

OUTAGE TURNOVER LOG

'95 JUL 27 A9:52

SUPV. OR COORD.	SHIFT	OFFICE OF SECRETARY DOCKETING & SERVICE BRANCH	4/6/90
Warren	Day	CONTROL BUILDING/OUTSIDE AREAS	Ag-1

PRIORITY

REMARKS

Diesel Gen 1A - Worked on Air receiver  
+ cleared out residue inside.

Ran Diesel twice, 80 second + 70 second run.  
Clearance being hung + then ACP installation  
Will follow MWO 150001729

Chasing down WRT's 6775 + 6776 on BFIU's  
Loop 1 + 4 to have converted to an MWO. WRT's  
were at Work Planning @ 2:30 PM.

ARIU's Loop 1 + 4 - Clearances 15425 + 15552 are  
being worked by Nick Lassiter for cable  
terms. May finish 15425 by end of shift +  
15552 by 12:00 Noon 4/7/90. Once Nick Lassiter  
finishes Mike Godfrey can sign off clearance.

NUCLEAR REGULATORY COMMISSION

Docket No. 50-424/425-OLA-3 EXHIBIT NO. Int 81  
 In the matter of Georgia Power Co. et al., Vogtle Units 1 & 2  
 Staff  Applicant  Intervenor  Other  
 Identified  Received  Rejected Reporter CR  
 Date 05-17-95 Witness stipulated

92 PROJECT  
054859

950517  
9508170282  
PDR ADDCK 05000424  
PDR  
G

**OUTAGE TURNOVER LOG**

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	4/4/90
Warren	Day	REMARKS	Pg-2
PRIORITY			
	5) Insulators working in North Valve room on 'A' level. Also fuelling cans, etc. for hangers installed/changed during outage.		
	6) New schedule for D.G. 1A being developed to support start-up. Also covers 'B' ESTAS & 'B' Diesel. Trying to schedule 'B' ESTAS for 5:00 P.M., 'B' Train MW'd 19001728, 'A' Train 19001729.		
	7) MW'd 18800923 should work tonight on AFW Terry Turbine Pump (1-1302-P4-C01-K01). Inboard Bearing leak-off excessive when pump is running. Should go to B. Mullinax tonight. (Made 3 restraint.)		
	8) MW'd 19001626 on Hyp. Cooling Tower fence closure at ramp on North side.		

Rec'd 4/4/90  
 @ 5:25 P.M.

VOOTLE UNIT 1 SECOND REFUELING OUTAGE						
DIESEL TESTING						
APR 3	APR 4	APR 5	APR 6	APR 7	APR 8	APR 9
TUE	WED	THU	FRI	SAT	SUN	MON
	D=2 824030524 2403-04001 D/O 1A INSTALL TEMP MOD					
	D=4 824030528 2403-04001 SET-UP FOR TEMP PROCEDURE					
	D=4 824030330 2403-04001 D/O 1A TAKE STANDBY DATA					
	D=4 824030532 2403-04001 D/O 1A PERF TEMP PROC					
	D=1 824030512 2403-04001 HANO CLR/ D/O 1A DCP 90-133					
	D=4 824030514 2403-04001 D/O TRN B IMPLEMENT DCP 96-133					
	D=1 824030516 2403-04001 RMY CLR/ D/O 1A DCP 90-133					
	D=4 824030518 2403-04001 D/O TRN A PERF F.T & S.T. 14960					
	D=4 824030520 2403-04001 1A D/O OPERABLE					
	D=1 8901254 1804 REV CLR 1-90-15754 18A03 MET SERV					
	D=4 824030500 2403-04002 PERFORM B TRN D/O ESFR8					
	D=1 824030502 2403-04002 HANO CLR/ D/O 1B DCP 90-133					
	D=4 824030504 2403-04002 D/O TRN B IMPLEMENT/ DCP 90-133					
	D=1 824030506 2403-04002 RMY CLR/ D/O 1B DCP 90-133					
	D=4 824030508 2403-04002 D/O TRN B PERF F.T & S.T. 14960					
	D=4 824030510 2403-04002 1B D/O OPERABLE					
	D=47 81000855 PERF FUNCTIONAL TESTS REQUIRED PRIOR TO MODE 4					
	D=5 100170700 1907-V3104 INVESTIGATE/REPAIR INVERTER TROUBLE					
	D=12 824030542 2403-CLOSE REMAINING HANOS 00 D/O B-TRAIN					
	D=2 100046000 1907 - REMOVE TEMP MOD FROM 1HBF / 1HBJ					
	D=4 824030540 2403-REPL BREAKER T-N00 IN 1801-10					
	D=4 80000400 MODE 4 ENTRY (=STARTUP*)					
	D=4 80000200 MODE 8 ENTRY (=STARTUP*)					

8  
D/O R  
TESTING

7  
D/O R  
TESTING

9  
D/O SUPPORT  
WORK

D/G TESTING

VOOTLE UNIT 1 SECOND REFUELING OUTAGE						
DIESEL TESTING						
TUE	WED	THU	FRI	SAT	SUN	TUE
APR 3	APR 4	APR 5	APR 6	APR 7	APR 8	APR 9

Redd 4/10/80 @ 6:50

VOGTLE UNIT 1 SECOND REFUELING OUTAGE

DIESEL TESTING

APR 1	APR 2	APR 3	APR 4	APR 5	APR 6	APR 7	APR 8	APR 9
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON

112  
DIESEL GEN  
TESTING

624030634 2403-04001 D/O 1A NRC APPROVAL FOR DCP  
 D=1 599016264 1804 REM CLR 1-90-15254 18A03 RET SERV  
 D=2 100048000 1807 - REMOVE TEMP MOD FROM INBF / INBJ  
 D=4 624030600 2403-04002 PERFORM B TRN D/O ESFRS  
 D=1 624030602 2403-04002 HAND CLR/ D/O 1B DCP 90-133  
 624030536 2403-04001 D/O 1A NRC APRV FOR TEMP MOD  
 D=4 624030604 2403-04002 D/O TRN B IMPLEMENT DCP 90-133  
 D=1 624030606 2403-04002 RMY CLR/ D/O 1B DCP 90-133  
 D=4 624030608 2403-04002 D/O TRN B PERF F.T & S.T. 14980  
 624030610 2403-04002 1B D/O OPERABLE  
 D=1 624030612 2403-04001 HAND CLR/ D/O 1A DCP 90-133  
 D=4 624030614 2403-04001 D/O TRN A IMPLEMENT DCP 90-133  
 D=1 624030616 2403-04001 RMY CLR/ D/O 1A DCP 90-133  
 D=4 624030618 2403-04001 D/O TRN A PERF F.T & S.T. 14980  
 624030620 2403-04001 1A D/O OPERABLE  
 D=2 991000699 PERF FUNCTIONAL TESTS REQUIRED PRIOR TO MODE 4  
 D=1 624030622 2403-04001 HAND CLR/D/O 1A/ FOR TEMP MOD  
 D=2 624030624 2403-04001 D/O 1A INSTALL TEMP MOD  
 D=1 624030626 2403-04001 RMY CLR/D/O 1A/ AFTER TEMP MOD  
 D=4 624030628 2403-04001 SET-UP FOR TEMP PROCEDURE  
 D=2 624030630 2403-04001 D/O 1A TAKE STANDBY DATA  
 90000400 MODE 4 ENTRY (=STARTUP=)  
 D=4 624030632 2403-04001 D/O 1A PERF TEMP PROC/14980  
 90000200 MODE 2 ENTRY (=STARTUP=)

