



FPL Energy.
Point Beach Nuclear Plant

FPL Energy Point Beach, LLC, 6590 Nuclear Road, Two Rivers, WI 54241

February 27, 2009

NRC 2009-0025
10 CFR 50.54(q)

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Point Beach Nuclear Plant, Units 1 and 2
Dockets 50-266 and 50-301
License Nos. DPR-24 and DPR-27

Revision To Emergency Plan

In accordance with 10 CFR 50.54(q), FPL Energy Point Beach, LLC, evaluated one procedure revision to the Point Beach Nuclear Plant (PBNP) Emergency Plan (EP). The evaluation concluded that the change did not result in a decrease of the effectiveness of the PBNP Emergency Plan.

Enclosed is a copy of the following procedure:

- EP Appendix M, Matrix For Emergency Preparedness Equipment, Revision 2, issued January 29, 2009.

Also enclosed is Revision 51 to the EP Index, issued January 29, 2009.

A copy of the complete PBNP EP Manual, containing the revised procedure, is being provided to the NRC Region III Incident Response Center on CD-ROM.

This letter contains no new commitments and no revisions to existing commitments.

Very truly yours,

FPL Energy Point Beach, LLC


Jim Costedio
Regulatory Affairs Manager

Enclosures (2)

cc: Incident Response Center, Region III (copy of PBNP EP Manual on CD-ROM)
Resident Inspector, Point Beach Nuclear Plant, USNRC

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AX45
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ENCLOSURE 1

**FPL ENERGY POINT BEACH, LLC
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2**

**EMERGENCY PLAN
EP INDEX**

REVISION 51, ISSUED JANUARY 29, 2009

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ENCLOSURE 2

**FPL ENERGY POINT BEACH, LLC
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2**

**EMERGENCY PLAN
EP APPENDIX M**

REVISION 2, ISSUED JANUARY 29, 2009

12 pages follow

MATRIX FOR EMERGENCY PREPAREDNESS
EQUIPMENT

Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
Control Room C02	1(2)B03/1(2)B04 1(2)A05/1(2)A06 Voltage Indication	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	480V and 4160V power to safeguards equipment.
Control Room C20	1D01-1D04 Battery Busses	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Supply DC power directly to operate selected emergency turbine generator auxiliaries and safeguard motor and solenoid operated valves.
Control Room C03	1(2)L-3586A Lake Pumpbay Level	DBD-T-41 Module A FSAR Section 10.1	Indication of lake pumpbay level and potential flooding.
Control Room C03	1(2)L-3586B Lake Forebay Level	DBD-T-41 Module A FSAR Section 10.1	Indication of lake forebay level and potential flooding.
Control Room C04	1(2)LI-426/-427/-428 LI-433A Pressurizer Level Indication	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors pressurizer level with LI-433 used during low temperature operations.
Control Room C04	1(2)LI-447/LI-447A Reactor Vessel Level Indicator (Low Range and High Range)	FSAR Section 4.0	Indication of reactor vessel level.
Control Room C03	1(2)LI-461/-462/-463 Narrow Range S/G Level	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors levels in each steam generator.
Control Room C03	1(2)LI-471/-472/-473 Narrow Range S/G Level	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors levels in each steam generator.
Control Room C01	1(2)LI-4107 Containment Sump A	Reg Guide 1.97, Rev 2	Indication of RCS leakage.
Control Room C04	1(2)PI-429/-430/-431/- 449 Pressurizer Pressure Indication	Reg Guide 1.97, Rev 2	Monitors pressurizer pressure.
Control Room C01	1(2)PI-945/-947/-949 Containment Pressure Narrow Range Indication	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Provides alarm and safety injection actuation logic.
Control Room C01	1(2)PI-946/-948/-950 Containment Pressure Wide Range Indication	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Provides alarm and steam line isolation.
Control Room C04	1(2)PR-420 Wide Range Pressure Reactor Coolant Hot Leg Pressure Recorder	Reg Guide 1.97, Rev 2	Monitors pressure on reactor coolant hot leg.

