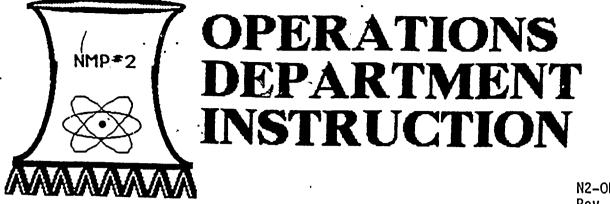
07-250-91



N2-ODI-3.01 Rev. <u>5</u> (TCN-8)

SHIFT TURNOVER GUIDELINES Approved:

1.0 <u>PURPOSE</u>

The purpose of this ODI is to provide general guidelines, responsibilities, and instructions for the conduct of Operations Department Shift Turnovers. The instructions contained within are consistent with and support AP-4.0, Section 4.6, <u>Shift Changeover Procedure.</u>

2.0 <u>RESPONSIBILITY</u>

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- Licensed and unlicensed operators are responsible for the implementation of these instructions such that Turnovers enhance the safe and efficient operation of the station. Shift personnel shall conduct shift relief/turnover in a professional manner at all times.
- For the purpose of determining shift coverage responsibilities (sickness, emergencies, etc.), off-going operators shall not leave until relieved. If an operator of the same or higher grade wishes to cover shift for the missing person, it shall be arranged through the S.S.S. In the event that no one volunteers to cover over/under, the operator opposite the missing person on the shift schedule will be <u>required</u> to stay/come in for shift coverage.
- Operators are expected to do a one-for-one turnover with the on-coming operator with rounds responsibility for the same area as the off-going. (08-1600 Turbine Bldg. turns over to 16-2400 Turbine Bldg., etc.)

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DISCUSSION

To accomplish an efficient shift turnover, licensed operators should relieve in the control room, non-licensed operators should relieve in the OPS break room. When special testing or evolutions are in progress, turnover should take place in the plant at the work station.

Prior to the SSS, ASSS, and CSO leaving, the incoming SSS, ASSS, and CSO must read their respective log book and sign the bottom of the last page. The signature shall signify that the operator has read all logs since that operator was last on duty.

In addition the SSS will review and sign the previous two shifts of CSO logs.

A Turnover Checksheet shall be read by the oncoming SSS, ASSS, CSO and NAOE as required by AP-4.0. The Shift Emergency Plan Coordinator shall also read and sign a turnover checksheet. These checksheets are to be filled out as accurately as possible and are to be used as a guide to thoroughly transfer current plant status, anticipated testing or evolutions and special. concerns. Turnover checklists are also required for each plant building (checklists are prepared by rounds). Attachments 1-11 are provided as example checksheets.

Discussions should include but are not limited to the following:

- 1. Status of safety related systems.
- 2. Running equipment.
- 3. Inoperable equipment, including instrumentation and LCO's, including surveillance requirements.
- 4. Reasons for new annunciators.
- 5. Work in progress, marked up equipment, surveillances in progress.
- 6. Unusual events that have occurred during the past day.
- A verbal exchange of additional information may include a walkdown of control room panels when abnormal lineups or special conditions warrant. In any event, a walkdown of control room panels either prior to, or shortly after assuming the shift is expected to be completed by control room operators. This panel walkdown should include control room backpanels.
- A review of the following documentation is expected to be completed, either prior to or shortly after assuming the shift by the SSS, ASSS, CSO and NAOE:
 - 1. Night Notes (all operators)
 - 2. ESL
 - 3. Temp Mod Log
 - Surveillance Schedule 4.
 - 5. Mark-ups

The turnover check list shall be signed after this review is complete.

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Soon after CSO turnover, the CSO should notify the SSS of shift personnel present.

- When required by abnormal conditions, special testing or as otherwise determined by the SSS, a shift briefing will be conducted. When no shift briefing is required at the beginning of a shift, BOP operators are expected to report to the CSO to obtain work assignments, i.e.,... rounds, lineups, surveillances.
- In plant, operators must make the CSO aware of plant conditions or problems as they occur, i.e., equipment failures, new WRs, status of regens.
- Prior to assuming the shift, each control room operator shall personally verify the status of important system operating parameters, especially those relating to safety related systems.
- The off-going shall not leave his or her work area until he or she is satisfied that his relief is fully aware of existing conditions and the equipment that he or she is responsible for is in a stable condition. A stable condition is defined as a period of time when no evolutions are in progress that would normally require the attention or probable response of an operator.
- If plant/work area conditions require continuous operator attention or response, shift turnover should take place at a convenient point and on a "staggered" basis. (Relieve one-at-a-time starting with lowest grade operator, ending with SSS.

