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NMC
Committed to Nuclear Excellence

FEEL THE POWER
JOURNEY OF EXCELLENCE
POINT BEACH • U1R28

Point Beach Nuclear Plant
U1R28
OCC Interactive Turnover

Meeting Agenda
Sunday, April 11, 2004

Start Time: 0600 / 1800 **NSB 217**

Attendees:

Shift Outage Directors (SOD)	Rad Protection Manager (RPM)
Shift Outage Managers (SOM)	Chemistry Manager
Operations Coordinators (SOC)	IC General Supervisor
Maintenance Coordinators (MOC)	Electrical General Supervisor
Engineer Coordinators (EOM)	Mechanical General Supervisor
Major Project Coordinators (MPC)	Supply Chain Manager
	Installation Services General

Expected Duration: 30 Minutes

Agenda:

1. Safety Issue Discussion (SOD)
2. RP Status (RPM)
3. Plant Status / Operations Coordinator Turnover (SOC)
4. Shutdown Safety Assessment (SOC)
5. Maintenance Coordinator Turnover (MOC)
6. Engineering Coordinator Turnover (EOC)
7. Major Projects Coordinator Turnover (MPC)
8. Rapid Trending Assessment (NOS)
9. Action Item Review (SOM)
10. Critical Path (SOM)
11. Shift Goals (SOM)
12. ACEMAN Assessment (SOM)
13. Final Comments (SOD)

Items Included in Daily Package:

- Safety Snippet
- Outage Alara Report
- Daily Outage Status Report
- Shutdown Safety Assessment
- Workdown Curves
- Contractor Mobilization/Demobilization
- Medium/High Risk Activities
- Defined Critical Path Review
- Daily Outage OE

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 4
FOIA/PA-2004-0282

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Point Beach Nuclear Plant
U1R28 Refueling Outage

NMC Safety Topic for Week of April 11-17th

Theme for the week

This week's theme is **Housekeeping**. What does housekeeping have to do with safety? Lots! A clean and orderly workplace is essential to avoid falls, fires and many other kinds of accidents and injuries.

Daily Safety Snippets

Sunday

"Outage rubble can lead to trouble"

On April 21, 2001 the Point Beach declared an Unusual Event due to a small fire in the Unit 1 containment building during a refueling outage. The fire was in a bag of rags on the manway platform of the Alpha steam generator in Unit 1. The fire brigade was summoned and put out the fire within about 20 minutes.

Monday

"When you clean up hazards, you scrub out accidents"

Why is good housekeeping important? Just think about it. A clean workplace has less fire hazards, fewer safety hazards and just plain looks better. A clean workplace promotes pride in your job.

Tuesday

"Improper storing can be more than annoying"

What are those yellow cabinets for? Remember to properly store all flammable chemicals in fire cabinets. These should be in properly labeled containers and the storage capacity of the cabinet should never be exceeded.

Wednesday

"Avoid a fatal scene; Keep your job site clean"

A building contractor died when he was trapped in the burning basement of a house under construction. Another worker was using an oxyacetylene cutting torch to cut I-beams over the basement of the house. Stray sparks set fire to some sawdust and scrap wood used as packing material. The worker escaped and sounded the alarm, however the contractor jumped into the basement, in a fatal attempt to put the fire out.

Thursday

"Ashes to ashes, dust to dust; A clean workplace is a must"

At the PI a couple of years ago during a refueling outage on unit 1, welding sparks ignited a small fire in some rags in containment. An alert fire watch was able to put out the fire immediately but the fire was preventable with some very basic housekeeping practices.

Friday

"Don't be a slob; Clean up after each job"

After going through the snippets for this week makes you feel as if you have just gotten a lecture from your mother about keeping your room tidy, that's okay. Mom was right! Housekeeping is everyone's job and working together will not only ensure a clean workspace, it will also help to ensure a safe one.

Saturday

"Clean up and care will speed up repair"

It is a good practice to assign one coworker as the "housekeeping conscious" on each job. This person is responsible not to clean up after you but to remind everybody on the job to clean up after themselves. This helps to minimize the gradual buildup of clutter as the job progresses.

Point Beach Nuclear Plant Outage 1R28

DAY 6

Supporting Operational Excellence

Outage Radiation Performance

Path

Picture

Meets

Doesn't Meet Exceeds

Definition/Goal

This indicator measures cumulative dose radiation exposure and total number of personnel-contamination events (PCE's > 5000 cpm) during refueling outages. The dose indicator is measured in Rem and individual PCE events.