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EQUIPMENT

Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
66' Containment Hatch	1(2)RE-102 Containment U-2 Low Range U-1	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of dose rate within containment.
8' PAB CCP Area	1(2)RE-104 Charging Pump Room Low Range	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of dose rate by charging pump cubicles.
26'/PAB U-1(2) Sample Room	1(2)RE-106 Sample Room Low Range	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of dose rate inside sample room.
46' NE Qtr Containment	1(2)RE-107 Seal Table	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of dose rate near seal table.
26' PAB Sample Room	1(2)RE-109 Failed Fuel	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of failed fuel by monitoring the primary coolant sample line.
8' PAB CCP Area	1(2)RE-134 Charging Pump Room High Range	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of general area dose rates in the event low-range monitor pegs off-scale high.
26' PAB Sample Room	1(2)RE-136 Primary Sample Room High Range	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of general area dose rates in the event low-range monitor pegs off-scale high.
52' Façade	1(2)RE-211 Containment Air Particulate	Reg Guide 1.97, Rev 2	Indication of particulate activity inside containment façade or purge exhaust stack.
52' Façade	1(2)RE-211B Containment Background	Reg Guide 1.97, Rev 2	Indication of background activity for both 1(2)RE-211 and 1(2)RE-212.
52' Façade	1(2)RE-212 Containment Noble Gas	Reg Guide 1.97, Rev 2	Indication of containment noble gas activity. Isolate containment ventilation upon high activity.
44' TB by MSRs	1(2)RE-215 Condenser Air Ejector Noble Gas	VPNPD-85-537, 11/27/85 letter referencing Reg Guide 1.97, Rev 2	Indication of steam generator primary-to-secondary leak.
26' PAB by C59 Panel	1(2)RE-216 Containment Fan Coolers SW Return Liquid Process	Reg Guide 1.97, Rev 2	Indication of potential contamination of cooling water.
26' PAB by T-10A Monitor Tank	1(2)RE-216B Containment Fan Coolers Background	Reg Guide 1.97, Rev 2	Provides background data for the 1(2)RE-216 liquid process monitor.

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Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
8' PAB CCW Pump Area	1(2)RE-217 Component Cooling Water Liquid Process	Reg Guide 1.97, Rev 2	Indication of component cooling water contamination.
26' PAB Sample Room	1(2)RE-219 Steam Generator Blowdown Sample Line Monitor	Reg Guide 1.97, Rev 2	Indication of steam generator blowdown activity.
26' PAB Sample Room	1(2)RE-219B Steam Generator Blowdown Background	Reg Guide 1.97, Rev 2	Background activity level for 1(2)RE-219 liquid process monitor.
26' Façade	1(2)RE-222 Steam Generator Blowdown Tank Outlet Liquid Process	Reg Guide 1.97, Rev 2	Indication of activity level in blowdown tank.
8' Vital Switchgear Equip Area	1(2)RE-229 Service Water Discharge Process	Reg Guide 1.97, Rev 2	Monitors activity of service water discharge.
8' Vital Switchgear Equip Area	1(2)RE-229B Service Water Discharge Background	Reg Guide 1.97, Rev 2	Indication of background activity level for the 1(2)RE-229 monitor.
85' Façade Steam Safety Valves	1(2)RE-231-Line A 1(2)RE-232-Line B Steam Line Atmospheric Release	NPC-28427, 9/1/83 and VPNPD-85-282, 8/30/85 letters referencing Reg Guide 1.97, Rev 2	Monitors activity of steam released.
46' Rod Drive Rooms	1(2)RE-305 SPING Unit Containment Purge Exhaust Low Range Gas	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors noble gas activity in unit containment purge exhaust.
46' Rod Drive Rooms	1(2)RE-306 SPING Unit Containment Purge Exhaust Area	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors noble gas activity in unit containment purge exhaust.
46' Rod Drive Rooms	1(2)RE-307 SPING Unit Containment Purge Exhaust Mid Range Gas	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors noble gas activity in unit containment purge exhaust.
46' Rod Drive Rooms	1(2)RE-309 SPING Unit Containment Purge Exhaust High Range Gas	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors noble gas activity in unit containment purge exhaust.
60' CB Computer Room	1(2)RM-126 Containment High Range Monitor	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of failed fuel by monitoring general area dose rates under accident conditions.