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	Date`
Off-Going S.S.S	S On-Coming S.S.S
PART I To be	completed by Off-Going S.S.S prior to being relieved and to be
	ed by On-Coming S.S.S. prior to assuming the shift.
	Unit Status
Evolutions: -	(completed or in progress)
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Evolutions: -	(Planned).
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9 MILE POINT NUCLEAR STATION UNIT #2 Page 2 of 2 Attachment 1 STATION SHIFT SUPERVISOR TURNOVER CHECKLIST PART I (Cont'd) Change in Equipment in limiting condition of operation. Length of Due Date Date and System_Component Time In Time Allowed____ and Time 1. 2. 3. 4. PART II To be reviewed by Off-Going S.S.S. prior to being relieved. (Check Box) Review Plant Equipment □ Review Key Log Status Log Review/Sign Shift Checks Night Orders/Standing Orders Review and Sign Logs Mode Switch: Shutdown____ Refueling____ Run Startup____ Core Flow____ (< 113.925 x 10⁶ lbm/hr)* Rx Level____ (178.3-187.3)* MWT (< 3323 MWT)* Press____ (< 1020)* *Acceptable Criteria for Normal Operation (A (\checkmark) is acceptable) Remarks: Off-Going S.S.S.____ Date Name PART III To be reviewed/accomplished by On-Coming S.S.S. shortly after assuming shift. (Check Box) □ Night Orders/Standing Orders/O.D.I.S □ Review S.S.S. Log Minimum Shift Crew Composition □ Review Markups to be \Box SRO (2) hung or issued for next \square RO (4) day, or shift \square NLOT (2) □ Computer Alarm Summary □ Firebrigade (5) □ Water Inventory □ Rad Tech (1) (Midshift Only) 🗆 Plant Equipment Status Log □ Shift Rounds Sheets □ Review Chemistry Data (Midshift Only) Review Changes Since Last on Shift □ Tour Control Room Panels of the Jumper, Lifter Lead and Review and sign previous Defeated Annunciator Records two shifts CSO Log Conduct Shift Briefing On-Coming S.S.S. Name Date Time N2-ODI-3.01 -5 June 1991

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Page 1 of 2 <u>9_MILE_POINT_NUCLEAR_STATION_UNIT_#2</u> Attachment 2 -
ASSISTANT STATION SHIFT SUPERVISOR TURNOVER CHECKLIST
Date
Off-Going A.S.S.S On-Coming A.S.S.S
PART I To be completed by Off-Going A.S.S.S prior to being relieved and to be reviewed by On-Coming A.S.S.S. prior to assuming the shift.
Unit #2 Mode Unit Status
Evolutions: - (completed or in progress)
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Evolutions: - (Planned)
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Page 2 of 2 <u>9 MILE POINT NUCLEAR STATION UNIT #2</u> Attachment 2 -ASSISTANT STATION SHIFT SUPERVISOR TURNOVER CHECKLIST

PART I (Cont'd)

Change in Equipment in limiting condition of operation.

	<u>System_Component</u>	Date and <u>Time In</u>	Length of <u>Time_Allowed</u>	Due Date <u>and Time</u>
1. 2. 3. 4.		 		// /

PART II To be reviewed by Off-Going A.S.S.S. prior to being relieved. (Check Box)

Review Plant Equipment Status Log	□ Review Key Log □ Review/Sign Shift Checks
Night Orders/Standing Order	rs □ Review and Sign Logs
Mode Switch: Shutdown	Refueling Startup Run
Rx Level (178.3-187.3)*	Core Flow (≤ 113.925 x 10 ⁶ 1bm/hr)*
Press (<u><</u> 1020)*	MWT (<u><</u> 3323 MWT)*

*Acceptable Criteria for Normal Operation (A (\checkmark) is Acceptable)

Off-Going A.S.S.S.___ Name Date Time PART III To be reviewed/accomplished by On-Coming A.S.S.S. shortly after assuming shift. (Check Box) □ Night Orders/Standing Orders/O.D.I.S □ Review S.S.S. Log Minimum Shift Crew Composition □ Review Markups to be hung or issued for next □ SRO (2) day, or shift □ RO (4) \square NLOT (2) □ Computer Alarm Summary □ Firebrigade (5) □ Water Inventory (Midshift Only) □ Rad Tech (1) Plant Equipment Status Log □ Shift Rounds Sheets D Review Chemistry Data (Midshift Only) □ Review Changes Since Last on Shift □ Tour Control Room Panels of the Jumper, Lifter Lead and □ If in Operational Defeated Annunciator Records Condition 1, 2 or 3, verify GETARS in Sentinel □ Review Lube Schedule (Swingshift) D Review PMT Drawer and perform Mode. as plant conditions allow On-Coming A.S.S.S. Name Date Time

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Page 1 of 3 <u>9 MILE POINT NUCLEAR STATION UNIT #2</u>	
Attachment 4 - <u>CHIEF_SHIFT_OPERATORS_TURNOVER_CHECKLIST</u>	
Date/ /	
Off-Going C.S.O On-Coming C.S.O	<i>,</i>
PART I To be completed by off-going C.S.O. prior to being reli reviewed by on-coming C.S.O. prior to assuming the shift	ieved and to be
	On-Coming
Round Sheets Completed (S.S.S. notified of anomalities)	D
Water Inventory Complete (Midshift)	٥
Evolutions: -(Completed/in Progress)	
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Evolutions: -(Planned)	
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Page 2 of 3 9 MILE POINT NUCLEAR STATION UNIT #2 Attachment 4 - CHIEF SHIFT OPERATIONS TURNOVER CHECKLIST	
Special Instructions (Short Term)	On-Coming <u>C.S.O.</u> D
	• • •
Significant Maintenance in Progress (Equipment)	
·	
	· . · ·
Remarks: -(Normal Shift Routine, Additions to Rounds)	
·	
	· ·
Name Date Time Off-Going C.S.O/ / . N2-ODI-3.01 -9 June 1991	

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9 MILE POINT NUCLEAR STATION UNIT_#2 Page 3 of 3 Attachment 4 CHIEF SHIFT OPERATORS TURNOVER CHECKLIST

