Attachment I to JPN-94-027

New York Power Authority
James A. FitzPatrick Nuclear Power Plant

Replacement Pages for Proposed Change to the Technical Specifications
Remote Shutdown Panel LCO and Surveillance Requirements (JPTS-92-004)

INSTRUCTIONS:

Remove Page	Replace Page
54	54
60	60
	60a
77f	77f
77g	77g
77h	77h
77i	77i
77j	77j
77k	77k
77l	77l
77m	77m

3.2 (cont'd)

J. Remote Shutdown Capability

1. The remote shutdown instrument and control circuits in Table 3.2-10 shall be operable in the Run and Startup/Hot Standby modes.

2. With one or more required instrument circuits inoperable:

   a. restore the required instrument circuit to operable status within 30 days, or

   b. establish an alternate method of monitoring the parameter within 30 days and restore the required instrument circuit to operable status within 90 days, or

   c. be in hot shutdown within the next 12 hours.

3. With one or more required control circuits inoperable:

   a. place the component actuated by that control circuit in the safe shutdown configuration, or

   b. restore the required control circuit to operable status within 30 days, or

   c. be in hot shutdown within the next 12 hours.

4. Specification 3.2.J does not apply if the component actuated by a required control circuit is inoperable.

5. The provisions of Specification 3.0.D are not applicable.

4.2 (cont'd)

J. Remote Shutdown Capability

Instruments and controls shall be tested and calibrated as indicated in Table 3.2-10.

3.2 BASES (cont'd)

The remote/alternate shutdown capability at FitzPatrick is provided by a remote shutdown panel (25RSP) and five alternate safe shutdown panels (25ASP-1, 25ASP-2, 25ASP-3, 25ASP-4, and 25ASP-5). These panels are used in conjunction with the Automatic Depressurization System (ADS) relief valve control panel (02ADS-71) adjacent to 25RSP, the emergency diesel generator (B & D) control panels (93EGP-B and 93EGP-D) opposite 25ASP-3, the reactor building vent and cooling panel (66HV-3B) near 25ASP-1, instrument rack 25-51, and instrument rack 25-6 opposite 25RSP. All of these locations are linked by communications and are provided with emergency lighting.

This Remote Shutdown capability provides the necessary instrumentation and controls to place and maintain the plant in a safe shutdown condition from a location other than the control room in the event the control room becomes inaccessible due to a fire or other reason.

This specification ensures the operability of the remote shutdown instrumentation and control circuits. Operability of components such as pumps and valves, which are controlled from these panels, is covered by other specifications. This specification does not impose conditions on plant operation which are more restrictive than those already imposed by other specifications. For example, Specification 3.7.D includes provisions for continued operation with one or more containment isolation valves inoperable. The 30 day time limitation imposed by 3.2.J would not apply in this situation, provided that the actions taken for the inoperable valve(s) to satisfy 3.7.D are also consistent with the safety function(s) required for fire protection.

Not all instruments, controls, and necessary transfer switches are located at the remote/alternate shutdown panels. Some controls and transfer switches will have to be operated locally at the switchgear, motor control centers, or other local stations.

Operability of the remote shutdown instrumentation and control functions ensure that there is sufficient information available on selected plant parameters to place and maintain the plant in a shutdown condition should the control room become inaccessible. The instrumentation and controls installed on the remote/alternate shutdown panels are listed in Table 3.2-10. This table does not include the isolation/transfer switches for the control functions on the remote/alternate shutdown panels. As specified in Surveillance Requirement 4.2.J, the operability of the transfer switches will be demonstrated when the remote/alternate shutdown control functions are tested.

The remote shutdown instruments and control circuits covered by this LCO do not need to be energized to be considered operable. This LCO is intended to ensure that the instruments and control circuits will be operable if plant conditions require the use of the remote shutdown capability. Performance of the instrument check once every 31 days ensures that a gross failure of instrumentation has not occurred and is intended to ensure that the instrumentation continues to operate properly between each instrument channel calibration.

As specified in the surveillance requirements, an instrument check is only required for those instruments that are normally energized. Performance of this surveillance provides assurance that undetected outright instrument failure is limited to 31 days. The surveillance frequency is based upon plant operating experience which indicates that channel failure is rare.