Meets:	<=75 Rem	Actual Cum. Dose:	22.252 REM
Exceeds:	<=71 Rem		

Meets: <= 18	Exceeds: <= 12	Actual PCE's: 4

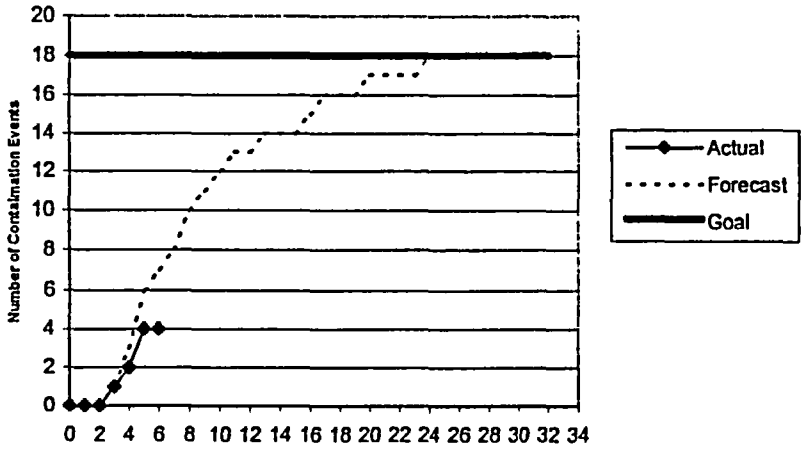
Responsible Manager/Owner

Stu Thomas

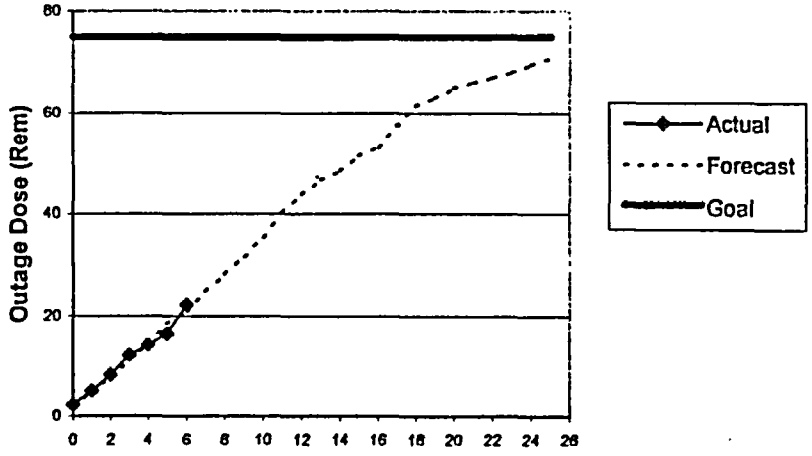
Analysis and Actions

Day 6 - April 9
Actual = 5.718
Cumulative = 22.252
Cumulative Forecast = 20.913

Personnel Contamination Events



Cummulative Dose Exposure



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Outage Status Report

Plant: Point Beach Unit 1 **Day:** Sunday **Today's Date / Time:** 4/11/04 / 0400

Outage Duration: Day 8 of 28

Safety Status

Industrial - Within the last 12 hours

OSHA Recordables 0 First Aid cases 0 Significant near misses 0

Total for this outage 0

Summary:

Radiological

Dose outage to date 22.252 Projected to date 20.913 Outage Goal ≤75 R

Difference +1.339 Number of PCEs 5

Summary:

Nuclear

Significant human performance errors and events in last 24 hours 0

Summary:

Plant Status

Mode: ☐ Hot Standby *(Mode 3)* ☐ Hot Shutdown *(Mode 4)* ☐ Cold Shutdown *(Mode 5)* ☒ Refueling Shutdown *(Mode 6)*

RCS: Temperature: 100 Pressure: Vented to Atmosphere RV Level: 70%

Time to Boil: ~~37~~ 43 Minutes

Shutdown Safety Assessment

Reactivity:	Green	**Core Cooling:**	Yellow	**Power Availability:**	Green
Containment:	Green	**Inventory:**	Yellow	**Spent Fuel Pool Cooling:**	N/A

Protected Equipment:

A S/G WR-IVL RECORDER NOT WORKING BOTH CHANNELS

Major Activities Completed in Last 24 Hours	Critical Path and Near Critical Path Activities (Next 24 Hours)	
Plan Approved for Recovery from Human Performance & Communications Timeout	Schedule:	
Limited Work Restart Authorized at 0200 on 4/11/04	Fuel Transfer System Checkout	SI-878D MOV Actuator Checkout
	Rx Head Detensioning	S/G Eddy Current Setup
	Incore Thimble Removal	IT-300A Leak Test MF Check Valve
	1B RCP Motor Moved to the Stand	
	Cavity Flood with Rx Head Lift	

Significant Outstanding Issues

Date	Issue	Due Date	Responsibility
4/03/04	Repair Blowdown Tank Leakage	4/15/04	Scott Manthei
4/04/04	1P2A Charging Pump Troubleshooting	4/12/04	Mike Schug
4/08/04	Incorporate Lessons Learned from 1ST Reduced Inventory Orange Path	4/18/04	Dave Dyzak
4/08/04	B RCP Motor Oil Sludge	4/12/04	Jim McGough
4/11/04	Blowdown Evaporator Sodium Concern	4/11/04	WCC
4/11/04	B RCP Motor Stand Seismic Walkdowns - Procedure Changes Required	4/11/04	Joe McNamara

Upcoming Major Milestones

	Scheduled		*Actual*			*Scheduled*		*Actual*	
	Date	Time	Date	Time		Date	Time	Date	Time
Cooldown <200°	4/03/04	2100	4/03/04	2230	Heatup >200°	4/25/04	0900		
Head Lift	4/09/04	0900			Initial	4/28/04	1100		
Refueled	4/14/04	0300			On-Line	4/30/04	0100		

Point Beach Nuclear Plant

PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

OUTAGE SAFETY ASSESSMENT

UNIT: 1 DATE: April 11, 2004 TIME: 0230

KEY SAFETY FUNCTIONS:

REACTIVITY:	GREEN
CORE COOLING:	YELLOW
POWER AVAILABLE:	GREEN
INVENTORY:	YELLOW
CONTAINMENT:	GREEN
SFP COOLING:	NA

PROTECTED EQUIPMENT:

