

OPERATIONS DEPARTMENT INSTRUCTION

N2-ODI-3.01
Rev. 5
(TCN-8)

SHIFT TURNOVER GUIDELINES

Approved: *[Signature]*
FOR INFORMATION ONLY

1.0 PURPOSE

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, Shift Changeover Procedure.

2.0 RESPONSIBILITY

- 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 required 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.)

5/4/371 332P

10

3.0

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
 4. Surveillance Schedule
 5. Mark-ups

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

4
2

100

3.0 (Cont'd)

- 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.

12

12

12

12

12

12

12

9 MILE POINT NUCLEAR STATION UNIT #2
STATION SHIFT SUPERVISOR TURNOVER CHECKLIST

PART I (Cont'd)

Change in Equipment in limiting condition of operation.

	<u>System Component</u>	<u>Date and Time In</u>	<u>Length of Time Allowed</u>	<u>Due Date and Time</u>
1.	_____	____/____/____	_____	____/____/____
2.	_____	____/____/____	_____	____/____/____
3.	_____	____/____/____	_____	____/____/____
4.	_____	____/____/____	_____	____/____/____

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

- | | |
|--|---|
| <input type="checkbox"/> Review Plant Equipment Status Log | <input type="checkbox"/> Review Key Log |
| <input type="checkbox"/> Night Orders/Standing Orders | <input type="checkbox"/> Review/Sign Shift Checks |
| | <input type="checkbox"/> Review and Sign Logs |

Mode Switch: Shutdown____ Refueling____ Startup____ Run____
 Rx Level____ (178.3-187.3)* Core Flow____ ($\leq 113.925 \times 10^6$ lbm/hr)*
 Press____ (≤ 1020)* MWT____ (≤ 3323 MWT)*

*Acceptable Criteria for Normal Operation (A (✓) is acceptable)

Remarks: _____

Off-Going S.S.S. _____ / _____ / _____
 Name Date Time

PART III To be reviewed/accomplished by On-Coming S.S.S. shortly after assuming shift. (Check Box)

- | | |
|---|---|
| <input type="checkbox"/> Night Orders/Standing Orders/O.D.I.S Minimum Shift Crew Composition | <input type="checkbox"/> Review S.S.S. Log |
| <input type="checkbox"/> SRO (2) | <input type="checkbox"/> Review Markups to be hung or issued for next day, or shift |
| <input type="checkbox"/> RO (4) | <input type="checkbox"/> Computer Alarm Summary |
| <input type="checkbox"/> NLOT (2) | <input type="checkbox"/> Water Inventory (Midshift Only) |
| <input type="checkbox"/> Firebrigade (5) | <input type="checkbox"/> Shift Rounds Sheets (Midshift Only) |
| <input type="checkbox"/> Rad Tech (1) | <input type="checkbox"/> Tour Control Room Panels |
| <input type="checkbox"/> Plant Equipment Status Log | <input type="checkbox"/> Review and sign previous two shifts CSO Log |
| <input type="checkbox"/> Review Chemistry Data | |
| <input type="checkbox"/> Review Changes Since Last on Shift of the Jumper, Lifter Lead and Defeated Annunciator Records | |
| <input type="checkbox"/> Conduct Shift Briefing | |

On-Coming S.S.S. _____ / _____ / _____
 Name Date Time

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

ASSISTANT STATION SHIFT SUPERVISOR TURNOVER CHECKLIST

PART I (Cont'd)

Change in Equipment in limiting condition of operation.

	<u>System Component</u>	<u>Date and Time In</u>	<u>Length of Time Allowed</u>	<u>Due Date 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
- Night Orders/Standing Orders
- Review Key Log
- Review/Sign Shift Checks
- Review and Sign Logs

Mode Switch: Shutdown____ Refueling____ Startup____ Run____
 Rx Level____ (178.3-187.3)* Core Flow____ ($\leq 113.925 \times 10^6$ lbm/hr)*
 Press____ (≤ 1020)* MWT____ (≤ 3323 MWT)*

*Acceptable Criteria for Normal Operation (A (✓) is Acceptable)

Off-Going A.S.S.S. _____ / _____ / _____
 Name Date Time

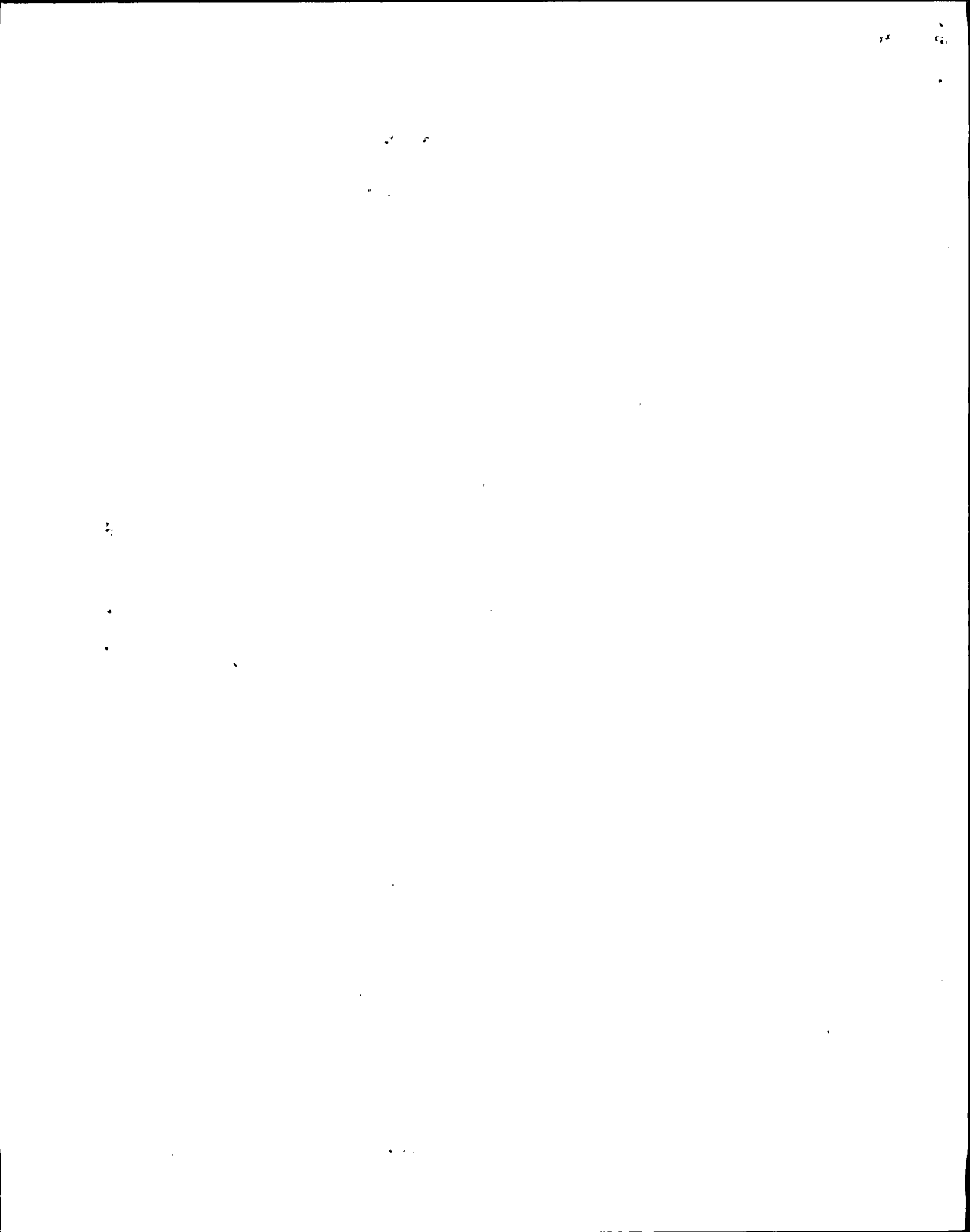
PART III To be reviewed/accomplished by On-Coming A.S.S.S. shortly after assuming shift. (Check Box)

- Night Orders/Standing Orders/O.D.I.S Minimum Shift Crew Composition
- SRO (2)
- RO (4)
- NLOT (2)
- Firebrigade (5)
- Rad Tech (1)
- Plant Equipment Status Log
- Review Chemistry Data
- Review Changes Since Last on Shift of the Jumper, Lifter Lead and Defeated Annunciator Records
- Review Lube Schedule (Swingshift)
- Review PMT Drawer and perform as plant conditions allow
- Review S.S.S. Log
- Review Markups to be hung or issued for next day, or shift
- Computer Alarm Summary
- Water Inventory (Midshift Only)
- Shift Rounds Sheets (Midshift Only)
- Tour Control Room Panels
- If in Operational Condition 1, 2 or 3, verify GETARS in Sentinel Mode.