3.2 BASES (cont'd)

Surveillance Requirement 4.2.J requires that each remote shutdown transfer / isolation switch and control circuit be periodically tested to demonstrate that it is capable of performing its intended function. The requirements of this section apply to each remote shutdown control circuit on the panels listed in Table 3.2-10 and on panels 25ASP-4, 25ASP-5, and 66HV-3B. This demonstration is performed from the remote shutdown panel and locally, as appropriate. This will ensure that if the control room becomes inaccessible, the plant can be placed and maintained in a shutdown condition from the remote shutdown panel and the local control stations.

TABLE 3.2-10

REMOTE SHUTDOWN CAPABILITY INSTRUMENTATION AND CONTROLS

[Refer to Notes on Page 77m]

	INSTRUMENT OR CONTROL	PANEL OR LOCATION
1.	RHR Service Water Flow (Loop B) (10FI-134)	25RSP
2.	RHR Service Water Pump Control (10P-1B)	25RSP
3.	RHR Service Water Heat Exchanger Outlet Valve Control (10MOV-89B)	25RSP
4.	RHR Service Water to RHR Cross-Tie Valve Control (10MOV-148B)	25ASP-1
5.	RHR Service Water to RHR Cross-Tie Valve Control (10MOV-149B)	25ASP-1
6.	RHR Flow (Loop B) (10FI-133)	25RSP
7.	RHR Discharge Pressure (Pump D) (10PI-279)	25RSP
8.	RHR Pump Control (10P-3D)	25RSP
9.	RHR Heat Exchanger Bypass Valve Control (10MOV-66B)	25RSP

TABLE 3.2-10 (cont'd)

REMOTE SHUTDOWN CAPABILITY INSTRUMENTATION AND CONTROLS

[Refer to Notes on Page 77m]

	INSTRUMENT OR CONTROL	PANEL OR LOCATION
10.	RHR Inboard Injection Valve Control (10MOV-25B)	25RSP
11.	RHR Heat Exchanger Steam Inlet Valve Control (10MOV-70B)	25ASP-1
12.	RHR Heat Exchanger Vent Valve Control (10MOV-166B)	25ASP-1
13.	RHR Heat Exchanger Outlet Valve Control (10MOV-12B)	25ASP-1
14.	RHR Pump D Torus Suction Valve Control (10MOV-13D)	25ASP-2
15.	RHR Pump D Shutdown Cooling Suction Valve Control (10MOV-15D)	25ASP-2
16.	RHR Pump P-3B Minimum Flow Valve Control (10MOV-16B)	25ASP-2
17.	RHR Heat Exchanger Inlet Valve Control (10MOV-65B)	25ASP-2
18.	RHR Outboard Injection Valve Control (10MOV-27B)	25ASP-2

TABLE 3.2-10 (cont'd)

REMOTE SHUTDOWN CAPABILITY INSTRUMENTATION AND CONTROLS

[Refer to Notes on Page 77m]

	INSTRUMENT OR CONTROL	PANEL OR LOCATION
19.	RHR Heat Exchanger Discharge to Torus Valve Control (10MOV-21B)	25ASP-2
20.	Torus Cooling Isolation Valve Control (10MOV-39B)	25ASP-2
21.	DW Spray Outboard Valve Control (10MOV-26B)	25ASP-3
22.	ADS & Safety Relief Valve A Control (02RV-71A)	02ADS-71
23.	ADS & Safety Relief Valve B Control (02RV-71B)	02ADS-71
24.	ADS & Safety Relief Valve C Control (02RV-71C)	02ADS-71
25.	ADS & Safety Relief Valve D Control (02RV-71D)	02ADS-71
26.	ADS & Safety Relief Valve E Control (02RV-71E)	02ADS-71
27.	ADS & Safety Relief Valve G Control (02RV-71G)	02ADS-71

TABLE 3.2-10 (cont'd)

REMOTE SHUTDOWN CAPABILITY INSTRUMENTATION AND CONTROLS

[Refer to Notes on Page 77m]