MATRIX FOR EMERGENCY PREPAREDNESS
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Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
60' CB Computer Room	1(2)RM-127 Containment High Range Monitor	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of failed fuel by monitoring general area dose rates under accident conditions.
60' CB Computer Room	1(2)RM-128 Containment High Range Monitor	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of failed fuel by monitoring general area dose rates under accident conditions.
Control Room C04	1(2)TR-450A-D 1(2)TR-451A-D Hot Leg / Cold Leg Temperatures	Reg Guide 1.97, Rev 2	Provides signals to wide range recorders and C20 ASIP to monitor temperature during heatup and cooldown.
Control Room C02	1(2)X04 Auxiliary Transformer	FSAR Section 8	Provides power to auxiliary loads of a shutdown unit.
Control Room	Annunciator system	EP Appendix B EALs	Indication of overall plant alarming conditions.
Control Room	ASIP Panel (Fireworks Computer)	NUREG 0654 H.5.d Reg Guide 1.97 Rev 2	Indication of fire using smoke and heat activated detectors.
Control Room C01	C900 Fire Protection Panel	NUREG 0654 H.5.d	Indication of fire using smoke and heat activated detectors.
CR/TSC/EOF/AEOF/JPIC	Copier	NUREG 0696 (4.6)	Supports communications onsite and offsite.
Control Room	Core Exit Thermocouples (CETs)	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Provides temperature of the reactor core.
Control Room	D-400 to D-420 Fire Protection Panels Satellite	NUREG 0654 H.5.d	Indication of fire using smoke and heat activated detectors.
44' TB1 Telephone Equipment Room/SBCC	D-48 / D-59 Telecoms Battery Backups	10CFR50.72(a)(2) 10CFR50 App E(E9) NUREG 0696, 4.6 10CFR50 App E, NUREG 0737 Supp. 1, Section 8	Backup power sources for onsite and offsite communications systems.
OSC/OSRPF	Decontamination facilities	10CFR50 App E(E3)	Contamination event response.
CR/TSC/EOF/AEOF	Dose Assessment Hardware/Software	NUREG 0696 (4.5), 10CFR50 App E(E.2), 10CFR50.47(b)(9)	Perform dose assessment calculations for offsite impact.
CR/TSC/OSC/EOF/OSRPF	Emergency Ventilation System	Reg Guide 1.196, GDC 19, GL 2003-01 NUREG 0696 (pg 16) NUREG 0737 II.B.2, GL-91-014	Ensure habitability to emergency response facilities.

MATRIX FOR EMERGENCY PREPAREDNESS
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Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
60' CB Computer Room/ CR/TSC	ERDS Hardware/Software	NUREG 0696 (6.2) GL 89-015, GL 93-001, SECY 91-165, 10CFR50 App E VI	Provides plant system data to NRC.
Control Room	ERO Dialogic System	NUREG 0654 B	ERO activation using offsite system.
Control Room	ERO Pagers	NUREG 0654 B	ERO activation using offsite system.
CR/TSC/EOF/AEOF/JPIC	Fax machines	NUREG 0696 (4.6)	Supports communications onsite and offsite.
Control Room C04	FI-128 and FI-134 Charging/Letdown	NPC-30022, 7/11/86 letter referencing Reg Guide 1.97 Rev 2	Indication of the flow rate into the RCS.
Control Room C03	FI-4036 / FI-4037 Auxiliary Feedwater to S/G	Reg Guide 1.97, Rev 2	Monitors auxiliary feedwater flow to each steam generator.
Control Room C03	FI-464/FI-465 Steam Flow Indication	Reg Guide 1.97, Rev 2	Measure steam flow on "A" steam line.
Control Room C03	FI-466/FI-467 Feedwater Flow Indication	Reg Guide 1.97, Rev 2	Provide flow information for the feedwater control system.
Control Room C03	FI-474/FI-475 Steam Flow Indication	Reg Guide 1.97, Rev 2	Measures steam flow on "B" steam line.
Control Room C03	FI-476/FI-477 Feedwater Flow Indication	Reg Guide 1.97, Rev 2	Indication of feedwater flow.
CR/TSC/OSC/EOF/OSRPF	FM Radio Base Console and Site reentry FM radios	NUREG 0696, 3.3 NUREG 0696 4.6 10CFR50 App E(E9)	Direct voice intercommunications and/or reliable direct radio communications may be used to supplement telephone communication links.
G05 Building	G-501 Emergency Power	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2 NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2 FSAR Section 8	Alternate or backup power sources to maintain continuity of TSC functions.
CR/TSC	Gai-tronics	NUREG 0696	Backup communication to plant.