On-Coming A.S.S.S. _____ / _____ / _____
 Name Date Time

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

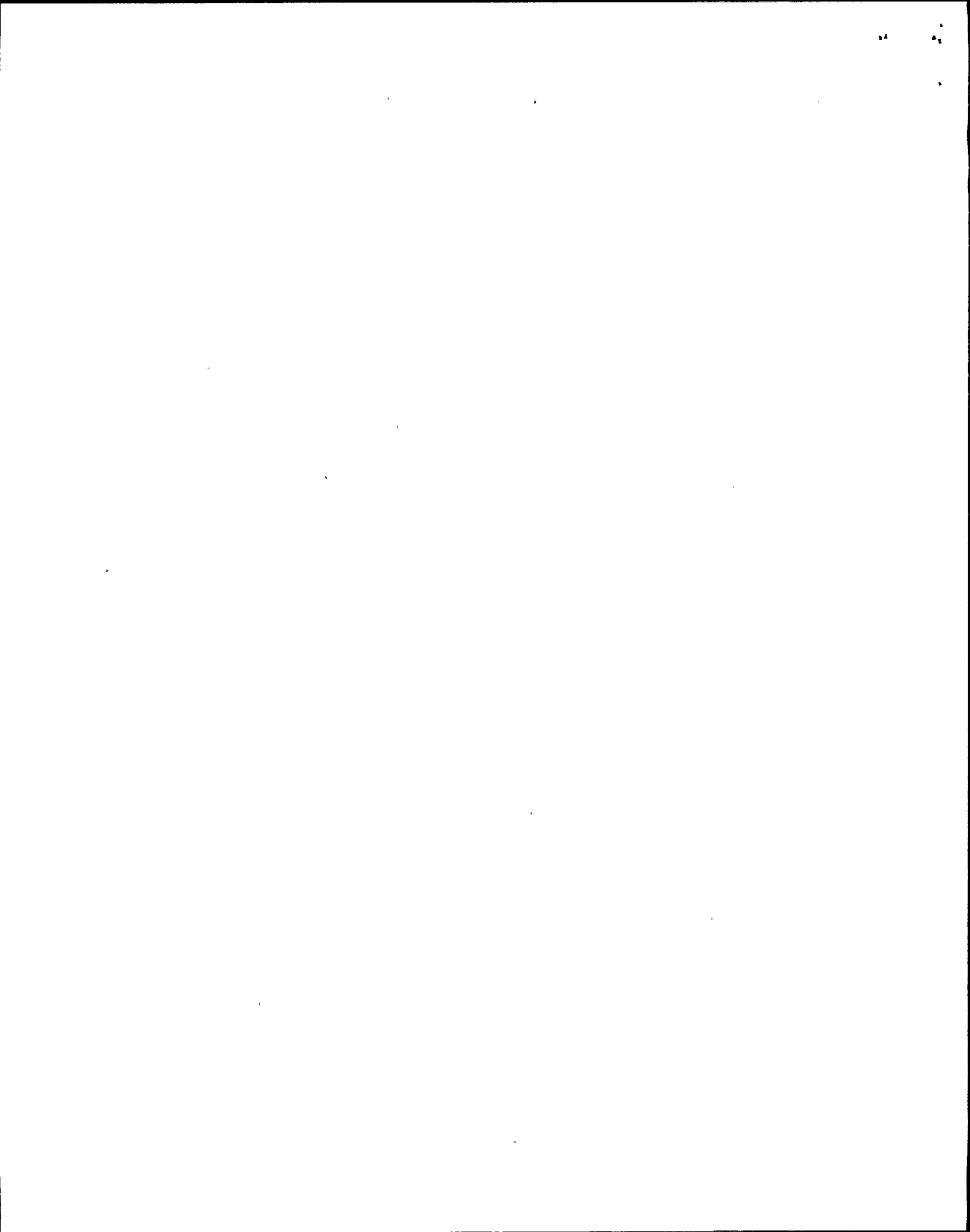
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

