

ATTACHMENT
PROPOSED TECHNICAL SPECIFICATION CHANGES
RECONCILIATION

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
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Table 4.1-1

Minimum Frequencies for Checks, Calibrations and
Tests of Instrument Channels

Channel Description	Check	Calibrate	Test	Remarks
1. Nuclear Power Range	S	D (1) M(3) ^{*1}	Q (2)	1) Heat balance calibration 2) Signal to delta T; bistable action (permissive, rod stop, trips) 3) Upper and lower chambers for axial offset.
2. Nuclear Intermediate Range	S (1)	N.A.	S/U(2) ^{*2}	1) Once/shift when in service Log level; bistable action (permissive, rod stop, trip)
3. Nuclear Source Range	S (1)	N.A.	S/U(2) ^{*2}	1) Once/shift when in service 2) Bistable action (alarm, trip)
4. Reactor Coolant Temperature	S	R#	Q (1)	1) Overtemperature - delta T 2) Overpower - delta T
5. Reactor Coolant Flow	S	R#	Q	
6. Pressurizer Water Level	S	R#	Q	
7. Pressurizer Pressure (High & Low)	S	R#	Q	
8. 6.9 kV Voltage & Frequency	N.A.	R#	Q	Reactor Protection circuits only
9. Analog Rod Position	S	R#	M	
10. Rod Position Bank Counters	S	N.A.	N.A.	With analog rod position
11. Steam Generator Level	S	R#	Q	

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12. Charging Flow	N.A.	R#	N.A.	
13. Residual Heat Removal Pump Flow	N.A.	R#	N.A.	
14. Boric Acid Tank Level	W	R#	N.A.	Bubbler tube rodded during calibration
15. Refueling Water Storage Tank Level	W	Q	N.A.	
16. DELETED				
17. Volume Control Tank Level	N.A.	R#	N.A.	
18a. Containment Pressure	D	R#	Q	Wide Range
18b. Containment Pressure	S	R#	Q	Narrow Range
18c. Containment Pressure (PT-3300,PT-3301)	M	R#	N.A.	High Range
19. Process Radiation Monitoring System	D	R#	M	
19a. Area Radiation Monitoring System	D	R#	M	
19b. Area Radiation Monitoring System (VC)	D	R#	M	
20. Boric Acid Make-up Flow Channel	N.A.	R#	N.A.	

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21a. Containment Sump and Recirculation Sump Level (Discrete)	S	R#	R#	Discrete Level Indication Systems.
21b. Containment Sump, Recirculation Sump and Reactor Cavity Level (Continuous)	S	R#	R#	Continuous Level Indication Systems.
21c. Reactor Cavity Level Alarm	N.A.	R#	R#	Level Alarm System
21d. Containment Sump Discharge Flow	S	R#	M	Flow Monitor
21e. Containment Fan Cooler Condensate Flow	S	R#	M ³	
22a. Accumulator Level	S	R#	N.A.	
22b. Accumulator Pressure	S	R#	N.A.	
23. Steam Line Pressure	S	R#	Q	
24. Turbine First Stage Pressure	S	R#	Q	
25. Reactor Trip Logic Channel Testing	N.A.	N.A.	M ¹	
26. Deleted				
27. Turbine Trip a. Low Auto Stop Oil Pressure	N.A.	R#	N.A.	

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Channel Description	Check	Calibrate	Test	Remarks
28. Control Rod Protection (for use with LOPAR fuel)	N.A.	R#	*4	
29. Loss of Power				
a. 480v Emergency Bus Undervoltage (Loss of Voltage)	N.A.	R#	R#	
b. 480v Emergency Bus Undervoltage (Degraded Voltage)	N.A.	R#	R#	
c. 480v Emergency Bus Undervoltage (Alarm)	N.A.	R#	M	
30. Auxiliary Feedwater				
a. Steam Generator Water Level (Low-Low)	S	R#	R#	
b. Low-Low Level AFWS Automatic Actuation Logic	N.A.	N.A.	M	Test one logic channel per month on an alternating basis.
c. Station Blackout (Undervoltage)	N.A.	R#	R#	
d. Trip of Main Feedwater Pumps	N.A.	N.A.	R#	
31. Reactor Coolant System Subcooling Margin Monitor	M	R#	N.A.	

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Channel Description	Check	Calibrate	Test	Remarks
32. PORV Position Indicator (Limit Switch)	M	R#	R#	
33. PORV Block Valve Position Indicator (Limit Switch)	M ⁵	R#	R#	
34. Safety Valve Position Indicator (Acoustic Monitor)	M	R#	R#	
35. Auxillary Feedwater Flow Rate	M	R	R	
36. PORV Actuation/ Reclosure Setpoints	N.A.	R#	N.A.	
37. Overpressure Protection System (OPS)	N.A.	R#	*6	
38. Wide Range Plant Vent Noble Gas Effluent Monitor (R-27)	S	R#	N.A.	
39. Main Steam Line Radiation Monitor (R-28, R-29, R-30, R-31)	S	R#	N.A.	
40. High Range Containment Radiation Monitor (R-25, R-26)	S	R# ^{*7}	N.A.	
41. Containment Hydrogen Monitor	Q	Q ^{*8}	N.A.	

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Channel Description	Check	Calibrate	Test	Remarks
42. Manual Reactor Trip	N.A.	N.A.	R#	Includes: 1) Independent verification of reactor trip and bypass breakers undervoltage trip circuit operability up to and including matrix contacts of RT-11/RT-12 from both manual trip initiating devices, 2) independent verification of reactor trip and bypass breaker shunt trip circuit operability through trip actuating devices from both manual trip initiating devices.
43. Reactor Trip Breaker	N.A.	N.A.	M ⁹	Includes independent verification of undervoltage and shunt trip attachment operability.
44. Reactor Trip Bypass Breaker	N.A.	N.A.	M ⁹	Includes: 1) Automatic undervoltage trip, 2) Manual shunt trip from either the logic test panel or locally at the switchgear prior to placing breaker into service.
45. Service Water Inlet Temperature Monitoring Instrumentation	S	R#	A	The test shall take place prior to T.S. 3.3.F.b Applicability.

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Minimum Frequencies for Checks, Calibrations and Tests of Instrument Channels

Channel Description	Check	Calibrate	Test	Remarks
*1	By means of the movable incore detector system.			
*2	Prior to each reactor startup if not done previous week.			
*3	Monthly visual inspection of condensate weirs only.			
*4	Within 31 days prior to entering a condition in which the Control Rod Protection System is required to be operable unless the reactor trip breakers are manually opened during RCS cooldown prior to T_{cold} decreasing below 381°F and the breakers are maintained opened during RCS cooldown when T_{cold} is less than 381°F.			
*5	Except when block valve operator is deenergized.			
*6	Within 31 days prior to entering a condition in which OPS is required to be operable and at monthly intervals thereafter when OPS is required to be operable.			
*7	Acceptable criteria for calibration are provided in Table II.F-13 of NUREG-0737.			
*8	Calibration will be performed using calibration span gas.			
*9	Each train shall be tested at least every 62 days on a staggered test basis (i.e., one train per month).			