	INSTRUMENT OR CONTROL	PANEL OR LOCATION
28.	ADS & Safety Relief Valve H Control (02RV-71H)	02ADS-71
29.	Safety Relief Valve F Control (02RV-71F)	02ADS-71
30.	Safety Relief Valve J Control (02RV-71J)	02ADS-71
31.	Safety Relief Valve K Control (02RV-71K)	02ADS-71
32.	Safety Relief Valve L Control (02RV-71L)	02ADS-71
33.	Main Steam Line Drain Outboard Isolation Valve Control (29MOV-77)	25ASP-2
34.	Drywell Temperature (68TI-115)	25RSP
35.	Torus Water Temperature (27TI-101)	25RSP
36.	Torus Water Level (23LI-204)	25RSP

TABLE 3.2-10 (cont'd)

REMOTE SHUTDOWN CAPABILITY INSTRUMENTATION AND CONTROLS

[Refer to Notes on Page 77m]

	INSTRUMENT OR CONTROL	PANEL OR LOCATION
37.	Reactor Vessel Pressure (02-3PI-60B)	Rack 25-6
38.	Reactor Vessel Water Level (02-3LI-58A)	Rack 25-6
39.	Reactor Vessel Water Level (02-3LI-93)	Rack 25-51
40.	HPCI Steam Supply Outboard Isolation Valve Control (23MOV-16)	25RSP
41.	HPCI Outboard Isolation Bypass Valve Control (23MOV-60)	25ASP-2
42.	HPCI Minimum Flow Valve Control (23MOV-25)	25ASP-2
43.	CAD B Train Inlet Valve Control (27AOV-126B)	25RSP
44.	Nitrogen Instrument Header Isolation Valve Control (27AOV-129B)	25RSP
45.	Reactor Water Cleanup Outboard Isolation Valve Control (12MOV-18)	25ASP-2

TABLE 3.2-10 (cont'd)

REMOTE SHUTDOWN CAPABILITY INSTRUMENTATION AND CONTROLS

[Refer to Notes on Page 77m]

	INSTRUMENT OR CONTROL	PANEL OR LOCATION
46.	Emergency Service Water Pump B Control (46P-2B)	25ASP-3
47.	ESW Loop B Supply Header Isolation Valve Control (46MOV-101B)	25ASP-3
48.	ESW Pump B Test Valve Control (46MOV-102B)	25ASP-3
49.	Bus 11600 Supply Breaker Control (71-11602)	25RSP
50.	EDG B & EDG D Tie Breaker Control (71-10604)	25ASP-3
51.	Bus 10400-10600 Tie Breaker Control (71-10614)	25ASP-3
52.	Unit Substation L16 & L26 Feeder Breaker Control (71-10660)	25ASP-3
53.	Bus 12600 Supply Breaker Control (71-12602)	25ASP-3
54.	Breaker 71-10614 Synchronizing Check Control	25ASP-3
55.	EDG B Control Room Metering Check Control	25ASP-3

TABLE 3.2-10 (cont'd)

REMOTE SHUTDOWN CAPABILITY INSTRUMENTATION AND CONTROLS

[Refer to Notes on Page 77m]

	INSTRUMENT OR CONTROL	PANEL OR LOCATION
56.	EDG B Engine Start/Stop Control	25ASP-3
57.	EDG D Control Room Metering Check Control	25ASP-3
58.	EDG D Engine Start/Stop Control	25ASP-3
59.	EDG B Governor Switch	93EGP-B
60.	EDG B Synchronizing Switch	93EGP-B
61.	EDG B Load Breaker Control (71-10602)	93EGP-B
62.	EDG B Motor Control	93EGP-B
63.	EDG B Frequency Meter (93FM-1B)	93EGP-B
64.	EDG B Voltage Control	93EGP-B
65.	EDG B Emergency Bus Meter (93VM-600-1B)	93EGP-B
66.	EDG B Incoming Bus Meter (93VM-12B)	93EGP-B
67.	EDG B Running Bus Meter (93VM-11B)	93EGP-B
68.	EDG D Governor Switch	93EGP-D
69.	EDG D Synchronizing Switch	93EGP-D

TABLE 3.2-10 (cont'd)