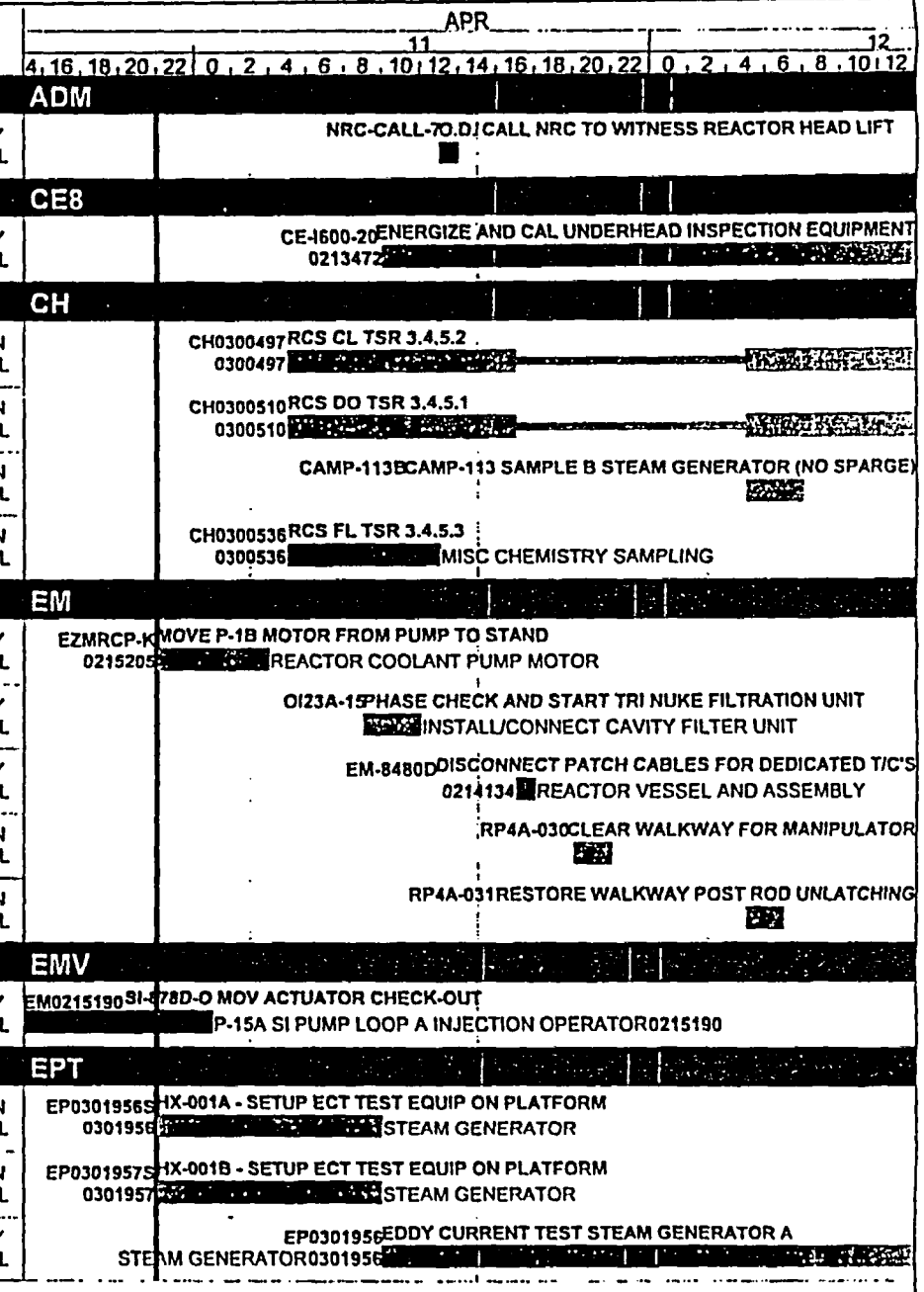
COMMENTS:

- Fire Protection Condition III: Crediting existing fire rounds as fire prevention contingency
  RCS Time to Boil is 43 minutes
  RCS is at 70% Reactor Vessel Level
  Hot Leg Vent Path is the Pressurizer Manway

BDF 1843

PRIORITY WORKING SCHEDULE

U	ID	RESP	WO ST	EQID	DESCRIPTION	RD	ES	EF	RISK
ADMINISTRATIVE SERVICES									
1	NRC-CALL-7	ADM		MILESTONE	O.D. CALL NRC TO WITNESS REACTOR	1	11APR04 13:00	11APR04 13:59	DR-Y ML-Y ORT3-Y R-L
CONSTRUCTION ENG - L. GAUTHIER									
1	CE-I600-20	CE8	76	R-1	ENERGIZE AND CAL UNDERHEAD	36	11APR04 10:00	12APR04 21:59	DR-Y ML-Y ORT3-Y R-L
CHEMISTRY									
2	CH0300497	CH	77	CHEM-SAMPL	RCS CL TSR 3.4.5.2	72	11APR04 05:00*	16APR04 16:59	DR-N ML-N ORT3-N R-L
2	CH0300510 Released	CH	77	CHEM-SAMPL	RCS DO TSR 3.4.5.1	72	11APR04 05:00*	16APR04 16:59	DR-N ML-N ORT3-N R-L
1	CAMP-113B	CH		HX-001B	CAMP-113 SAMPLE B STEAM GENERATOR	3	12APR04 05:00	12APR04 07:59	DR-N ML-N ORT3-N R-L
2	CH0300536	CH	77	CHEM-SAMPL	RCS FL TSR 3.4.5.3	8	11APR04 05:00*	11APR04 12:59	DR-N ML-N ORT3-N R-L
ELECTRICAL MAINTENANCE									
1	EZMRCP-K	EM	76	P-001B-M	MOVE P-1B MOTOR FROM PUMP TO STAND	6	10APR04 22:00	11APR04 03:59	DR-Y ML-Y ORT3-N R-L
1	OI23A-15	EM		OI-23A	PHASE CHECK AND START TRI NUKE	3	11APR04 09:00	11APR04 11:59	DR-Y ML-Y ORT3-N R-L
1	EM-8480D	EM	76	R-1	DISCONNECT PATCH CABLES FOR	1	11APR04 17:00	11APR04 17:59	DR-Y ML-Y ORT3-N R-L
1	RP4A-030	EM		O-RP-004A	CLEAR WALKWAY FOR MANIPULATOR	2	11APR04 20:00	11APR04 21:59	DR-N ML-N ORT3-N R-L
1	RP4A-031	EM		O-RP-004A	RESTORE WALKWAY POST ROD	2	12APR04 05:00	12APR04 06:59	DR-N ML-N ORT3-N R-L
ELECTRICAL VALVE TEAM -									
1	EM0215190 Released	EMV	76	SI-00878D-	SI-878D-O MOV ACTUATOR	3	09APR04 00:00A	11APR04 00:59	DR-Y ML-Y ORT3-N R-L
ENGINEERING PROGRAMS - TEST SERVICES									
1	EP0301956S Released	EPT	76	HX-001A	HX-001A - SETUP ECT TEST EQUIP ON	12	10APR04 22:00	11APR04 09:59	DR-N ML-N ORT3-Y R-L
1	EP0301957S Released	EPT	76	HX-001B	HX-001B - SETUP ECT TEST EQUIP ON	12	10APR04 22:00	11APR04 09:59	DR-N ML-N ORT3-Y R-L
1	EP0301956	EPT	76	HX-001A	EDDY CURRENT TEST STEAM GENERATOR A	133	11APR04 10:00	16APR04 22:59	DR-N ML-Y ORT3-N R-L



