SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

1.0 Radioactive Gaseous Effluent Monitoring Instrumentation – Low Range Noble Gas Activity Monitors and Sampler Flow Rate Monitors (H11-P812)

a. On Eberline SS-1, System Server, determine Sping Units status per 23.625.

b. Record status of SPING Units.

ODCM	4.3.7.12, Table 4.3.7.12-1, Instrument 1.a, 1.d, 4.a, 4.d Applicability: At all times. 4.3.7.12, Table 4.3.7.12-1, Instrument 5.a, 5.d, 6.a, 6.d Applicability: At all times. 4.3.7.12, Table 4.3.7.12-1, Instrument 3.a, 3.d Applicability: During operation of the standby gas treatment system.
Acceptance Criteria	**NOTE (1):** If SS-1 (D11-K610) is not operating notify: • Radiation Protection to perform 64.713.018, "Radiological Effluents Situational Surveillances," Attachment 17. • Chemistry to perform 74.000.18, "Chemistry Shiftly, 72 Hour, and Situational Surveillances," Attachment 23. **NOTE (2):** Radiation Protection Representative signature required on Tuesday for channel parameter check sat. 1) STATUS NORMAL for Channels 5, 14, and 15 (and 7 for Units 3 and 4). 2) CHANNEL CHECK Sat.

ITEM		SUN	MON	TUE	WED	THUR	FRI	SAT
		N	N	N	N	N	N	N
UNIT	Channel 5	✓						
1	Channel 14	✓						
RB	Channel 15	✓						
UNIT	Channel 5	✓						
2	Channel 14	✓						
RW	Channel 15	✓						
UNIT	Channel 5	✓						
3	Channel 7	✓						
SGTS	Channel 14	✓						
Div 1	Channel 15	✓						
UNIT	Channel 5	✓						
4	Channel 7	✓						
SGTS	Channel 14	✓						
Div 2	Channel 15	✓						
UNIT	Channel 5	✓						
6	Channel 14	✓						
TB	Channel 15	✓						

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SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

1.0 Radioactive Gaseous Effluent Monitoring Instrumentation – Low Range Noble Gas Activity Monitors and Sampler Flow Rate Monitors (H11-P812) (Contd.)

ODCM	4.3.7.12, Table 4.3.7.12-1, Instrument 1.a, 1.d, 4.a, 4.d Applicability: At all times. 4.3.7.12, Table 4.3.7.12-1, Instrument 5.a, 5.d, 6.a, 6.d Applicability: At all times. 4.3.7.12, Table 4.3.7.12-1, Instrument 3.a, 3.d Applicability: During operation of the standby gas treatment system.
Acceptance Criteria	**NOTE (1):** If SS-1 (D11-K610) is not operating notify: • Radiation Protection to perform 64.713.018, "Radiological Effluents Situational Surveillances," Attachment 17. • Chemistry to perform 74.000.18, "Chemistry Shiftly, 72 Hour, and Situational Surveillances," Attachment 23. **NOTE (2):** Radiation Protection Representative signature required on Tuesday for channel parameter check sat. 1) STATUS NORMAL for Channels 5, 14, and 15 (and 7 for Units 3 and 4). 2) CHANNEL CHECK Sat.

ITEM		SUN	MON	TUE	WED	THUR	FRI	SAT
		N	N	N	N	N	N	N
UNIT	Channel 5	✓						
9	Channel 14	✓						
OSSF	Channel 15	✓						
Radiation Protection Representative Signature								
INITIALS		DR						

2.0 Control Room Air Temperature

Tech Spec	SR 3.7.4.1 Applicability: During movement of recently irradiated fuel assemblies in the secondary containment.
Acceptance Criteria	**NOTE:** If T41–R805 is not available, use MTE thermometer or pyrometer. ≤ 95°F.

ITEM	SUN		MON		TUE		WED		THUR		FRI		SAT	
	N	D	N	D	N	D	N	D	N	D	N	D	N	D
Control Room Temperature T41–R805 (South Wall)	72°													
INITIALS	DR													

3.0 Suppression Pool Water Level

Tech Spec	SR 3.5.2.1; SR 3.5.2.2.a Applicability: MODE 4.
Acceptance Criteria	**NOTE (1):** If Suppression Pool Water Level is below -66 inches, refer to Step 8.0 for SR 3.5.2.2 compliance. **NOTE (2):** Applies to each required LPCI and CS subsystem. ≥ -66 inches.

