

Attachment 1

Revised Emergency Plan Implementing Procedure

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Procedure Usage Requirements	Sections
REFERENCE USE <ul style="list-style-type: none"> • Review and understand the procedure before performing any steps, including the prerequisite section. • Have a copy or applicable pages/sections open at the work site. • Use Placekeeping method according to SO123-XV-HU-3. • If any portion of the document is performed from memory, do so in the sequence specified. Perform each step as written, except when an approved process specifically allows deviation. • Refer to the procedure or instruction at least once to ensure completion of the task in accordance with the requirements. • Review the document at the completion of the task to verify that all appropriate steps are performed and documented. 	ALL

Color Usage	Location
This Document Does Not Contain Relevant Color	All

QA PROGRAM AFFECTING

50.59 DNA / 72.48 DNA / 50.54(q) APPLIES

Procedure Type
General

Procedure Owner
Kelli Gallion

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1.0 PURPOSE AND SCOPE

- 1.1 To ensure the Permanently Defueled Emergency Plan (PDEP), consisting of San Onofre Nuclear Generating Station (SONGS) Permanently Defueled Emergency Plan (PDEP-1) and San Onofre Nuclear Generating Station (SONGS) Permanently Defueled Emergency Plan Emergency Action Level Technical Bases Manual (PDEP-2), and its implementing procedures (listed on Appendix 2 of PDEP-1), required by 10 CFR 50.47(b) and 10 CFR 50 Appendix E, as exempted, and other Emergency Preparedness related documents, equipment and facilities, are maintained current.
- 1.2 To provide guidance for maintenance and control of the following:
- San Onofre Nuclear Generating Station (SONGS) Permanently Defueled Emergency Plan (PDEP-1),
 - San Onofre Nuclear Generating Station (SONGS) Permanently Defueled Emergency Plan Emergency Action Level Technical Bases Manual (PDEP-2),
 - PDEP Implementing Procedures (listed on Appendix 2 of PDEP-1),
 - Manual of Emergency Events (MOEE),
 - Letters of Agreement (listed on Appendix 3 of PDEP-1),
 - ERO recall information,
 - Records Management PDEP-1, PDEP-2, and MOEE Distribution Matrix,
 - Matrix of Periodic Drill and Exercises Objectives
- 1.3 To ensure equipment used for emergency classification and response is properly maintained in a state of readiness. Equipment whose surveillance or testing is covered by Technical Specifications or Licensee Controlled Specifications is outside the scope of this program.
- 1.4 To define the responsibilities for surveillance and maintenance of emergency response equipment and the reporting of equipment status.
- 1.5 To provide the process for identifying emergency response equipment, communicating equipment issues, using appropriate compensatory measures, and applying an appropriate priority to the restoration of the equipment or facilities.
- 1.6 To test emergency communications with State, Local, and Federal authorities and to test telecommunication equipment in the Command Center in accordance with 10 CFR 50, Appendix E, Section IV.E.9.a-d, as exempted.
- 1.7 To identify, report and track emergency communications equipment malfunctions.

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2.0 **RESPONSIBILITIES**

NOTE

Some Permanently Defueled Emergency Plan Equipment program elements are administered by other departments with Emergency Preparedness (EP) oversight. Refer to Attachment 1 to identify the Cognizant Divisions for specific equipment.

2.1 **Emergency Preparedness Manager:**

- 2.1.1 Maintaining and controlling the PDEP and related documents, and coordinating reviews and changes to those documents as specified in this procedure.
- 2.1.2 Designating technical reviewers for changes other than editorial for PDEP-1, PDEP-2, or Implementing Procedures as needed.
- 2.1.3 Maintaining oversight of emergency response equipment and facilities, as well as ensuring work and change-related processes include appropriate screening requirements to identify impacts to the PDEP.
- 2.1.4 Maintaining and inspecting emergency response equipment and supplies not assigned to other groups.

2.2 **Onsite Review Committee (OSRC):**

- 2.2.1 Reviewing and approving changes other than editorial for PDEP-1 and PDEP-2.

2.3 **Cognizant Divisions (SCE and SDS) (listed in Attachment 1):**

- 2.3.1 Scheduling, inspecting, and maintaining equipment contained under their area of responsibility in accordance with associated procedures and SONGS Preventive Maintenance Program.
- 2.3.2 Notifying the Shift Manager when maintenance and inspection activities reveal deficiencies resulting in equipment being out of service for other than planned maintenance.

2.4 **Shift Manager (SM) / Emergency Director (ED):**

- 2.4.1 Performing SO123-XV-52, Operability Determinations and Functionality Assessments.
- 2.4.2 Performing SO123-0-A7, Notification and Reporting of Significant Events.
- 2.4.3 Ensuring appropriate actions, including identification, tracking, and compensatory measures, are taken when Emergency Response equipment or facilities are degraded or removed from service.

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2.4.4 Maintaining the Command Center in a state of readiness as the primary Emergency Response Facility.

2.5 **Engineering Managers (SCE and SDS):**

NOTE

Each Engineering group, DA Engineering or SDS Engineering, provides support for equipment under their responsibility, e.g., DA Engineering provides support for ISFSI equipment.

2.5.1 Determining equipment and system availability when equipment deficiencies are identified.

2.5.2 Ensuring a design change process identifies any impacts to emergency plan commitments and emergency response capabilities.

2.6 **SCE NRA Manager:**

2.6.1 Providing guidance on compliance with the station licensing basis and related reportability issues.

2.7 **Maintenance and Work Control Managers (SDS):**

2.7.1 Ensuring that work on emergency response equipment within the scope of the work control program is appropriately prioritized and scheduled.

2.8 **SDS will perform Emergency Preparedness functions and support per SDS-EP1-PLN-0001, including but not limited to the following:**

2.8.1 Performing inventory and restocking equipment and supplies for the Emergency Kits.

2.8.2 Performing routine and emergent maintenance on onsite EP equipment when the appropriate functional areas have been implemented.

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3.0 DEFINITIONS

NOTE
 PDEP contains additional definitions and acronyms applicable to Emergency Preparedness Program.

- 3.1 **Annual:** At least once per calendar year, January 1 to December 31
- 3.2 **Compensatory Measure:** A temporary means of mitigating the degradation or loss of an emergency response function, or of maintaining the emergency response function until the equipment is restored to a fully functional condition.
- 3.3 **Emergency Response Equipment:** Systems, structures, and components, as well as tools and equipment, necessary to implement the emergency plan.
- 3.4 **Monthly:** At least once per calendar month.
- 3.5 **Quarterly:** At least once in each of the following four periods: January 1 through March 31; April 1 through June 30; July 1 through September 30; October 1 through December 31.

4.0 PRECAUTIONS

- 4.1 The Permanently Defueled Emergency Plan is designed as a last line of defense to address design basis accident events at a nuclear power plant, including the capability of protecting public health and safety during and following the event. Therefore, regulations that govern emergency plan equipment may require more timely restoration than technical specifications or other administrative controls.
- 4.2 Emergency Response Equipment must be capable of functioning at all times. If there is a loss of function, compensatory measures must be evaluated and used to restore the function until the equipment is repaired.
- 4.3 A loss of function of the Permanently Defueled Emergency Plan requires a determination regarding reportability in accordance with SO123-0-A7 (10 CFR 50.72).

5.0 PREREQUISITES

- 5.1 **VERIFY** this document is current by using one of the methods described in SO123-XV-HU-3.
- 5.2 **VERIFY** Level of Use requirements on the first page of this procedure.

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NOTE

Steps in this procedure may be performed in any order as long as the intent is not changed.

6.0 PROCEDURE

6.1 PDEP-1, PDEP-2, and Implementing Procedures Revisions

- 6.1.1 Revise PDEP-1, PDEP-2 or Implementing Procedures (listed on Appendix 2 of PDEP-1) in accordance with station procedure revision requirements (reference SO123-XV-109.1).
- 6.1.2 Prior to issuing PDEP-1, PDEP-2, or Implementing Procedures, ensure:
- 6.1.2.1 10 CFR 50.54(q) screen/evaluation has been performed in accordance with SO123-VIII-ADMIN-4, and the results indicate that the changes can be made without prior NRC approval,
- OR
- 6.1.2.2 approval from the NRC to make the changes has been received.
- 6.1.3 Changes other than editorial to PDEP-1 and PDEP-2 require the following additional review and approval:
- Independent technical review
 - Third party review of 10 CFR 50.54(q) Screening/Evaluation
 - NRA compliance review
 - Onsite Review Committee (OSRC) review and approval
- 6.1.4 Changes to PDEP-2 EALs require validation to ensure the EALs can be implemented in a timely manner.
- 6.1.5 PDEP-1, PDEP-2, and Implementing Procedures are distributed to locations responsible for PDEP implementation on a controlled basis in accordance with Records Management Distribution List.
- 6.1.6 Communicate changes to Emergency Preparedness documents to affected ERO personnel as directed by the Emergency Preparedness Manager.
- 6.1.7 Initiate an Action Request assignment for the 30-day NRC notification requirement when PDEP-1, PDEP-2, or Implementing Procedures are issued.

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6.1.8 Provide EP(123) SOA form to Licensing Engineer within 15 days of PDEP-1, PDEP-2, or Implementing Procedure issuance, when the revision of these documents required a full 10 CFR 50.54(q) Evaluation using EP(123) QEV.

6.2 Lower-tiered Document Revisions

6.2.1 Revise lower-tiered documents not listed in Appendix 2 of PDEP-1 in accordance with station procedure revision requirements (reference SO123-XV-109.1).

6.2.2 Review technical changes to EP(123) NF, Notification Form, that affect items covered in PDEP-1, Part II, Section E, with Cal OES, Marine Corps Camp Pendleton, Orange County, and San Diego County.

6.2.2.1 Document review and concurrence under the Action Request tracking the changes.

6.2.3 A change to lower-tiered documents does not normally require a 10 CFR 50.54(q) screen/evaluation

- IF an Emergency Plan requirement is removed from the Emergency Plan **AND** relocated to a lower tiered document, THEN the lower tiered document must be reviewed in accordance with 10 CFR 50.54(q). In this case, the lower tiered document now contains the Emergency Plan license requirement **AND** should be listed in Appendix 2 of PDEP-1.

6.2.4 Communicate changes to Emergency Preparedness documents to affected ERO personnel as directed by the Emergency Preparedness Manager.

6.3 Review of Emergency Preparedness Documents

6.3.1 Emergency Preparedness personnel or designee shall review PDEP-1 annually to identify changes to be incorporated in the next revision.

6.3.1.1 Document review on Attachment 2.

6.3.2 Emergency Preparedness personnel or designee shall review PDEP-2, MOEE and EP(123) EAL annually to identify changes to be incorporated in the next revision (CA 202827656-0018).