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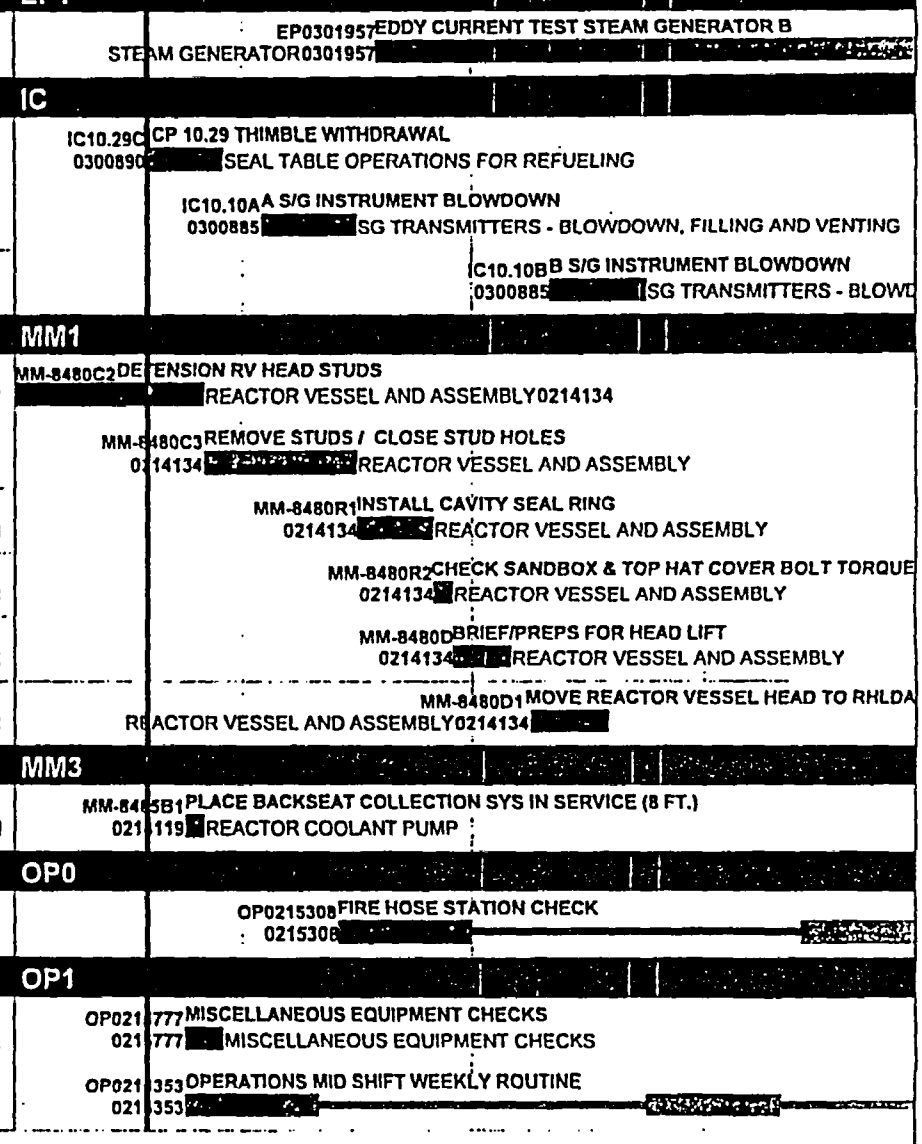
PRIORITY WORKING SCHEDULE