D/G TESTING

DATA  
DATE

SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON
APR 1	APR 2	APR 3	APR 4	APR 5	APR 6	APR 7	APR 8	APR 9

DIESEL TESTING

VOGTLE UNIT 1 SECOND REFUELING OUTAGE



**OUTAGE TURNOVER LOG**

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	DATE
McCary	Day	REMARKS	3/21/90 Pg - 1
PRIORITY			
	<p>D.G. - Jacket water Temp switches recd. @ 11:00 A.M.,                      Calibrated by 5:00 P.M.</p>		
	<p>- NRC wants another IA Run with the old                      switches installed. Run will be Filmed &amp;                      will start @ 5:30 P.M.</p>		
	<p>- New switches to be installed with Kocher's                      approval</p>		
	<p>- start bubble test and pick up the schedule                      From there.</p>		
	<p>B-Train outage to start when IA Diesel is                      declared operable &amp; Temp Mod for 1BAC3 is                      in place.</p>		

OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3170190
Smyer	Nites		

PRIORITY REMARKS

Diesel Gen 1A - Problems with Jacket Water Temp. switch - After fixed will be starting "Under Voltage" test & Flow chart for sequence of events.

2-7-91 - "C" Maint. still working on Lube system. It had Asbestos in the oil.

# Mode 4 Restraints

	Control 19000207 - Bldg. Clean	18902169 - <del>AFW</del> Snubbers 2I
S-K120	19000480 - Temp Mod INBF - CM	9093 - HV3508 9E
D-2116		
mt.	19000542 - HV8882 2S	18905284 - Snubbers 2A <small>DCP 89-44</small>
<u>sub</u>	0580 - PT0947 - 6S	2593 - Purge 7A
<u>front</u>	0716 - RHR Interlock 3A	2578 - " 7A
<u>Bldg</u>	0749 - INAD1/INAD4 1A	5278 - CUCS Snubbers 2I <small>DCP 84-49</small>
<u>front</u>	0930 - 1701 Fittings 3A	<del>5335 - HV15216C</del>
<u>LB</u>	0954 - Accum #3 2A	5338 - HV15216C 9A
<u>LB</u>	1112 - ABC5 1A	5655 - A RHR Rm. Cooler 2F
K 24115	1132 - ABC4 LF 1A CB B76	<del>5655 - Rm. Cooler</del>
123	1220 - Floor plug 2A	5823 - RCS Snubbers 7P
	1268 - RVLIS 3A	6190 - Floor plug 8S <small>CB B</small>
	1348 - ESF Rm. Cooler 3D	19001433 - D/G - 1A 7P
	1474 2D	1339 - D/G - 1A 7P
	1485 - RHR - 13" strut	1237 - F.P.C.I 2A
	1512 - D/G "A" Cow 7P	1200 - M. Str. Snubbers 2A
	1540 - 1208 5B 3E	0512 - <small>DCP 89-45</small> " 8M
	1880 - 8172 - Breath Air 2A	0521 - Snubber AFW 2A <small>DCP 89-45</small>
	1890 5339 - HV15216D 9A RB	1035 - HV8220 1A
	1880 8549 - HV8804A 2A	1358 - Pen 72 A 2A
	18900437 - ABC5 6S CB B76	8804 - "A" Cow 4A
	18903588 - HV1669A 1A NSCW 1B	0977 - SE (D) HV9487 1F
	4438 - HV1669B 1A NSCW 1B	1546 - Emeg Sump 2A
	4434 - HV1669A 1A NSCW 1B	
	4441 - HV1215 6E CB 325	

# Diesel Gen IA MWO list

## Awaiting FWC/Resolution

19001433	IPSL 4886	7A
19001576	2A	1A
19001136	Thermal overload	2A
19001629	2A	3A
18906464	Fuse-G.I (LK)	4E
18902779	Final Review	1F
19001512	Torque seal broken <sup>MER</sup> Kirok	1F

## Awaiting FT/signoff by ops

19001339	Press Switch C.R,
18900394	Lube Oil Cooler C.R,
19001273	Air Compressor C.R,
19001406	Alarms C.R,
18903280	Lo Lube Oil Press, Trip P.K,
19001294	Hot Retorque P.K,
19001380	Left Fuel Rack C.R,



### OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	
Warren	Day		3/30/90 Pg-1
PRIORITY		REMARKS	
		<p>Diesel Gen 'A' - I-C substituting the lube oil Pressure switch with another one. Will have to calibrate, etc. as an 'B' Diesel then try another series of tests before declaring operability. (Depending on NRC)</p> <p>Switch calibrated &amp; installed @ 11:15 A.M.</p> <p>Waiting for Mgmt. decision / NRC approval for next step. Decision made to replace 2 Turbo lube oil switches. MIVCS in planning @ 2:15 P.M.</p>	
		<p>INBOS and INBE work is complete and clearance signed off.</p>	
		<p>IARC-5 SWGR is still working &amp; will try to get by shift's end. IARC-5 Complete @ 1:45 AM</p>	
		<p>Maintenance still working TPCW Pump #1 on DCP 90-115. David Seckinger working.</p>	

OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT		3/30/90
W. Warren	Day	CONTROL BUILDING/OUTSIDE AREAS	A-2
PRIORITY	REMARKS		
	started 'B' Train AFB Motor Driven Pump @ 6:04 A.M.		
	Core Group continuing work re Footing Security		
	IF ACP on 1e. 2 Control Bldg, MUC 19000256		
	ACP - 90-326		
	IF 'A' Diesel is declared operable tonight		
	a early A.M. we should be ready to get into		
	NCRW Tower IF. Need security for - local case		
	entry of Carpenter/I-C. both have MUC's inside		
	doorhouse. MUC/ATS or cables to work also.		

OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3-29-90
Smoyer	NITES		
PRIORITY	REMARKS		
	<ul style="list-style-type: none"> <li>o Diesel "A"</li> <li>- No Run TONIGHT</li> <li>- OPS TO ROLL ENG AROUND 6:00 AM</li> <li>- 8:00 AM IS SCHEDULED RUN TIME</li> </ul>		
	<ul style="list-style-type: none"> <li>o INBO8 + INBE CLEANING IN PROGRESS - HOPE TO BE DONE BY END OF SHIFT + HOPE TO HAVE STARTED ABO5</li> </ul>		
	<ul style="list-style-type: none"> <li>o MSIV<sup>S</sup> NORTH VALVE ROOMS COMPLETED</li> </ul>		
	<ul style="list-style-type: none"> <li>o AFWPH "B" MAINT MAY TRY + RUN IN AM OPS WOULDNT LET THEM TONIGHT - PACKING NEEDS ADJUSTED IF THEY DO</li> </ul>		
	<ul style="list-style-type: none"> <li>o AFWPH "C" TERRY TURBINE - CONTINUED WORK</li> </ul>		
	<ul style="list-style-type: none"> <li>o CLEARANCE 19015198 - HAD INCORRECT SUBCLEARANCE VAIRED + RESUBMITTED AS PER YOUR REQUEST - 15198 STILL HAS 4 PEOPLE SIGNED ON - FRY, SILVA, SECKINGER + BROWN</li> </ul>		

### OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	
Warren	Day		3/29/90
PRIORITY		REMARKS	Pg-1
		Diesel Gen '1A' - started up first time no problems identified. Now must perform all checks on 1A Diesel as we just finished on 1B. Cooper personnel on-site & working in parcel now.	
		Clearing SW/ER INBCF under clearance 15467 INBE is under 15257. Should finish today. Will turn over to night shift to finish INBCF. Also try to get INBE completed.	
		Hyperbolic Cooling Tower Basin and Circ. coltr. Flume have been filled by Ops.	
		still working AFU AH valve 1-1301-014-264 in Maint. shop	



OUTAGE TURNOVER LOG

SUPV. JR COORD.	SHIFT		3-28-90
Smoyer	nites	CONTROL BUILDING/OUTSIDE AREAS	

PRIORITY | REMARKS

o DIESEL 1 "A"  
 - SCHEDULED TO START AT 6:00 AM - ALL  
 DEPENDS . VALVE 1HV 8485B OPERATOR IS (CCP) <sup>ELECT. CHARGING</sup>  
 TORN APART IN THE HOT SHOP - NEEDS REASSEMBL<sup>Y</sup>  
 + MOVAT TESTED. TO MAKE "B" TRAIN  
 OPERABLE FOR THE D/G RUN.

o INBF - SHORTAGE OF ELECTRICIANS TONIGHT -  
 CLEANING INBF NOW + WILL INSTALL TEMP  
 MOD 1-90-014 AFTER GEAR COMPLETED. MAY  
 FINISH BY END OF SHIFT?

o MSW<sup>3</sup> - MARCUS IS STILL STROKING + MAKING  
 ADJUSTMENTS ON VALVES

o AFWPH "C" TERRY TURBINE - ASSEMBLING  
 LUBE SYSTEM + COMPONENTS BACK TOGETHER +  
 CIMCO INSTALLING HANGARS.

**OUTAGE TURNOVER LOG**

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3/28/90
J. Curran	Day		Pg-1
PRIORITY	REMARKS		
1)	<p>Mtg. on Diesel 'A' situation today @ 10:00 A.M.                      No. Firm decision on 'A' until 'B' is resolved. No. missed part of a test on a DCP during yesterday / last night. Test was run today (afternoon) &amp; 'B' should be declared operable now. Work done under MOP-14M057. Temp Mod 190-024 being removed. AW: to same bus utilization for 'A' Diesel. Temp Mod 1-90-014 being installed so we can take down INBE. We need it in for 'A' Train Diesel work. MOP 190-01508 will do the work. (Reinstall for 'B' Train. (Will run 'A' at 8:00 P.M. tonight)</p>		
2)	<p>Disassembled valve 1-1301-114-264 in AFW PH for bench test + hydro. Still working in shop. Needs cleaning up.</p>		
3)	<p>Painters' working in North Valve Room + Main steam Tunnel area on NCP 90-44 + 90-45.</p>		

OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3-27-90
Smoyer	NITES		PRIORITY
			<p>o Diesel Gen "B"</p> <ul style="list-style-type: none"> <li>- ALL RUNS + EMERG STARTS COMPLETED</li> <li>- UV TEST COMPLETED</li> <li>- STARTED 4 HR COOL DOWN AT 12:15 AM</li> <li>- HOT TORQUE COMPLETED</li> <li>* - STILL HAVE TO BORESCOPE CYLINDERS</li> <li>- OPS HAS TO PERFORM A SURVEILLANCE AFTER ENGINE COOLS DOWN</li> </ul>
			<p>o VALVES 1-1301-44-357 + 358 IN NORTH VALVE ROOM WORK COMPLETED MWD # 19000875, + 876</p>
			<p>o MSIV<sup>3</sup> MARCUS + ELECT. WORKED ON VALVES TONIGHT</p>
			<p>o AUX FEEDWATER PUMP HOUSE TRAIN "C" MAINT CLEANING UP OIL SYSTEM + CHANGING SOME PARTS BECAUSE OF ASBESTOS CONTAMINATION.</p>

**OUTAGE TURNOVER LOG**

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	
<i>(Signature)</i>	<i>Day</i>	<i>31-10-</i>	<i>Pa-1</i>
PRIORITY	REMARKS		
	<p><i>Worked on calibration of Pressure switches on jacket water and lube oil. Last one calibrated at approx 7:00PM. Remaining tests etc. acceptable. Emergency start at approx 5:50 PM. Additional testing in progress</i></p>		
	<p><i>Replaced some grating in Main steam Tunnel area.</i></p>		
	<p><i>Maintenance is clearing screens for Cond. Wtr. Pumps</i></p>		



OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3-26-90
Smoyer	Nites		
PRIORITY	REMARKS		
	<p>o Diesel Gen "B"</p>		
	<p>- mwo # 19001511 I + C IS CHANGING out 4 instruments + need to CALIBRATE THEM - THE DIESEL WILL NOT BE STARTED ON THIS SHIFT - IT SHOULD HAPPEN THE 1st PART OF your SHIFT (ENCLOSED IS mwo)</p>		
	<p>o MSIV<sup>S</sup> MARCUS still HAS some TESTS TO Run But will NOT HAPPEN TILL TUES OR WED. He's WORKING THE South VALVE Room FIRST</p>		
	<p>o NSCW "B" DID NOT MOVAT ANY VALVES AS you SAID IN your TURNOVER</p>		
	<p>o FITTERS WORKED ON A HANGER IN AFWPH "C" TONIGHT</p>		
	<p>o HERE ARE EXTRA COPIES OF your <sup>15703</sup> <del>AB03</del> OUTAGE</p>		

### OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3/26/90
Warren	Day		A-1
PRIORITY		REMARKS	
		<p>Diesel 1B - Engineering review/testing in progress on Control Panel. Logic Board change-out should help isolate problem. Discovered a difference of eight lbs of pressure where it should have been two. I-C testing further and Cooper/Render personnel continuing to evaluate/test.</p> <p>Possible trial run around <del>4:50 AM</del> mid-shift. Functional test of logic board change is in progress. Also heating up Diesel.</p>	
		<p>Nscu Tower 1A - MCIAT testing on IHV11613 Discharge Isolation Valve for Nscu Pump #4. Two MCIATs remain until 'B' Train is taken down for the outage.</p>	
		<p>Sequence 1 of DCP 87-304 on the Utility Water Bypass Feed for Circ. Water is Field Work complete. Functional test will be on sequence 2 sometime after the outage.</p>	

**OUTAGE TURNOVER LOG**

SUPV. OR COORD. 11/22/90	SHIFT Day	CONTROL BUILDING/OUTSIDE AREAS	3/25/90 Ag-1
PRIORITY	REMARKS		

Diesel Bldg 1B + 1A - No work on-going in the A.M.

North Valve Room - Pipe Fitters working on NCP 90-44. 2 Hangers left to complete. Should finish by end of shift. Needs a real good clean-up effort. Also some Insulators are replacing insulation on the API lines on the West side.

No obvious work on-going in NSCW 1B Tower. Rigging is still set up in preparation for 'B-Train outage security re-scheduled for Wednesday A.M.' possibility.