To be reviewed/completed by on-coming C.S.O. relief. (Check Box)	prior to shift
	On-Coming <u>C.S.O.</u>
Night Orders Reviewed	
C.S.O. Log Reviewed	
Rounds Sheets Reviewed	۵
Active Lifted Wire Jumper Records Reviewed	
Active Standing Orders	
	relief. (Check Box) Night Orders Reviewed C.S.O. Log Reviewed Rounds Sheets Reviewed Active Lifted Wire Jumper Records Reviewed

C.S.O Turnover Checklist Data Sheet Page 1 and $\mbox{*}$ Items Completed Computer Alarm Summary Reviewed Keys Obtained

PART III	Items to be reviewed/accomplished shortly after assuming the shift (Check Box).	
	Watch Station Relief Conducted	
	Surveillance Schedule Reviewed	
	Equipment Status Log Reviewed	
	Test All Annunciators (Control Room)	۵
	Attend Shift Briefing	
	Review Mark-Ups	
	Status Report From Waste Building Crew	۵
	CSO Turnover Checklist Data Sheet Completed	
	Verify Rod Pattern Per RX Analyst Instructions	
	Name Date Time On-coming C.S.O//	

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Page 1 of 3 <u>9 MILE POINT NUCLEAR STATION UNIT #2</u> Attachment 5 <u>NUCLEAR AUXILIARIES OPERATOR E TURNOVER CHECKLIS</u> <u>INCLUDING S.E.P.C.</u>	5 <u>7</u> ate / /
Unit #2 Mode	
Off-Going N.A.O.E On-Coming N.A.O.E On-Coming S.E.P.C	
PART I To be completed by off-going N.A.O.E. prior to being be reviewed by on-coming N.A.O.E. prior to assuming the Box)	relieved and to ne shift. (Check
Unit Status	On-Coming <u>N.A.O.E</u> _ □
Mode Switch: ShutdownRefuelingStartupRun	D
Rx Level(178.3-187.3)* Stm. Flowx 106 #/Hr Press(<1020)* Core Flowx 106 #/Hr	(<u><</u> 113.925 x 10 ⁶ lbm/hr)* et)
*Acceptable Criteria for Normal Operation	-
Shift Rounds Completed (Reviewed by On-Coming)	D
Surveillance procedures in progress or planned (i.e., any surveillance in progress that will extend beyond shift relief)	-
General information (i.e. Demineralizers to be backwashed, filters to be changed, valve lineups in progress, evolutions in progress or planned, etc.)	- - - -
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Page 2 of 3 Attachment 5 <u>NUCLEAR AUXILIARIES OPERATOR E TURNOVER CHECKLIST</u>

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Major Equipment Outage Status

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Remarks: (additions to rounds, special equipment surveillance, etc.)

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ECCS STATUS

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Page 3 of 3 <u>9 MILE POINT NUCLEAR STATION UNIT #2</u> Attachment 5 <u>NUCLEAR AUXILIARIES OPERATOR E TURNOVER CHECKLIST</u>

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PART II To be completed by off-going operator prior to leaving shift. (Check Box).

Review/Sign procedures completed during shift (Valve lineups, Rounds sheets, etc.)

Name Date Time
Off Going N.O.E._____/ / ____

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PART III	'To be completed/reviewed as early in shift as possible. (Check Box)
	Attend Shift Briefing
	A complete plant tour (Rounds sheets completed by operators)
	Review C.S.O. logs.
	Review lubrication schedule with A.S.S.S.

On-Coming	N.O.E	Name	Date /	Time
On-Coming	S.E.P.C.		/	1

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<u>9 MILE POINT NUCLEAR STATION UNIT #2</u>

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SHIFT TURNOVER CHECKLIST DATA SHEET

		•	Date _	/	
1.	<u>CRITICAL PARAMETERS</u> (Enter Value)	00-08	08-16	16-24	
1.1	Mode Switch Position				
1.2	Rx Water Level (178.3-187.3")*				
1.3	Reactor Pressure (<u><</u> 1020 PSIG)*				
1.4	Reactor Temperature (°F)	·		<u></u>	
1.5	Condensate Conductivity (umho/cm)				
1.6	Steam Flow (x 10 ⁶ #/Hr)				
1.7	Feedwater Flow (x 10 ⁶ #/Hr)			÷	
1.8	Core Flow (<u><</u> 113.925 x 10 ⁶ #/Hr)*		<u></u>	, 	•
1.9	Core Thermal Power (<u><</u> 3323 MWT)*			-	•
1.10	Main Generator Output (MWe)	·			
1.11	Main Condenser Vacuum (inches Hg.)				
1.12	Suppression Pool Level (ft)		·		
1.13	Drywell Pressure (PSIG)				
1.14	Suppression Pool Temperature (°F)				
1.15	Verify LED's for each computer printer lit:				_
	a. On Line b. Power on '-				TCI
REMARK	S:				

*Acceptable Criteria For Normal Operation

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NINE MILE POINT NUCLEAR STATION UNIT #2