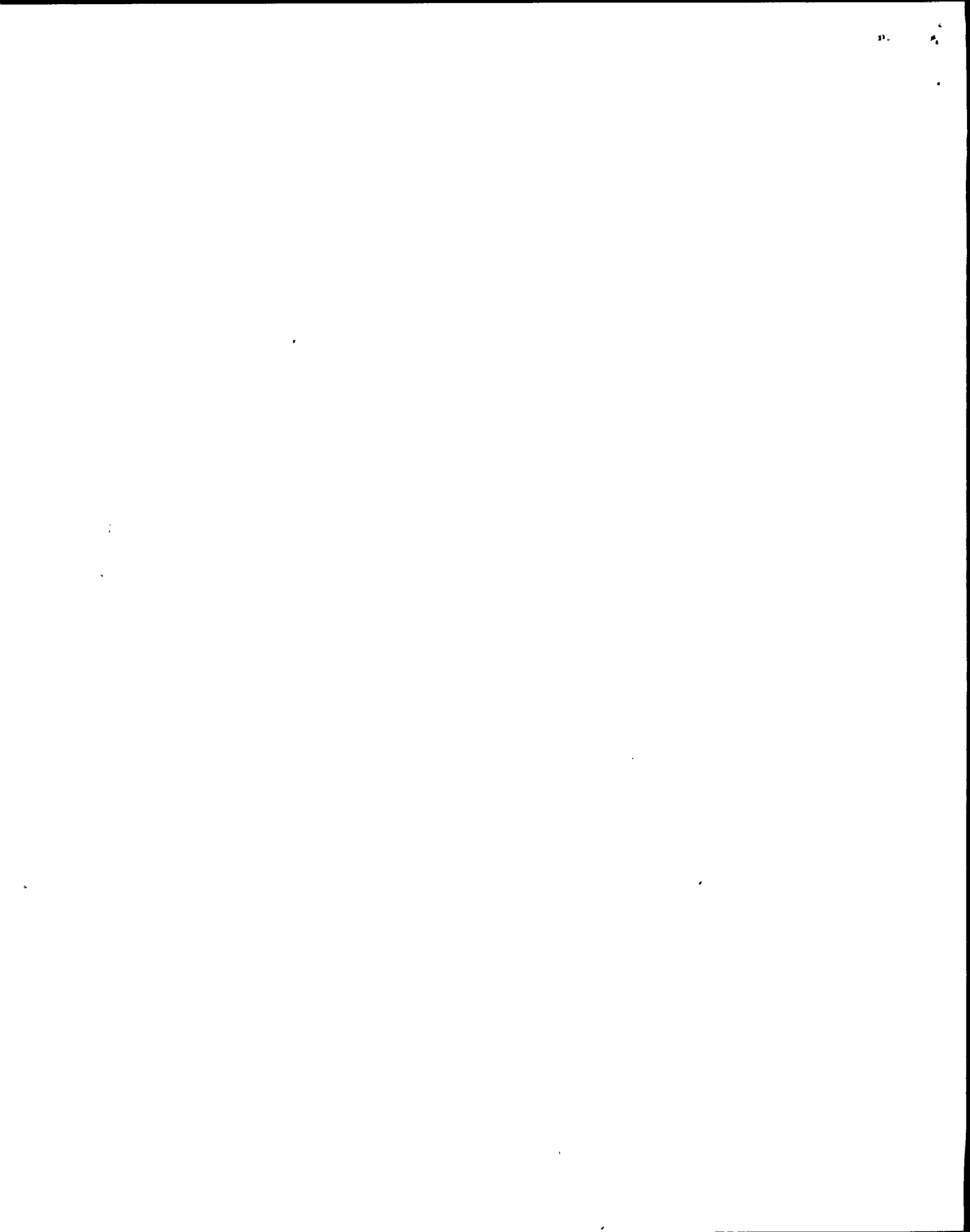


1000

.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100





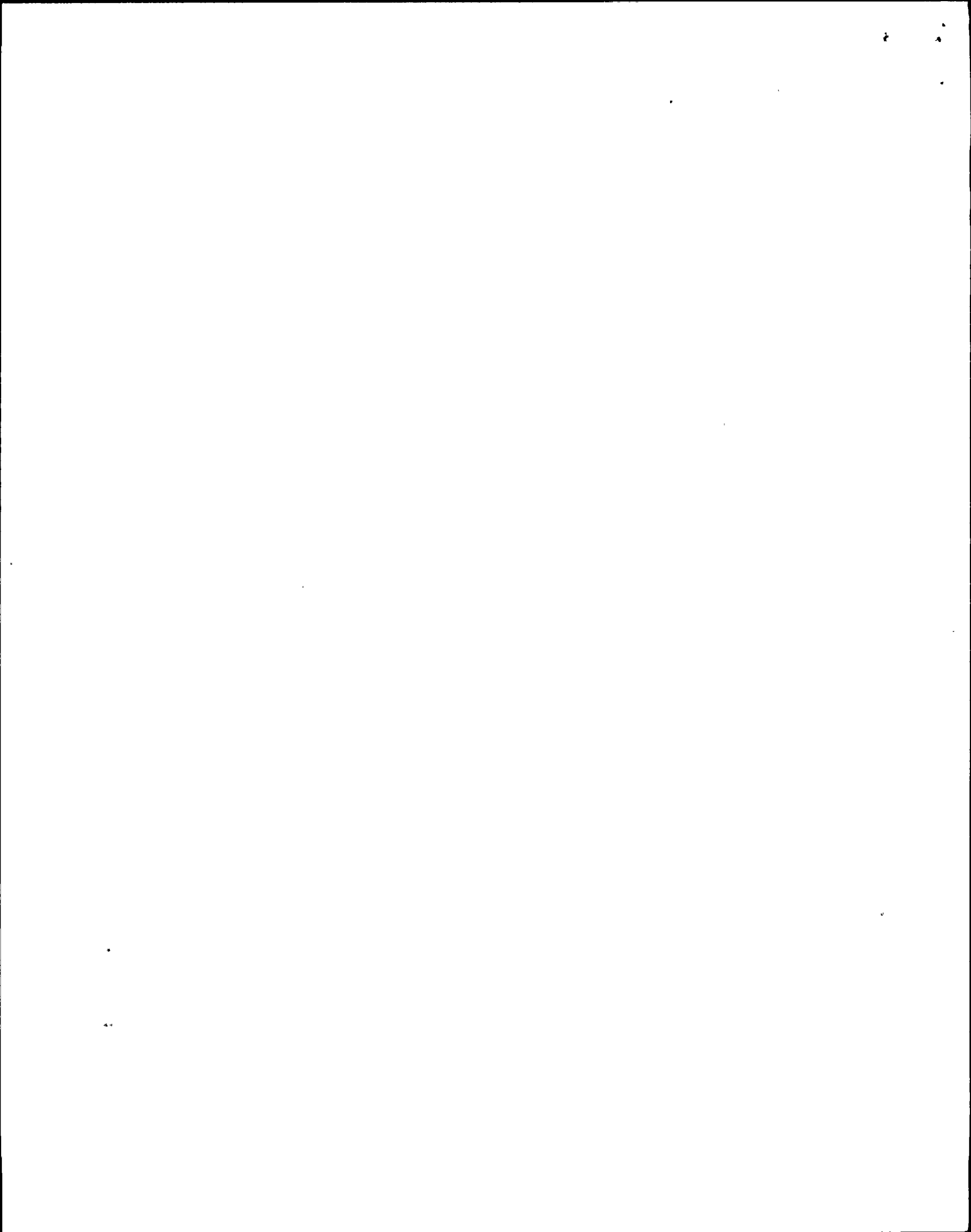
SHIFT TURNOVER CHECKLIST DATA SHEET

	Date <u> </u> / <u> </u> / <u> </u>		
	00-08	08-16	16-24
1. <u>CRITICAL PARAMETERS</u> (Enter Value)			
1.1 Mode Switch Position	_____	_____	_____
1.2 Rx Water Level (178.3-187.3")*	_____	_____	_____
1.3 Reactor Pressure (≤ 1020 PSIG)*	_____	_____	_____
1.4 Reactor Temperature ($^{\circ}$ F)	_____	_____	_____
1.5 Condensate Conductivity (μ mho/cm)	_____	_____	_____
1.6 Steam Flow ($\times 10^6$ #/Hr)	_____	_____	_____
1.7 Feedwater Flow ($\times 10^6$ #/Hr)	_____	_____	_____
1.8 Core Flow ($\leq 113.925 \times 10^6$ #/Hr)*	_____	_____	_____
1.9 Core Thermal Power (≤ 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 ($^{\circ}$ F)	_____	_____	_____
1.15 Verify LED's for each computer printer lit:	_____	_____	_____
a. On Line			
b. Power on			

TCN-8

REMARKS: _____

*Acceptable Criteria For Normal Operation



NINE MILE POINT NUCLEAR STATION UNIT #2

SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

NORMAL POSITION/CONDITION
(Circle Running Component)

IN NORMAL CONDITION (✓) COLUMN
Yes/No Yes/No Yes/No

2. SYSTEM AVAILABILITY

2.1 2CEC*PNL603

*2.1.1 CRD System Operability with 1 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

 / / /

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 Bypass

 / / /

2.2 2CEC*PNL602

*2.2.1 Rx Recirculation system in Hi-speed with both Loop Controllers in manual.