6.3.2.1 Document review on Attachment 2.

6.3.3 Emergency Preparedness personnel or designee shall coordinate PDEP requirements with Physical Security Plan (PSP) and Safeguards Contingency Plan (SCP) requirements and review them annually.

6.3.3.1 Document review on Attachment 3.

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- 6.3.4 Emergency Preparedness personnel or designee shall be responsible for reviewing the EALs with the State and local jurisdictions on an annual basis.
 - 6.3.4.1 Document review on Attachment 4.
- 6.3.5 Emergency Preparedness personnel or designee shall review agreements involving firefighting, rescue, transport of injured person, medical treatment, law enforcement, local agencies, and laboratory contracts annually to ensure documents are current.
 - 6.3.5.1 Document review on Attachment 5.
- 6.3.6 Emergency Preparedness personnel or designee shall review Emergency Response Directory quarterly to ensure ERO recall information (names and numbers), support personnel, and applicable offsite organizations is maintained current.
 - 6.3.6.1 Document review on Attachment 6.
- 6.3.7 Emergency Preparedness personnel or designee will review Records Management Distribution Matrix for PDEP-1 and MOEE annually to verify distribution information is maintained current.
 - 6.3.7.1 Document review on Attachment 7.
- 6.3.8 Emergency Preparedness personnel or designee shall review EP(123) PDE against accomplished objectives frequently enough to ensure all required objectives have been accomplished or scheduled within their periodicity (recommend review completed by second quarter).
 - 6.3.8.1 Document review on Attachment 8.
 - 6.3.8.2 Emergency Preparedness personnel or designee shall complete EP(123) PDE during the fourth quarter.
 - 6.3.8.3 Document completion on Attachment 8.
- 6.3.9 Emergency Preparedness personnel or designee will review On-Shift ERO Roster Exception Report quarterly to ensure On-Shift requirements are met.
 - 6.3.9.1 Document review on Attachment 9.
- 6.3.10 Emergency Preparedness personnel will **NOTIFY** offsite response organizations of updates to the PDEP-1, PDEP-2, or Implementing Procedures (listed on Appendix 2 of PDEP-1) on an annual basis.
 - 6.3.10.1 Document review on Attachment 20.

6.4 Emergency Response Equipment Inspections

- 6.4.1 SDS Maintenance personnel or designee will perform inventory of damage control and mitigation equipment under their responsibility in EP(123) EKIL, quarterly, or within 7 days after each use, and forward a copy of the inventory to Emergency Preparedness.
- 6.4.1.1 A system of sealed containers may be used versus actual performance of item-by-item inventory.
- 6.4.1.2 Document inventory receipt on Attachment 10.
- 6.4.2 SDS Radiation Protection personnel or designee will perform inventory of radiation protection equipment and supplies under their responsibility in EP(123) EKIL, quarterly, or within 7 days after each use, and forward a copy of the inventory to Emergency Preparedness.
- 6.4.2.1 A system of sealed containers may be used versus actual performance of item-by-item inventory.
- 6.4.2.2 Document inventory receipt on Attachment 10.
- 6.4.3 Emergency Preparedness personnel or designee will perform visual inspection and supplies inventory of the Site Assembly Areas quarterly, or within 7 days after each use.
- 6.4.3.1 A system of sealed containers may be used versus actual performance of item-by-item inventory.
- 6.4.3.2 NOTIFY site personnel of changes in Site Assembly Area locations or availability.
- 6.4.3.3 Document inspection and inventory on Attachment 10.
- 6.4.4 Operations personnel or designee will perform inventory of the ERO Notebooks, First Aid Kit, and miscellaneous supplies under their responsibility in EP(123) EKIL, quarterly, or within 7 days after each use, and forward a copy of the inventory to Emergency Preparedness.
- 6.4.4.1 A system of sealed containers may be utilized versus actual performance of item-by-item inventory.
- 6.4.4.2 Document inventory on Attachment 10.
- 6.4.5 Emergency Preparedness personnel or designee will perform visual inspection of Site Evacuation Route signs annually.
- 6.4.5.1 Document inventory on Attachment 19.

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6.4.6 Emergency Preparedness personnel or designee will perform an inventory of supplies maintained at Hospitals annually, or within 7 days after each use.

6.4.6.1 Document inventory on EP(123) HIL.

6.4.6.2 Document completion of inventory on Attachment 21.

6.5 Emergency Response Communication Tests

6.5.1 Operations personnel or designee shall perform communications test with the Cal OES, Orange County, San Diego County and Marine Corps Base, Camp Pendleton monthly.

6.5.1.1 Document test on Attachment 11.

6.5.2 Operations personnel or designee shall perform communications test with the NRC Headquarters monthly.

6.5.2.1 Document test on Attachment 11.

6.5.3 Operations personnel or designee will perform communications test of Command Center Emergency Kit Radios and cellular phones quarterly.

6.5.3.1 Document test on Attachment 12.

6.5.4 Security personnel or designee will perform communications test of Command Center satellite phones and staging area satellite phones quarterly.

6.5.4.1 Document test on Attachment 12.

6.6 Onsite Emergency Siren Systems Tests

6.6.1 Operations personnel or designee shall perform PA Siren Tone Generator test annually.

6.6.1.1 Document test on Attachment 13.

6.6.2 Operations personnel or designee shall perform Units 2/3 Thunderbolt Siren test annually.

6.6.2.1 Document test on Attachment 14.

6.6.3 Operations personnel or designee shall perform Units 2/3 Buildings and Grounds OESS test annually.

6.6.3.1 Document test on Attachment 15.

6.6.4 Operations personnel or designee shall perform Units 2/3 Containment OESS test annually if Containment is open and accessible.

6.6.4.1 Document test on Attachment 16.

6.6.5 Operations personnel or designee shall perform Perimeter Public Address System (PPAS) test quarterly from different locations based on the calendar quarter in which the surveillance is scheduled.

6.6.5.1 Document test on Attachment 17.

6.7 **Identifying Emergency Response Equipment**

6.7.1 Emergency response equipment may be identified by checking the list contained in Attachment 1.

6.7.2 Personnel discovering emergency response equipment not listed in Attachment 1 should **GENERATE** appropriate deficiency tracking documents (e.g., Trouble Ticket, IT request, Action Request, Condition Report).

6.8 **Discovery of Degraded or Nonfunctional Emergency Response Equipment**

6.8.1 Personnel discovering problems with emergency response equipment should:

6.8.1.1 **GENERATE** appropriate deficiency tracking documents (e.g., Trouble Ticket, IT request, Action Request, Condition Report).

6.8.1.2 **NOTIFY** the Shift Manager.

6.8.2 WHEN notified of nonfunctional or degraded emergency response equipment, THEN the Shift Manager will consult Attachment 1 to identify compensatory measures.

6.8.3 **VERIFY** compensatory measures are available:

6.8.3.1 **USE** compensatory measures (if action is required) immediately following equipment loss or facility functional failure.

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- 6.8.4 IF compensatory measures are **NOT** available, OR Attachment 1 only states repair or replacement, THEN
- 6.8.4.1 The Shift Manager should complete Attachment 18 to identify and evaluate the appropriate use of interim compensatory measures.
- 6.8.4.1.1 The Shift Manager may consult with the Emergency Preparedness Manager or other subject matter experts when developing and approving interim compensatory measures in Attachment 18.
- 6.8.4.1.2 IF an appropriate reviewer is not available, THEN the Shift Manager may sign Attachment 18 as the reviewer.
- 6.8.5 The Shift Manager will **NOTIFY** the Emergency Preparedness Manager of the nonfunctional or degraded emergency response equipment and compensatory measures used.
- 6.8.6 The Shift Manager will **PRIORITIZE** equipment restoration in a timely manner.
- 6.8.7 The Shift Manager will **ADD** nonfunctional or degraded emergency response equipment requiring compensatory actions to the Shift Manager Shift Relief Status Sheet, including the compensatory measures being used.
- 6.8.7.1 Where Attachment 1 equipment includes multiple components (i.e., phones, PA speakers, sirens, computer systems, emergency kits), the equipment should only be included in the Shift Manager Shift Relief Status Sheet if there is a complete loss of the system/function, or a significant portion thereof.
- 6.8.7.2 For an **UNPLANNED** loss of equipment used to determine if EAL criteria are met (i.e., rad monitors), the equipment should be included in the "Operations Focus Items" section of the Shift Manager Shift Relief Status Sheet to support the timely repair of this equipment.

6.9 Planned Maintenance Affecting Emergency Response Equipment

- 6.9.1 Personnel identifying emergency response equipment that will be degraded or rendered nonfunctional as the result of planned maintenance should consult the Shift Manager to identify compensatory measures. The Shift Manager will:
- 6.9.2 **VERIFY** compensatory measures listed in Attachment 1 are available.
- 6.9.2.1 **ENSURE** compensatory measures are established prior to starting work.

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6.9.3 IF compensatory measures are **NOT** available, OR Attachment 1 only states repair or replacement, THEN

6.9.3.1 The Shift Manager may permit equipment to be removed from service for maintenance or surveillance testing if:

- Personnel removing the equipment from service remain in the immediate area.

AND

- The equipment can be restored to service immediately when notified by the Control Room.

6.9.3.2 IF the conditions of Step 6.9.3.1 cannot be met, THEN the Shift Manager may implement interim compensatory measures according to Attachment 18.

- **COMPLETE** Attachment 18.
- **ENSURE** interim compensatory measures from Attachment 18 are established prior to starting work.

6.9.4 The Shift Manager will **NOTIFY** the Emergency Preparedness Manager of the nonfunctional or degraded emergency response equipment and compensatory measures used.

6.9.5 SDS Work Control should **PLAN** work activities to minimize the time equipment is degraded or nonfunctional.

6.9.6 The Shift Manager will **ADD** nonfunctional or degraded emergency response equipment requiring compensatory actions to the Shift Manager Shift Relief Status Sheet, including the compensatory measures being used.

6.9.6.1 Where Attachment 1 equipment includes multiple components (i.e., phones, PA speakers, sirens, computer systems, emergency kits), the equipment should only be included in the Shift Manager Shift Relief Status Sheet if there is a complete loss of the system/function, or a significant portion thereof.

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6.10 Restoration of Emergency Response Equipment

- 6.10.1 Emergency Response equipment and facilities should be restored to service with a priority commensurate with the significance of the associated emergency response function.
- 6.10.2 Work Control should notify the Shift Manager of any work on Emergency Response equipment that is over schedule or at risk.
 - 6.10.2.1 The Shift Manager will **NOTIFY** the Emergency Preparedness Manager.
- 6.10.3 The organization completing the work should **NOTIFY** the Shift Manager when work is complete and the equipment is restored to service.
 - 6.10.3.1 The Shift Manager will **NOTIFY** the Emergency Preparedness Manager.
 - 6.10.3.2 The Shift Manager will remove the equipment and compensatory measures from the Shift Manager Shift Relief Status Sheet.