SHIFT TURNOVER CHECKLIST DATA SHEET

		CHECKEIST ON THE SHEET	Date/ _/
		NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	IN NORMAL <u>CONDITION (√) COLUMN</u> <u>Yes/No Yes/No Yes/No</u>
2.	SYSTEM AVAILABILITY		
2.1	2CEC*PNL603		•
*2.1.1	CRD System Operability with l Pump Running and Standby Pump in NORMAL-AFTER-STOP	A B In-Service	
2.1.2	CRD Flow control Set at 63 gpm	Auto	
2.1.3	Scram Disch. Vol. Vent & Drain Valves	Open	<u></u>
2.1.4	Scram Disch. Vol. Hi Water Level Bypass Switches	Normal	
2.1.5	SRM/IRM Detector Position	Out	
2.1.6	Feedwater Master Level Controller in Control with 3-Element Feedwater Control Selected	Auto	/
2.1.7	SRM/IRM/APRM/Flow Unit/RBM	Not In	
2.2	2CEC*PNL602	Bypass	
*2.2.1	Rx Recirculation system in Hi-speed with both Loop Controllers in manual.	In-Service	TCN-
2.2.2	RBCLC To/From Recirc Pump Coolers	Auto & Open	· · · · · · · · · · · · · · · · · · ·

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NINE MILE POINT NUCLEAR STATION UNIT #2

SHIFT TURNOVER CHECKLIST DATA SHEET

Date ___/_/___

NORMAL IN NORMAL POSITION/CONDITION CONDITION (./2 Yes/No Yes/No Yes/No Yes/No <	
 2. <u>SYSTEM AVAILABILITY</u> 2.2.5 MSIV's Auto// 2.2.6 Main Steam Line Drains (MOV112 de-energized) Auto & Closed _// 2.2.7 Rx Vessel Head Vent Aligned to MSL (MOV108) Open// 2.2.8 Rx Vessel Head Vent to Supp Pool (MOV118 & MOV119) Closed// 2.2.9 MSL Press Eq/Warming (MOV187) Closed// 2.2.10 RWCU in Operation w/Suction F/D - A B C D from RPV Bottom Head and both Recirc Loops, one Pump - A B Pump running, 2-F/D's I/S and no Reject Flow In-Service// 2.2.11 PCIS Mimic Lights De-energized// 2.2.12 Man. Isol. (Amber lights) De-energized// 	<u>COLUMN</u> `
 2.2.6 Main Steam Line Drains (MOVI12 de-energized) Auto & Closed _// 2.2.7 Rx Vessel Head Vent Aligned to MSL (MOV108) Open _// 2.2.8 Rx Vessel Head Vent to Supp Pool (MOV118 & MOV119) Closed _// 2.2.9 MSL Press Eq/Warming (MOV187) Closed _// 2.2.10 RWCU in Operation w/Suction F/D - A B C D from RPV Bottom Head and both Recirc Loops, one Pump - A B Pump running, 2-F/D's I/S and no Reject Flow In-Service _// 2.2.11 PCIS Mimic Lights De-energized _// 2.2.12 Man. Isol. (Amber lights) De-energized _// 	
(MOV112 de-energized) Auto & Closed 2.2.7 Rx Vessel Head Vent Aligned to MSL (MOV108) Open 2.2.8 Rx Vessel Head Vent to Supp Pool (MOV118 & MOV119) Closed 2.2.9 MSL Press Eq/Warming (MOV187) Closed 2.2.10 RWCU in Operation w/Suction F/D - A B C D from RPV Bottom Head and both Recirc Loops, one Pump - A B 2.2.11 PCIS Mimic Lights De-energized 2.2.12 Man. Isol. (Amber lights) De-energized 2.3 <u>2CEC*PNL601</u>	/
 2.2.7 Rx Vessel Head Vent Aligned to MSL (MOV108) 2.2.8 Rx Vessel Head Vent to Supp Pool (MOV118 & MOV119) Closed _// Clo	/
Supp Pool (MOV118 & MOV119) Closed// 2.2.9 MSL Press Eq/Warming (MOV187) Closed// 2.2.10 RWCU in Operation w/Suction F/D - A B C D from RPV Bottom Head and both Recirc Loops, one Pump - A B Pump running, 2-F/D's I/S and no Reject Flow In-Service// 2.2.11 PCIS Mimic Lights De-energized// 2.2.12 Man. Isol. (Amber lights) De-energized// 2.3 2CEC*PNL601	/
(MOV187) Closed// 2.2.10 RWCU in Operation w/Suction F/D - A B C D from RPV Bottom Head and both Recirc Loops, one Pump - A B Pump running, 2-F/D's I/S and no Reject Flow In-Service// 2.2.11 PCIS Mimic Lights De-energized// 2.2.12 Man. Isol. (Amber lights) De-energized// 2.3 <u>2CEC*PNL601</u>	;
from RPV Bottom Head and both Recirc Loops, one Pump - A B Pump running, 2-F/D's I/S and no Reject Flow In-Service 2.2.11 PCIS Mimic Lights De-energized 2.2.12 Man. Isol. (Amber lights) De-energized 2.3 <u>2CEC*PNL601</u>	/``
De-energized//_ 2.2.12 Man. Isol. (Amber lights) De-energized// 2.3 <u>2CEC*PNL601</u>	TCN-
2.3 <u>2CEC*PNL601</u>	/ '
	/
*2.3.1 Service Water Sys Aligned A B C D E F	
per Lake Temp. with Ser Water Being Supplied To/From the Rx Bldg & Turb Bldg Hdrs with at least 1 Ser Water Pump I/S /Loop and others are in	
NORMAL-AFTER-STOP. Auto	/_
2.3.2 TBCLC I/S w/at least 1 A B C pump running and others	
in NORMAL-AFTER-STOP Auto	/
REMARKS:	