In-Service

 / / /

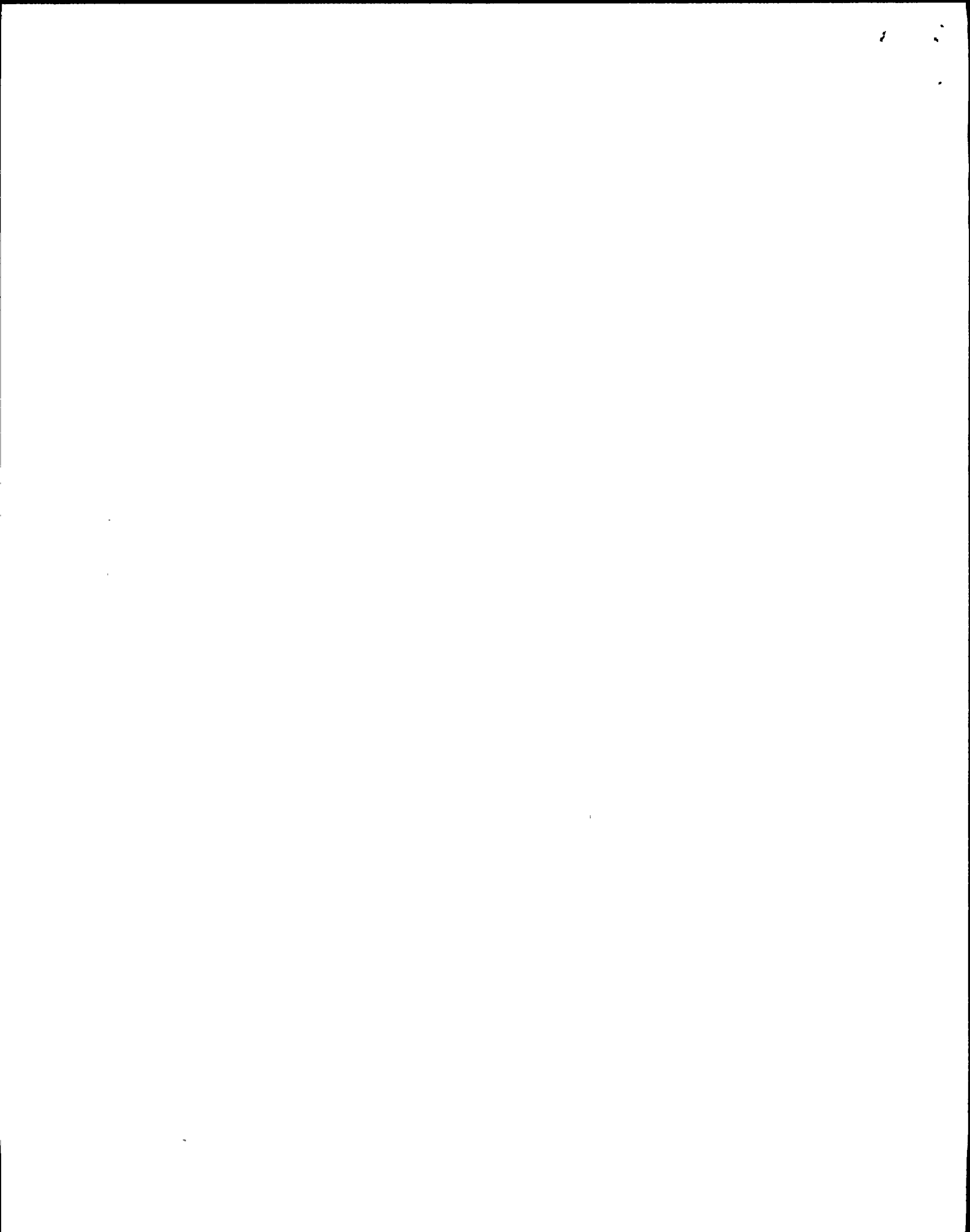
TCN-3

2.2.2 RBCLC To/From Recirc Pump Coolers

Auto & Open

 / / /

REMARKS: _____



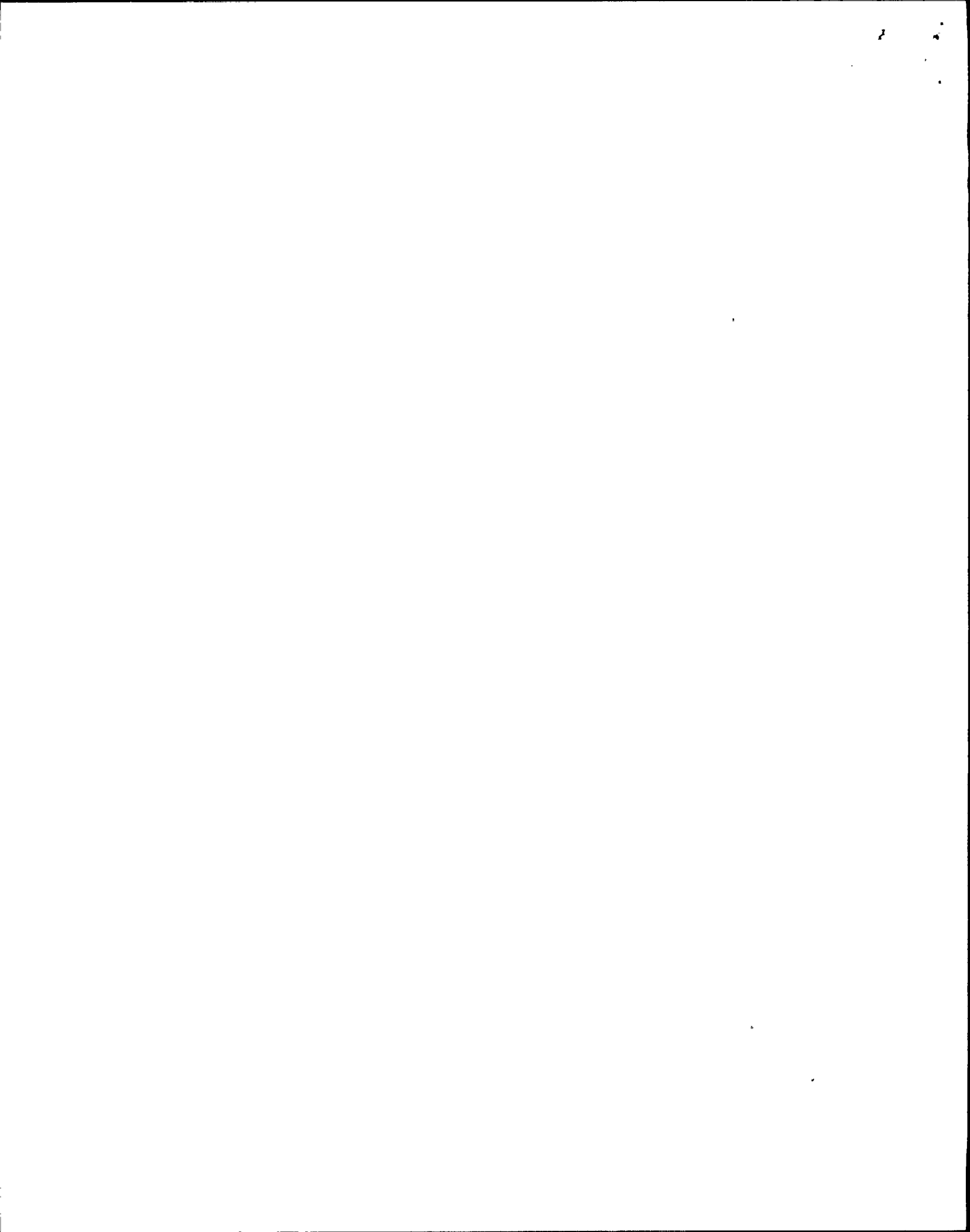
SHIFT TURNOVER CHECKLIST DATA SHEET

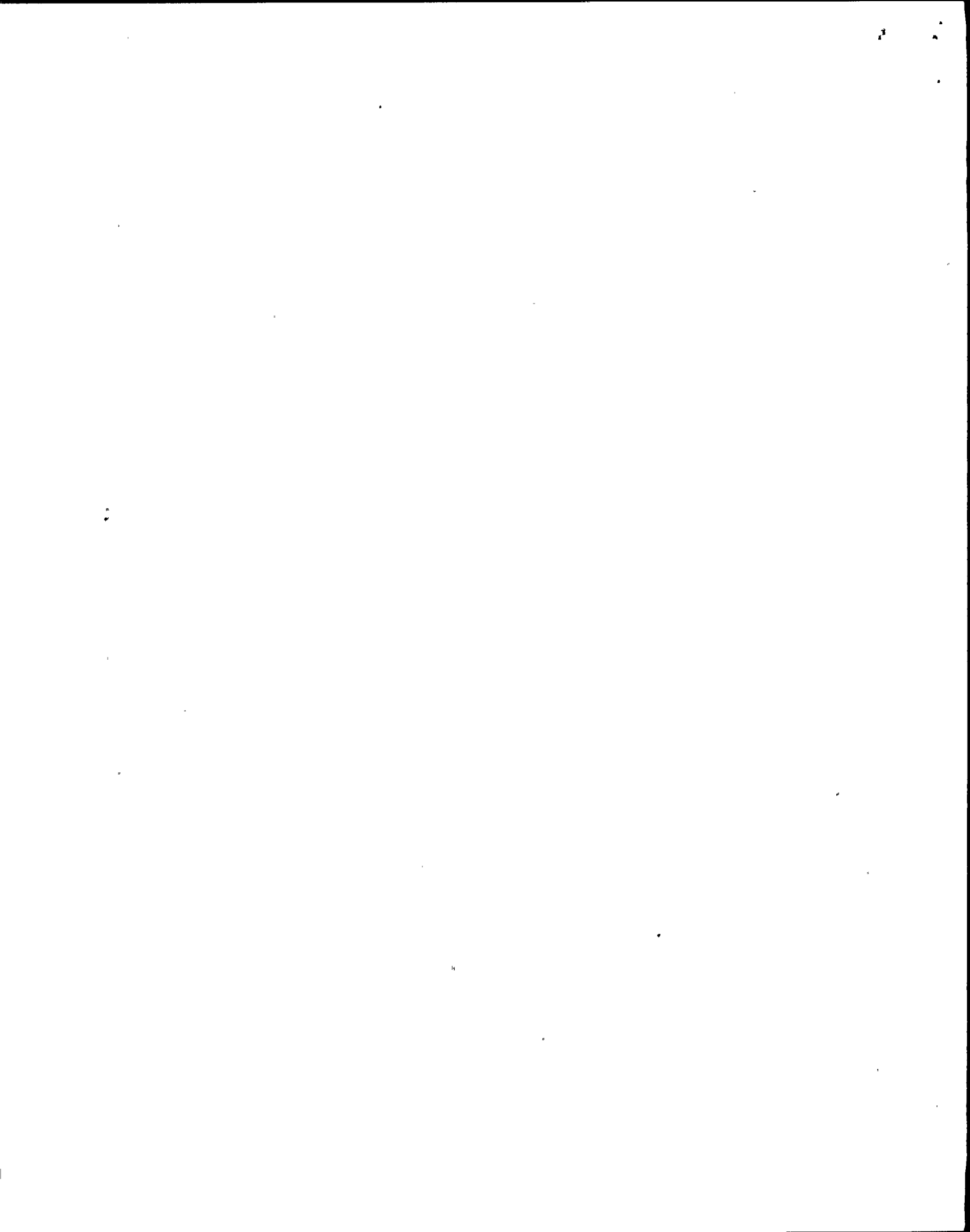
Date / /

	NORMAL <u>POSITION/CONDITION</u> (Circle Running Component)	IN NORMAL CONDITION (✓) COLUMN		
		<u>Yes/No</u>	<u>Yes/No</u>	<u>Yes/No</u>
2.	<u>SYSTEM AVAILABILITY</u>			
2.2.5	MSIV's Auto	<u> / </u>	<u> / </u>	<u> / </u>
2.2.6	Main Steam Line Drains (MOV112 de-energized) Auto & Closed	<u> / </u>	<u> / </u>	<u> / </u>
2.2.7	Rx Vessel Head Vent Aligned to MSL (MOV108) Open	<u> / </u>	<u> / </u>	<u> / </u>
2.2.8	Rx Vessel Head Vent to Supp Pool (MOV118 & MOV119) Closed	<u> / </u>	<u> / </u>	<u> / </u>
2.2.9	MSL Press Eq/Warming (MOV187) Closed	<u> / </u>	<u> / </u>	<u> / </u>
2.2.10	RWCU in Operation w/Suction F/D - A B C D from RPV Bottom Head and Pump - A B both Recirc Loops, one Pump running, 2-F/D's I/S and no Reject Flow In-Service	<u> / </u>	<u> / </u>	<u> / </u>
2.2.11	PCIS Mimic Lights De-energized	<u> / </u>	<u> / </u>	<u> / </u>
2.2.12	Man. Isol. (Amber lights) De-energized	<u> / </u>	<u> / </u>	<u> / </u>
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	<u> / </u>	<u> / </u>	<u> / </u>
2.3.2	TBCLC I/S w/at least 1 A B C pump running and others in NORMAL-AFTER-STOP Auto	<u> / </u>	<u> / </u>	<u> / </u>