7.0 RETENTION OF RECORDS

- 7.1 A history file for revised PDEP-1, PDEP-2, or Implementing Procedures (listed on Appendix 2 of PDEP-1), and MOEE shall be retained in SAP for six years after the date of each change.
- 7.2 Completed Attachments for monthly and quarterly reviews and inspections shall be scanned into eDMRM on a quarterly basis prior to the end of the following quarter using RPA 99-0119E.
- 7.3 Completed Attachments for annual reviews and inspections shall be scanned into eDMRM on an annual basis within three months prior to the end of the following quarter using RPA 99-0119E.
- 7.4 Completed copies of Attachments for monthly, quarterly, and annual reviews and inspections shall be retained in EP files for at least six years for the purpose of facilitating inspections and assessments.

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8.0 REFERENCES / COMMITMENTS

8.1 Implementing Reference

8.1.1 Procedures

- 8.1.1.1 SO123-XVIII-11.8, Perimeter Public Address System (PPAS) Surveillance and Inspection
- 8.1.1.2 SO123-XV-HU-3, Human Performance Program
- 8.1.1.3 SO123-XV-109.1, Processing Procedures, Instructions, Periodic Reviews, and Forms
- 8.1.1.4 SO123-XV-52, Operability Determinations and Functionality Assessments
- 8.1.1.5 SO123-0-A7, Notification and Reporting of Significant Events
- 8.1.1.6 SO123-VIII-ADMIN-4, 10CFR50.54(q) Screenings and Evaluations
- 8.1.1.7 SO123-VIII-ERO-2, Shift Manager/Emergency Director Checklist
- 8.1.1.8 SO23-3-2.11.2, Spent Fuel Pool Cooling Island Operation
- 8.1.1.9 SO23-3-2.11.3, Spent Fuel Pool Cooling Island Off-Normal Actions
- 8.1.1.10 SO23-3-2.20.1, Meteorological Display System Operation
- 8.1.1.11 SO23-6-31, Communication Systems Operation
- 8.1.1.12 SDS-EP1-PLN-0001, Emergency Preparedness and Response Support Plan

8.1.2 Forms

- 8.1.2.1 EP(123) PDE, Matrix of Periodic Drill and Exercises Objectives
- 8.1.2.2 EP(123) EKIL, Emergency Kit Inventory List
- 8.1.2.3 EP(123) EAL, Emergency Action Levels
- 8.1.2.4 EP(123) HIL, Hospital Inventory List
- 8.1.2.5 EP(123) NF, Notification Form
- 8.1.2.6 EP(123) SOA, San Onofre Nuclear Generating Station Report and Analysis Summary 10 CFR 50.54(q)(5)

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8.2 Developmental References

8.2.1 Commitments

- 8.2.1.1 SONGS Permanently Defueled Emergency Plan, Volume 1
- 8.2.1.2 SONGS Permanently Defueled Emergency Plan, Volume 2, EAL Technical Bases Manual
- 8.2.1.3 Technical Specifications
- 8.2.1.4 SO123-ODCM, SONGS Offsite Dose Calculation Manual (ODCM)
- 8.2.1.5 SONGS 2 & 3 UFSAR Section 9.5.2.2.1.3, Emergency Evacuation Alarm System
- 8.2.1.6 SONGS 2 & 3 UFSAR Section 2.1.2, Exclusion Area Authority and Control
- 8.2.1.7 SONGS 2 & 3 UFSAR Figure 2.1-5

8.2.2 Procedures

- 8.2.2.1 SO123-V-19, SONGS Preventive Maintenance (PM) Program
- 8.2.2.2 SO123-VI-29, Records Management
- 8.2.2.3 SO123-VIII-ADMIN-2, Emergency Preparedness Program Training
- 8.2.2.4 SO123-VIII-ADMIN-3, Emergency Preparedness Program Drill Development and Evaluation
- 8.2.2.5 SO123-XII-18.1, Audit Program Implementation

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Emergency Plan Equipment

Attachment 1

Equipment	Description / Function	Equipment ID / Functional Location	Compensatory Measures (See Procedure Sections 6.8, 6.9, and 6.10)	Reference	Cognizant Division
Unit 2 Plant Vent Stack Radiation Monitor	Gaseous Effluent Radiation Monitor Unit 2 PVS	2RE7865	<ol style="list-style-type: none"> 1. Ensure 3RE7865 is functional and aligned to the plant vent stack. 2. If 3RE7865 is nonfunctional or not aligned to the plant vent stack, <u>then</u> monitor 2/3RE7808. <ol style="list-style-type: none"> 2.1 If 2/3RE7808 reaches 2 times the ODCM limit, <u>then</u>: <ol style="list-style-type: none"> 2.1.1 Evaluate for EAL PD-AU1.2 entry; 2.1.2 Perform dose assessment based on sample analysis or field readings, and evaluate for EALS PD-AA1.2 or PD-AA1.4 entry. 3. If 2/3RE7808 is nonfunctional, <u>then</u> collect grab samples at least once per 12 hours, and analyze them within 4 hours of collection time. <ol style="list-style-type: none"> 3.1 If sample analysis shows increase in radioactivity, <u>then</u> increase grab sample frequency to at least once per 4 hours, and analyze samples as soon as possible following collection. 3.2 If analysis result reaches 2 times the ODCM limit, <u>then</u>: <ol style="list-style-type: none"> 3.2.1 Evaluate for EAL PD-AU1.2 entry; 3.2.2 Perform dose assessment based on sample analysis or field readings, and evaluate for EALS PD-AA1.2 or PD-AA1.4 entry. 	PDEP-2: PD-AU1, PD-AA1 Effluent Monitor; PDEP-1: H.5, I.1	MAINT/ENG/RP, CHEM, & ENV
Unit 3 Plant Vent Stack Radiation Monitor	Gaseous Effluent Radiation Monitor Unit 3 PVS	3RE7865	<ol style="list-style-type: none"> 1. Ensure 2RE7865 is functional and aligned to the plant vent stack. 2. If 2RE7865 is nonfunctional or not aligned to the plant vent stack, <u>then</u> monitor 2/3RE7808. <ol style="list-style-type: none"> 2.1 If 2/3RE7808 reaches 2 times the ODCM limit, <u>then</u>: <ol style="list-style-type: none"> 2.1.1 Evaluate for EAL PD AU1.2 entry; 2.1.2 Perform dose assessment based on sample analysis or field readings, and evaluate for EALS PD-AA1.2 or PD-AA1.4 entry. 3. If 2/3RE7808 is nonfunctional, <u>then</u> collect grab samples at least once per 12 hours, and analyze them within 4 hours of collection time. <ol style="list-style-type: none"> 3.1 If sample analysis shows increase in radioactivity, <u>then</u> increase grab sample frequency to at least once per 4 hours, and analyze samples as soon as possible following collection. 3.2 If analysis result reaches 2 times the ODCM limit, <u>then</u>: <ol style="list-style-type: none"> 3.2.1 Evaluate for EAL PD-AU1.2 entry; 3.2.2 Perform dose assessment based on sample analysis or field readings, and evaluate for EALS PD-AA1.2 or PD-AA1.4 entry. 	PDEP-2: PD-AU1, PD-AA1 Effluent Monitor; PDEP-1: H.5, I.1	MAINT/ENG/RP, CHEM, & ENV
Unit 2/3 Plant Vent Stack Radiation Monitor	Gaseous Effluent Radiation Monitor Unit 2/3 PVS	2/3RE7808	<ol style="list-style-type: none"> 1. Ensure 2RE7865 or 3RE7865 is functional and aligned to the plant vent stack. 2. If 2RE7865 and 3RE7865 is nonfunctional or not aligned to the plant vent stack, <u>then</u> collect grab samples at least once per 12 hours, and analyze them within 4 hours of collection time. <ol style="list-style-type: none"> 2.1 If sample analysis shows increase in radioactivity, <u>then</u> increase grab sample frequency to at least once per 4 hours, and analyze samples as soon as possible following collection. 2.2 If analysis result reaches 2 times the ODCM limit, <u>then</u>: <ol style="list-style-type: none"> 2.2.1 Evaluate for EAL PD-AU1.2 entry; 2.2.2 Perform dose assessment based on sample analysis or field readings, and evaluate for EALS PD-AA1.2 or PD-AA1.4 entry. 	PDEP-2: PD-AU1 Effluent Monitor; PDEP-1: H.5, I.1	MAINT/ENG/RP, CHEM, & ENV
NIA Yard Drain Sump Radiation Monitor	Liquid Effluent Radiation Monitor North Industrial Area Yard Drainage Sump	2/3RE2101	<ol style="list-style-type: none"> 1. If 2/3RE2101 is nonfunctional and an operationally required release is in progress, <u>then</u> collect grab samples at least once per 12 hours, and analyze samples within 4 hours of collection time. <ol style="list-style-type: none"> 1.1 If sample analysis shows increase in radioactivity, <u>then</u> increase grab sample frequency to at least once per 4 hours, and analyze samples as soon as possible following collection. 1.2 If analysis result reaches 2 times the ODCM limit, <u>then</u> evaluate for EAL PD-AA1.3 or PD-AU1.2 entry. 	PDEP-2: PD-AU1 Effluent Monitor; PDEP-1: H.5, I.1	MAINT/ENG/RP, CHEM, & ENV