ITEM	SUN		MON		TUE		WED		THUR		FRI		SAT	
	N	D	N	D	N	D	N	D	N	D	N	D	N	D
Suppression Chamber Level on T50-R804A (H11-P601)														
Suppression Chamber Level on T50-R804B (H11-P602)														
INITIALS														

SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

4.0 Reactor Vessel Flange Temperature

Tech Spec	**NOTE:** Not required to be performed until 12 hours after RCS temperature ≤ 100°F in MODE 4. SR 3.4.10.9 Applicability: At all times.													
Acceptance Criteria	**NOTE:** If RCS temperature is ≤ 80°F, also monitor temperature in accordance with 22.000.05, "Pressure/ Temperature Monitoring During Heatup and Cooldown." ≥ 72°F.													
ITEM	**SUN**		**MON**		**TUE**		**WED**		**THUR**		**FRI**		**SAT**	
	N	**D**	**N**	**D**	**N**	**D**	**N**	**D**	**N**	**D**	**N**	**D**	**N**	**D**
Reactor Vessel Flange from B21-R007 (H11-P603)														
INITIALS														

5.0 Circulating Water Reservoir Decant Radioactivity

ODCM	4.3.7.11, Table 4.3.7.11-1, Instrument 2.a Applicability: At all times.						
Acceptance Criteria	CLEAR.						
ITEM	**SUN**	**MON**	**TUE**	**WED**	**THUR**	**FRI**	**SAT**
	N	**N**	**N**	**N**	**N**	**N**	**N**
Annunciator 3D57, CIRC H_2O SYS DECANT LINE RADN MONITOR TROUBLE							
INITIALS							

SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

6.0 Residual Heat Removal (RHR) Shutdown Cooling--Cold Shutdown

Tech Spec	**NOTE (1):** Not applicable when heat losses to the ambient are greater than or equal to heat input to the reactor coolant. **NOTE (2):** Both RHR shutdown cooling subsystems and recirculation pumps may be removed from operation for up to 2 hours per 8 hour period. **NOTE (3):** One RHR shutdown cooling subsystem may be inoperable for up to 2 hours for the performance of Surveillances. SR 3.4.9.1 Applicability: MODE 4.
TRM	**NOTE:** Not applicable when heat losses to the ambient are greater than or equal to heat input to the reactor coolant. TRSR 3.4.4.1 Applicability: MODE 4.
Acceptance Criteria	**NOTE (1):** If Acceptance Criteria cannot be met, 24.000.01, Attachment 35, must be performed and a remark made in the Remarks section stating an alternate heat removal method is being employed. **NOTE (2):** By Control Room indication, 20 ft. 6 inches will indicate on either Floodup Indicator B21-R605 (when on extended range per 23.800.06, "Reactor Vessel Water Level Monitoring During Refueling Operations"), or B21-R613, Core Plate D/P Recorder (when modified per 23.800.06). **NOTE (3):** By visual observations: Overflow to Skimmer Surge Tank with weir at its lowest setting is approximately 20 ft. 8 inches above RPV flange. **NOTE (4):** Ambient losses must be such that no increase in Reactor Vessel water temperature will occur (even though COLD SHUTDOWN conditions are being maintained). 1) Two RHR shutdown cooling subsystems capable of taking suction from the reactor vessel through the RHR Heat Exchanger(s) with their associated cooling water available. 2) One RHR shutdown cooling subsystem or Recirculation Pump in operation. 3) Reactor Pressure Vessel Water Level ≥ 214 inches.

ITEM	SUN		MON		TUE		WED		THUR		FRI		SAT	
	N	D	N	D	N	D	N	D	N	D	N	D	N	D
Two RHR SDC subsystems OPERABLE														
One RHR or RR Pump operating and circulating Reactor Coolant														
Reactor Vessel Level from Flood Up Range Indicator (H11-P603)														
INITIALS														

SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

7.0 Source Range Monitor (SRM) Instrumentation (H11-P603)

Tech Spec	SR 3.3.1.2.3, Table 3.3.1.2-1, Function 1 Applicability: MODE 4. SR 3.3.1.2.4, Table 3.3.1.2-1, Function 1 Applicability: MODE 4. **NOTE (1):** Only determination of signal-to-noise ratio portion. **NOTE (2):** Signal-to-noise ratio not required to be determined when SRM count rate is ≥ 3.0 cps. **NOTE (3):** Not required to be performed until 12 hours after IRMs on Range 2 or below. SR 3.3.1.2.6, Table 3.3.1.2-1, Function 1 Applicability: MODE 4.
Acceptance Criteria	1) Two OPERABLE SRMs fully inserted. 2) Count Rate ≥ 3 cps (or > 0.7 cps when signal-to-noise ratio is ≥ 20:1). 3) CHANNEL CHECK Sat.