TCN-8

REMARKS: _____



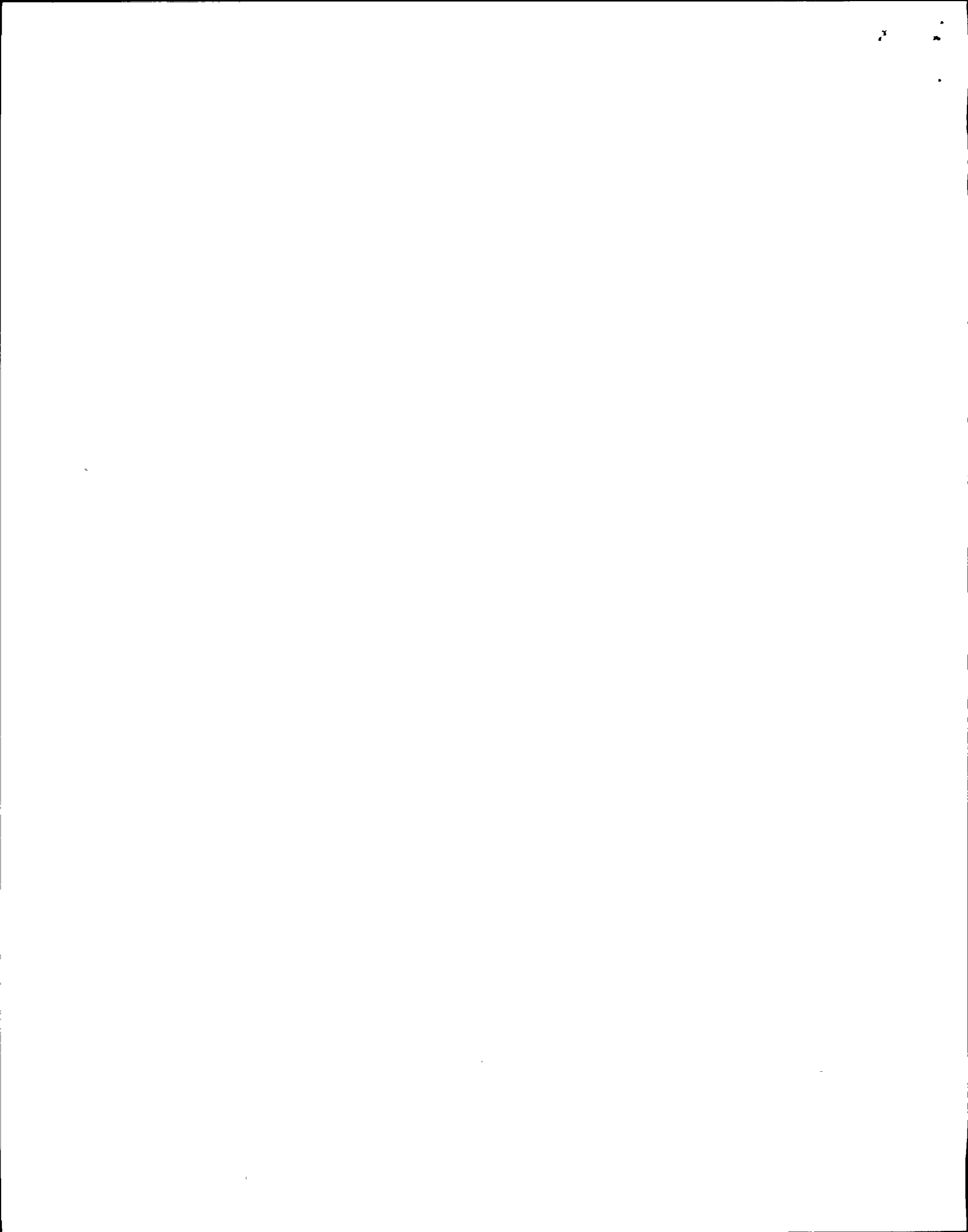


SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

	<u>NORMAL POSITION/CONDITION (Circle Running Component)</u>	<u>IN NORMAL CONDITION (✓) COLUMN</u>		
		<u>Yes/No</u>	<u>Yes/No</u>	<u>Yes/No</u>
2. <u>SYSTEM AVAILABILITY</u>				
*2.3.13	LPCI 'A' is in Standby condition with suction (MOV1A) open and the injection manual B.V. (HCV53A) open and P1A in NORMAL-AFTER-STOP. MOV9A, MOV12A & MOV8A are open.			
	Standby	<u> / </u>	<u> / </u>	<u> / </u>
*2.3.14	Rx vessel depressurization Safety/Relief Valves			
	Auto & Closed	<u> / </u>	<u> / </u>	<u> / </u>
2.3.15	ADS Air Compressor			
	Pull-To-Lock	<u> / </u>	<u> / </u>	<u> / </u>
2.3.16	ADS Air Supply Valves to Drywell			
	Auto	<u> / </u>	<u> / </u>	<u> / </u>
2.3.17	LOCA override switches for SOV164 & SOV165.			
	Reset	<u> / </u>	<u> / </u>	<u> / </u>
2.3.18	RBCLC to/from RHR*PIB			
	Open	<u> / </u>	<u> / </u>	<u> / </u>
2.3.19	Service Water to/from RHR*PIB			
	Closed	<u> / </u>	<u> / </u>	<u> / </u>
*2.3.20	LPCI 'B' in Standby with Suction Valve (MOV1B) open and the injection manual B.V. (HCV53B) open, & PIB in NORMAL-AFTER-STOP. MOV9B, MOV12B & MOV8B are open.			
	Standby	<u> / </u>	<u> / </u>	<u> / </u>

REMARKS: _____



NINE MILE POINT NUCLEAR STATION UNIT #2

SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

	<u>NORMAL POSITION/CONDITION (Circle Running Component)</u>	<u>IN NORMAL CONDITION (✓) COLUMN</u>			
		<u>Yes/No</u>	<u>Yes/No</u>	<u>Yes/No</u>	
2. <u>SYSTEM AVAILABILITY</u>					
*2.3.21	LPCI 'C' in Standby with Suction Valve (MOV1C) open manual injection B.V. (HCV53C) open, & PIC in NORMAL-AFTER-STOP. Sys. Press. Pump running.	Standby	<u> / </u>	<u> / </u>	<u> / </u>
2.3.22	LPCI 'B' & 'C' Reset	De-energized	<u> / </u>	<u> / </u>	<u> / </u>
2.3.23	Standby Liquid Pumps 1A & 1B Test/Norm Switch.	Normal	<u> / </u>	<u> / </u>	<u> / </u>
*2.3.24	Standby Liquid Control Sys in Standby with MOV1A & MOV1B 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	<u> / </u>	<u> / </u>	<u> / </u>
*2.3.25	HPCS in Standby with MOV101 Open, & PI in NORMAL-AFTER-STOP, HPCS Injection Manual B.V.. Open, HPCS Press Pump running and other sys. components in Auto. (MOV110 de-energized)	Standby	<u> / </u>	<u> / </u>	<u> / </u>
2.3.26	HPCS Manual initiation seal in reset	De-energized	<u> / </u>	<u> / </u>	<u> / </u>