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Emergency Plan Equipment

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Equipment	Description / Function	Equipment ID / Functional Location	Compensatory Measures (See Procedure Sections 6.8, 6.9, and 6.10)	Reference	Cognizant Division
Radwaste Discharge to Outfall Radiation Monitor	Liquid Radwaste Effluent Radiation Monitor	2/3RE7813	<p>1. If 2/3RE7813 is nonfunctional and a release is operationally required, <u>then</u></p> <p>1.1 Effluent releases may continue provided that prior to initiating a release, at least two independent samples are analyzed in accordance with ODCM Specification 1.1.1, and at least two technically qualified members independently verify the release rate calculation and discharge line valving.</p> <p>1.1.1 If a release is in progress, <u>then</u> collect grab samples at least once per 12 hours, and analyze them within 4 hours of collection time.</p> <p>1.1.1.1 If sample analysis shows increase in radioactivity, <u>then</u> increase grab sample frequency to at least once per 4 hours, and analyze samples as soon as possible following collection.</p> <p>1.1.1.2 If analysis result reaches 2 times the ODCM limit, <u>then</u> evaluate for EAL PD-AA1.3 or PD-AU1.2 entry.</p>	PDEP-2: PD-AU1 Effluent Monitor; PDEP-1: H.5, I.1	MAINT/ENG/RP, CHEM, & ENV
Unit 2 Turbine Plant Sump Radiation Monitor	Liquid Effluent Radiation Monitor Unit 2 Turbine Plant Sump	2RE7821	<p>1. If 2RE7821 is nonfunctional and an operationally required release is in progress, <u>then</u> collect grab samples at least once per 12 hours and analyze samples within 4 hours of collection time.</p> <p>1.1 If sample analysis shows increase in radioactivity, <u>then</u> increase grab sample frequency to at least once per 4 hours, and analyze samples as soon as possible following collection.</p> <p>1.2 If analysis result reaches 2 times the ODCM limit, <u>then</u> evaluate for EAL PD-AA1.3 or PD-AU1.2 entry.</p>	PDEP-2: PD-AU1 Effluent Monitor; PDEP-1: H.5, I.1	MAINT/ENG/RP, CHEM, & ENV
Control Room Area Radiation Monitor	Area Radiation Monitor Control Room/Command Center/Central Alarm Station	2/3RE7851	<p>1. If 2/3RE7851 is nonfunctional, <u>then</u></p> <p>1.1 Perform closed window radiation surveys near the Control Room/Command Center/Central Alarm Station at least once per 4 hours, OR install portable radiation monitoring equipment near the Control Room/Command Center/Central Alarm Station and obtain readings at least once per 4 hours.</p> <p>1.2 Evaluate results per PD-AA2.1 and PD-AU2.2.</p>	PDEP-2: PD-AA2; PDEP-1: H.5, I.1	MAINT/ENG
Unit 2 Fuel Handling Building Spent Fuel Cask Area Radiation Monitor	Area Radiation Monitor Unit 2 Fuel Handling Building Fuel Cask	2RE7850	<p>1. If 2RE7850 is nonfunctional, <u>then</u></p> <p>1.1 Perform closed window radiation surveys near the 2SFP at least once per 4 hours, OR install portable radiation monitoring equipment near the 2SFP and obtain readings at least once per 4 hours.</p> <p>1.2 Evaluate results per PD-AA2.2, PD-AU2.1, and PD-AU2.2.</p>	PDEP-2: PD-AU2, PD-AA2; PDEP-1: H.5, I.1	MAINT/ENG
Unit 3 Fuel Handling Building Spent Fuel Cask Area Radiation Monitor	Area Radiation Monitor Unit 3 Fuel Handling Building Fuel Cask	3RE7850	<p>1. If 3RE7850 is nonfunctional, <u>then</u></p> <p>1.1 Perform closed window radiation surveys near the 3SFP at least once per 4 hours, OR install portable radiation monitoring equipment near the 3SFP and obtain readings at least once per 4 hours.</p> <p>1.2 Evaluate results per PD-AA2.2, PD-AU2.1, and PD-AU2.2.</p>	PDEP-2: PD-AU2, PD-AA2; PDEP-1: H.5, I.1	MAINT/ENG
Spent Fuel Pool Temperature Indication	Temperature Indication Spent Fuel Pool	TI PW2(3)-POOL	Verify alternate indicator(s) [i.e., SFP Heat Exchanger Inlet Temperature TI HX2(3)-PW-IN] available for evaluation when primary indicator unavailable.	PDEP-2, PD-SU1; PDEP-1: I.1	MAINT/ENG
Protected Area Access Control and Personnel Accountability System	System that provides accountability of site personnel, visitors and contract personnel inside the Protected Area.	Security computer SA,SECS.2/3L292	Timely repair of equipment. Use manual tracking of personnel inside PA.	PDEP-1: D.1.b, J.1	SEC/ENG

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Emergency Plan Equipment	Attachment 1
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Equipment	Description / Function	Equipment ID / Functional Location	Compensatory Measures (See Procedure Sections 6.8, 6.9, and 6.10)	Reference	Cognizant Division
Meteorological Tower, Primary	Meteorological equipment with wind speed (mph), wind direction (degrees), and delta temperature (ΔT), indications used to provide onsite meteorological parameters to determine protective actions and dose assessment.	SA.METS.S1-METS-TOWER-1	SO23-3-2.20.1, Attachment 4. Use the following compensatory measures when primary tower wind speed or direction (10m and 40m) instrumentation is not functional. Backup meteorological instrumentation is available. If not, contact National Weather Service to obtain current local weather information. Otherwise use other available current local weather reports (e.g., weatherlink.com, weather.com, wunderground.com).	PDEP-1: H.8, I.5; PDEP-2: PD-AA1	MAINT/ENG/RP, CHEM, & ENV
Assembly Area	Designated assembly location to relocate and monitor personnel evacuated from areas of the plant.	AWS MPR	Timely correction of deficiencies. Use Staging Area North of Parking Lot 4.	PDEP-1: K.2	FAC/MAINT
Decontamination sinks and showers	Collect decontamination/medical treatment liquid wastes.		Set up temporary decontamination areas. Arrange for portable storage containers.	PDEP-1: H.10, K.4.b, K.5.a, L.2	RP, CHEM & ENV
Command Center	Onsite Emergency Response Facility. The operations center of the station from which the plant can be monitored.		Alternate Command Center (70', K10/K20, AWS D44) Staging Area North of Parking Lot 4.	PDEP-1: H.1	OPS/FAC/MAINT
Alternate Command Center (70', K10/K20, AWS D44)	Location for the Command Center relocation in the event it is threatened with security events or hazardous conditions.		Determine ad hoc location.	PDEP-1: H.1	FAC/MAINT
NRC Emergency Telecommunications System (ETS) [ENS]	NRC dedicated telephone line to NRC Operations Center.	0R2TRD1	Timely repair of equipment. Use commercial telephone lines, PAX telephone system, cellular phones, satellite phones.	PDEP-1: E.2.b.2; F.1.c, F.1.f	IT/TELECOM
PA Siren Tone Generator	Public Address System and Alarm Activation System. Paging and Siren PAX Phone System. Routine and emergency site announcements and PAX siren tone generators operated entirely through the PAX phone system (SO23-6-31).		Timely repair of equipment. Units 2/3 Onsite Emergency Siren System and Onsite Emergency Thunderbolt sirens. Commercial telephone lines, cellular phones, satellite phones, PAX telephone system, or radios.	PDEP-1: D.1, E.2.a, F.1.e, J.1	MAINT/IT/TELECOM
Units 2/3 Onsite Emergency Siren System (OESS)	Alarm Activation System. Sirens located through the Protected Area Buildings, Grounds and Containment.	Multiple IDs CR57 STARTS THEM	Timely repair of equipment. PA Siren Tone Generator and Onsite Emergency Thunderbolt sirens. Rovers for notifying personnel outside of buildings within the PA. Commercial telephone lines, cellular phones, satellite phones, PAX telephone system, or radios.	PDEP-1: D.1, E.2.a, J.1	MAINT

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Emergency Plan Equipment	Attachment 1
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Equipment	Description / Function	Equipment ID / Functional Location	Compensatory Measures (See Procedure Sections 6.8, 6.9, and 6.10)	Reference	Cognizant Division
Perimeter Public Address System (PPAS)	Public Address System. Audible message to public near plant perimeter.	2/3L210	1. If a speaker is nonfunctional, then use Attachment 17 to perform a System Functional Test at the applicable test location (forward Attachment to EP). 1.1. If the System Functional Test fails, then develop a plan to assign personnel to cover applicable test location. Document the plan in the Shift Manager Shift Relief Status Sheet. 2. Timely repair of equipment.	PDEP-1: D.1, J.1	MAINT/IT/TELECOM
Onsite Emergency Thunderbolt Sirens	Alarm Activation System. Along with the OESS, for notification of onsite personnel inside the Protected Area during alert, assembly, or evacuation.	M033, M035 CR57 STARTS THEM	Timely repair of equipment. Unit 2/3 Onsite Emergency Siren System and PA Siren Tone Generator. Rovers for notifying personnel outside of buildings within the PA. Commercial telephone lines, cellular phones, satellite phones, PAX telephone system, or radios.	PDEP-1: D.1, E.2.a, J.1	MAINT
Spent Fuel Pool Cooling System	Emergency classification, accident assessment, onsite monitoring equipment.		Timely repair or replacement of equipment. Perform actions per SO23-3-2.11.2 and/or SO23-3-2.11.3.	PDEP-2: PD-HU2	ENG
Command Center Data Acquisition System (CDAS)	CDAS provides monitoring capability to plant parameters required for SONGS in the decommissioned state.	SA.CDAS	Timely repair or replacement of equipment.	PDEP-1: B.5.b, D.1, H.1, I.3, I.4, I.10; PDEP-2: PD-AA1	ENG
Solid contaminated waste control system	Protective response, exposure control.		Timely repair or replacement of equipment.	PDEP-1: K.4.b	RP, CHEM, & ENV
Radiological Laboratory Facilities	Emergency response support and resources, accident assessment.		Timely repair or replacement of equipment.	PDEP-1: C.3, I.9; PDEP-2: PD-AA1	RP, CHEM, & ENV
Private Automatic Exchange (PAX) Telephone System	Site telephone system. Provides communication capability between telephones located within the plant by dialing a five digit station code. It also provides for outside communications through interconnections with the corporate telephone communications system and commercial telephone lines.	70': 2/3D870T AWS	1. If PAX phone(s) is(are) nonfunctional, then validate sufficient PAX phones are available to support communications within the Command Center and plant locations. 1.1 If no sufficient PAX phones are available, then use commercial telephone lines, cellular phones, satellite phones, or radios. 2. Timely repair of equipment.	PDEP-1: F.1.d.1	IT/TELECOM
Cellular Phones	Communications between Command Center and State, local agencies, NRC, Federal Organizations, ERO, Hospitals, Field Teams, and others. Voice, text messaging, email capabilities.		Timely repair of equipment. Use commercial telephone lines, PAX telephone system, satellite phones or radios.	PDEP-1: E.2.a, E.2.b, 1E.2.c, E.3, F.1.b, F.1.c, F.1.e, F.1.f, I.8	IT/TELECOM