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NINE MILE POINT NUCLEAR STATION UNIT #2

SHIFT TURNOVER CHECKLIST DATA SHEET

Date ___/_/___

		NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	IN NORMAL <u>CONDITION (/) COLUMN</u> <u>Yes/No Yes/No Yes/N</u>
2.	SYSTEM AVAILABILITY	<u>component</u>	
2.3.3	TBCLC Ht. Exch. Temp. Control set at 82°F.	Auto	
2.3.4		in-A B C ter-A B C Auto	
2.3.5	RBCLC Ht. Exch. Temp. Control set at 87°F.	Auto	Ϋ́ζ
*2.3.6	RCIC in Standby. Stm line drains open. Flow Controller in Auto and set at 600 gpm and all other components in Auto.	Standby	· · · · · · · · · · · · · · · · · · ·
2.3.7	RCIC Init Seal in/Reset	De-energized	
2.3.8	RCIC Div I Div II Isol. Seal In/Reset	De-energized	
*2.3.9	LPCS in Standby w/suction MOV112 open and manual Inj. B.V. HCV117 open, #P1 in NORMAL-AFTER-STOP. Sys. Press Pump running.	Standby	
2.3.10	LPCI 1A/LPCS Reset	De-energized	_///_
2.3.11	RBCLC to/from RHR*PIA	Open .	/////////////
2.3.12	Service Water to/from RHR*P1A	Closed	
DEMADEC	:		

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NINE MILE POINT NUCLEAR STATION UNIT #2

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SHIFT TURNOVER CHECKLIST DATA SHEET

Date ____/ _/___

	· · · ·	NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	IN NORMAL <u>CONDITION (J) COLUMN</u> <u>Yes/No Yes/No Yes/No</u>
2.	SYSTEM_AVAILABILITY		
*2.3.13	LPCI 'A' is in Standby condition with suction (MOVIA) open and the injection manual B.V. (HCV53/ open and PIA in NORMAL-AFTER- STOP. MOV9A, MOV12A & MOV8A are open.		//_/
*2.3.14	Rx vessel depressurization Safety/Relief Valves	Áuto & Closed	//
2.3.15	ADS Air Compressor	Pull-To-Lock	//
2.3.16	ADS Air Supply Valves to Drywell	Auto	
2.3.17	LOCA override switches for SOV164 & SOV165.	Reset	
2.3.18	RBCLC to/from RHR*P1B	Open	
2.3.19	Service Water to/from RHR*P1B	Closed	
*2.3.20	LPCI 'B' in Standby with Suction Valve (MOV1B) open and the injection manual B.V. (HCV53B) open, & P1B in NORMAL-AFTER-STOP. MOV9B, MOV12B & MOV8B are open.	Standby	//
REMARKS:	•		
<u> </u>	•		
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NINE MILE POINT NUCLEAR STATION UNIT #2

SHIFT TURNOVER CHECKLIST DATA SHEET

Date ___/_/___

	· · ·	NORMAL <u>POSITION/CONDITION</u> (Circle Running	<u>CONDITI</u>	N NORMAL ON (1) C Yes/No	
2.	SYSTEM AVAILABILITY	<u> Component) </u>			
*2.3.21	LPCI 'C' in Standby with Suction Valve (MOV1C) open manual injection B.V. (HCV53C) open, & P1C in NORMAL-AFTER-STOP. Sys. Press. Pump running.	Standby	/	/	· /
2.3.22	LPCI 'B' & 'C' Reset	De-energized			_/
2.3.23	Standby Liquid Pumps 1A & 1B Test/Norm Switch.	Normal	/		,
*2.3.24	Standby Liquid Control Sys in Standby with MOVIA & MOVIB shut, Standby Liquid Control Pumps in Norm, Squib Valve ready Lights Lit, Outboard Iso Stop Chk Valves Open and Manual Injection Isol. valve open.	Standby	· /		· /
*2.3.25	HPCS in Standby with MOV101 Open, & P1 in NORMAL-AFTER- STOP, HPCS Injection Manual B.V Open, HPCS Press Pump running and other sys. components in Auto. (MOV110 de-energized)	Standby	/	/	/
2.3.26	HPCS Manual initiation seal in reset	De-energized	/	/	/
REMARKS	:				
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NINE MILE POINT NUCLEAR STATION UNIT #2

70N 3

SHIFT TURNOVER CHECKLIST DATA SHEET

Date ___/ /___

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	· `.	NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	IN NORMAL <u>CONDITION (7) COLUMN</u> <u>Yes/No Yes/No Yes/No</u>
2.	SYSTEM AVAILABILITY	Component/	
2.4	2CEC*PNL852		
*2.4.1	Emer 4KV-Div I in Standby with Emer. Diesel Gen 1 and Emer. Diesel Gen 1 Output Bkr Control switches in NORMAL- AFTER STOP. Emer. Diesel Gen Neutral Bkr 101-N1 Closed.		, ////
2.4.2	Div I Voltage Reg. Mode Selector	Auto	
2.4.3	Emer. Diesel Gen. l Parallel Switch	Off	/
2.4.4	Emer. Diesel Gen. LOCA Bypass Switch	Off	///_/
2.4.5	Bus 101 being fed from offsite pwr. and both EJS* X1A & X1B XFMRS are energized with one supplying pwr to EJS*US1	Energized	///
2.4.6	Service Water to/from Emer. Diesel Gens. 1, 2 & 3.	Auto	
*2.4.7	Emer 4KV-Div II in Standby with Emer Diesel Gen. 3 and Emer. Diesel Gen 3 Output Bkr Control switches.in NORMAL-AFTER-STOP. Emer Diesel Gen Neutral Bkr 103-N1 Closed	Standby	/ / /
REMARKS	·		