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Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
CR/TSC/OSC/ EOF/AEOF/ JPIC	LAN/WAN & equipment	NUREG 0696 4.6, 4.7 NUREG 0654 App 2, Reg Guide 1.97, Rev 2 Reg Guide 1.23	Data display and printout devices to maintain continuity of emergency response facility functions.
HWY Q & Twin Bridge Road	Meteorological - Inland Tower 10 meter wind direction	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors wind direction at El. 10 meters.
HWY Q & Twin Bridge Road	Meteorological - Inland Tower 10 meter wind direction Standard Deviation	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors standard deviation on wind direction at El. 10 meters.
HWY Q & Twin Bridge Road	Meteorological - Inland Tower 10 meter wind speed	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors wind speed at El. 10 meters.
HWY Q & Twin Bridge Road	Meteorological - Inland Tower 4 meter Temperature	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors temperature.
PBNP South	Meteorological - Primary Tower 10 meter delta T Reference	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors temperature for ΔT at El. 10 meters.

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Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
PBNP South	Meteorological - Primary Tower 10 meter wind direction	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors wind direction at El. 10 meters.
PBNP South	Meteorological - Primary Tower 10 meter wind speed	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors wind speed at El. 10 meters.
PBNP South	Meteorological - Primary Tower 10 meters wind direction Standard Deviation	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors wind direction. Monitors standard deviation of wind direction at El. 10 meters.
PBNP South	Meteorological - Primary Tower 10 to 45 meter delta T	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors temperature for ΔT at El. 45 meters.
PBNP South	Meteorological - Primary Tower 45 meter wind direction	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors wind direction at El. 45 meters.
PBNP South	Meteorological - Primary Tower 45 meter wind speed	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors wind speed at El. 45 meters.

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Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
PBNP North	Meteorological - Backup Tower 10 meter wind direction	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors wind direction at El. 10 meters.
PBNP North	Meteorological - Backup Tower 10 meter wind speed	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors wind speed at El. 10 meters.
PBNP North	Meteorological - Backup Tower 10 meters wind direction Standard Deviation	NUREG 0696 4.8, 10CFR50.47(b)(9), Reg Guide 1.23, 10CFR50 App E (E) NUREG 0654 App 2, NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors standard deviation of wind direction at El. 10 meters.
CR/TSC/EOF	NRC Federal Telephone System (FTS) Circuit - ENS	10CFR50.72 (a)(1) NUREG 0696 4.6 NUREG 0654 (F) 10CFR50 App E(E9)	Communications to the NRC Operations Center from the site emergency response facilities.
TSC/EOF/AEOF	NRC Federal Telephone System (FTS) Circuit - HPN	NUREG 0696 4.6 NUREG 0654 (F) 10CFR50 App E(E9)	Communications to the NRC Operations Center from the site emergency response facilities.
TSC/EOF/AEOF	NRC Federal Telephone System (FTS) Circuits - Counterparts	NUREG 0696, GL 91-014, SECY-91-303, SECY091-149, 10CFR50 App E(E9)	Communications to the NRC Operations Center from the site emergency response facilities.
Control Room C04	Nuclear Instrumentation System (NIS)	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors the status of the reactor power level in all modes of plant operation, as well as provide overpower trip protection for the reactor in the startup and power operation modes.
PAB	Post-Accident Sampling Systems (PASS)	NUREG 0654 NUREG 0737 II.B.3	Sample reactor coolant system or atmosphere due to fuel failure or loss of reactor coolant system integrity.

