Determine Availability of RPV Level Instruments

Job Position(s): ☒ RO ☒ SRO

Source: ☒ New ☐ Bank ☐ Modified _____ (Facility ID No. for Bank or Modified)

K/A Reference: 2.1.45

Method of testing: ☒ Simulated/Walk-thru Performance [Classroom/Plant]

☐ Actual Performance [Simulator/Lab]

Type: (Check all that apply)

☒ Administrative Topics ☐ Control Room Systems ☐ In-Plant Systems

☐ Alternate Path ☐ Emergency/Abnormal ☐ ESF

☐ Low-Power/Shutdown ☐ Time Critical

Task Standard: Determines that Wide Range Level indicator ~~B21-R604A~~B21-R604B, Div 2 Reactor Water Level (B21-N091D); B21-R610, Div 1 RPV Core Level Recorder (B21-N085A); and B21-R615, Div 2 RPV Core Level Recorder (B21-N085B) are available for use.

Validation Time: 30 Minutes

Simulator Setup: NONE

Required Materials:

EOP Flow Charts

29.ESP.01, Supplemental Information

General References:

EOP Flow Charts

29.ESP.01, Supplemental Information

Initial Conditions:

There is an unisolable steam leak in the Reactor Building.

29.100.01, Sheet 1, RPV Level Control, AND
29.100.01, Sheet 5, Secondary Containment Control have been entered due to high temperatures in the Reactor Building.

Initiating Cue:

Determine the availability of the Control Room RPV level instruments and report to me.

Performance Information

Critical Steps are annotated by **"c"** and italicized text.

	ELEMENTS	STANDARDS
1.	Refers to EOP 29.100.01 Sheet 6, Curves Cautions and Tables and 29.ESP.01, Supplemental Information	Obtains and refers to EOPs 29.100.01 and 29.ESP.01.

NOTE

The following steps may be performed in any logical order.

EVALUATOR PROMPT

When the applicant states that he would refer to IPCS for temperature indications, provide the attached "REACTOR BUILDING TEMPERATURE DATA".

The following data points are required to complete the JPM.

Third Floor

T41DT2405, Div 1 H2 Recombiner Area (General Area Temperature) 200°F

T41DT2406, Div 2 H2 Recombiner Area (General Area Temperature) 198°F

Second Floor

T41DT2398, N EECW Area (General Area Temperature) 180°F

T41DT2399, S EECW Area (General Area Temperature) 185°F

If temperature data is requested from the relay room, report that values are below Max Normal values.

c	*2.*	*Using IPCS determines Reactor Building Temperatures in vicinity of level instrument reference leg vertical runs.*	*Obtains temperature values for Reactor Building second and third floor general areas.*
c	*3.*	*Using the Reactor Building temperature data and the tables in EOPs 29.100.01 (Sh. 6) or 29.ESP.01, determines Minimum Indicated Level for each RPV level instrument.*	*Determines Minimum Indicated Level for each RPV level instrument.*

ELEMENTS	STANDARDS

EVALUATOR PROMPT

When the applicant requests RPV level information provide the attached "RPV LEVEL DATA"

The below shows the cross reference between instrument number and indicator numbers. EOPs refer to instrument EINs. The applicant will have to refer to prints or other references to determine which instruments feed which indicators.

Narrow Range Level indicators (all channels)	Downscale
Floodup Level indicator	Downscale
Wide Range Level Indicators:	
B21-R604A, Div 1 Reactor Water Level Indicator (B21-N091A)	19"
B21-R623B, Post Accident Monitoring Recorder (B21-N091B)	18"
B21-R623A, Post Accident Monitoring Recorder (B21-N091C)	20"
~~B21-R604A~~B21-R604B, Div 2 Reactor Water Level Indicator (B21-N091D)	20"
Core Level Indicators	
B21-R610, Div 1 RPV Core Level Recorder (B21-N085A)	25"
B21-R615, Div 2 RPV Core Level Recorder (B21-N085B)	23"

NOTE: The below listed wide range level instruments are located on the Testability Panels located on AB fifth floor may be referred to, but are not required for the JPM.

Division 1		Division 2	
B21-N081A	20"	B21-N081B	21"
B21-N081C	19"	B21-N081D	22"

c	4.	*Compares indicated levels on each RPV level channel with the Minimum Indicated Level for that channel and determines which RPV level instrument channels are available for use:*	*Determines that the following RPV level instrument channels are available for use:* *Wide Range Level channels:* *~~B21-R604A~~B21-R604B, Div 2 Reactor Water Level Indicator (B21-N091D)* *Core Level channels:* *B21-R610, Div 1 RPV Core Level Recorder (B21-N085A)* *B21-R615, Div 2 RPV Core Level Recorder (B21-N085B)*

Terminating cue: Terminate JPM when applicant reports available instruments to CRS.

RPV LEVEL DATA

Narrow Range Level indicators (all channels)	Downscale
Floodup Level indicator	Downscale
Wide Range Level Indicators:	
B21-R604A, Div 1 Reactor Water Level Indicator	19”
B21-R623B, Post Accident Monitoring Recorder	18”
B21-R623A, Post Accident Monitoring Recorder	20”
~~B21-R604A~~B21-R604B, Div 2 Reactor Water Level Indicator	20”
Core Level Indicators	
B21-R610, Div 1 RPV Core Level Recorder	25”
B21-R615, Div 2 RPV Core Level Recorder	23”

REACTOR BUILDING TEMPERATURE DATA

RCIC/CSS Div 1 Pump Room	80°F
CSS Div 2 Pump Room	81°F
RHR Div 1 Pump Room	78°F
RHR Div 2 Pump Room	77°F
HPCI Pump Room	90°F
RHR Heat Exchanger N	110°F
RHR Heat Exchanger S	105°F
N EECW Area	180°F
S EECW Area	185°F
Refueling Floor	90°F
Steam Tunnel	140°F
Div 1 H2 Recombiner Area	200°F
Div 2 H2 Recombiner Area	198°F

EXAMINEE CUE SHEET

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Initiating Cue:

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