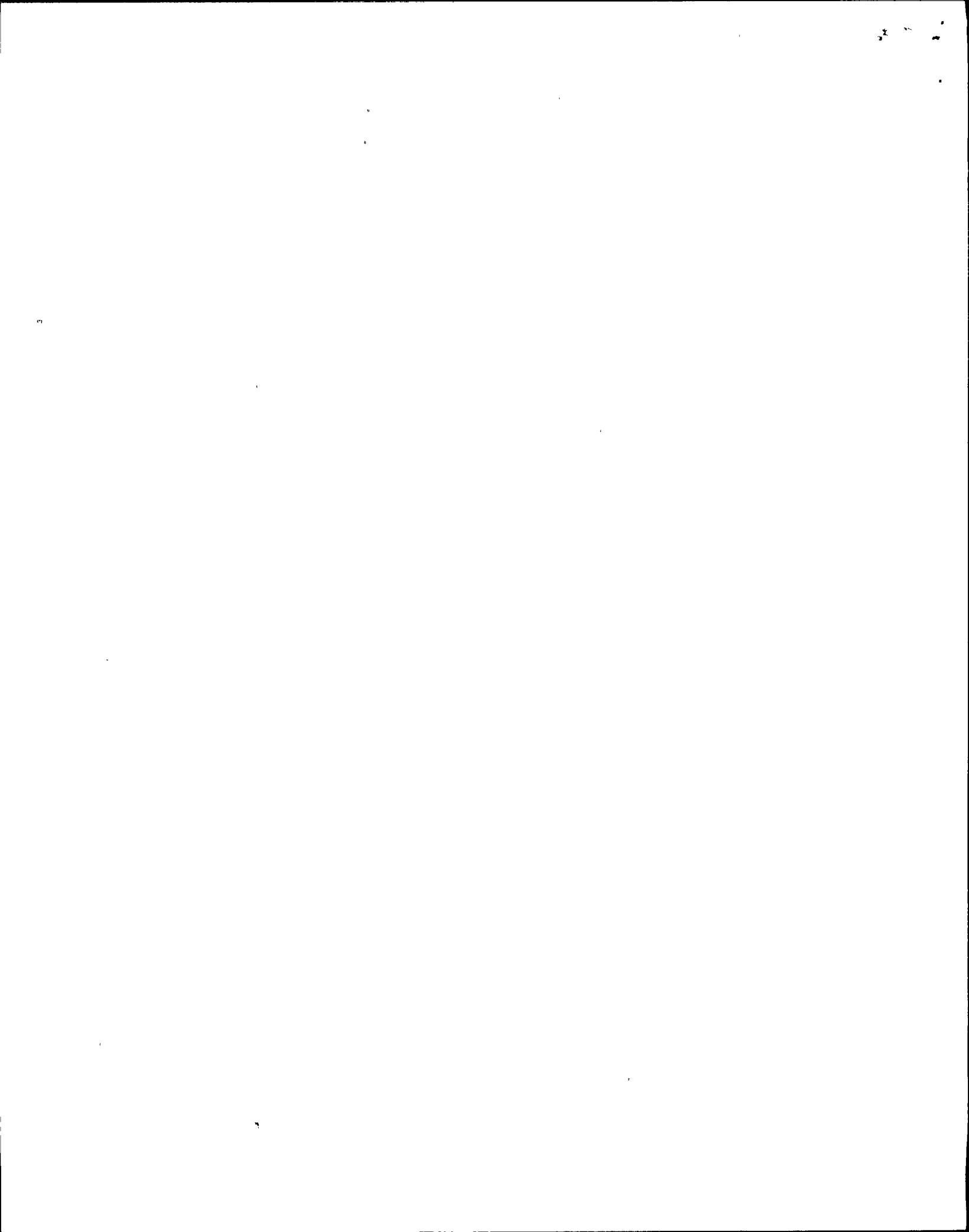
REMARKS: _____

SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

	NORMAL <u>POSITION/CONDITION</u> (Circle Running Component)	IN NORMAL CONDITION (✓) COLUMN			
		<u>Yes/No</u>	<u>Yes/No</u>	<u>Yes/No</u>	
<u>2. SYSTEM AVAILABILITY</u>					
<u>2.4 2CEC*PNL852</u>					
*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.	Standby	<u> / </u>	<u> / </u>	<u> / </u>
2.4.2	Div I Voltage Reg. Mode Selector	Auto	<u> / </u>	<u> / </u>	<u> / </u>
2.4.3	Emer. Diesel Gen. 1 Parallel Switch	Off	<u> / </u>	<u> / </u>	<u> / </u>
2.4.4	Emer. Diesel Gen. LOCA Bypass Switch	Off	<u> / </u>	<u> / </u>	<u> / </u>
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	<u> / </u>	<u> / </u>	<u> / </u>
2.4.6	Service Water to/from Emer. Diesel Gens. 1, 2 & 3.	Auto	<u> / </u>	<u> / </u>	<u> / </u>
*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	<u> / </u>	<u> / </u>	<u> / </u>

REMARKS: _____

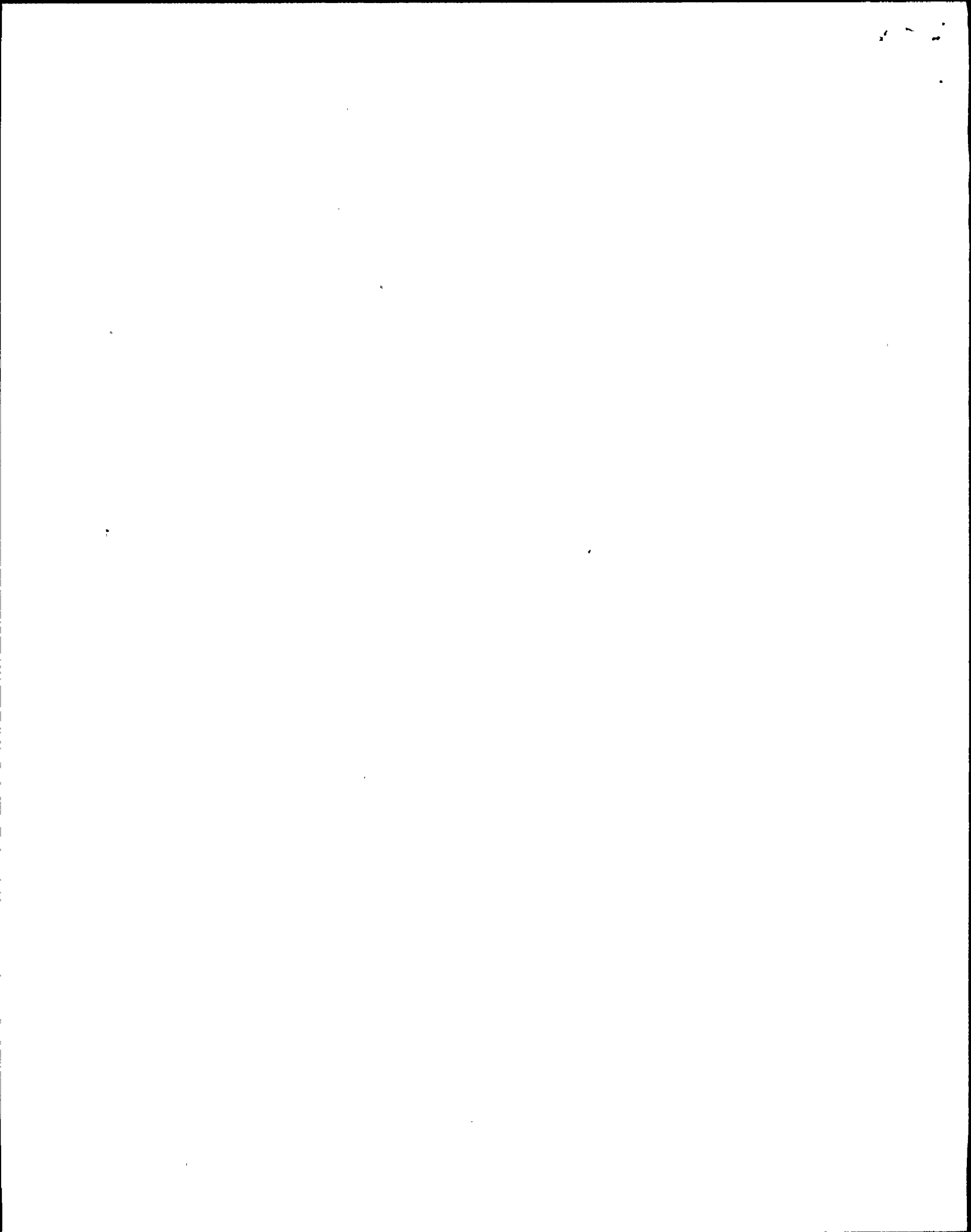


SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

	NORMAL POSITION/CONDITION (Circle Running Component)	IN NORMAL CONDITION (✓) COLUMN			
		Yes/No	Yes/No	Yes/No	
2.	<u>SYSTEM AVAILABILITY</u>				
2.4.8	Div II Voltage Reg Mode Selector	Auto	<u> / </u>	<u> / </u>	<u> / </u>
2.4.9	Emer. Diesel Gen. 3 Parallel Switch	Off	<u> / </u>	<u> / </u>	<u> / </u>
2.4.10	Emer. Diesel Gen. 3 LOCA Signal Bypass Switch	Off	<u> / </u>	<u> / </u>	<u> / </u>
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	<u> / </u>	<u> / </u>	<u> / </u>
*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	<u> / </u>	<u> / </u>	<u> / </u>
2.4.13	Emer. Diesel Gen. 2 Manual Transfer Local Remote Control switch	Remote Manual	<u> / </u>	<u> / </u>	<u> / </u>
2.4.14	Emer. Diesel Gen. 2 LOCA Signal Bypass switch	Off	<u> / </u>	<u> / </u>	<u> / </u>
2.4.15	Bus 102 being fed from Offsite pwr and EHS*MCC201 is energized	Energized	<u> / </u>	<u> / </u>	<u> / </u>
2.4.16	Norm. Sta. Service Supplying 13.8 Kv to Bus 001 & 003	Energized	<u> / </u>	<u> / </u>	<u> / </u>
2.4.17	Aux. Bkr. XFMR energized	Energized	<u> / </u>	<u> / </u>	<u> / </u>