U	ID	RESP	WO ST	EQID	DESCRIPTION	RD	ES	EF	RISK
ENGINEERING PROGRAMS - TEST SERVICES									
1	EP0301957	EPT	76	HX-001B	EDDY CURRENT TEST STEAM GENERATOR B	133	11APR04 10:00	16APR04 22:59	DR-N ML-Y ORT3-N R-L
I&C MAINTENANCE									
1	IC10.29C Released	IC	76	ICP-10.029	ICP 10.29 THIMBLE WITHDRAWAL	4	10APR04 22:00*	11APR04 01:59	DR-N ML-N ORT3-Y R-L
1	IC10.10A Released	IC	76	ICP-10.010	A S/G INSTRUMENT BLOWDOWN	5	11APR04 04:00	11APR04 08:59	DR-Y ML-Y ORT3-N R-L
1	IC10.10B Released	IC	76	ICP-10.010	B S/G INSTRUMENT BLOWDOWN	5	11APR04 19:00	11APR04 23:59	DR-Y ML-Y ORT3-N R-L
MECHANICAL MAINTENANCE MM1 RIDINGS/ BRITTINGHAM									
1	MM-8480C2 Released	MM1	76	R-1	DETENSION RV HEAD STUDS	3	09APR04 03:00A	11APR04 00:59	DR-Y ML-Y ORT3-Y R-H
1	MM-8480C3 Released	MM1	76	R-1	REMOVE STUDS / CLOSE STUD HOLES	8	11APR04 01:00	11APR04 08:59	DR-Y ML-Y ORT3-Y R-H
1	MM-8480R1 Released	MM1	76	R-1	INSTALL CAVITY SEAL RING	4	11APR04 09:00	11APR04 12:59	DR-Y ML-Y ORT3-Y R-H
1	MM-8480R2 Released	MM1	76	R-1	CHECK SANDBOX & TOP HAT COVER BOLT	1	11APR04 13:00	11APR04 13:59	DR-Y ML-Y ORT3-Y R-H
1	MM-8480D	MM1	76	R-1	BRIEF/PREPS FOR HEAD LIFT	3	11APR04 14:00	11APR04 16:59	DR-Y ML-Y ORT3-Y R-H
1	MM-8480D1	MM1	76	R-1	MOVE REACTOR VESSEL HEAD TO	4	11APR04 18:00	11APR04 21:59	DR-N ML-N ORT3-Y R-H
MECHANICAL MAINTENANCE- RIDINGS/BRITT (RCP "B")									
1	MM-8485B1 Released	MM3	76	P-001B	PLACE BACKSEAT COLLECTION SYS IN	1	11APR04 00:00	11APR04 00:59	DR-Y ML-Y ORT3-Y R-M
OPERATIONS RELIEFS									
0	OP0215308	OP0	77	O-PC-073.2	FIRE HOSE STATION CHECK	16	11APR04 08:00*	13APR04 09:59	DR-N ML-N ORT3-N R-L
OPERATIONS MIDSHIFT									
1	OP0215777	OP1	76	TS-PAM-001	MISCELLANEOUS EQUIPMENT CHECKS	2	11APR04 00:00*	11APR04 01:59	DR-N ML-N ORT3-N R-L
0	OP0215353	OP1	76	O-PC-MIDS	OPERATIONS MID SHIFT WEEKLY	49	11APR04 00:00*	17APR04 06:59	DR-Y ML-Y ORT3-N R-L



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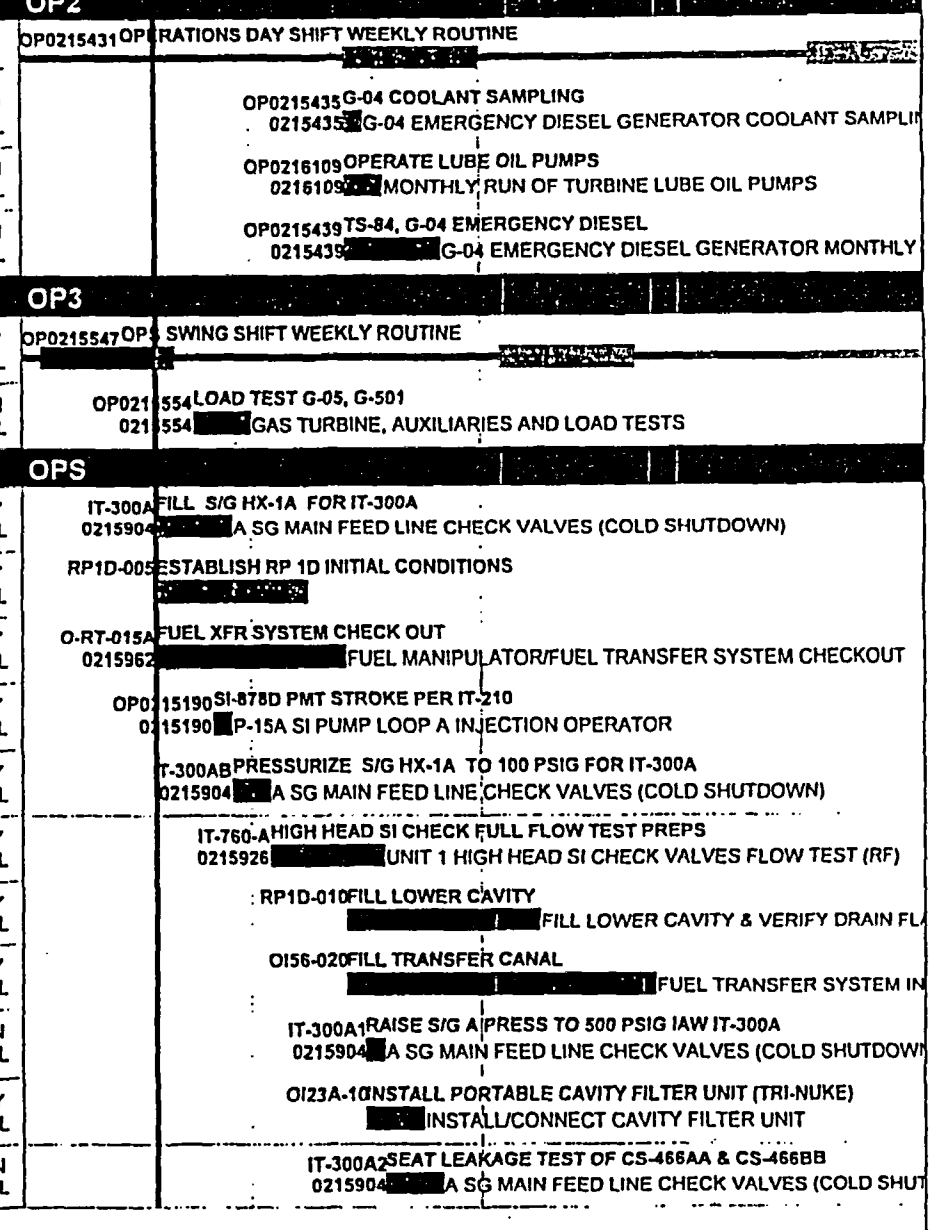
PRIORITY WORKING SCHEDULE