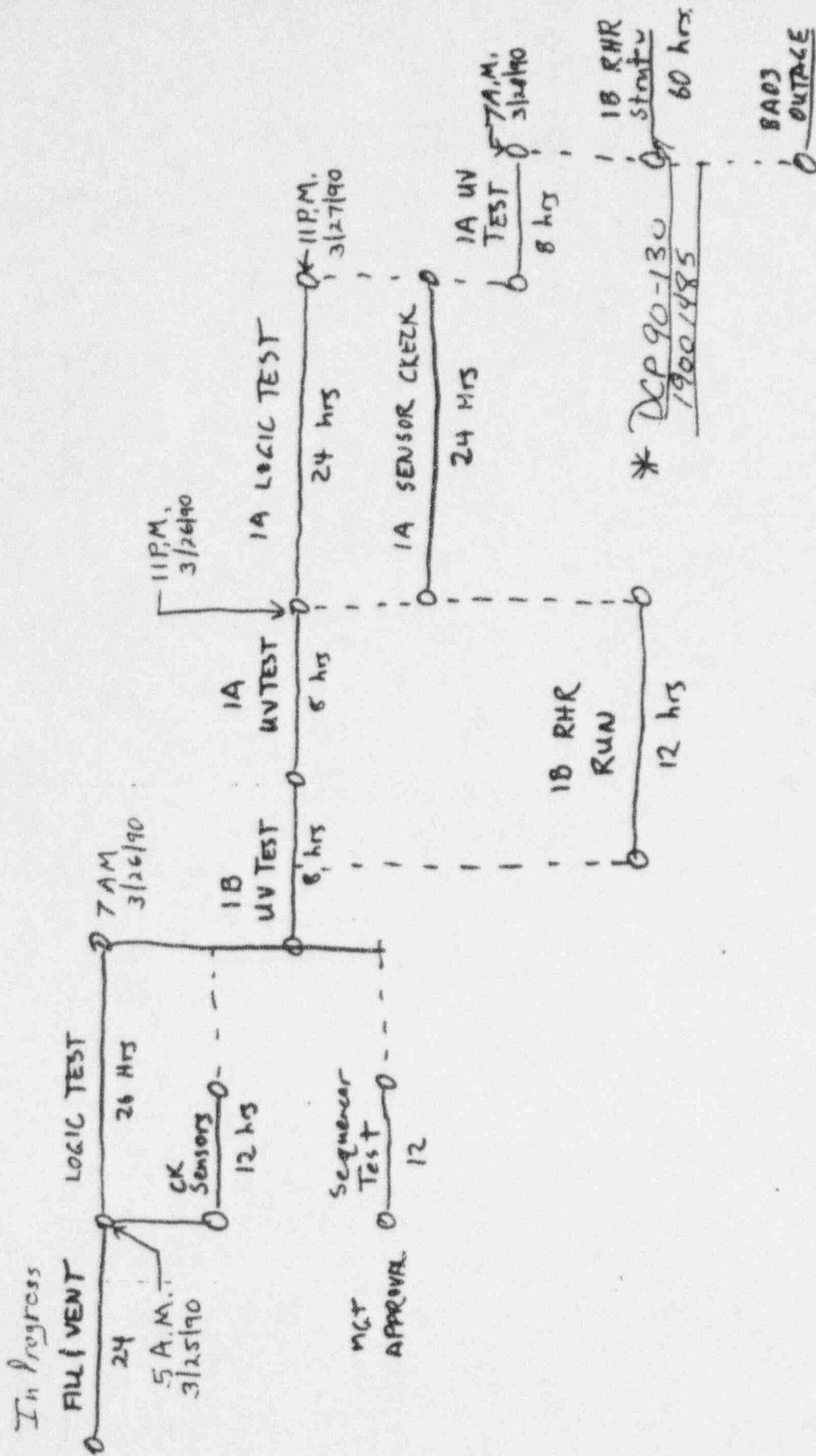


**OUTAGE TURNOVER LOG**

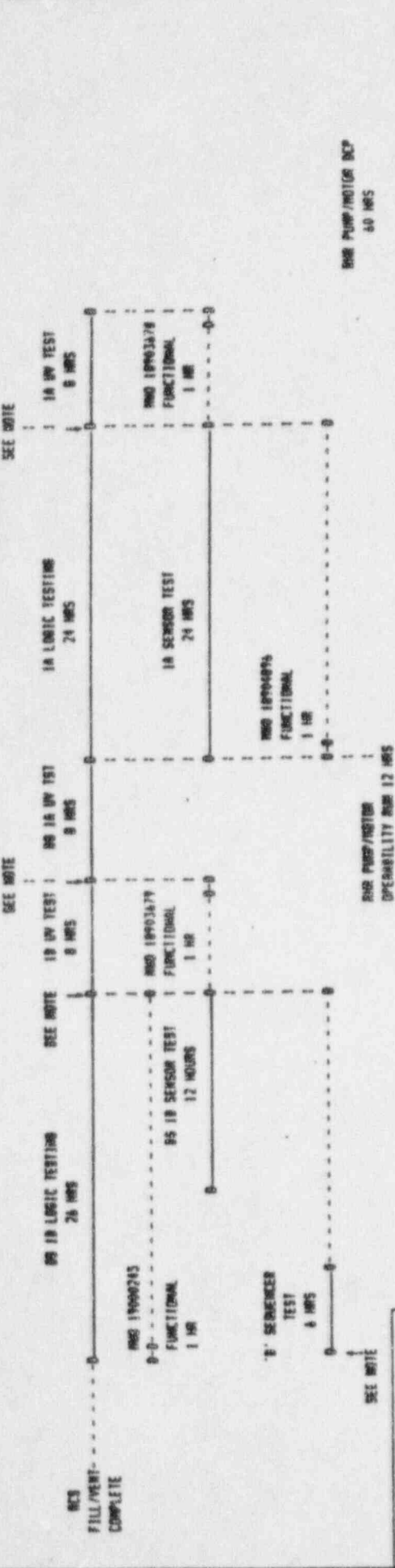
SUPV. OR COORD.		SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3/24/90
Warren		Day		Pg-1
PRIORITY	REMARKS			
	Diesel '1A' + '1B' on "Quarantine" status. Notify Control Room if entering + why. Latest available 'proposed' schedule for Diesel + RHR is attached to my turnover. I-C checking on P3 parts in all four Diesels for differences.			
	North Valve Room - Continuing work on ACP 90-44 hangers + spring cans. Running some additional lighting for the Control Bldg roof EL.-225 also.			
	Talked to Don Young about material for ACP-89-115 seg. 2. He has verified + reserved all but about 15 feet of the 2X2X1/4" Angle iron. (Someone req'd. some 400 ft. out after he reserved it.)			



2.1.1 (a) 3/24/90 to 10:00 AM



DAY	SUNDAY/75			MONDAY/76			TUESDAY/77			WEDNESDAY/78		
	24 00	00 00	14 00	24 00	00 00	14 00	24 00	00 00	14 00	24 00	00 00	14 00