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NINE MILE POINT NUCLEAR STATION UNIT #2

TCN 3

SHIFT TURNOVER CHECKLIST DATA SHEET

Date ___/_/___

		NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	IN NORMAL <u>CONDITION (/) COLUMN</u> <u>Yes/No Yes/No Yes/No</u>
2.	SYSTEM AVAILABILITY	Componenty	
2.4.8	Div II Voltage Reg Mode Selector	Auto	
2.4.9	Emer. Diesel Gen. 3 Parallel Switch	Off	
2.4.10	Emer. Diesel Gen. 3 LOCA Signal Bypass Switch	Off	
2.4.11	Bus 103 being fed from offsite pwr and both EJS*X3A & X3B XFMRS are energized with one supplying pwr to EJS*US3.	Energized	· · · · · · · · · · · · · · · · · · ·
*2.4.12	Emer. 4KV-HPCS in Standby with Emer Diesel Gen. and Emer Diesel Gen. 2 Output Bkr Control switches in NORMAL-AFTER-STOP.	Standby	
2.4.13	Emer. Diesel Gen. 2 Manual Transfer Local Remote Control switch	Remote Manual	
2.4.14	Emer. Diesel Gen. 2 LOCA Signal Bypass switch	Off	
2.4.15	Bus 102 being fed from Offsite pwr and EHS*MCC201 is energized	Energized	//′/_
2.4.16	Norm. Sta. Service Supplying 13.8 Kv to Bus 001 & 003	Energized	
2.4.17	Aux. Blr. XFMR energized	Energized	
REMARKS			
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NINE MILE POINT NUCLEAR STATION UNIT #2

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SHIFT TURNOVER CHECKLIST DATA SHEET