REMARKS: _____



SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

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

REMARKS: _____

SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

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

TCN-3

REMARKS: _____

SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

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

REMARKS: _____

NINE MILE POINT NUCLEAR STATION UNIT #2

12.5

SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

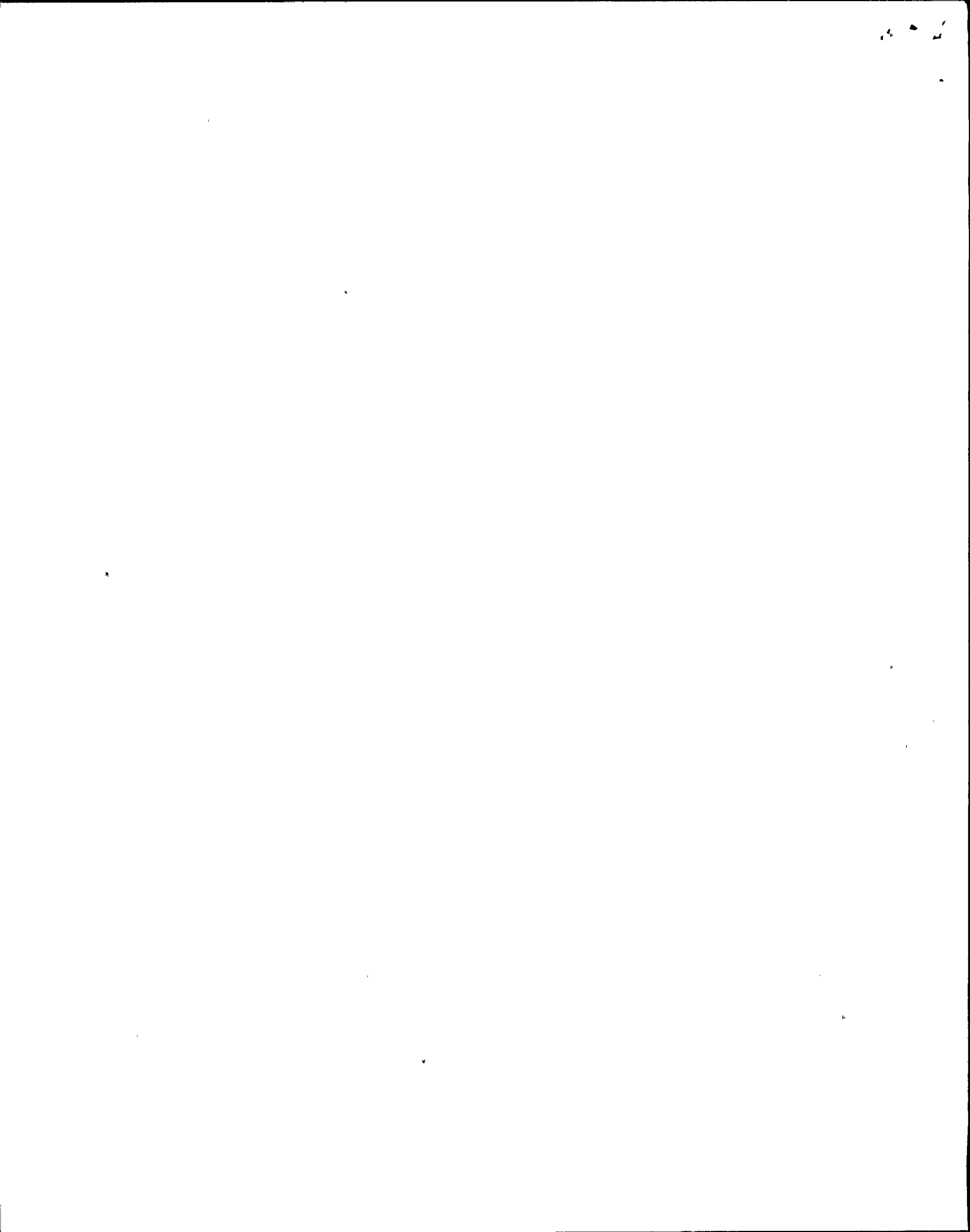
	NORMAL POSITION/CONDITION (Circle Running Component)	IN NORMAL CONDITION (✓) COLUMN		
		Yes/No	Yes/No	Yes/No
2. <u>SYSTEM AVAILABILITY</u>				
2.7 <u>2CEC-PNL824</u>				
2.7.1 Non-Group Drain Valves	As Required	<u> / </u>	<u> / </u>	<u> / </u>
2.7.2 Group I Drain Valves	Auto & Closed	<u> / </u>	<u> / </u>	<u> / </u>
2.7.3 Group II Drain Valves	Auto & Closed	<u> / </u>	<u> / </u>	<u> / </u>
2.7.4 Group III Drain Valves	Auto & Closed	<u> / </u>	<u> / </u>	<u> / </u>
2.7.5 Extraction Steam MOV's	Open	<u> / </u>	<u> / </u>	<u> / </u>
2.7.6.1 Scavenging Steam AOV's	Auto	<u> / </u>	<u> / </u>	<u> / </u>
2.7.6.2 Blanketing Override switch	Auto	<u> / </u>	<u> / </u>	<u> / </u>
2.7.6.3 AOV's 86 A&B, 81 A,B &C, 83 A&B	Open	<u> / </u>	<u> / </u>	<u> / </u>
2.7.6.4 AOV 82 A&B, 84 A&B	Closed	<u> / </u>	<u> / </u>	<u> / </u>
2.7.6.5 MSS-AOV87A-D, 88A,B	Open	<u> / </u>	<u> / </u>	<u> / </u>
2.8 <u>2CEC-PNL849</u>				
2.8.1 All Zone switches	Auto	<u> / </u>	<u> / </u>	<u> / </u>
2.8.2 Electric fire System Pump (P2)	Auto	<u> / </u>	<u> / </u>	<u> / </u>
2.8.3 Generator Hydrogen Dump Valve	Closed	<u> / </u>	<u> / </u>	<u> / </u>
2.8.4 Hydrogen Isolation SOV118 & AOV119	Closed	<u> / </u>	<u> / </u>	<u> / </u>