SEE NOTE

1A LOGIC TESTING  
24 HRS

1A UV TEST  
8 HRS

1A SENSOR TEST  
24 HRS

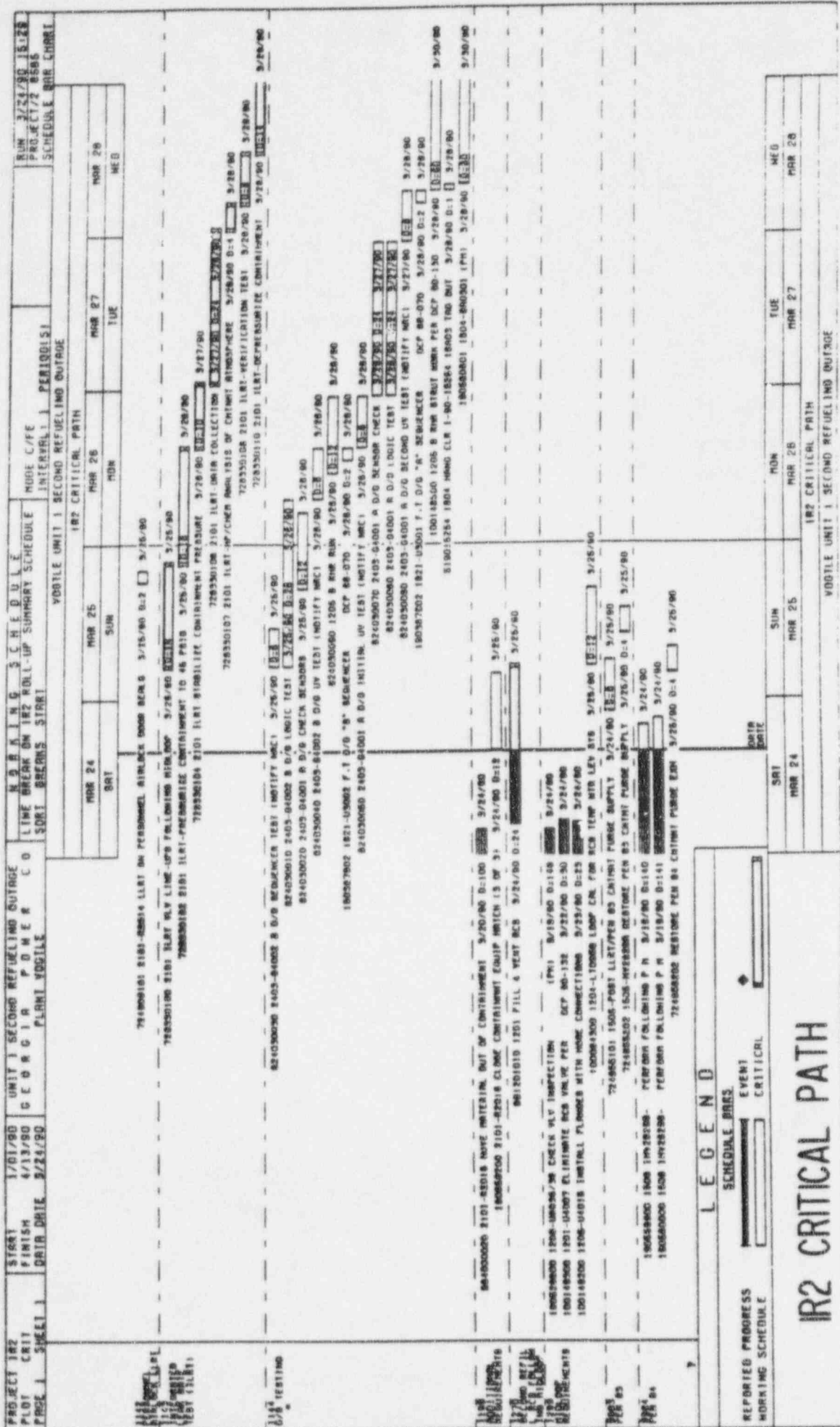
RMR PUMP/MOTOR  
OPERABILITY INCP 12 HRS

RMR PUMP/MOTOR  
INCP 60 HRS

COMMENCE 1BMO3 OUTAGE

NOTE: MHC NOTIFICATION REQUIRED  
NOTIFICATION TO THE  
MHC IS REQUIRED TO BE MADE  
BY THE SHIFT OUTAGE MGR  
4 HOURS PRIOR TO THE ACTIVITY START.

DR	E. ROCKWELL 001
OUTAGE MGR	R. LANCEY 110
OPS MGR	J. SMITZMELER 044
MAINT	K. WARD/TURNER 310
ASST DR PLANT SUPERVISOR	A. ROSBAUGH 200
PLANT EP	E. HOLMES 703
WFS	S. SHANKSON 127
ENG	N. HORTON 107



IR2 CRITICAL PATH

UNIT 1 SECOND REFUELING OUTAGE

LEGEND

SCHEDULE BASE

EVENT CRITICAL

REPORTED WORKING SCHEDULE

IR2 CRITICAL PATH

UNIT 1 SECOND REFUELING OUTAGE

IR2 CRITICAL PATH

OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT		3-23-90
SMOYER	NITES	CONTROL BUILDING/OUTSIDE AREAS	
PRIORITY	REMARKS		
	<ul style="list-style-type: none"> <li>o DCP 87-34 MECHANICS FINISHED, ELECT HAVE TO INSTALL HEAT TRACING 4of. EVERYONE BUT JERRY FRY IS OFF CLEARANCE (15198)</li> </ul>		
	<ul style="list-style-type: none"> <li>o INBO2 SWGR - MAINT IS NOT GOING TO WORK</li> </ul>		
	<ul style="list-style-type: none"> <li>o DIESEL "B" RAN 8 HR + 4HR RUN ON HOT TORQUE FOUND LOOSE BOLT. HAD TO START ANOTHER 4HR RUN HAD I+C PROBLEMS - PUNT ?</li> </ul>		
	<ul style="list-style-type: none"> <li>o MSW<sup>2</sup> CONTINUED TO WORK</li> </ul>		
	<ul style="list-style-type: none"> <li>o NSCW "B" IHU 1/607 PERFORMING POROSITY INSP + WILL START MAINT IN AM</li> </ul>		
	<ul style="list-style-type: none"> <li>o TEMP MOD 1-90-014 NEEDS ISSUED + INSTALLED</li> </ul>		



**OUTAGE TURNOVER LOG**

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3/23/90
Warren	Day		Ag-2
PRIORITY	REMARKS		
<p>Diesel 1B - 8hr. run completed. Hot torque taken + additional 4hr. run required. Scheduled to start at 5:30 per J.B. Beasley.</p>			
<p>NSCW Tower 1B - No work in evidence today. Trying to schedule all work in the doghouse for Sunday 7:30 A.M. until. Depends on Ops. May need security post (box) set on Tower.</p>			
<p>Continued working ACP 90-44 in North Valve Room. Should finish late tomorrow or early Sunday. Working Spring can deletion/installation + hanger replacement, stiffener also replaced.</p>			

OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT		3-22
Smoyer	NITES	CONTROL BUILDING/OUTSIDE AREAS	
PRIORITY	REMARKS		
	o Diesel Gen "A"		
	- Just finished a snoop run at approx 5:15		
	Nothing still conclusive		
	-		
	o Diesel Gen "B"		
	- Will attempt to start 8hr run by 6:00am		
	maybe?		
	o NSCW "B" finished moat test on IHV-11612		
	o Aux Feedwater "B" Pump Coupled & Valve Packed		
	FWC still needs run		
	o MSIV <sup>S</sup> North Valve Room - FWC as far as		
	possible - awaiting ops to perform funct		
	test & a few minor adjustments		
	o Fe <sup>S</sup> Elect hooked up heat tracing tonight		

### OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	DATE
W. Warren	Day		3/22/90
PRIORITY		REMARKS	pg-1
		Diesel Gen. 1B 8hr. run began at 12:15 P.M. today. Ken Stokes performed his tests this morning prior to the run starting. Tripped off at about 2:15 due to lube oil <del>indicator</del> <sup>temperature</sup> switch. I-C removed switch & is working.	
		NSCW Tower 1B - Performing MOVAT on IHV-11612 (Discharge Valve on #6 NSCW Pump Motor.) Experiencing program problems with MOVAT at 4:30.	
		Walked down Hyperbolic Cooling Tower looking over A+G clean-up effort. Some work still needed. Maint. working on de-icing gate (MNO 19001229.) Received As-Built Drawings From Eedyne for changes made under ACP-90-77. Engineering is reviewing the As-Built for acceptability.	

OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3-21-90
Smoyer	NITES	REMARKS	
PRIORITY			
	o DIESEL GEN "B"		
	- HAS NOT BEEN A GOOD NIGHT, STILL TRYING TO GET OUR 8 HR RUN KICKED OFF		
	o NSCW "B" HV-11612 DID NOT MOVAT		
	o MSIU 3016 stem - RECEIVED PART		
	o CIRC WATER PUMP #1 Re-coupled UNIT 2		
	o INBR - FINALLY GOT STARTED AROUND 3:00 AM		
	PROBABLY WON'T FINISH TILL LATER THIS MORNING		
	AROUND 6:30 OR 7:00		



**OUTAGE TURNOVER LOG**

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	7/21/90
Colarson	Day		Pg-1
PRIORITY	REMARKS		

Diesel Gen 1B - Trying to get Ops to let us run it all morning. Maybe around 12:30 - 1:00. Some discussion about ESAS Test again due to Diesel problem yesterday, still trying to fire off 1B. At 3:00 identified a relay problem in the Engine Control Panel. I-C evaluating.

Working in North Valve Room on ACP-90-44, Installing some piping hangers/clamps. Torquing on Flow elements almost complete. FE-530 is torqued, still working on FE-520. Scaffolding over PI-3010 has been removed.

No work in NSCU Tower.

Batteries back on charge. (ABC-A) Due to use yesterday.

OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3-20-90
Smoyer	NITES		
PRIORITY	REMARKS		
0	Diesel GEN <sup>2</sup> 1A - HAD SERIES OF START + WORKED OK STILL <sup>DC</sup> LOOKING INTO SEQUENCER 1B TRYING TO GET 8 HR RUN STARTED		
0	1BBA SWITCH GEAR COMPLETED		
0	AFWP "B" STILL WORKING WITH COUPLING ALIGNMENT + NEEDS REPACKED YET		
0	NSCW "B" HV 11612 NO WORK ON MOVAT TEST - WILL DO TONIGHT POROSITY INSP. IS COMPLETED ON WORM GEAR		
0	1WB02 - NEED TO GET WITH RON BURNS ON CONSIDERING		
0	SCAFFOLD OVER PV 3010 IN NORTH VALVE ROOM HAS TO COME DOWN BY END OF DAY SHIFT TODAY FOR MSIU <sup>2</sup> TO MOVE IN TONIGHT.		

**OUTAGE TURNOVER LOG**

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3/20/90
W. Warren PRIORITY	Day	REMARKS	
		<p>Diesel Generator 1B - work continuing. Removed Empty oil drums and burn today. Lost approx. 4 1/2 hrs due to switchyard accident. Back in plant &amp; working at 2:30 P.M. Trying to finish '1B' Diesel &amp; prepare for 8 hr. run, possibly tonight.</p> <p>1A Diesel being evaluated for trip today.</p>	
		<p>Working 1BDA SWGR in R-322 control Bldg. Performing P.M. on it. Should finish near end of shift or beginning of night shift.</p>	
		<p>Continuing work in the North Valve Room on FE520 &amp; 530. Torquing still in progress. Check for completion.</p>	

**OUTAGE TURNOVER LOG**

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	9-19-90
Smoyer	NITES		REMARKS
PRIORITY			
		<p>o WORK ABOUT COMPLETED ON DIESEL GEN "B"</p> <ul style="list-style-type: none"> <li>- CHANGING A FEW GASKETS ON LUBE OIL PIPE + CHANGING OIL IN GOVERNOR</li> <li>- AIR COMPRESSOR #1 NEEDS SERVICED, OIL CHANGE + BELT TIGHTENED</li> <li>- AIR COMPRESSOR #2 NEEDS BELTS TIGHTENED</li> <li>- ALSO REWORKING RCUR DRAIN VALVE</li> <li>- HAVE WATER IN + HEATING</li> <li>- TRYING TO GET CLEARANCE + HEATING OIL <sup>START</sup></li> <li>- SHOULD BE READY TO MAKE 8 HR RUN LATE THIS AFTERNOON PROVIDED OPS OK<sup>S</sup></li> </ul>	
		<p>o AFWPH "B" PUMP - IN WORK</p> <p>STILL NEEDS PACKING INSTALLED + PUMP COUPLED + MOTOR SET</p>	
		<p>o MWIO 18905995 AFW VALVE 1301-U4-264</p> <p>HOWARD DAVIS SAID HYDRO IS REQUIRED + HYDRO PACKAGE SHOULD BE WITH PACKAGE</p>	
		<p>o "D" TRAIN BATTERIES 1DD1 + 1DD11 FWC</p> <p>- 1BBA RM 322 IN WORK</p>	<p>92 PROJECT 054890</p>



OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT		3/19/90
Warren/Belcher	Day	CONTROL BUILDING/OUTSIDE AREAS	Pg-1
PRIORITY	REMARKS		
	<p>1) Diesel Generator IB - Accessory Drive shaft problem documented on DC 90-119<sup>?</sup>. Plan is to disassemble and try to get proper end-play (.05) in assembly. Possible fabrication of stem required. IF not successful on old assembly a complete replacement is in the warehouse. Changing oil in Diesel on-going &amp; remaining work progressing. (Appear to be able to utilize old accessory Drive Unit.) Must machine collar into tolerance.</p>		
	<p>2) Flow elements in North Valve Room are being worked. FE530 (North side) was installed and torquing is in progress. FE-520 also in place. DCP <sup>90-044?</sup> 89-044 also being worked on snubbers &amp; hangers.</p>		

3/19/90  
Day shift

'B' Train Diesel Gen Punch List

F4/c

- ① Cold Compression and Peak firing press
- ② Work Area preparation (day 1 ½ day) (day 8)
- ③ Service Crankshaft Relief Valve (day 1 1/3 day)
- ④ Crankshaft Hot Web deflection (day 1 1/3 day)
- ⑤ Generator control inspections (day 1 - 2 - 3 )
- ⑥ Clean Generator (day 1-4)
- ⑦ Foundation Grout (day 1)
- ⑧ Cylinder Block insp. (day 1 - 5)
- ⑨ Service Fuel injection Nozzles (day 1 and 6-9)
- ⑩ Examine injection line supports (day 2)
- ⑪ Cylinder Borescope insp. (day 2)
- ⑫ Clean and megger Generator Bearing (day 2 and 3)
- ⑬ Service Air Start Valves (day 2-5)
- ⑭ Examine Fuel Injection Pump
- 15. Engine control Panel inspections
- ⑮ Turbo bracket and bolting
- ⑯ Examine turbo and nozzle ring
- ⑰ Examine exhaust manifold welds
- ⑱ Service Thermocoupler
- ⑲ Internal Base Insp.
- ⑳ Internal Crankcase insp.
- ㉑ Service barring Device filter
- ㉒ Cold crank deflection and thrust
- 24. Examine SG governor and accessory drive
- ㉕ Starting air distributor filter
- ㉖ Check governor linkage and shutdown
- 27. Gear inspections
- ㉗ Service fuel Pump linkage
- ㉘ Service overspeed vent valves
- 30. Service starting air compressors
- ㉙ Service Butterfly valve
- ㉚ Examine and Service Governor drive
- 33. Service moisture traps
- ㉛ Service Crankcase vacuum fan
- ㉜ Adjust intake/exhaust valves
36. General cleanup and turnover
37. Evaluate Woodward governor settings
38. Test SG governor trip setpoint
39. Hot Retorque-Governor drive, turbo blast