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Emergency Plan Equipment

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Equipment	Description / Function	Equipment ID / Functional Location	Compensatory Measures (See Procedure Sections 6.8, 6.9, and 6.10)	Reference	Cognizant Division
Control Room Satellite Phone	Communications between Command Center and other organizations. Backup communications in CR. Connects CR to Generation Control Center (GCC) Rosemead and Irvine, CA.	2/3CRSATELLITEPHONE	Timely repair of equipment. Use commercial telephone lines, PAX telephone system, cellular phones or radios.	PDEP-1: F.1.b, F.1.c, F.1.f	IT/TELECOM
Portable Satellite Phones	Communications between Command Center and other organizations. Backup Communications to State, local agencies, NRC, Federal Organizations.		Timely repair of equipment. Use commercial telephone lines, PAX telephone system, cellular phones or radios.	PDEP-1: F.1.b, F.1.c, F.1.f	IT/TELECOM
Commercial Telephone Lines	Communications between Command Center and other organizations. Communications to State, local agencies, NRC, Federal Organizations, ERO, Hospitals, and others.		Timely repair of equipment. Use PAX telephone system, cellular phones, satellite phones or radios.	PDEP-1: E.2.a, E.2.b, E.2.c, A.1.a.2, F.1.b, F.1.c, F.1.d, F.1.e, F.1.f, F.2	IT/TELECOM
800MHz Radio System	Radio communication between Command Center and field teams. General use communications equipment.	2/3L425-1, 3L414	Timely repair of equipment. Use cellular phones, PAX telephone system, commercial telephone lines, satellite phones.	PDEP-1: H.10, I.8	MAINT/ENG/TELECOM
		2/3L425-5, 2L428			
Command Center KIT 1	Damage Control and Mitigation Equipment.		Timely repair or replacement of equipment / supplies (similar equipment / supplies may be available onsite for use until repair or replacement is obtained).	PDEP-1: H.10	MAINT
Command Center KIT 2	Radiation Monitoring Equipment, Contamination and Exposure Control Supplies, Decontamination Equipment and Supplies, Protective Clothing. Includes Respirators, SCBAs, dosimetry capable of measuring dose and dose rate, portable instrumentation to determine radioactivity in counts per minute and mR/hr, portable air samples, air and water sampling devices.		Timely repair or replacement of equipment / supplies (similar equipment / supplies may be available onsite for use until repair or replacement is obtained).	PDEP-1, H.5, H.10, I.6, I.7, I.9, J.1, K.1, K.2, K.3.a, K.4, K.5, K.6.a, K.6.b; PDEP-2: PD-AA1, PD-AA2, E-HU1	RP, CHEM & ENV
Command Center KIT 3	Communications and Radio Equipment, Supplemental Lighting, First aid supplies and equipment, ERO Notebook, Miscellaneous Office Supplies.		Timely repair or replacement of equipment / supplies (similar equipment / supplies may be available onsite for use until repair or replacement is obtained).	PDEP-1: H.10, L.2	EP

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Emergency Plan Equipment	Attachment 1
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Equipment	Description / Function	Equipment ID / Functional Location	Compensatory Measures (See Procedure Sections 6.8, 6.9, and 6.10)	Reference	Cognizant Division
Gamma detector / Multi-Channel Analyzer	Emergency response support and resources, accident assessment.		Timely repair or replacement of equipment.	PDEP-1: C.3, I.9; PDEP-2: PD-AA1	RP, CHEM, & ENV
Tritium Analyzer	Emergency response support and resources, accident assessment.		Timely repair or replacement of equipment.	PDEP-1: C.3, I.9; PDEP-2: PD-AA1	RP, CHEM, & ENV
Effluent Release Software	Emergency response support and resources, accident assessment.		Timely repair or replacement of equipment. Perform manual calculation.	PDEP-1: C.3; PDEP-2: PD-AA1	RP, CHEM, & ENV
Computers with network access	Accident assessment, onsite monitoring equipment.		Timely repair or replacement of equipment.	PDEP-1: H.8	IT

COGNIZANT DIVISION(S):

EP	Emergency Planning (SCE)
MAINT	Maintenance (SDS)
RP, CHEM, & ENV	Radiation Protection, Chemistry, and Environmental (SDS)
ENG	Engineering (SCE and SDS)
OPS	Operations (SCE)
IT	Information Technology (SCE)
SEC	Security (SCE)
FAC	Facilities (SDS)
TELECOM	Telecommunications (SCE)

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PDEP, EALs, and MOEE Review	Attachment 2
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1.0 Review PDEP-1 annually to ensure document is current (Reference Step 6.3.1).

Comments: _____

2.0 Perform the following steps to complete the annual review of PDEP-2, MOEE, and EP(123) EAL (Reference Step 6.3.2) (CA 202827656-0018).

2.1 Request from the Nuclear Energy Institute (NEI) issues or problems related to the EALs or Technical Bases Document as related to decommissioned plants.

_____	_____
Name of NEI Contact	Date

2.2 Request from decommissioned plants (e.g., Crystal River or Kewaunee) issues or problems related to their EALs or Technical Bases Document.

_____	_____
Name of Contact(s)	Date

2.3 IF issues or problems are identified, THEN initiate an Action Request to track any subsequent items and resolve issues. Record Action Request number or N/A.

Action Request # or N/A

2.4 Record additional contact names and dates or any comments or issues not discussed in the Action Request.

COMMENTS: _____

PERFORMED BY: _____
 Emergency Preparedness Staff or designee

DATE: _____

APPROVED BY: _____
 Manager, Emergency Preparedness

DATE: _____

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Security and Emergency Plan Coordination	Attachment 3
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- 1.0 Coordinate PDEP-1 requirements with PSP and SCP (Reference Step 6.3.3).
- 1.1 Identify changes to PDEP-1 and PSP and SCP since the last review.
- 1.2 Confirm review of changes to PDEP-1 by Security Management.
- 1.3 Confirm review of changes to SCP and PSP by EP.
- 1.4 If any changes have not been reviewed by appropriate management, initiate review for impact and document results by Action Request. Record Action Request number or N/A.

Action Request # or
N/A

Comments: _____

PERFORMED BY: _____
 Emergency Preparedness Staff or designee

DATE: _____

APPROVED BY: _____
 Manager, Emergency Preparedness

DATE: _____

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State and Local Jurisdictions EAL Review	Attachment 4
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1.0 Review EALs with State and Local jurisdictions annually (Reference Step 6.3.4).

Comments (include how review/task was performed): _____

PERFORMED BY: _____
Emergency Preparedness Staff or designee

DATE: _____

APPROVED BY: _____
Manager, Emergency Preparedness

DATE: _____

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Letters of Agreement Review	Attachment 5
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1.0 Review the following letters of agreement annually (Reference Step 6.3.5).

1.1 Firefighting, Rescue, and Transport of Injured Person with Marine Corps Base, Camp Pendleton Agreement(s).

Comments (include how review/task was performed): _____

PERFORMED BY: _____ **DATE:** _____
 Emergency Preparedness Staff or designee

1.2 Medical Treatment with Tri-City Medical Center and Mission Hospital Agreement(s).

Comments (include how review/task was performed): _____

PERFORMED BY: _____ **DATE:** _____
 Emergency Preparedness Staff or designee

1.3 Transport of Injured Person with Air Methods Corporation and Orange County Fire Authority Agreement(s).

Comments (include how review/task was performed): _____

PERFORMED BY: _____ **DATE:** _____
 Emergency Preparedness Staff or designee

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Letters of Agreement Review	Attachment 5
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1.4 Law Enforcement Support Agreement(s).

Comments (include how review/task was performed): _____

PERFORMED BY: _____ **DATE:** _____
 Emergency Preparedness Staff or designee

1.5 Local Agencies Agreement(s)

Comments (include how review/task was performed): _____

PERFORMED BY: _____ **DATE:** _____
 Emergency Preparedness Staff or designee

1.6 Sierra Analytical Labs support (chemical analysis) and GEL Laboratories support (radiological analysis) capability for terrestrial, marine, and air samples contracts or agreements.

Comments (include how review/task was performed): _____

PERFORMED BY: _____ **DATE:** _____
 Emergency Preparedness Staff or designee

1.7 Letters of agreement have been reviewed. Deficiencies identified have been corrected or an Action Request generated.

REVIEWED BY: _____ **DATE:** _____
 Emergency Preparedness Staff or designee

APPROVED BY: _____ **DATE:** _____
 Manager, Emergency Preparedness

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Matrix of Periodic Drill and Exercise Objectives Review	Attachment 8
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1.0 Review EP(123) PDE against accomplished objectives frequently enough to ensure all required objectives have been accomplished or scheduled within their periodicity (recommend review completed by second quarter) (Reference Step 6.3.8).

Comments: _____

PERFORMED BY: _____ **DATE:** _____
 Emergency Preparedness Staff or designee

APPROVED BY: _____ **DATE:** _____
 Manager, Emergency Preparedness

2.0 Complete EP(123) PDE during the fourth quarter to ensure all required objectives for the year have been accomplished. Attach EP(123) PDE to this review.

Comments: _____

PERFORMED BY: _____ **DATE:** _____
 Emergency Preparedness Staff or designee

APPROVED BY: _____ **DATE:** _____
 Manager, Emergency Preparedness

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Emergency Response Equipment and Supplies Inspection	Attachment 10
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1.0 Maintenance personnel or designee have inventoried damage control and mitigation equipment portion of EP(123) EKIL (Reference Step 6.4.1).

INVENTORY ITEM	ORDER NUMBER / TRACKING NUMBER	DATE COMPLETED	SEALED CONTAINER (YES/NO)	PERFORMED BY
Command Center KIT 1 (Tools)				

2.0 Radiation Protection personnel or designee have inventoried radiation protection equipment and supplies portion of EP(123) EKIL (Reference Step 6.4.2).

INVENTORY ITEM	ORDER NUMBER / TRACKING NUMBER	DATE COMPLETED	SEALED CONTAINER (YES/NO)	PERFORMED BY
Command Center KIT 2 (RP Supplies)				

3.0 The Site Assembly Area listed below have been inspected for cleanliness and general usability, and their supplies have been inventoried (Reference Step 6.4.3).

SITE ASSEMBLY AREA	ORDER NUMBER / TRACKING NUMBER	DATE COMPLETED	SEALED CONTAINER (YES/NO)	PERFORMED BY
AWS MPR				
Parking Lot 4				

4.0 The Operations portion of EP(123) EKIL has been inventoried and updated (Reference Step 6.4.4).

INVENTORY ITEM	ORDER NUMBER / TRACKING NUMBER	DATE COMPLETED	SEALED CONTAINER (YES/NO)	PERFORMED BY
Command Center KIT 3				

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Emergency Response Equipment and Supplies Inspection	Attachment 10
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5.0 The Emergency Response equipment and supplies quarterly inspections have been completed. Deficiencies identified have been corrected or an Action Request generated.

