....	11	03/03/95	03/03/95
IT-515A	RENUMBERED TO IT-515B			
IT-515B U2	Leakage Reduction and Preventive Maintenance Program Test of Safety Injection Test Line (Refueling).....	8 C	10/20/95	10/20/95
IT-520A U1	Leakage Reduction and Preventive Maintenance Program Test of the Safety Injection System (Refueling).....	10 C	09/08/95	01/31/94

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IT-520B U1	Leakage Reduction and Preventive Maintenance Program Test of 1SI-896A&B, SI Pump Suction Valves (Refueling)	7 C	09/08/95	12/21/93
IT-525A U2	Leakage Reduction and Preventive Maintenance Program Test of the Safety Injection System (Refueling).....	11 C	09/08/95	02/07/94
IT-525B U2	Leakage Reduction and Preventive Maintenance Program Test of 2SI-896A&B, SI Pump Suction Valves (Refueling)	7 C	09/08/95	12/21/93
IT 530 U1	Leakage Reduction and Preventive Maintenance Program Test of the Residual Heat Removal System (Refueling).....	12 C	01/31/97	03/31/94
IT 530A U1	Leakage Reduction and Preventive Maintenance Program Test of the Train A HHSI and RHR Systems (Refueling)	2 C	01/31/97	03/06/95
IT 530B U1	Leakage Reduction and Preventive Maintenance Program Test of the Train B HHSI and RHR Systems (Refueling)	2 C	01/31/97	03/06/95
IT-531 U1	Containment Sump B Suction Line Leak Test (Refueling Shutdown)	5 R	03/29/96	01/20/95
IT 535 U2	Leakage Reduction and Preventive Maintenance Program Test of the Residual Heat Removal System (Refueling).....	12 C	01/31/97	04/11/94
IT 535A U2	Leakage Reduction and Preventive Maintenance Program Test of the Train A HHSI and RHR Systems (Refueling)	2 C	01/31/97	05/19/95
IT 535B U2	Leakage Reduction and Preventive Maintenance Program Test of the Train B HHSI and RHR Systems (Refueling)	3 C	01/31/97	05/19/95
IT-536 U2	Containment Sump B Suction Line Leak Test (Refueling Shutdown)	5 R	04/08/96	01/20/95
IT-550 U1	Leakage Reduction and Preventive Maintenance Program Test of Liquid Chemical and Volume Control System (Refueling)	7 R	10/21/96	10/21/96
IT-555 U2	Leakage Reduction and Preventive Maintenance Program Test of Liquid Chemical and Volume Control System (Refueling)	6 R	10/21/96	10/21/96

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IT-560	Leakage Reduction and Preventive Maintenance Program Test of Chemical and Volume Control System Holdup Tanks (Annual).....	3	04/01/93	04/01/93
IT-570	Leakage Reduction and Preventive Maintenance Program Test of Drain System.....	3 R	04/12/93	04/12/93
IT-580 U1	Leakage Reduction and Preventive Maintenance Program Test of Post-Accident Containment Atmospheric Sampling System (Refueling).....	11 C	09/08/95	12/16/94
IT-585 U2	Leakage Reduction and Preventive Maintenance Program Test of Post-Accident Containment Atmospheric Sampling System (Refueling).....	12 C	09/08/95	12/16/94
IT-590 U1	Leakage Reduction and Preventive Maintenance Program Post-Accident Containment Vent System (Refueling Shutdown)	4 R	09/08/95	12/01/94
IT-595 U2	Leakage Reduction and Preventive Maintenance Program Post-Accident Containment Vent System (Refueling Shutdown)	5 R	09/08/95	09/02/94
IT-600	Waste Gas System Gaseous Leak Checks (Annual).....	10 R	01/16/95	01/16/95
IT-605 U2	Radwaste Component Cooling Water Supply and Return Valves (Refueling).....	1 C	08/07/95	05/24/93
IT-700 U1	Reactor Coolant Gas Vent Valves (Cold Shutdown)	7	10/08/93	10/08/93
IT-705 U2	Reactor Coolant Gas Vent Valves (Cold Shutdown)	7	10/08/93	10/08/93
IT-730 U1	1CV-351, Boric Acid Transfer Pump to Charging Pump Suction Check Valve (Refueling Shutdown)	2 C	03/08/96	03/08/96
IT-735 U2	2CV-351, Boric Acid Transfer Pump to Charging Pump Suction Check Valve (Refueling Shutdown)	2 C	02/26/96	02/26/96
IT-740 U1	Main Steam Blowdown Valves (Refueling).....	6	09/04/92	08/04/94
IT-745 U2	Main Steam Blowdown Valves (Refueling).....	6	09/04/92	08/04/94
IT-750 U1	RHR Pump RWST Suction Check Valve Test (Refueling).....	2	12/05/94	12/05/94
IT-755 U2	Flow Test of Low Head Safety Injection Check Valves (Refueling)	3 C	12/05/94	12/05/94
IT-760 U1	Flow Test of High Head Safety Injection Check Valves (Refueling)	2	04/22/93	04/22/93

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IT-765 U2	Flow Test of High Head Safety Injection Check Valves (Refueling)	4	04/22/93	04/22/93
IT-770 U1	Spray System RWST Suction Valves Leakage Test (Refueling).....	5 C	01/15/96	01/20/95
IT-775 U2	Spray System RWST Suction Valves Leakage Test (Refueling).....	4 C	10/12/95	01/20/95
IT-1030	40-Month Pressure Test of the Spent Fuel Cooling System	1 R	06/12/95	03/24/95
IT-1070 U1	Forty Month Functional Test of Refueling Water Storage Tank Piping	5 R	05/30/95	07/16/93
IT-1075 U2	40-Month Functional Pressure Test of Refueling Water Storage Tank Piping	2 R	06/12/95	12/20/85
IT-1080 U1	40-Month Inservice Test of the Service Part 1 Water System in Containment.....	5 R	05/30/95	02/03/95
IT-1085 U2	40-Month Pressure Test of the Service Water Part 1 System in Containment	2 R	05/30/95	08/02/93
IT-1110 U1	40-Month Pressure Test of the Spray Part 2 Additive Tank.....	4 R	05/30/95	08/02/93
IT-1115 U2	40-Month Pressure Test of the Spray Part 2 Additive Tank.....	0 R	06/12/95	06/12/95
IT-1120 U1	40-Month Pressure Test of the Component Part 1 Cooling Water System in Containment.....	4 R	05/30/95	02/03/95
IT-1120 U1	40-Month Pressure Test of the CCW System Part 2 Outside Containment.....	1 R	05/30/95	08/02/93
IT-1125 U2	40-Month Pressure Test of the CCW System Part 1 in Containment	1 R	05/30/95	08/02/93
IT-1125 U2	40-Month Pressure Test of the CCW System Part 2 Outside Containment.....	0 R	05/19/95	05/19/95
IT-1142	(RENUMBERED TO IT-1132)			

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