Sunday  
3/18/90

DAY SHIFT

Page 2

"B" Train Diesel Gen Punch List

- RWC
1. Cold Compression and Peak firing press
  2. Work Area preparation (day 1 1/2 day) (day 8)
  3. Service Crankshaft Relief Valve (day 1 1/3 day)
  4. Crankshaft Hot Web deflection (day 1 1/3 day)
  5. Generator control inspections (day 1 - 2 - 3)
  6. Clean Generator (day 1-4)
  7. Foundation Grout (day 1)
  8. Cylinder Block insp. (day 1 - 5)
  9. Service Fuel injection Nozzles (day 1 and 6-9)
  10. Examine injection line supports (day 2)
  11. Cylinder Borescope insp. (day 2)
  12. Clean and megger Generator Bearing (day 2 and 3)
  13. Service Air Start Valves (day 2-5)
  14. Examine Fuel Injection Pump
  15. Engine control Panel inspections WIP
  16. Turbo bracket and bolting
  17. Examine turbo and nozzle ring
  18. Examine exhaust manifold welds
  19. Service Thermocoupler
  20. Internal Base Insp.
  21. Internal Crankcase insp.
  22. Service barring Device filter
  23. Cold crank deflection and thrust
  24. Examine SG governor and accessory drive TONIGHT
  25. Starting air distributor filter
  26. Check governor linkage and shutdown
  27. Gear inspections TONIGHT
  28. Service fuel Pump linkage
  29. Service overspeed vent valves
  30. Service starting air compressors WIP
  31. Service Butterfly valve
  32. Examine and Service Governor drive
  33. Service moisture traps WIP
  34. Service Crankcase vacuum fan WIP
  35. Adjust intake/exhaust valves
  36. General cleanup and turnover
  37. Evaluate Woodward governor settings
  38. Test SG governor trip setpoint
  39. Hot Retorque-Governor drive, turbo blast

40. main case insp

41. Intercooler Repair

"B" Train Diesel Gen Punch List

Fuel?

1. Cold Compression and Peak firing press
2. Work Area preparation (day 1 1/2 day) (day 8)
3. Service Crankshaft Relief Valve (day 1 1/3 day)
4. Crankshaft Hot Web deflection (day 1 1/3 day)
5. Generator control inspections (day 1 - 2 - 3)
6. Clean Generator (day 1-4)
7. Foundation Grout (day 1)
8. Cylinder Block insp. (day 1 - 5)
9. Service Fuel injection Nozzles (day 1 and 6-9) wif
10. Examine injection line supports (day 2)
11. Cylinder Borescope insp. (day 2)
12. Clean and megger Generator Bearing (day 2 and 3)
13. Service Air Start Valves (day 2-5)
14. Examine Fuel Injection Pump wif
15. Engine control Panel inspections - P Needs FUNCTIONAL TEST
16. Turbo bracket and bolting
17. Examine turbo and nozzle ring
18. Examine exhaust manifold welds
19. Service Thermocoupler wif
20. Internal Base Insp.
21. Internal Crankcase insp.
22. Service barring Device filter
23. Cold crank deflection and thrust
24. Examine SG governor and accessory drive wif
25. Starting air distributor filter
26. Check governor linkage and shutdown
27. Gear inspections wif
28. Service fuel Pump linkage
29. Service overspeed vent valves
30. Service starting air compressors
31. Service Butterfly valve
32. Examine and Service Governor drive
33. Service moisture traps
34. Service Crankcase vacuum fan
35. Adjust intake/exhaust valves
36. General cleanup and turnover
37. Evaluate Woodward governor settings
38. Test SG governor trip setpoint
39. Hot Retorque-Governor drive, turbo blast
40. Main Gas Insp.
41. INTERLOCKED Repair



OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT		3-16-90
SMOYER	NITES	CONTROL BUILDING/OUTSIDE AREAS	
PRIORITY	REMARKS		
	<p>o DCP 88-070 SEQUENCER PANEL CHANGE - BILL PURDY DID NOT KNOW ANYTHING ABOUT THIS - I CALLED DAN HINES AT HOME &amp; HE SAID THERE WAS NOTHING WE COULD DO. HE &amp; RON BURNS NEED TO GET TOGETHER WITH OPS TO DISCUSS ALL THE IMPLICATIONS &amp; WHAT TESTS THEY ARE GOING TO DO NEEDS TO BE COMPLETED BEFORE ANY SCHEDULING CAN BE DONE.</p>		
	<p>o Diesel Gen "B"</p> <ul style="list-style-type: none"> <li>- REPLACING GASKET ON RIGHT BANK INTERCOOLER ADAPTER</li> <li>- STARTED ENG CONTROL PANEL INSP - FOUND SOME KNICKED WIRES &amp; A PIECE OF TUBING DAMAGED - WRT<sup>2</sup> ARE BEING RUN THROUGH - WORK PLANNING DOES NOT HAVE THEM YET</li> <li>- TORQUING #1 &amp; #2 CYLINDERS HEAD &amp; MT HEAD SUB COVER</li> <li>- FUEL PUMP INSP FOUND A SPRING WITH AN INDICATION - REQUIRES PUMP CHANGE (ONE IS AVAILABLE) &amp; ALSO REQUIRES 2 MORE PUMPS TO BE PULLED &amp; INSPECTED - PUMPS ARE PULLED BUT NOT INSPECTED YET</li> </ul>		

1-7

Diesel Gen Punch List

1. Cold Compression and Peak firing press
2. Work Area preparation (day 1 1/2 day) (day 8)
3. Service Crankshaft Relief Valve (day 1 1/3 day)
4. Crankshaft Hot Web deflection (day 1 1/3 day)
5. Generator control inspections (day 1 - 2 - 3 )
6. Clean Generator (day 1-4)
7. Foundation Grout (day 1)
8. Cylinder Block insp. (day 1 - 5)
9. Service Fuel injection Nozzles (day 1 and 6-9)
10. Examine injection line supports (day 2)
11. Cylinder Borescope insp. (day 2)
12. Clean and megger Generator Bearing (day 2 and 3) *Comp*
13. Service Air Start Valves (day 2-5) *Comp*
14. Examine Fuel Injection Pump *wif*
15. Engine control Panel inspections *wif*
16. Turbo bracket and bolting *FWC*
17. Examine turbo and nozzle ring *FWC*
18. Examine exhaust manifold welds *FWC*
19. Service Thermocoupler *wif*
20. Internal Base Insp.
21. Internal Crankcase insp.
22. Service barring Device filter *FWC*
23. Cold crank deflection and thrust
24. Examine SG governor and accessory drive
25. Starting air distributor filter *FWC*
26. Check governor linkage and shutdown
27. Gear inspections
28. Service fuel Pump linkage
29. Service overspeed vent valves
30. Service starting air compressors
31. Service Butterfly valve *FWC*
32. Examine and Service Governor drive
33. Service moisture traps
34. Service Crankcase vacuum fan
35. Adjust intake/exhaust valves
36. General cleanup and turnover
37. Evaluate Woodward governor settings
38. Test SG governor trip setpoint
39. Hot Retorque-Governor drive, turbo blast
40. *ADD IN INSPECTION - wif*
41. INTERCOOLER REPAIR *FWC* *Final 2/27*

OUTAGE TURNOVER LOG

FRIDAY

3/16/90

PR - OF 4

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS
WARREN/BELCHER	Day	

PRIORITY REMARKS

- D/GEN "B" Train WORK is Going good. REINSTALLED INTER COOLER & CYL HEADS. Working on main Bags Installation DC WAS WRITTEN ON #5 & #7 main Bags & is BEING DISPOSITIONED "USE AS IS." (KEY STORES) \*FUNCTIONAL TEST ON ENGINE CONTROL PANEL will be done TONIGHT. (SEE PAGE 3) (\*By COOPER)
- HYF Cooling TOWER WORK Going well. INSPECTED 3 OF THE 4 FLUMES JOINT REPAIRS & They ARE Good. Flume CLEAN UP is STILL ON GOING. (See Page 4)
- MSIV PARTS ~~was~~ ARE NOT ALL ON SITE. TERRY LUNSFORD SAYS They ARE shipping Today & Tomorrow

### OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3/16/90
Warren Belcher	Day		Pg - of 4
PRIORITY		REMARKS	

6 'B' & 'N' Batteries still on Equalize as of 6:45 A.M.