U	ID	RESP	WO ST	EQID	DESCRIPTION	RD	ES	EF	RISK
OPERATIONS DAYSHIFT									
0	OP0215431	OP2	76	O-PC-DAYS	OPERATIONS DAY SHIFT WEEKLY	17	06APR04 08:00A	13APR04 10:59	DR-Y ML-Y ORT3-Y R-L
0	OP0215435	OP2	76	O-PC-012.9	G-04 COOLANT SAMPLING	1	11APR04 08:00*	11APR04 08:59	DR-N ML-N ORT3-N R-L
2	OP0216109	OP2	76	O-PC-023.4	OPERATE LUBE OIL PUMPS	2	11APR04 08:00*	11APR04 09:59	DR-N ML-N ORT3-N R-L
0	OP0215439	OP2	76	O-TS-084	TS-84, G-04 EMERGENCY DIESEL	5	11APR04 08:00*	11APR04 12:59	DR-N ML-N ORT3-N R-L
OPERATIONS SWINGSHIFT									
0	OP0215547	OP3	76	O-PC-SWING	OPS SWING SHIFT WEEKLY ROUTINE	35	07APR04 16:00A	15APR04 21:59	DR-Y ML-Y ORT3-Y R-L
0	OP0215554	OP3	76	O-PC-029	LOAD TEST G-05, G-501	3	11APR04 00:00*	11APR04 02:59	DR-N ML-N ORT3-N R-L
OPERATIONS									
1	IT-300A Released	OPS	77	O-IT-0300A	FILL S/G HX-1A FOR IT-300A	4	10APR04 22:00	11APR04 01:59	DR-N ML-Y ORT3-N R-L
2	RP1D-005	OPS		O-RP-001D	ESTABLISH RP 1D INITIAL CONDITIONS	8	10APR04 22:00	11APR04 05:59	DR-Y ML-Y ORT3-N R-L
1	O-RT-015A	OPS	77	O-RT-015	FUEL XFR SYSTEM CHECK OUT	10	10APR04 22:00	11APR04 07:59	DR-Y ML-Y ORT3-N R-L
1	OP0215190 Released	OPS	76	SI-00878D-	SI-878D PMT STROKE PER IT-210	1	11APR04 01:00	11APR04 01:59	DR-Y ML-Y ORT3-N R-L
1	IT-300AB Released	OPS	77	O-IT-0300A	PRESSURIZE S/G HX-1A TO 100 PSIG	2	11APR04 02:00	11APR04 03:59	DR-N ML-Y ORT3-N R-L
1	IT-760-A	OPS	77	O-IT-0760	HIGH HEAD SI CHECK FULL FLOW TEST	6	11APR04 04:00	11APR04 09:59	DR-Y ML-Y ORT3-N R-L
1	RP1D-010	OPS		O-RP-001D	FILL LOWER CAVITY	10	11APR04 08:00	11APR04 17:59	DR-Y ML-Y ORT3-N R-L
1	OI56-020	OPS		OI-56	FILL TRANSFER CANAL	16	11APR04 08:00	11APR04 23:59	DR-Y ML-Y ORT3-N R-L
1	IT-300A1 Released	OPS	77	O-IT-0300A	RAISE S/G A PRESS TO 500 PSIG IAW IT-300A	1	11APR04 09:00	11APR04 09:59	DR-N ML-N ORT3-N R-L
1	OI23A-10	OPS		OI-23A	INSTALL PORTABLE CAVITY FILTER UNIT	3	11APR04 09:00	11APR04 11:59	DR-N ML-Y ORT3-N R-L
1	IT-300A2 Released	OPS	77	O-IT-0300A	SEAT LEAKAGE TEST OF CS-466AA &	3	11APR04 10:00	11APR04 12:59	DR-N ML-N ORT3-N R-L