ITEM	SUN	MON	TUE	WED	THUR	FRI	SAT
	N	N	N	N	N	N	N
SRM Channel A (cps)							
SRM Channel B (cps)							
SRM Channel C (cps)							
SRM Channel D (cps)							
Number of SRMs Fully Inserted							
CHANNEL CHECK on Inserted SRMs							
INITIALS							

8.0 Condensate Storage Tank Level

Tech Spec	**NOTE (1):** Only one required CS subsystem may take credit for this option during OPDRVs. **NOTE (2):** Only required when Suppression Pool Water Level is <-66 inches. SR 3.5.2.2.b Applicability: MODE 4.
Acceptance Criteria	**NOTE (1):** Only required if Suppression Pool Water Level is below -66 inches, refer to Step 3.0. **NOTE (2):** If P11-R801 is inoperable, use local Indicator P11-R401 on H21-P492. ≥ 19 ft.

ITEM	SUN		MON		TUE		WED		THUR		FRI		SAT	
	N	D	N	D	N	D	N	D	N	D	N	D	N	D
Condensate Storage Tank Level P11-R801 (H11-P805)														
INITIALS														

SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

9.0 Outside Air Temperature

Other	NA Applicability: At all times.													
Acceptance Criteria	1) If Outside Air Temperature is ≥ 36°F, no further action is required. 2) If Outside Air Temperature is < 36°F, record lower temperature of E11-R412A or E11-R413A for Division 1, **and** E11-R412B or E11-R413B for Division 2. 3) If either Division 1 or Division 2 air gap temperature is < 36°F for 3 consecutive shifts, run **ALL** Service Water Pumps in **BOTH** Division 1 and 2, as follows: a) Notify Operations Engineer and/or Manager Nuclear Operations of intention to run Service Water Pumps in accordance with this procedure. b) Run all 5 Service Water Pumps in each Division (one Division at a time) for five minutes each in accordance with each pump's respective SOP and verify proper operating parameters with each pump's SOP. c) Log the pump runs in the Fermi 2 Unit Log. d) When all Service Water Pumps have been run, the requirement for 3 consecutive temperatures < 36°F restarts.													
ITEM	**SUN**		**MON**		**TUE**		**WED**		**THUR**		**FRI**		**SAT**	
	N	**D**	**N**	**D**	**N**	**D**	**N**	**D**	**N**	**D**	**N**	**D**	**N**	**D**
Control Room IPCS (MET Display) Computer Terminal MET Tower Outside Air Temperature (°F)	70.0													
Lower Temp of E11-R412A or E11-R413A	N/A													
Lower Temp of E11-R412B or E11-R413B	N/A													
INITIALS	JL													

SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

10.0 Secondary Containment Vacuum

NOTE: Correction Factor only needs to be calculated and applied if T41-R800A (B) recorder reading > -0.25 inches wc.

Tech Spec	SR 3.6.4.1.1 Applicability: During movement of recently irradiated fuel assemblies in the secondary containment. SR 3.10.1.1 (SR 3.6.4.1.1) Applicability: MODE 4 with average reactor coolant temperature > 200°F .						
Acceptance Criteria	> -2.5 inches wc and ≤ -0.125 inches wc.						
ITEM	**SUN**	**MON**	**TUE**	**WED**	**THUR**	**FRI**	**SAT**
	N	**N**	**N**	**N**	**N**	**N**	**N**
Secondary Contmt Diff Pressure (red pen) T41-R800A (H11-P808) [A]	N/A						
Secondary Contmt Diff Pressure (red pen) T41-R800B (H11-P817) [B]	N/A						
Sensor Location from Attachment 5, Step 5.0							
RB5 Temperature from IPCS Pt T41DT2408 (EOP Log No. 6) (°F)							
Outside Air Temperature from IPCS (MET Display) (°F)							
Enclosure B DP Correction Factor [C]							
Calculate Div 1 Secondary Containment Diff Pressure Corrected [A + C]							
Calculate Div 2 Secondary Containment Diff Pressure Corrected [B + C]							
INITIALS	N/A						

SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

11.0 At IPCS, perform the following:

a. Obtain Primary and Secondary meteorological data from IPCS view "Meteorological Data for Surveillance 24.000.02" (turn-on code METSURV) in accordance with 23.615, "Integrated Plant Computer System." Log all readings.