REMOTE SHUTDOWN CAPABILITY INSTRUMENTATION AND CONTROLS

	INSTRUMENT OR CONTROL	PANEL OR LOCATION
70.	EDG D Load Breaker Control (71-10612)	93EGP-D
71.	EDG D Motor Control	93EGP-D
72.	EDG D Frequency Meter (93FM-1D)	93EGP-D
73.	EDG D Voltage Control	93EGP-D
74.	EDG D Emergency Bus Meter (93VM-600-1D)	93EGP-D
75.	EDG D Incoming Bus Meter (93VM-12D)	93EGP-D
76.	EDG D Running Bus Meter (93VM-11D)	93EGP-D

NOTES FOR TABLE 3.2-10

A. Minimum required number of divisions for all instruments and controls listed is 1.

B. Perform instrument check for each required instrument that is normally energized once per 31 days. The normally energized instruments are identified in line items 1, 6, 7, 34, 35, 36, 37, 38, and 39.

C. Perform instrument calibration for each required instrumention channel once per operating cycle.

D. Demonstrate each required control circuit and transfer / isolation switch is capable of performing the intended function once per operating cycle.

Attachment II to JPN-94-027

New York Power Authority
James A. FitzPatrick Nuclear Power Plant

Revised Pages to Safety Evaluation for
Proposed Technical Specifications Regarding
Remote Shutdown Panel LCO and Surveillance Requirements

(JPTS-92-004)

INSTRUCTIONS:

Remove Page	Replace Page
2	2a
	2b
3	3

Page 54, Specifications 3/4.2.J

Insert new Specification 3.2.J entitled "Remote Shutdown Capability" which reads as follows:

1. The remote shutdown instrument and control circuits in Table 3.2-10 shall be operable in the Run and Startup/Hot Standby modes.

2. With one or more required instrument circuits inoperable:

   a. restore the required instrument circuit to operable status within 30 days, or

   b. establish an alternate method of monitoring the parameter within 30 days and restore the required instrument circuit to operable status within 90 days, or

   c. be in hot shutdown within the next 12 hours.

3. With one or more required control circuits inoperable:

   a. place the component actuated by that control circuit in the safe shutdown configuration, or

   b. restore the required control circuit to operable status within 30 days, or

   c. be in hot shutdown within the next 12 hours.

4. Specification 3.2.J does not apply if the component actuated by a required control circuit is inoperable.

5. The provisions of Specification 3.0.D are not applicable.

Insert new Specification 4.2.J entitled "Remote Shutdown Capability" which reads as follows:

"Instruments and controls shall be tested and calibrated as indicated in Table 3.2-10."

Page 59, Bases Section 3.2

Move the contents of page 60 onto page 59.

Page 60, Bases Section 3.2

Beginning in the left column of page 60, insert the following:

"The remote/alternate shutdown capability at FitzPatrick is provided by a remote shutdown panel (25RSP) and five alternate safe shutdown panels (25ASP-1, 25ASP-2, 25ASP-3, 25ASP-4, and 25ASP-5). These panels are used in conjunction with the Automatic Depressurization System (ADS) relief valve control panel (02ADS-71) adjacent to 25RSP, the emergency diesel generator (B & D) control panels (93EGP-B and 93EGP-D) opposite 25ASP-3, the reactor building vent and cooling panel (66HV-3B) near 25ASP-1, instrument rack 25-51, and instrument rack 25-6 opposite 25RSP. All of these locations are linked by communications and are provided with emergency lighting.

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As specified in the surveillance requirements, an instrument check is only required for those instruments that are normally energized. Performance of this surveillance provides assurance that undetected outright instrument failure is limited to 31 days. The surveillance frequency is based upon plant operating experience which indicates that channel failure is rare."

Continue Bases Section 3.2 on new page 60a

"Surveillance Requirement 4.2.J requires that each remote shutdown transfer / isolation switch and control circuit be periodically tested to demonstrate that it is capable of performing its intended function. The requirements of this section apply to each remote shutdown control circuit on the panels listed in Table 3.2-10 and on panels 25ASP-4, 25ASP-5, and 66HV-3B. This demonstration is performed from the remote shutdown panel and locally, as appropriate. This will ensure that if the control room becomes inaccessible, the plant can be placed and maintained in a shutdown condition from the remote shutdown panel and the local control stations."

Pages 77f through 77m, Table 3.2-10

Insert a new Table 3.2-10, "Remote Shutdown Capability Instrumentation and Controls."