MATRIX FOR EMERGENCY PREPAREDNESS
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Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
CR/TSC/EOF/AEOF	PPCS	NUREG 0696 4.7, 4.8 NUREG 0654 App 2, Reg Guide 1.97 Rev 2, Reg Guide 1.23 Suitable isolation IAW GDC 24	Data source for plant assessment.
Control Room	RE-101 Control Room	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Shifts Control Room ventilation to 100% recirculation.
SSB Chem Lab	RE-103 Chem Lab	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of dose rates in chemistry lab and associated hallways.
66' PAB SFP Area	RE-105 Spent Fuel Pool Low Range	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of dose rates in the vicinity of the spent fuel pool.
26' PAB Drumming Area	RE-108 Drumming Station	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of dose rates within the drumming station.
8' PAB SI Pump Area	RE-110 SI Pump Low Range	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of dose rate in general area of safety injection pumps.
26' PAB C59 Area	RE-111 C59 Panel	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Provides general area dose rate near C59 panel.
8' PAB Central	RE-112 PAB	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Provides general area dose rate on EI 8' of primary auxiliary building.
-19' PAB	RE-113 EI-19' Aux Bldg	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Provides indication of dose rate in auxiliary building sump and general area of EI. -19'.
26' PAB West	RE-114 EI. 26' Aux Bldg	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of dose rates in cubicle.
26' PAB	RE-116 Letdown Valve Gallery	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of general area dose rate in letdown valve gallery.
66' PAB SFP	RE-135 Spent Fuel Pool High Range	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of general area dose rates in the event low-range monitor pegs off-scale high.
8' PAB SI Pump Area	RE-140 SI Pump Room High Range	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of general area dose rates in the event low-range monitor pegs off-scale high.

MATRIX FOR EMERGENCY PREPAREDNESS
EQUIPMENT

Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
80' U1 Façade	RE-214 Aux. Bldg. Vent Stack Noble Gas	Reg Guide 1.97, Rev 2	Indication of gaseous release from spent fuel pool area and the drumming station.
8' PAB East Waste Cond Tank	RE-218 Waste Disposal System Liquid Process	Reg Guide 1.97, Rev 2	Provides waste condensate activity being discharged.
8' PAB East Waste Cond Tank	RE-218B Waste Disposal System Background	Reg Guide 1.97, Rev 2	Provides background activity level for RE-218 liquid process monitor.
46' PAB SFP Area	RE-220 Spent Fuel Pool Heat Exchanger Service Water Liquid Process	Reg Guide 1.97, Rev 2	Provides indication of service water contamination from a spent fuel pool exchanger tube leak.
46' PAB SFP Area	RE-220B Spent Fuel Pool Heat Exchanger Service Water Background	Reg Guide 1.97, Rev 2	Provides background activity level for RE-220 liquid process monitor.
50' PAB Drumming Area Roof	RE-221 Drumming Area Vent Stack Noble Gas	Reg Guide 1.97, Rev 2	Indication of noble gas activity released from spent fuel pool and drumming area.
46' PAB East CCW HX	RE-223 Waste Distillate Discharge Liquid Process	Reg Guide 1.97, Rev 2	Monitors activity of waste distillate during discharge.
46' PAB East CCW HX Area	RE-223B Waste Distillate Discharge Background	Reg Guide 1.97, Rev 2	Provides background activity level for RE-223 liquid process monitor.
85' U2 Facade	RE-224 Gas Stripper Vent Stack Noble Gas	Reg Guide 1.97, Rev 2	Indication of gaseous release from letdown gas stripper building.
44' TB U1	RE-225 Combined Air Ejector Low-Range Noble Gas	VPNPD-85-537, 11/27/85 letter referencing Reg Guide 1.97, Rev 2	Indication of primary-to-secondary leak in steam generators.
44' TB U1	RE-226 Combined Air Ejector High-Range Noble Gas	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Indication of noble gas activity in combined air ejector discharge in the event RE-225 monitor is pegged off-scale high.
8' TB WT U2	RE-230 Waste Water Effluent	Reg Guide 1.97, Rev 2	Monitors activity level in waste water effluent.
8' TB U2	RE-230B Waste Water Effluent Background	Reg Guide 1.97, Rev 2	Provides background activity level for RE-230 liquid monitor.
74' CR/Comp Room Roof	RE-234 Control Room Iodine	Reg Guide 1.97, Rev 2	Monitors iodine activity in Control Room.