Comments: _____

REVIEWED BY: _____
Emergency Preparedness Staff or designee

DATE: _____

APPROVED BY: _____
Manager, Emergency Preparedness

DATE: _____

- 1.0 **Cal OES, Orange County, San Diego County and Marine Corps Base, Camp Pendleton Test**
(Reference Step 6.5.1):
- 1.1 Contact Cal OES, Orange County, San Diego County, and Marine Corps Base Camp Pendleton from a PAX phone in the Command Center using their primary contact number located in the Emergency Response Directory.
- 1.2 Provide the following message for each call:
 "This is San Onofre Nuclear Generating Station."
 "We are conducting a communication test."
 "Please provide your last name, and verify message content is understood and communications are clear and audible."
- 1.3 Record the participants' last name on the table below.
- 1.4 Circle "Y" or "N" to verify content was understood and communications are clear and audible.

Agency	Participant Last Name	Content Understood	Communication clear and audible	Trouble Ticket	Action Request	Performed by	Date
Cal OES		Y N	Y N				
Orange County		Y N	Y N				
San Diego County		Y N	Y N				
Camp Pendleton		Y N	Y N				

- 1.5 Provide the following message at the end of each call
 "This communication test is complete. Thank you."
- 1.6 If an agency did not respond to the primary contact number, or if equipment or communication problems were encountered:
 - 1.6.1 Re-contact non-responding agencies using alternate contact number.
 - 1.6.2 Repeat steps 1.1 through 1.5.
 - 1.6.3 If alternate contact cannot be established, notify Emergency Preparedness Manager for assistance in making contact with the agency.
- 1.7 If equipment or communication problems were encountered, notify TCC at PAX 51200 to initiate repairs. In addition, initiate an Action Request. Record Trouble Ticket and Action Request on table above; otherwise N/A.

- 2.0 **NRC Test** (Reference Step 6.5.2)
- 2.1 Contact the NRC Headquarters Operations Center using their primary contact number located in the Emergency Response Directory from the Command Center ENS phone (700-791-0615).
- 2.2 Provide the following message for the call:
 "This is San Onofre Nuclear Generating Station."
 "We are conducting a communication test of the SONGS ENS Phone."
 "Please provide your last name, and verify communications are clear and audible."
- 2.3 Record the participants' last name on the table below.
- 2.4 Circle "Y" or "N" to verify communications are clear and audible.
- 2.5 Identify your ENS telephone number (700-791-0615) and request a return phone call.
- 2.6 Verify return call communications are clear and audible.
- 2.7 Record return call information on the table below.

Agency	Participant Last Name	Communication clear and audible	Trouble Ticket	Action Request	Performed by	Date
NRC HQ call		Y N				
NRC HQ Return		Y N				

- 2.8 Provide the following message at the end of the call
 "This communication test is complete. Thank you."
- 2.9 If equipment or communication problems were encountered, notify TCC at PAX 51200 to initiate repairs. In addition, initiate an Action Request. Record Trouble Ticket and Action Request on table above; otherwise N/A.
- 3.0 Monthly communications test has been completed. Deficiencies identified have been corrected or a Trouble Ticket and Action Request generated.

Comments: _____

REVIEWED BY: _____
 Operations personnel or designee

DATE: _____

APPROVED BY: _____
 Manager, Emergency Preparedness

DATE: _____

- 1.0 **Emergency Kit Radios Test** (Reference Step 6.5.3)
- 1.1 Turn two Emergency Kit Radios power on and select a specific channel for the test.
- 1.2 Test Emergency Kit Radios transmission and reception for clear and audible communications.
- 1.3 Turn Emergency Kit Radios power off.
- 1.4 Record test results on the table below.
- 1.5 Repeat steps 1.1 through 1.4 until all Emergency Kit Radios are tested.
- 1.6 If equipment or communication problems were encountered, notify TCC at PAX 51200 to initiate repairs. In addition, initiate an Action Request. Record Trouble Ticket and Action Request on table below; otherwise N/A.

Emergency Kit Radio #	Location	Communication clear and audible	Trouble Ticket	Action Request	Performed by	Date
1	Command Center	Y N				
2	Command Center	Y N				
3	Command Center	Y N				
4	Command Center	Y N				
5	Command Center	Y N				
6	Command Center	Y N				
7	Command Center	Y N				
8	Command Center	Y N				
9	Command Center	Y N				
10	Command Center	Y N				

NOTES

Cellular Phones may be located in the hallway between the Units on the Command Center Kit 3.

- 2.0 **Cellular Phones Test** (Reference Step 6.5.3).
- 2.1 Turn cellular phone on.
- 2.2 Place a call to a nearby phone and test transmission and reception for clear and audible communications.
- 2.3 Request a return phone call.
- 2.4 Test return call transmission and reception for clear and audible communications.

- 2.5 Turn cellular phone off.
- 2.6 Record test results on the table below.
- 2.7 Repeat steps 2.1 through 2.6 until all cellular phones are tested.
- 2.8 If equipment or communication problems were encountered, notify TCC at PAX 51200 to initiate repairs. In addition, initiate an Action Request. Record Trouble Ticket and Action Request on table below; otherwise N/A.

Cell #	Location	Communication clear and audible	Trouble Ticket	Action Request	Performed by	Date
949.392.2884	Command Center	Y N				
949.392.2883	Command Center	Y N				
949.392.2894	Command Center	Y N				
949.392.2646	Command Center	Y N				

NOTES

1. The following section is performed by Security.
2. Emergency Response Directory contains satellite phone dialing instructions.

- 3.0 **Satellite Phones Test** (Reference Step 6.5.3)
- 3.1 Place a call to another satellite phone and test transmission and reception for clear and audible communications.
- 3.2 Request a return phone call.
- 3.3 Test return call transmission and reception for clear and audible communications.
- 3.4 Record test results on the table below.
- 3.5 Repeat steps 3.1 through 3.4 until all satellite phones are tested.

3.6 If equipment or communication problems were encountered, notify TCC at PAX 51200 to initiate repairs. In addition, initiate an Action Request. Record Trouble Ticket and Action Request on table below; otherwise N/A.

Satellite #	Location	Communication clear and audible	Trouble Ticket	Action Request	Performed by	Date
8816-2144-4660	Command Center	Y N				
8816-3144-6714	Command Center	Y N				
800-758-9599 (GOC Satellite Hardwired)	Command Center	Y N				
8816-2144-4668	Staging Area	Y N				
8816-2144-4669	Staging Area	Y N				

4.0 Quarterly communications test has been completed. Deficiencies identified have been corrected or a Trouble Ticket and Action Request generated.

Comments: _____

REVIEWED BY: _____
 Operations personnel or designee

DATE: _____

APPROVED BY: _____
 Manager, Emergency Preparedness

DATE: _____

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PA Siren Tone Generator Test		Attachment 13

1.0 **PA SIREN TONE GENERATOR TEST** (Reference Step 6.6.1)

NOTE

SO123-VIII-ERO-2 provides controls for announcements and siren activation. If the annual PA Siren Tone Generator Test is performed during a drill, SO123-VIII-ERO-2 will be used to activate the sirens.

- 1.1 The PA Siren Tone Generator test can be performed during siren activations for a scheduled Emergency Plan drill or on a different occasion. A minimum of three separate locations must be evaluated during the test.
- 1.2 WHEN performing this test outside of a drill, THEN complete the following:
 - 1.2.1 Verify test participants are in position.
 - 1.2.2 Contact State Parks using number located in ERD and notify them of the test.
 - 1.2.3 Make the following announcement on the PA System using "Page All", and on the Perimeter Public Address System (PPAS):
 - 1.2.3.1 "Attention all personnel, attention all personnel. This is a test of the PA Siren Tone Generator. No response is required. All personnel continue with your normal activities."
 - 1.2.4 Activate "Siren All" for one minute from PAX phone.
 - 1.2.5 Make the following announcement on the PA System using the "Page All", and on the PPAS:
 - 1.2.5.1 "Attention all personnel, attention all personnel. This completes the test of the PA Siren Tone Generator. Continue with your normal activities."
- 1.3 Audibility of PA announcements and the Sire Tone Generator shall be recorded by test participants.
- 1.4 Gather all test data from test participants after test termination.
- 1.5 Transcribe all test data from applicable documents to the table below. Include location evaluated, participants' name, Equip Status, and test date.

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Units 2/3 Thunderbolt Siren Test	Attachment 14
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1.0 **UNITS 2/3 THUNDERBOLT SIREN TEST** (Reference Step 6.6.2)

NOTE

SO123-VIII-ERO-2 provides controls for announcements and siren activation. If the annual Units 2/3 Thunderbolt Siren Test is performed during a drill, SO123-VIII-ERO-2 will be used to activate the sirens.

- 1.1 The thunderbolt sirens test can be performed during the siren activations for a scheduled Emergency Plan drill or on a different occasion.
- 1.2 Coordinate with test participants prior to the test date and provide approximate siren activation times.
- 1.3 WHEN performing this test outside of a drill, THEN complete the following:
 - 1.3.1 Verify test participants are in position.
 - 1.3.2 Contact State Parks using number located in ERD and notify them of the test.
 - 1.3.3 Make the following announcement on the PA System using "Page All", and on the Perimeter Public Address System (PPAS):
 - 1.3.3.1 "Attention all personnel, attention all personnel. This is a test of the Thunderbolt Sirens. No response is required. All personnel continue with your normal activities."
 - 1.3.4 Activate Emergency Evacuation Siren (HS-7890-1) on CR 57 for one minute.
 - 1.3.5 Make the following announcement on the PA System using the "Page All", and on the PPAS:
 - 1.3.5.1 "Attention all personnel, attention all personnel. This completes the test of the Thunderbolt Sirens. Continue with your normal activities."
- 1.4 Gather all test data from the test participants.
- 1.5 Transcribe all test data to the table below.