Date ___/_/___

	```````````````````````````````````````	NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	IN NORMAL <u>CONDITION (/) COLUMN</u> <u>Yes/No Yes/No Yes/No</u>
2.	SYSTEM AVAILABILITY		
2.4.18	Offsite pwr (Line 5 and 6) aligned supplying Rcs. XFMRS 'A' & 'B'	Energized	
2.4.19	NPS001/003 Bus volts	13.8 kv	
2.4.20	13.8 KV Breaker Control switches 1-1 and 3-1 in NORMAL-AFTER-STOP (NORMAL-AFTER-START WHEN SHU	Standby TDOWN)	
2.4.21	Station Elec Aligned such that all 4.16KV Buses and 600 volt load centers are energized.	Energized	
2.4.22	Main Gen in Normal Lineup supplying pwr to Grid & Norm Sta XFRM		
2.4.23	Res Sta Ser. XFMR 1A LTC Auto – Man Selector	Man	
2.4.24	Res Sta Ser. XFMR 1B LTC Auto – Man Selector	Man	
2.4.25	Norm Sta Ser XFMR LTC Auto - Maņual Selector	Man	
2.5	2CEC*PNL851		
2.5.1	Main Turbine Oil Sys I/S	Running	
REMARKS	:	•	

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### NINE MILE POINT NUCLEAR STATION UNIT #2

#### SHIFT TURNOVER CHECKLIST DATA SHEET

Date ____/ /___

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	· · ·	NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	IN NORMAL <u>CONDITION (√) COLUMN</u> Yes/No Yes/No Yes/No
2.	SYSTEM_AVAILABILITY		
2.5.2	Emer Oil Sys Control switches in NORMAL-AFTER-STOP	; Standby	
2.5.3	Turning Gear Sys Control Swit NORMAL-AFTER-START Lift pump control switches NORMAL-AFTER-START	ches Auto	
2.5.4	EHC Fluid Pump 1A & 1B	A B Running	
2.5.5	Gen Stator Clg Water Pumps IA & IB	A B Running	<u>/</u>
2.5.6	Gland Seal Steam System	In-Service	
2.5.7	Clean Steam Reboiler System	In-Service	
2.5.8	Inst Air Div I & Div II Valves (SOV166, 184 open)	In-Service	
2.5.9	Service Air Div I & Div II Valves	Closed	
2.5.10	Breathing Air Div I & Div II Valves	Closed	
2.5.11	Inst. Air Sys.	A B C Auto	
2.5.12	Breathing Air Sys.	Pull-to-Lock	
2.5.13	Circulating Water Sys.	A B C D E F In-service	TCN-3
REMARKS	: <u></u>		

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#### NINE_MILE_POINT NUCLEAR STATION UNIT #2

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#### SHIFT TURNOVER CHECKLIST DATA SHEET

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Date ___/_/

	• •	NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	IN NORMAL <u>CONDITION (/) COLUMN</u> <u>Yes/No Yes/No Yes/No</u>
2.	SYSTEM AVAILABILITY		
2.5.14	Cooling Tower Distribution Sys.		
2.5.15	Condenser Air Removal Pumps	Available	_/////////////_
2.5.16	Moisture Separator Reheater Sys.	In-service	
2.5.17	Condensate XFR Sys.	In-service	
*2.5.18	Condensate/Feedwater Sys.	In-service	
2.5.19	L.P. Htr strings & H.P. Htrs	In-service	<u> </u>
2.6	Back_of`2CEC*PNL852		• .
2.6.1	Div. I Bat (2A) Ground Check	No Ground Detected	
2.6.2	Div. II Bat (2B) Ground Check	No Ground Detected	
2.6.3	Div. III Bat (2C) Ground Chec	k No Ground ,Detected	
2.6.4	Battery 1A Ground Check	No Ground Detected	
2.6.5	Battery 1B Ground Check	No Ground Detected	
2.6.6	Battery 1C Ground Check	No Ground Detected	
REMARKS			·······

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#### NINE MILE POINT NUCLEAR STATION UNIT #2

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#### SHIFT TURNOVER CHECKLIST DATA SHEET

Date ___/_/___

2.	SYSTEM AVAILABILITY	<u>Component</u> )	
2.7	<u>2CEC-PNL824</u>		
2.7.1	Non-Group Drain Valves	As Required	
2.7.2	Group I Drain Valves	Auto & Closed	////
2.7.3	Group II Drain Valves	Auto & Closed	//
2.7.4	Group III Drain Valves	Auto & Closed	
2.7.5	Extraction Steam MOV's	Open	
2.7.6.1	Scavenging Steam AOV's	Auto	<u> </u>
2.7.6.2	Blanketing Override switch	Auto	
2.7.6.3	AOV's 86 A&B, 81 A,B &C, 83 A	&B Open	
2.7.6.4	AOV 82 A&B, 84 A&B	Closed	
2.7.6.5	MSS-AOV87A-D, 88A,B	Open	
2.8	<u>2CEC-PNL849</u>		
2.8.1	All Zone switches	Auto	_///
2.8.2	Electric fire System Pump (P2	) Auto	
2.8.3	Generator Hydrogen Dump Valve	Closed	
	Hydrogen Isolation SOV118 & AOV119	Closed	<u>/</u> //
REMARKS:	····_		

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#### NINE_MILE POINT NUCLEAR STATION UNIT #2

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#### SHIFT TURNOVER CHECKLIST DATA SHEET

Date ___/ /___

	· · ·.	NORMAL <u>POSITION/CONDITION</u> (Circle Running Component)	IN NORMAL <u>CONDITION (J) COLUMN</u> <u>Yes/No Yes/No Yes/No</u>
2.	SYSTEM AVAILABILITY	<u>component</u>	
2.9	2CEC-PNL634		1
2.9.1	Hydraulic Power Units 'A' & 'B'	In Service 1A 1B	
<u>NOTE</u> :	Hydraulic Power Units 'A' or 'B' will be 'lead' other will be 'ready'.		
2.10	<u>2CEC*PNL880</u>	Green Power Available Lights Lit (All)	<u> </u>
2.10.1	2CEC*PNL880A	•	
2.10.1.1	2CMS*RUZ10A	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	
2.10.1.2	2HVC*RUZ18A	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	////////////////////////////////////////////////////////////////////////_/
2.10.1.3	2HVC*RUZ18C	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	,////
2.10.1.4	2HVR*RUZ14A	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	,/ / /
2.10.1.5	2HVR*RUZ32A ·-	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	, <u>    /                                </u>
2.10.2.	2CEC*PNL880B		
2.10.2.1	2RMS*RUZ1A	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	,

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#### NINE MILE POINT NUCLEAR STATION_UNIT #2

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#### SHIFT TURNOVER CHECKLIST DATA SHEET

Date ___/ /____

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		NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	<u>CONDITI</u>	N NORMAL <u>ON (√) C</u> <u>Yes/No</u>	OLUMN