MATRIX FOR EMERGENCY PREPAREDNESS
EQUIPMENT

Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
74' CR/Comp Room Roof	RE-234B Control Room Background	Reg Guide 1.97, Rev 2	Provides background activity level for RE-234 iodine monitor.
74' CR/Comp Room Roof	RE-235 Control Room Noble Gas	Reg Guide 1.97, Rev 2	Monitors noble gas activity in Control Room.
18.5 TSC NW	RE-237, 238, 239, 240 Monitors	NUREG 0696 (2.6)	Monitors iodine and noble gas activity. Indication of general area dose rates in TSC.
SBCC	RE-241, 242, 243 Monitors	NUREG 0696 (4.5)	Monitors iodine and noble gas activity. Indication of general area dose rates in EOF.
46' U1 Rod Drive Room	RE-315 SPING Auxiliary Building Vent Low Range Gas	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors noble gas activity in the auxiliary building vent.
46' U1 Rod Drive Room	RE-316 SPING Auxiliary Building Exhaust Area	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors noble gas activity in the auxiliary building.
46' U1 Rod Drive Room	RE-317 SPING Auxiliary Building Vent Mid Range Gas	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors noble gas activity in the auxiliary building vent.
46' U1 Rod Drive Room	RE-319 SPING Auxiliary Building Vent High Range Gas	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors noble gas activity in the auxiliary building vent.
50' PAB Drumming Area Roof	RE-321 Drumming Area Exhaust	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors beta particulate activity in the auxiliary building vent.
50' PAB Drumming Area Roof	RE-325 SPING Drumming Area Vent Low Range Gas	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors noble gas activity in the auxiliary building vent.
50' PAB Drumming Area Roof	RE-326 SPING Drumming Area Exhaust Area	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors noble gas activity in the auxiliary building vent.
50' PAB Drumming Area Roof	RE-327 SPING Drumming Area Vent Mid Range Gas	NPC-28427, 9/1/83 letter referencing Reg Guide 1.97, Rev 2	Monitors noble gas activity in the auxiliary building vent.
Control Room C04/C01 C04/C02	Reactor Trip Pushbuttons	EP Appendix B EALs	Manual shutdown of reactor.
Control Room C01/C03	RHR/Safety Trains	FSAR Chapter 6, 9	Removes total decay heat load generated by the respective unit reactor plant during a cooldown following a shutdown.

MATRIX FOR EMERGENCY PREPAREDNESS
EQUIPMENT

Equipment or Indication Location	Equipment Name	Regulatory / Licensing Basis	Required EP Function Description
13.8 kV Switchgear	SEI-6210 Seismic Monitor	Base Commitment - 1 strong motion accelerograph. NUREG 0654 H.5.a FSAR 1.3, GDC	Detects seismic activity.
6.5' U1 Façade	SEI-6211 Seismic Monitor	Base Commitment - 1 strong motion accelerograph. NUREG 0654 H.5.a FSAR 1.3, GDC	Detects seismic activity.
26' PAB Drumming Area	SEI-6212 Seismic Monitor	Base Commitment - 1 strong motion accelerograph. NUREG 0654 H.5.a FSAR 1.3, GDC	Detects seismic activity.
8' Vital Switchgear Equip Room	SEI-6213 Seismic Monitor	Base Commitment - 1 strong motion accelerograph. NUREG 0654 H.5.a FSAR 1.3, GDC	Detects seismic activity.
Offsite PBNP EPZ	Sirens P-001 to P-014 K-001 to K-008	NUREG 0654 FEMA REP 10	Prompt offsite notification system.
CR/TSC/EOF/AEOF	State/County Notification System	10CFR50 App E(E9) 10CFR50.47 (b)(6)	Communications with State and local operations centers.
8' PAB C59 Alarm	T-19 Waste holdup Tank	EP Appendix B EALs	Detects high volumes of potentially radioactive and radioactive liquids.
Control Room	Telecom System Inter-Plant Trouble Alarm	EP 7.0	Communicate to power system control center if rapid power reduction is being done.
CR/TSC/OSC/EOF/AEOF/JPIC	Telecom Systems	10CFR50.72(a)(2) 10CFR50 App E(E9) NUREG 0696, 3.3, 4.6 10CFR50 App E.9.b NUREG 0737 Supp. 1, Section 8	One onsite and one offsite communications system (see D-48/D-59).