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Units 2/3 Thunderbolt Siren Test	Attachment 14
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THUNDERBOLT SIREN TEST LOCATIONS

PLANT AREA	ELEV.	SIREN NO.	LOCATION (Room name and number)	EQUIP STATS	TEST DATE
Unit 2 Fuel Bldg.	114'	MO-33	Fuel Building Roof SE Corner		
Reservoir Area	100'	MO-35	Near Meteorological Tower		

NOTES

- 1 No Activation
- 2 Garbled Sound
- 3 Volume too Low
- 4 Inaccessible Area
- 5 Equipment Damaged

REMARKS

6 _____

7 _____

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Units 2/3 Buildings and Ground OESS Test	Attachment 15
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- 1.0 **UNITS 2/3 BUILDINGS AND GROUNDS OESS TEST** (Reference Step 6.6.3)
- 1.1 When completing any part of this attachment during a scheduled Emergency Plan Drill, then use Section 2.0 and mark Steps in 1.2 through 1.7 "N/A".
- 1.2 Contact State Parks using number located in ERD and notify them of the test.
- 1.3 Request a plant operator to perform the following alignment.
 - 1.3.1 Open breaker BQ-13 for panel 2/3 L211-1 (MCC 2/3 BQ). _____
Initial
 - 1.3.2 Open breaker BQ-26 for panel 2/3 L211-4 (MCC 2/3 BQ). _____
Initial
 - 1.3.3 Open breaker MCC1 BKR11 (located in the AWS). _____
Initial
- 1.4 Contact Test Coordinator and verify all Monitors are in position, then coordinate performing the following steps with Operations.
 - 1.4.1 Make the following announcement on the PA System using "Page All" **AND** on the Perimeter Public Address System (PPAS):
 - 1.4.1.1 "Attention all personnel, attention all personnel: This is a test of the Emergency Siren System. No response is required. All personnel continue with your normal activities."
 - 1.4.2 Request Operator to press the "START" button for the Emergency Siren System on CR57.
 - 1.4.2.1 Direct the Operator to press the "STOP" button at the required time (1 to 3 minutes) to deactivate the sirens.
- 1.5 Contact Test Coordinator and verify all Monitors were able to monitor the assigned sirens. If not, then repeat Step 1.4.
- 1.6 Make the following announcement on the PA System using "Page All" **AND** on the Perimeter Public Address System:
 - 1.6.1 "Attention all personnel, attention all personnel: This completes the test of the Emergency Siren System. Continue with your normal activities."

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Units 2/3 Buildings and Ground OESS Test

Attachment 15

UNIT 2/3 OESS COMMON EQUIPMENT LOCATIONS

WYLE #	PLANT AREA	ELEV.	SIREN NO.	SIREN LOCATION	EQUIP STATS	TEST DATE
S201	Water Intake	9'	2AH1BV01	Pump Room T2-106		
S202	Water Intake	9'	3AH1BV01	Pump Room T3-106		
S203	Control Area	9'	OAR1BV01	Cable Riser Gallery 110		
S204	Control Area	9'	OAR1BV02	Cable Riser Gallery 111A		
S205	Control Area	9'	OAR1BV03	Cable Riser Gallery 111B		
S206	Control Area	9'	OAR1BV04	Cable Riser Gallery 112		
S207	Control Area	9'	OAR1BV05	Corridor 101		
S208	Control Area	30'	OAR2BV01	Cable Riser Gallery 236		
S209	Control Area	30'	OAR2BV02	U2 Elect Cabinet Area 229		
S210	Control Area	30'	OAR2BV03	U3 Elect Cabinet Area 227		
S211	Control Area	30'	OAR2BV04	Cable Riser Gallery 224		
S212	Control Area	30'	OAR2BV05	Corridor 234		
S213	Control Area	30'	OAR2BV06	Lobby 201		
S214	Control Area	30'	OAR2BV07	Corridor 221		
S215	Control Area	50'	OAR3BV01	West Corridor 303D		
S216	Control Area	50'	OAR3BV02	Cable Riser Gallery 315		
S217	Control Area	50'	OAR3BV03	Cable Riser Gallery 305		
S218	Control Area	50'	OAR3BV04	Lobby 301		
S219	Control Area	70'	OAR4BV01	Cable Riser Gallery 423		
S220	Control Area	70'	OAR4BV02	Corridor 417		
S221	Control Area	70'	OAR4BV03	Men's Re-Use Area 459		
S222	Control Area	70'	OAR4BV04	Cable Riser Gallery 449		
S223	Control Area	70'	OAR4BV05	Corridor 442		
S224	Radwaste	9'	OAP1BV01	Corridor 103A		
S225	Radwaste	9'	OAP1BV02	Corridor 103L		
S226	Radwaste	24'	OAP2BV01	Corridor 204A		
S227	Radwaste	24'	OAP2BV02	Radioactive Pipeway 206D		
S228	Radwaste	37'	OAP3BV01	Corridor 303		
S229	Radwaste	37'	OAP3BV02	Corridor 334		
S230	Radwaste	37'	OAP3BV03	Corridor 332		
S231	Radwaste	50'	OAP4BV01	Corridor 402		
S232	Radwaste	50'	OAP4BV02	Corridor 411		
S233	Radwaste	50'	OAP4BV03	Elect Equip Raceway 405A		
S234	Radwaste	50'	OAP4BV04	Rad. Pipe Chase 341B		
S235	Radwaste	63'6"	OAP5BV01	Corridor 501		
S236	Radwaste	63'6"	OAP5BV02	Corridor 522		

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Units 2/3 Buildings and Ground OESS Test

Attachment 15

UNIT 2 OESS EQUIPMENT LOCATIONS

WYLE #	PLANT AREA	ELEV.	SIREN NO.	SIREN LOCATION	EQUIP STATS	TEST DATE
S237	D/G Building	30'	2AD1BV01	D/G Room 103 (Train A)		
S238	D/G Building	30'	2AD1BV02	D/G Room 107 (Train B)		
S239	Tk. Building	30'	2AJ1BV01	Pump Room		
S240	Tray Gallery	11'6"	2AU1BV01	11'6" Elect Tray Gallery		
S241	Tray Gallery	9'6"	2AU1BV02	9'6" Elect Tray Gallery		
S242	Safety Equipt	30'	2AN3BV01	Elect Tunnel 103		
S251	Fuel Handling	63'6"	2AC4BV01	Personnel Monitor Area 409		
S252	Fuel Handling	63'6"	2AE4BV02	Operating Floor 406		
S253	Penetration	63'6"	2AC4BV03	Elect. Penetration 406		
S254	Penetration	45'	2AC3BV01	Elect. Penetration 306		
S255	Fuel Handling	30'	2AE2BV01	Vestibule 203		
S256	Penetration	9'	2AC1BV01	Corridor 112		
S257	Penetration	30'	2AC2BV01	Piping Penetration 208		
S258	Safety Equipt	8'	2AN2BV01	At Stairway #1		
S259	Safety Equipt	8'	2AN2BV02	Heat Exchanger Room 025		
S260	Safety Equipt	8'	2AN2BV03	Piping Room 024		
S261	Safety Equipt	5'	2AN1BV02	Piping Room 010		
S262	Safety Equipt	15'	2AN1BV01	At Bottom of Stairway #1		

UNIT 3 OESS EQUIPMENT LOCATIONS

WYLE #	PLANT AREA	ELEV.	SIREN NO.	SIREN LOCATION	EQUIP STATS	TEST DATE
S309	Fuel Handling	63'6"	3AC4BV01	Personnel Monitor Area 409		
S310	Fuel Handling	63'6"	3AE4BV02	Operating Floor 406		
S311	Penetration	63'6"	3AC4BV03	Elect Penetration Area 406		
S312	Penetration	45'	3AC3BV01	Elect Penetration Area 306		
S313	Fuel Handling	30'	3AE2BV01	Vestibule 203		
S314	Penetration	9'	3AC1BV01	Corridor 112		
S315	Penetration	30'	3AC2BV01	Pipe Penetration Area 208		
S316	Safety Equipt	8'	3AN2BV01	Piping Room 024		
S317	Safety Equipt	8'	3AN2BV02	Heat Exchanger Room 025		
S318	Safety Equipt	8'	3AN2BV03	At Stairway #1		
S319	Safety Equipt	5'	3AN1BV01	Piping Room 010		
S320	Safety Equipt	15'	3AN1BV02	At Bottom of Stairway #1		
S321	Tank Building	30'	3AJ1BV01	Pump Room		
S322	Tray Gallery	11'6"	3AU1BV01	11'6" Elect Tray Gallery		
S323	Tray Gallery	9'6"	3AU1BV02	9'6" Elect Tray Gallery		
S324	Safety Equipt	30'	3AN3BV01	Elect. Tunnel 103		
S325	D/G Building	30'	3AD1BV01	D/G Room 103 (Train A)		
S326	D/G Building	30'	3AD1BV02	D/G Room 107 (Train B)		

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Units 2/3 Buildings and Ground OESS Test	Attachment 15
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NOTES

- 1 No Activation
- 2 Garbled Sound
- 3 Volume too Low
- 4 Inaccessible Area
- 5 Equipment Damaged

REMARKS

6 _____

7 _____

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Units 2/3 Containment OESS Test	Attachment 16
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1.0 **UNITS 2/3 CONTAINMENT OESS TEST** (Reference 6.6.4)

1.1 Notify RP Control Point prior to starting the test.

Initial

1.2 Verify physical signage is posted at the containment control point entrance to inform workers of siren test.

Initial

1.3 Contact Test Coordinator and verify all monitors are in position, then coordinate performing the following steps with Operations.

1.3.1 Make the following announcement on the PA System using "Page All":

1.3.1.1 "Attention all personnel, attention all personnel: There will be a test of the Unit 2 3 Containment Siren System. No response is required. All personnel continue with your normal activities."

1.3.2 Request an Operator to press the "START" button for the Containment Siren System.

1.3.2.1 Direct the Operator to press the "STOP" button at the required time (1 to 3 minutes) to deactivate the sirens.

1.4 Contact Test Coordinator and verify all Monitors were able to monitor the assigned sirens. If not, then repeat Step 1.3.

1.5 Make the following announcement on the PA System using "Page All":

1.5.1 "Attention all personnel, attention all personnel: This completes the test of the Containment Siren System. Continue with your normal activities."

1.6 Request Test Coordinator to verify sirens are silenced.

Initial

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Units 2/3 Containment OESS Test	Attachment 16
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2.0 **DATA COLLECTION**

2.1 Gather all test data from the Test Coordinator.

2.2 Transcribe all test data on to table below.

2.3 COMPLETE the "EQUIP STATS" column of the worksheet as follows:

2.3.1 IF test is satisfactory, THEN initial column.

2.3.2 IF equipment had problems, THEN record the corresponding number from the "NOTES" section in the "EQUIP STATUS" column.

2.3.2.1 Initiate an Action Request.

2.3.3 **RECORD** Action Request(s) and any additional comments in the "REMARKS" section using the next number.