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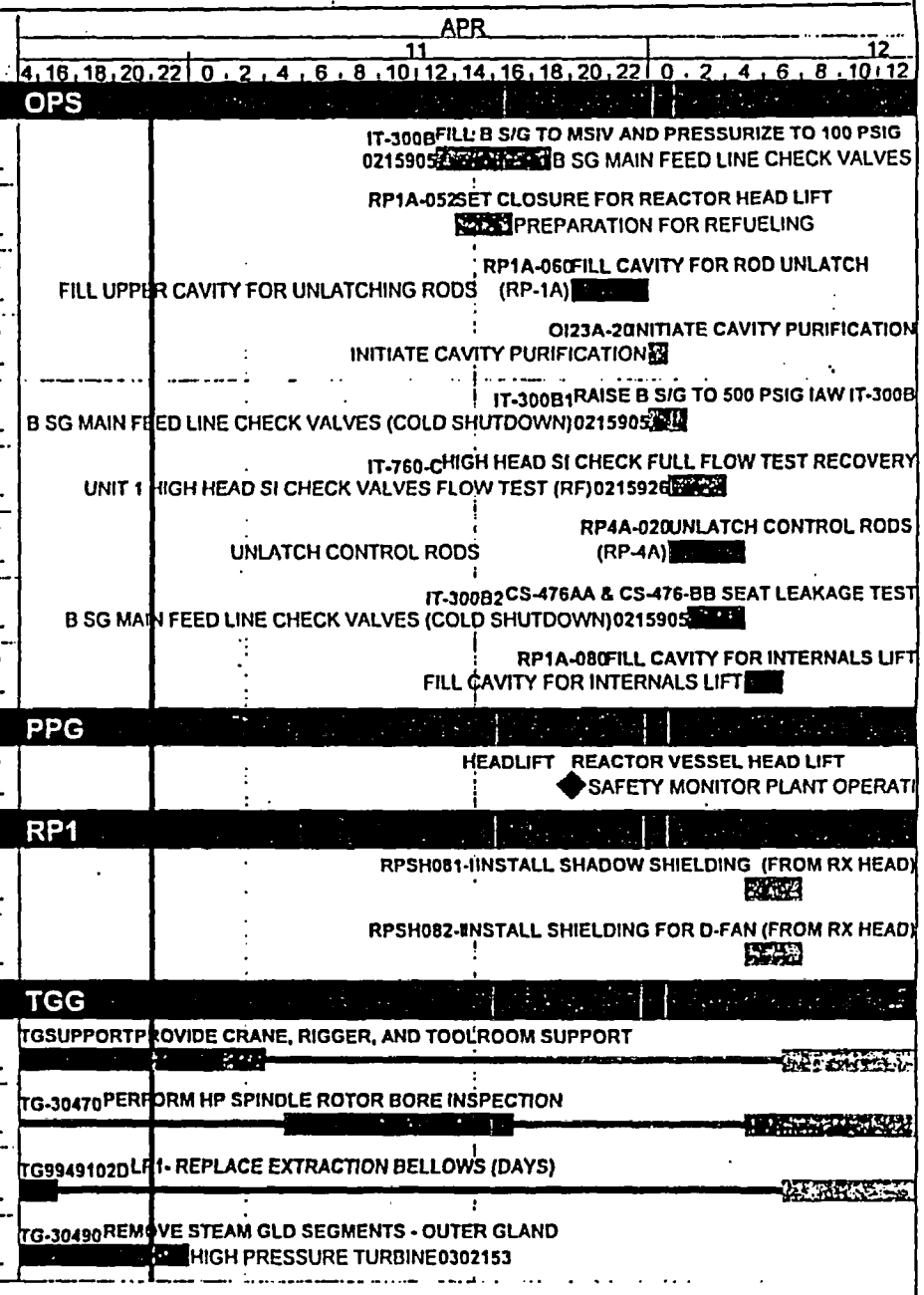
PRIORITY WORKING SCHEDULE

U	ID	RESP	WO ST	EQID	DESCRIPTION	RD	ES	EF	RISK
OPERATIONS									
1	IT-300B	OPS	77	O-IT-0300B	FILL B S/G TO MSIV AND PRESSURIZE TO	6	11APR04 13:00	11APR04 18:59	DR-N ML-N ORT3-N R-L
1	RP1A-052	OPS		O-RP-001A	SET CLOSURE FOR REACTOR HEAD LIFT	3	11APR04 14:00	11APR04 16:59	DR-Y ML-Y ORT3-N R-L
1	RP1A-060	OPS		O-RP-001A	FILL CAVITY FOR ROD UNLATCH	4	11APR04 20:00	11APR04 23:59	DR-N ML-N ORT3-N R-L
1	OI23A-20	OPS		OI-23A	INITIATE CAVITY PURIFICATION	1	12APR04 00:00	12APR04 00:59	DR-N ML-N ORT3-N R-L
1	IT-300B1	OPS	77	O-IT-0300B	RAISE B S/G TO 500 PSIG IAW IT-300B	2	12APR04 00:00	12APR04 01:59	DR-N ML-N ORT3-N R-L
1	IT-760-C	OPS	77	O-IT-0760	HIGH HEAD SI CHECK FULL FLOW TEST	3	12APR04 01:00	12APR04 03:59	DR-N ML-N ORT3-N R-L
1	RP4A-020	OPS		O-RP-004A	UNLATCH CONTROL RODS	4	12APR04 01:00	12APR04 04:59	DR-N ML-N ORT3-N R-L
1	IT-300B2	OPS	77	O-IT-0300B	CS-476AA & CS-476-BB SEAT LEAKAGE TEST	3	12APR04 02:00	12APR04 04:59	DR-N ML-N ORT3-N R-L
1	RP1A-080	OPS		O-RP-001A	FILL CAVITY FOR INTERNALS LIFT	2	12APR04 05:00	12APR04 06:59	DR-N ML-N ORT3-N R-L
PRODUCTION PLANNING									
1	HEADLIFT	PPG		MILESTONE	REACTOR VESSEL HEAD LIFT	0	11APR04 20:00		DR-N ML-N ORT3-N R-L
LAUNDRY DECON - T. ENGLEMAN									
1	RPSH081-I	RP1		PACKAGE 81	INSTALL SHADOW SHIELDING (FROM RX	3	12APR04 05:00	12APR04 07:59	DR-Y ML-Y ORT3-Y R-L
1	RPSH082-I	RP1		PACKAGE 82	INSTALL SHIELDING FOR D-FAN (FROM RX	3	12APR04 05:00	12APR04 07:59	DR-Y ML-Y ORT3-Y R-L
TURBINE GENERATOR GROUP									
1	TGSUPPORT Released	TGG		TG-01-T	PROVIDE CRANE, RIGGER, AND	279	05APR04 07:00A	27APR04 20:59	DR-Y ML-Y ORT3-Y R-L
1	TG-30470 Released	TGG	76	TG-01-T	PERFORM HP SPINDLE ROTOR BORE	52	08APR04 07:00A	15APR04 08:59	DR-Y ML-Y ORT3-Y R-L
1	TG9949102D Released	TGG	76	TG-01-T1	LP1- REPLACE EXTRACTION BELLOWS	79	08APR04 15:00A	20APR04 15:59	DR-Y ML-Y ORT3-Y R-L
1	TG-30490 Released	TGG	76	TG-01-T	REMOVE STEAM GLD SEGMENTS - OUTER	2	08APR04 18:00A	10APR04 23:59	DR-Y ML-Y ORT3-Y R-L