REMARKS: _____

SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

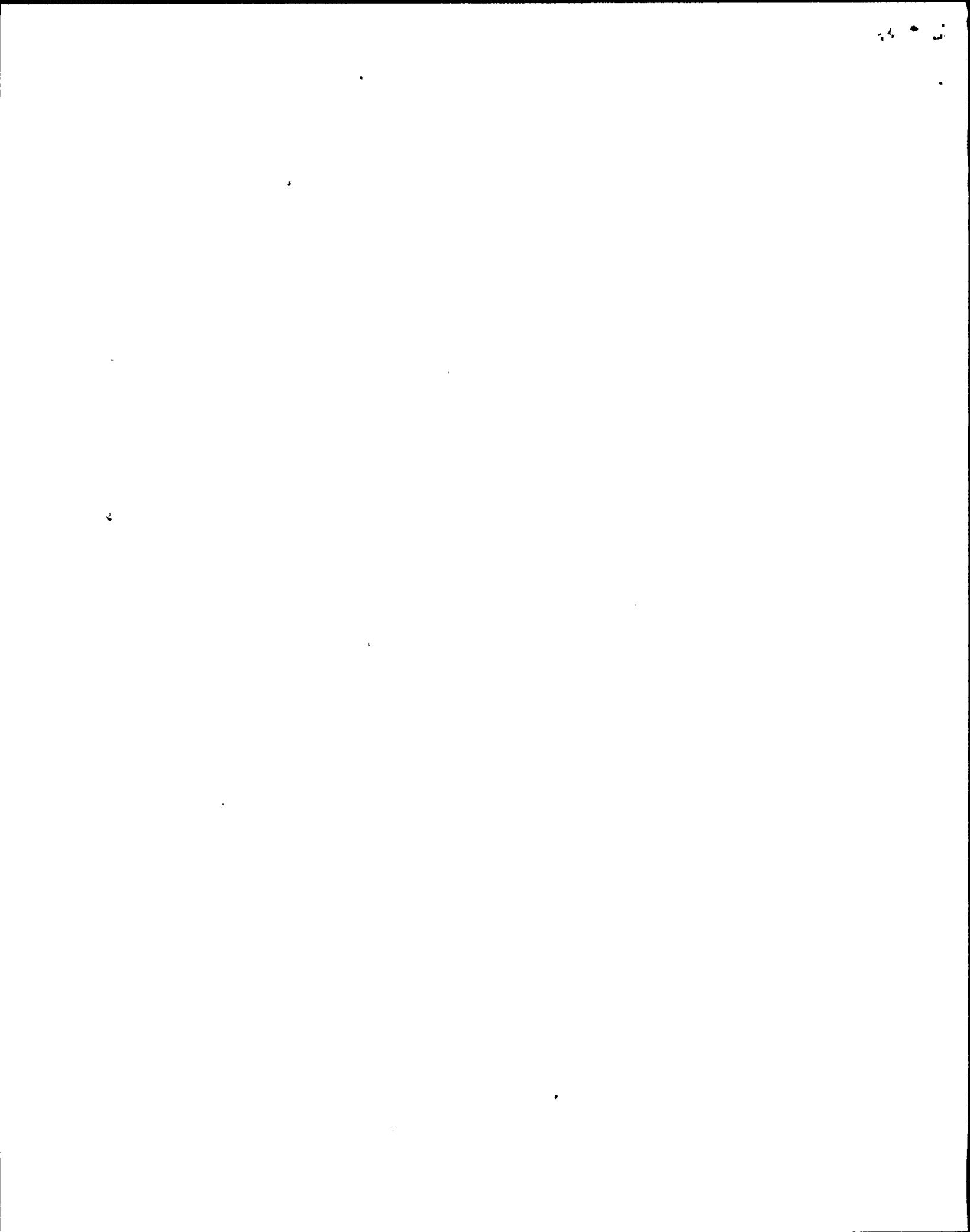
		NORMAL <u>POSITION/CONDITION</u> (Circle Running Component)	IN NORMAL CONDITION (✓) COLUMN		
			<u>Yes/No</u>	<u>Yes/No</u>	<u>Yes/No</u>
2.	<u>SYSTEM AVAILABILITY</u>				
2.9	<u>2CEC-PNL634</u>				
2.9.1	Hydraulic Power Units 'A' & 'B'	In Service 1A 1B	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u>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



SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

		NORMAL <u>POSITION/CONDITION</u> (Circle Running Component)	IN NORMAL CONDITION (✓) COLUMN		
			<u>Yes/No</u>	<u>Yes/No</u>	<u>Yes/No</u>
2.10.2.2	2RMS*RUZ1C	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.10.2.3	2SWP*RUZ23A	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.10.2.4	2SWP*RUZ146A	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.10.3	<u>2CEC*PNL880C</u>				
2.10.3.1	2CMS*RUZ10B	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.10.3.2	2HVC*RUZ18B	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.10.3.3	2HVC*RUZ18D	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.10.3.4	2HVR*RUZ14B	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.10.3.5	2HVR*RUZ32B	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.10.4	<u>2CEC*880D</u>				
2.10.4.1	2RMS*RUZ1B	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.10.4.2	2RMS*RUZ1D	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>



SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

		NORMAL POSITION/CONDITION (Circle Running Component)	IN NORMAL CONDITION (✓) COLUMN		
			Yes/No	Yes/No	Yes/No
2.10.4.3	2SWP*RUZ23B	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.10.4.4	2SWP*RUZ146B	Green Power Light Lit, No Other Lights Lit, Lamp Test Sat	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.11	<u>2CEC-PNL628</u>				
2.11.1	Suppr. Pool/Drywell	Closed	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.11.2	ADS - Safety/Relief Valves	Auto & Closed	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.12	<u>2CEC-PNL632</u>				
2.12.1	Isol. bypass keylock switches	Normal	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.13	<u>2CEC-PNL631</u>				
2.13.1	ADS - Safety/Relief Valves	Auto & Closed	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>
2.14	<u>Tip Control and Monitoring Instrument Panel</u>				
2.14.1	All 5 Squib Monitors	De-Energized	<u> </u> / <u> </u>	<u> </u> / <u> </u>	<u> </u> / <u> </u>

REMARKS: _____

| 10:5

SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

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

REMARKS: _____

1

2

3

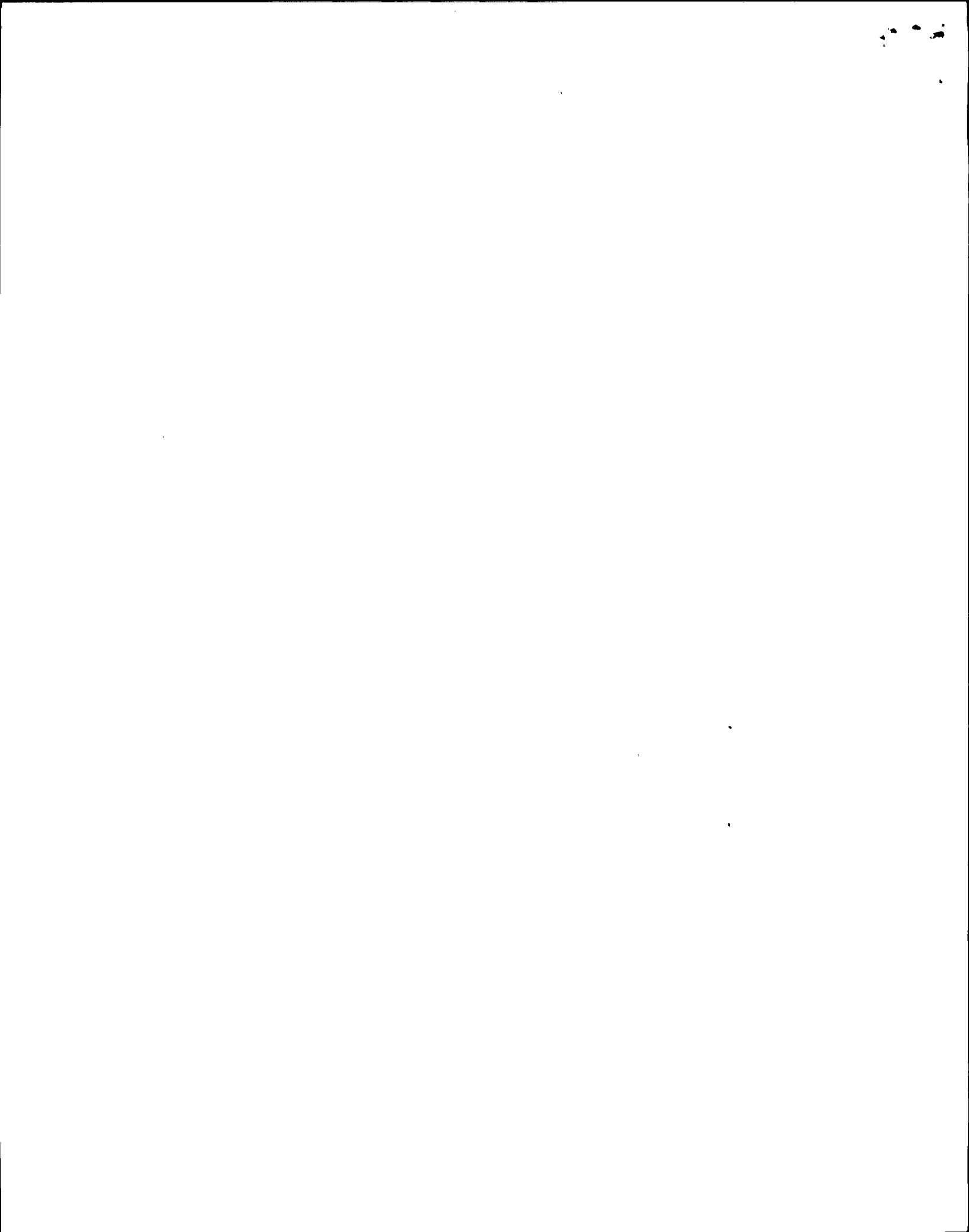
4

SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

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

REMARKS: _____



SHIFT TURNOVER CHECKLIST DATA SHEET

Date / /

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

SHIFT TURNOVER CHECKLIST DATA SHEET

Shift Turnover Checklist Completed by Oncoming CSO

_____/_____
Signature Time

_____/_____
Signature Time

_____/_____
Signature Time

UNIT #2

Attachment 7

OPERATIONS

BUILDING TURNOVER SHEET

Unit #2 Mode _____

Date _____

BUILDING STATUS

CHANGES IN CONFIGURATION:

SPECIAL EQUIPMENT STATUS (OFF NORMAL):

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.

OPS SIGNATURE

00-0800 _____ 0800-1600 _____ 1600-2400 _____