2.10.2.2	2RMS*RUZ1C	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	; <u>     /    </u>	/	/
2.10.2.3	2SWP*RUZ23A	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	/		/
2.10.2.4	2SWP*RUZ146A	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	, <u> </u>	_/	· . · · .
2.10.3	2CEC*PNL880C				•
2.10.3.1	2CMS*RUZ10B	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	;, <u> </u>	/	<u> </u>
2.10.3.2	2HVC*RUZ18B	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	,/	/	/
2.10.3.3	2HVC*RUZ18D	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	, <u> </u>	/	/
2.10.3.4	2HVR*RUZ14B	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	,/	/	/
2.10.3.5	2HVR*RUZ32B ·-	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	,/	/	/
2.10.4	2CEC*880D	•			
2.10.4.1	2RMS*RUZ1B	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	,/	/	/
2.10.4.2	2RMS*RUZ1D	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	,/	/	/

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#### NINE MILE POINT NUCLEAR STATION UNIT #2

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#### SHIFT TURNOVER CHECKLIST DATA SHEET

			Date	/	/
	· · ·	NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component</u> )	CONDITI	N NORMAL ON (7) ( Yes/No	OLUMN
2.10.4.3	2SWP*RUZ23B	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	,/	/	/
2.10.4.4	2SWP*RUZ146B	Green Power Light Lit No Other Lights Lit, Lamp Test Sat	,/	/	/
2.11	<u>2CEC-PNL628</u>				
2.11.1	Suppr. Pool/Drywell	Closed	/		
2.11.2	ADS – Safety/Relief Valves	s Auto & Closed	_/	/	 
2.12	2CEC-PNL632			-	
2.12.1	Isol. bypass keylock switches	Norma 1	/	/	/
2.13	2CEC-PNL631				
2.13.1	ADS – Safety/Relief Valve	es Auto & Closed	<u> </u>	_/	/
2.14	Tip Control and Monitorin Instrument Panel				
2.14.1	All 5 Squib Monitors	De-Energized	/	/	/
REMARKS:					
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#### NINE MILE POINT NUCLEAR STATION UNIT #2

SHIFT TURNOVER CHECKLIST DATA SHEET
Date ____/_/___

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	· · ·	NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	IN NORMAL <u>CONDITION (/) COLUMN</u> <u>Yes/No Yes/No Yes/No</u>
2.	SYSTEM AVAILABILITY		
2.14.2	All 5 Shear Vlv Monitors	De-Energized	
2.14.3	All 5 Ball Valves	Closed	_///_
2.15	<u>2CEC-PNL642</u>		
2.15.1	Isol. bypass keylock switches	s Normal	
2.16	2CEC*PNL873		~
2.16.1	Equipment & Floor Drain System	Auto	 
2.16.2	Drywell Cooling Sys.	In-Service	
2.16.3	Containment Amt. Monitoring Sys.	In-Service Selected to D.W. Path #5	
2.16.4	Spent Fuel Cooling & Cleanup 'A'	A Available/ In-service	
2.16.5	Hydrogen Recombiner 1A	Standby	
2.16.5.1	Primary Cont. Purge System	Standby	
2.17	2CEC*PNL870		
2.17.1	Standby Gas Treatment Sys.	Auto	
REMARKS:	•		

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## NINE_MILE_POINT_NUCLEAR_STATION_UNIT_#2

ITCN-3

#### SHIFT TURNOVER CHECKLIST DATA SHEET

Date ____/ /___

	` · :	NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	IN NORMAL <u>CONDITION (4) COLUMN</u> <u>Yes/No Yes/No Yes/No</u>
2.	SYSTEM AVAILABILITY		
2.17.2	Rx Bldg Vent Sys.	Auto & Standby	
2.17.3	Control Bldg HVAC Sys.	A Auto/ In-service	/
2.17.4	Diesel Gen Bldg Vent Sys.	Auto	· ///
2.17.5	Screenwell Bldg Vent Sys. (Service Water Pump Bay A)	1 UC Auto 1 UC PTL	<u> </u>
2.18	2CEC*PNL875		
2.18.1	Containment Atm. Monitoring	In-Service Selected to D.W. Path #5	
2.18.2	Spent Fuel Cooling & Cleanup 'B'	B Available/ In-Service	///
2.18.3	Hydrogen Recombiner 1B	Standby	
2.18.4	Primary Containment Purge Sys.	Standby	
2.19	2CEC*PNL871		
2.19.1	Standby Gas Treatment Sys.	Auto	
REMARKS	:		•
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#### NINE MILE POINT NUCLEAR STATION UNIT #2

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TCN-3

#### . SHIFT TURNOVER CHECKLIST DATA SHEET

Date ___/__/

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2.	SYSTEM_AVAILABILITY	NORMAL <u>POSITION/CONDITION</u> (Circle Running <u>Component)</u>	CONDITI	N NORMAL <u>ON (√) CO</u> <u>Yes/No</u>	
2.19.2	Reactor Building Vent				
2.19.2	Sys.	Auto/In-Service	/	/	
2.19.3	Control Building HVAC Sys.	B Auto/In-Service	/		/
2.19.4	Diesel Gen Bldg Vent Sys.	Auto	/	/	/
2.19.5	Screenwell Bldg Vent Sys. (Service Water Pump Bay B)	1 UC Auto 1 UC PTL	/	/_`	
2.19.6	Reactor Bldg Vent (HPCS Rm)	Auto	/		/
2.19.7	Control Bldg HVAC (HPCS SWGR Rm)	Auto	/	/	·/
2.19.8	Diesel Gen Bldg Vent	Auto	_/_		/
2.18	2CEC*PNL610				
2.18.1	MG sets Gen. Power Source Select switch	Norm		/	/
2.19	2CEC*PNL609				
2.19.1	All Logic Test Switches	Norm	/	_/	/
2.20	2CEC*PNL611 ·.			,	
2.20.1	All Logic Test Switches	Norm	/		/

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#### SHIFT TURNOVER CHECKLIST DATA SHEET

#### Shift Turnover Checklist Completed by Oncoming CSO

Signature	/ Time
Signature	Time
	/
Signature	Time

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Page 1 of 1	4	
<u>UNIT #2</u>		
Attachment	7 .	
OF	PERATIONS	

BUILDING TURNOVER SHEET

Unit #2 Mode_____

Date_____

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#### BUILDING STATUS

CHANGES IN CONFIGURATION:

<u>SPECIAL EQUIPMENT STATUS (OFF NORMAL)</u>: Includes work in progress. Work out of normal lineups. (i.e. temp sump pumping, draining of systems, valve lineups, backwashes, or deliveries, etc.)

MAJOR EQUIPMENT OUTAGES:

#### GENERAL ADDITIONAL INFORMATION:

Includes surveillances performed or in progress, markups hung or removed, WR's submitted, etc.

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**OPS SIGNATURE** 

00–0800_____ 0800–1600_____ 1600–2400_____

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