- DCP-88-070 Sequencer Panel Change - Dan Hines wants to run the Functional test for 'B' Train during the BAO3 SWGR outage window (3/25). It appears to be possible but Finalization is still on-going. Need to verify that batteries will still be fed since DC & A.C. will be off on BAO3 for cleaning. (Ron Burns & Hines to discuss). Same test for AAO2 SWGR window on 'A' Train. AAO2 no clearance as yet. Joe D'Amico is aware of these items & working on scheduling. John Smoyer, PLEASE get with Bill Purdy on the above tonight!



Day Shift  
3/16/90

"B" Train Diesel Gen Punch List

- FWC (1) Cold Compression and Peak firing press
- FWC (2) Work Area preparation (day 1 1/2 day) (day 8)
- 3. Service Crankshaft Relief Valve (day 1 1/3 day)
- FWC (4) Crankshaft Hot Web deflection (day 1 1/3 day)
- FWC (5) Generator control inspections (day 1 - 2 - 3 )
- FWC (6) Clean Generator (day 1-4)
- FWC (7) Foundation Grout (day 1)
- FWC (8) Cylinder Block insp. (day 1 - 5)
- 9. Service Fuel injection Nozzles (day 1 and 6-9) WIP
- FWC (10) Examine injection line supports (day 2)
- FWC (11) Cylinder Borescope insp. (day 2)
- 12. Clean and megger Generator Bearing (day 2 and 3)
- 13. Service Air Start Valves (day 2-5) WIP
- 14. Examine Fuel Injection Pump WIP
- 15. Engine control Panel inspections
- FWC (16) Turbo bracket and bolting
- FWC (17) Examine turbo and nozzle ring
- FWC (18) Examine exhaust manifold welds
- 19. Service Thermocoupler
- 20. Internal Base Insp.
- 21. Internal Crankcase insp.
- FWC (22) Service barring Device filter
- 23. Cold crank deflection and thrust
- 24. Examine SG governor and accessory drive
- FWC (25) Starting air distributor filter
- 26. Check governor linkage and shutdown
- 27. Gear inspections
- 28. Service fuel Pump linkage
- 29. Service overspeed vent valves
- 30. Service starting air compressors
- FWC (31) Service Butterfly valve
- 32. Examine and Service Governor drive
- 33. Service moisture traps
- 34. Service Crankcase vacuum fan
- 35. Adjust intake/exhaust valves
- 36. General cleanup and turnover
- 37. Evaluate Woodward governor settings
- 38. Test SG governor trip setpoint
- 39. Hot Retorque-Governor drive, turbo blast
- 40. MAIN ENG INSPECTION - WIP
- FWC 41. INTERMOTOR REPAIR

OUTAGE TURNOVER LOG

SUPV. OR COORD.	SHIFT	CONTROL BUILDING/OUTSIDE AREAS	3-15-90
Smoyer	NITES		
PRIORITY	REMARKS		
	<ul style="list-style-type: none"> <li>o HYP. COOLING TOWER</li> <li>* HOT - NEED 40 TON PICKER FOR ECODYNE AT TOWERS AT 9:00 AM TOMORROW (TODAY FOR YOU)</li> <li>o B + D BATTERIES - EQUALIZE, IN PROGRESS</li> <li>o DIESEL GEN "B"               <ul style="list-style-type: none"> <li>- LEFT BANK INTER COOLER COVER BEING INSTALLED</li> <li>- #7 MAIN BEARING ROLLED BACK IN - NEEDS TENSIONED</li> <li>- #5 BEING ROLLED OUT - NEEDS PT<sup>D</sup> + VISUAL INSPECTION + REINSTALLED</li> <li>- #19000606</li> <li>- MWO OUT ON DUPLEX FILTER VALVE LEAKING (SPARE VALVE AVAILABLE)</li> <li>- REPLACING A LEAKING FUEL LINE</li> <li>- CONTINUED CLEANING + INSPECTION GENERATOR CONTROL PANEL</li> <li>- PERFORMING #1 + 2 CYLINDER HEAD FIRING-DECK</li> </ul> </li> <li>o ESF CHILLER "B"               <ul style="list-style-type: none"> <li>- 18906023 - DCP 452 - NEED TO LAND LEADS + PERFORM FUNCTION</li> <li>- 18903772 - DCP 160 SEQ#1 ↓</li> </ul> </li> </ul>		
	<div style="text-align: right; font-size: small;">           (NO WORK)            (NO WORK TONIGHT) FOR ELECT            ↓ I + C WORKING - NEED PROCES            WRE CHANGE - PASS ON TO DAYS            92 PROJECT            054900         </div>		

3/15/90 DAY SHIFT

"B" TRAIN Diesel Gen Punch List

1. Cold Compression and Peak firing press
2. Work Area preparation (day 1 1/2 day) (day 8)
3. Service Crankshaft Relief Valve (day 1 1/3 day) WIP
4. Crankshaft Hot Web deflection (day 1 1/3 day)
5. Generator control inspections (day 1 - 2 - 3) WIP
6. Clean Generator (day 1-4)
7. Foundation Grout (day 1)
8. Cylinder Block insp. (day 1 - 5) WIP
9. Service Fuel injection Nozzles (day 1 and 6-9) WIP
10. Examine injection line supports (day 2)
11. Cylinder Borescope insp. (day 2)
12. Clean and megger Generator Bearing (day 2 and 3)
13. Service Air Start Valves (day 2-5) WIP
14. Examine Fuel Injection Pump WIP
15. Engine control Panel inspections WIP
16. Turbo bracket and bolting
17. Examine turbo and nozzle ring
18. Examine exhaust manifold welds
19. Service Thermocoupler
20. Internal Base Insp.
21. Internal Crankcase insp.
22. Service barring Device filter
23. Cold crank deflection and thrust
24. Examine SG governor and accessory drive
25. Starting air distributor filter
26. Check governor linkage and shutdown
27. Gear inspections
28. Service fuel Pump linkage
29. Service overspeed vent valves
30. Service starting air compressors SOB
31. Service Butterfly valve
32. Examine and Service Governor drive
33. Service moisture traps
34. Service Crankcase vacuum fan
35. Adjust intake/exhaust valves
36. General cleanup and turnover
37. Evaluate Woodward governor settings
38. Test SG governor trip setpoint
39. Hot Retorque-Governor drive, turbo blast.
40. Inspect #5 & #7 main BRGS. — WIP

Exhibit 51, page 42 of 42