NOTE: The primary parameters are preferred. The secondary parameters for the CHANNEL CHECK should be used only if the corresponding primary parameter is not satisfactory.

*IF a channel fails its channel check, the suspect IPCS Point(s) shall be Deleted from Processing in accordance with 23.615, "Integrated Plant Computer System" and an Investigation/WO CARD initiated.

**IF dT is ≥ +5.0°C, initiate a Trending CARD. If dT is <-3.0°C for both channels, and both channels trend consistent with each other, initiate a Trend CARD to document the weather condition. If dT is <-3.0°C for one channel and both channels are divergent from each other by greater than 0.5°C, initiate an Investigation/WO CARD for the failed channel.

TRM	TRSR 3.3.13.1 Applicability: At all times.						
Acceptance Criteria	1) 10M and 60M Wind Direction has changed at least 10 deg. or Sigma T 10M is > 0.5 deg. in last 3 hours. 2) 10M and 60M Wind Speed (primary or secondary) is > 0.5 mph for at least one of the past 6 consecutive hours. 3) 10M and 60M Wind Speed is > 0 mph and < 56 mph. 4) dT between 10M and 60M is >-3.0°C and < 5.0°C** #. 5) CHANNEL CHECK Sat. *						
ITEM	**SUN**	**MON**	**TUE**	**WED**	**THUR**	**FRI**	**SAT**
	N	**N**	**N**	**N**	**N**	**N**	**N**
Wind Direction Change last 18 hours 60M ***	84.2						
Wind Direction Change last 18 hours 10M ****	91.3						
Primary Sigma Theta 10M Change last 3 hours ***/****	18						
Secondary Sigma Theta 10M Change last 3 hours ***/****	17						
Maximum wind Speed last 6 hours 60M	21						
Maximum wind Speed last 6 hours 10M	13						
Primary Wind Speed 60M	18						
Secondary Wind Speed 60M	19						
Primary Wind Speed 10M	12						
Secondary Wind Speed 10M	12						
Primary dT between 10M and 60M #	-0.47						
Secondary dT between 10M and 60M #	-0.51						
INITIALS	SL						

*** If IPCS point D40CB5276 "Wind Speed 60-M Calm Present" is "yes" acceptance criteria 1 is not applicable
**** If IPCS point D40CB5275 "Wind Speed 10-M Calm Present" is "yes" acceptance criteria 1 is not applicable
# If IPCS Point D40CB5271"Lake Breeze Status" is "yes" acceptance criteria 4 is not applicable

SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

Remarks/Notes

SUNDAY

Nights

D. Reeser	D. Reeser	DR
Performer's Name (Print)	Performer's Name (Sign)	Performer's Initials

8/29/2010 0200
Completed Date/Time

Tech Specs/TRM/ODCM/Other met on applicable steps ☐ Yes ☐ No

SM/CRS / Date

Days

Performer's Name (Print)	Performer's Name (Sign)	Performer's Initials

Completed Date/Time

Tech Specs/TRM/ODCM/Other met on applicable steps ☐ Yes ☐ No

SM/CRS / Date

SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

MONDAY

Nights

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ / Date _____

Days

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ / Date _____

TUESDAY

Nights

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ / Date _____

Days

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ / Date _____

SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

WEDNESDAY

Nights

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ / Date _____

Days

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ / Date _____

THURSDAY

Nights

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ / Date _____

Days

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ / Date _____

SHIFTLY/DAILY -- MODE 4 -- CONTROL ROOM

Week of 8/29/2010

FRIDAY

Nights

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ Date ____/____

Days

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ Date ____/____

SATURDAY

Nights

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ Date ____/____

Days

Performer's Name (Print) _____ Performer's Name (Sign) _____ Performer's Initials _____

Completed Date/Time _____

Tech Specs/TRM/ODCM/Other met on applicable steps ❑ Yes ❑ No

SM/CRS _____ Date ____/____