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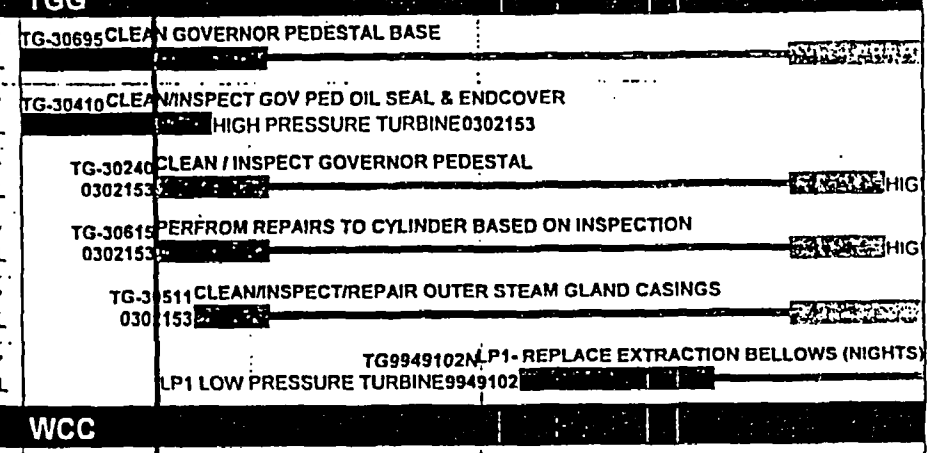
PRIORITY WORKING SCHEDULE

U	ID	RESP	WO ST	EQID	DESCRIPTION	RD	ES	EF	RISK
TURBINE GENERATOR GROUP									
1	TG-30695 Released	TGG	76	TG-01-T	CLEAN GOVERNOR PEDESTAL BASE	16	08APR04 19:00A	12APR04 17:59	DR-Y ML-Y ORT3-Y R-L
1	TG-30410 Released	TGG	76	TG-01-T	CLEAN/INSPECT GOV PED OIL SEAL &	3	09APR04 12:00A	11APR04 00:59	DR-Y ML-Y ORT3-Y R-L
1	TG-30240 Released	TGG	76	TG-01-T	CLEAN / INSPECT GOVERNOR PEDESTAL.	10	10APR04 22:00*	12APR04 11:59	DR-Y ML-Y ORT3-Y R-L
1	TG-30615 Released	TGG	76	TG-01-T	PERFROM REPAIRS TO CYLINDER BASED ON	10	10APR04 22:00	12APR04 11:59	DR-Y ML-Y ORT3-Y R-L
1	TG-30511 Released	TGG	76	TG-01-T	CLEAN/INSPECT/REPAIR OUTER STEAM GLAND	10	11APR04 00:00	12APR04 13:59	DR-Y ML-Y ORT3-Y R-L
1	TG9949102N Released	TGG	76	TG-01-T1	LP1- REPLACE EXTRACTION BELLOWS	85	11APR04 17:00	20APR04 21:59	DR-Y ML-Y ORT3-Y R-L
WORK CONTROL CENTER									
1	T-3426-H Released	WCC		P-001B	1 RC P-1B RMP 9002-8/19 MM REV0-1	2	10APR04 22:00	10APR04 23:59	DR-Y ML-Y ORT3-Y R-L
1	T-9697-R	WCC		HX-001B	1 MS HX-1B WLU MMV REV0-1	2	10APR04 22:00	10APR04 23:59	DR-Y ML-Y ORT3-N R-L
1	T-8341-R Released	WCC		SI-00878D	1 SI SI-878D EM REV0-1	2	11APR04 02:00	11APR04 03:59	DR-Y ML-Y ORT3-N R-L



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Sunday, April 11, 2003
(for work Tuesday, April 13, 2004)

OE subject:
EAR PAR 00-012, Loss of Containment Integrity Because of Removal of Steam Generator Hand Hole Covers at Koeberg Unit 2

Purpose:
Provide a reminder of the need to coordinate work affecting containment integrity while fuel is in the core.

Why we chose this OE for today:
Steam Generator Handhole covers are scheduled to be removed on Tuesday, April 13th, 2004.

Discussion:
On September 21,1999, during the Koeberg Unit 2 refueling outage, maintenance personnel were scheduled to remove the handhole covers from steam generator 3 to prepare for sludge lancing. During the morning shift the system "master permit to work" for the removal of the handhole covers was issued prematurely as the temporary pipe sealing device (PIG) was not installed as an isolation. The permit highlighted that work on the "Hand-holes" was not allowed at this time. The Maintenance team removed the handhole covers of steam generator 3, and after discussions with the outage control center, it was realized that containment integrity was breached for about 45 minutes with fuel still in the core. The plant was returned to a safe configuration when the problem was discovered. The maintenance responsible person (MRP) assumed that the permit was ready for him to remove the handhole covers from steam generator 3. The outage control center responsible person assumed that the MRP was part of the team who were progressing with the installation and inflation of the PIG and allowed him to take out the permit. Neither the drawings nor the cautionary notice attached to the master permit were checked or discussed by the two responsible persons. The communication and prejob briefings were not sufficient. This event is Significant to the Plant because containment integrity was inadvertently breached for about 45 minutes while fuel was in the core.

Questions:
What is providing the containment boundary when the handhole covers are removed?