2.4 Notify RP Control Point that the test is complete.

_____ Initial

PERFORMED BY: _____ **DATE:** _____
Operations Personnel or designee

APPROVED BY: _____ **DATE:** _____
Manager, Emergency Preparedness

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Units 2/3 Containment OESS Test	Attachment 16
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UNIT 2 CONTAINMENT OESS EQUIPMENT LOCATIONS

WYLE #	PLANT AREA	ELEV.	SIREN NO.	SIREN LOCATION	EQUIP STATS	TEST DATE
S243	Containment	15'	2AB2BV01	At West Stairway		
S244	Containment	15'	2AB2BV02	By Elevator Lobby		
S245	Containment	30'	2AB3BV01	At West Stairway		
S246	Containment	30'	2AB3BV02	At Elevator Lobby		
S247	Containment	45'	2AB4BV01	At West Stairway		
S248	Containment	45'	2AB4BV02	By Elevator Lobby		
S249	Containment	63'6"	2AB5BV01	SW Corner SG Structure #2		
S250	Containment	63'6"	2AB5BV02	By Elevator Lobby		

UNIT 3 CONTAINMENT OESS EQUIPMENT LOCATIONS

WYLE #	PLANT AREA	ELEV.	SIREN NO.	SIREN LOCATION	EQUIP STATS	TEST DATE
S301	Containment	15'	3AB2BV01	At West Stairway		
S302	Containment	15'	3AB2BV02	By Elevator Lobby		
S303	Containment	30'	3AB3BV01	At West Stairway		
S304	Containment	30'	3AB3BV02	At Elevator Lobby		
S305	Containment	45'	3AB4BV01	At West Stairway		
S306	Containment	45'	3AB4BV02	By Elevator Lobby		
S307	Containment	63'6"	3AB5BV01	SW Corner SG Structure #2		
S308	Containment	63'6"	3AB5BV02	By Elevator Lobby		

NOTES

- 1 No Activation
- 2 Garbled Sound
- 3 Volume too Low
- 4 Inaccessible Area
- 5 Equipment Damaged

REMARKS

6 _____

7 _____

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Perimeter Public Address System (PPAS) Test	Attachment 17
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1.0 **PERIMETER PUBLIC ADDRESS SYSTEM (PPAS) TEST** (Reference Step 6.6.5)

<u>NOTES</u>	
1.	System Functional Tests are performed once per quarter throughout the year. Tests are conducted at five different locations each quarter.
2.	The purpose of the System Functional Test is to ensure the message is audible with sufficient clarity to be understood at the test location. <u>If</u> the acceptance criteria for the System Functional Test is not satisfactory, <u>then</u> an individual speaker test will be performed to determine the speaker(s) with problems.
3.	Besides the quarterly test, the System Functional Test at the applicable test location is performed to determine compensatory measures when individual speaker(s) is found nonfunctional.
4.	<u>If</u> the System Functional Test is satisfactory but Test Personnel notice any speaker problem, <u>then</u> Test Personnel will ensure an Action Request addressing the problem is written.
5.	Visual inspection will be performed per SO123-XVIII-11.8 by Telecom personnel.

2.0 **SYSTEM FUNCTIONAL TEST**

- 2.1 Provide Test Personnel with a copy of the page appropriate to the quarter or test location in which the test is being conducted.
- 2.2 Have Test Personnel circle their assigned test location number(s).
- 2.3 Have Test Personnel report to the assigned location(s) at the time determined by the Test Coordinator. (Refer to Figure 1.)
- 2.4 Perform a short count test at the predetermined time.
- 2.5 Complete System Functional Test table section in accordance with reports from Test Personnel.
- 2.6 If any Test Personnel report System Functional Test is unsatisfactory at their test location, then:
 - 2.6.1 Perform Step 3.0 of this Attachment for the unsatisfactory System Functional Test location(s).
 - 2.6.2 Perform Step 6.8 of this procedure.

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Perimeter Public Address System (PPAS) Test	Attachment 17
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- 2.7 If all Test Personnel report the System Functional Test is satisfactory at their test location, then leave individual speaker test table section blank.
 - 2.7.1 If any Test Personnel report the System Functional Test was satisfactory at their test location but they noticed a speaker problem, then ensure there is an Action Request for the speaker problem and the Action Request specifies the System Functional Test for the location is satisfactory.
- 2.8 Complete the Performed By line and forward to EP.
- 3.0 **INDIVIDUAL SPEAKER TEST** (N/A if System Functional Test was satisfactory)
- 3.1 Perform a short count test at the predetermined time(s) until speaker(s) at the failed location are individually tested.
- 3.2 If Test Personnel report the Individual Speaker Test is unsatisfactory, then notify TCC at PAX 51200 to initiate repairs. In addition, generate an Action Request to track deficiencies noting the System Functional Test for the location is unsatisfactory, and notify EP by Email.

FIRST QUARTER SYSTEM FUNCTIONAL TEST

NOTE

1. System Functional Test acceptance criteria: Speakers must be audible with sufficient clarity to be understood at each location.
2. Individual Speaker Test Acceptance Criteria: Clear and audible voice tested at a minimum of 10 feet from base of speaker pole in direction the speaker is facing.

SYSTEM FUNCTIONAL TEST			INDIVIDUAL SPEAKER TEST		
Test	Location	Audible? (circle one)	Location	PPAS #	Voice Test (circle one)
11	On Railroad loop road at State Park storage area	SAT / UNSAT	Parking Lot #3	S111	SAT / UNSAT
				S261	SAT / UNSAT
12	Old Hwy 101 opposite Main Gate and L50	SAT / UNSAT	Parking Lot #2	S114	SAT / UNSAT
				S121	SAT / UNSAT
13	Old Hwy 101 just South of the South Access Gate	SAT / UNSAT	Plant South End	S133	SAT / UNSAT
				S252	SAT / UNSAT
14	SYF North end of Parking Lot #4 at fence near exit	SAT / UNSAT	Units 2/3 PA	S256	SAT / UNSAT
				S137	SAT / UNSAT
15	NIA at Seawall	SAT / UNSAT	NIA	S245	SAT / UNSAT
				S126	SAT / UNSAT
				S267	SAT / UNSAT
				S117	SAT / UNSAT

Indicate Trouble Ticket, Action Request, or N/A. _____

COMMENTS: _____

PERFORMED BY: _____ DATE: _____
Operations or designee

APPROVED BY: _____ DATE: _____
Manager, Emergency Preparedness

Test Coordinator: **FORWARD** this page to EP.

SECOND QUARTER SYSTEM FUNCTIONAL TEST

NOTE

1. System Functional Test acceptance criteria: Speakers must be audible with sufficient clarity to be understood at each location.
2. Individual Speaker Test Acceptance Criteria: Clear and audible voice tested at a minimum of 10 feet from base of speaker pole in direction the speaker is facing.

SYSTEM FUNCTIONAL TEST			INDIVIDUAL SPEAKER TEST		
Test	Location	Audible? (circle one)	Location	PPAS #	Voice Test (circle one)
21	On Railroad loop between the State Park storage area and intersection of Old Hwy 101	SAT / UNSAT	Parking Lot #3	S112	SAT / UNSAT
22	On Old Hwy 101 halfway between U2 and U3 Containment buildings	SAT / UNSAT	Parking Lot #2	S241	SAT / UNSAT
				S122	SAT / UNSAT
23	On Old Hwy 101 at Southeast Corner of OCA wall	SAT / UNSAT	Plant South End	S132	SAT / UNSAT
				S251	SAT / UNSAT
24	On West road, inside PA fence, south end of U3, Across from holdup tank, at the Seawall	SAT / UNSAT	Units 2/3 PA	S128	SAT / UNSAT
				S247	SAT / UNSAT
				S127	SAT / UNSAT
25	On Reservoir road near Metrological (MET) Tower	SAT / UNSAT	Reservoir and Bluff	S266	SAT / UNSAT

Indicate Trouble Ticket, Action Request, or N/A. _____

COMMENTS: _____

PERFORMED BY: _____ DATE: _____
Operations or designee

APPROVED BY: _____ DATE: _____
Manager, Emergency Preparedness

Test Coordinator: **FORWARD** this page to EP.

THIRD QUARTER SYSTEM FUNCTIONAL TEST

- NOTE**
1. System Functional Test acceptance criteria: Speakers must be audible with sufficient clarity to be understood at each location.
 2. Individual Speaker Test Acceptance Criteria: Clear and audible voice tested at a minimum of 10 feet from base of speaker pole in direction the speaker is facing.

SYSTEM FUNCTIONAL TEST			INDIVIDUAL SPEAKER TEST		
Test	Location	Audible? (circle one)	Location	PPAS #	Voice Test (circle one)
31	On Old Highway 101 at the stop sign across from Building L50	SAT / UNSAT	Parking Lot #3	S262	SAT / UNSAT
32	On Old Highway 101 opposite the microwave tower in Parking lot #2	SAT / UNSAT	Parking Lot #2	S242	SAT / UNSAT
				S257	SAT / UNSAT
33	Minimum of 300 feet south of the OCA wall on the Bluff	SAT / UNSAT	Plant South End	S131	SAT / UNSAT
				S254	SAT / UNSAT
				S135	SAT / UNSAT
34	On West Road, inside PA fence, across from intake bridge at the Seawall	SAT / UNSAT	Units 2/3 PA	S246	SAT / UNSAT
				S124	SAT / UNSAT
35	On Reservoir road at west entrance gate	SAT / UNSAT	Reservoir and Bluff	S116	SAT / UNSAT
				S265	SAT / UNSAT
				S115	SAT / UNSAT

Indicate Trouble Ticket, Action Request, or N/A. _____

COMMENTS: _____

PERFORMED BY: _____ DATE: _____
Operations or designee

APPROVED BY: _____ DATE: _____
Manager, Emergency Preparedness

Test Coordinator: **FORWARD** this page to EP.

FOURTH QUARTER SYSTEM FUNCTIONAL TEST

NOTE

1. System Functional Test acceptance criteria: Speakers must be audible with sufficient clarity to be understood at each location.
2. Individual Speaker Test Acceptance Criteria: Clear and audible voice tested at a minimum of 10 feet from base of speaker pole in direction the speaker is facing.

SYSTEM FUNCTIONAL TEST			INDIVIDUAL SPEAKER TEST		
Test	Location	Audible? (circle one)	Location	PPAS #	Voice Test (circle one)
41	On Old Highway 101 across of NIA	SAT / UNSAT	Parking Lot #3	S113	SAT / UNSAT
				S263	SAT / UNSAT
42	On Old Hwy 101 near phone pole across from HFMUD in Parking Lot #2	SAT / UNSAT	Parking Lot #2	S243	SAT / UNSAT
				S134	SAT / UNSAT
				S253	SAT / UNSAT
43	In SYF Parking Lot near OCA fence opposite Machine Shop roll-up door	SAT / UNSAT	Plant South End	S255	SAT / UNSAT
				S136	SAT / UNSAT
44	On West road, inside PA fence across from fire hydrant near B51, at the Seawall	SAT / UNSAT	Units 2/3 PA	S244	SAT / UNSAT
				S125	SAT / UNSAT
45	In Parking Lot #4, near the concrete drain located on west side near the bluff	SAT / UNSAT	Reservoir and Bluff	S264	SAT / UNSAT
				S115	SAT / UNSAT

Indicate Trouble Ticket, Action Request, or N/A. _____

COMMENTS: _____

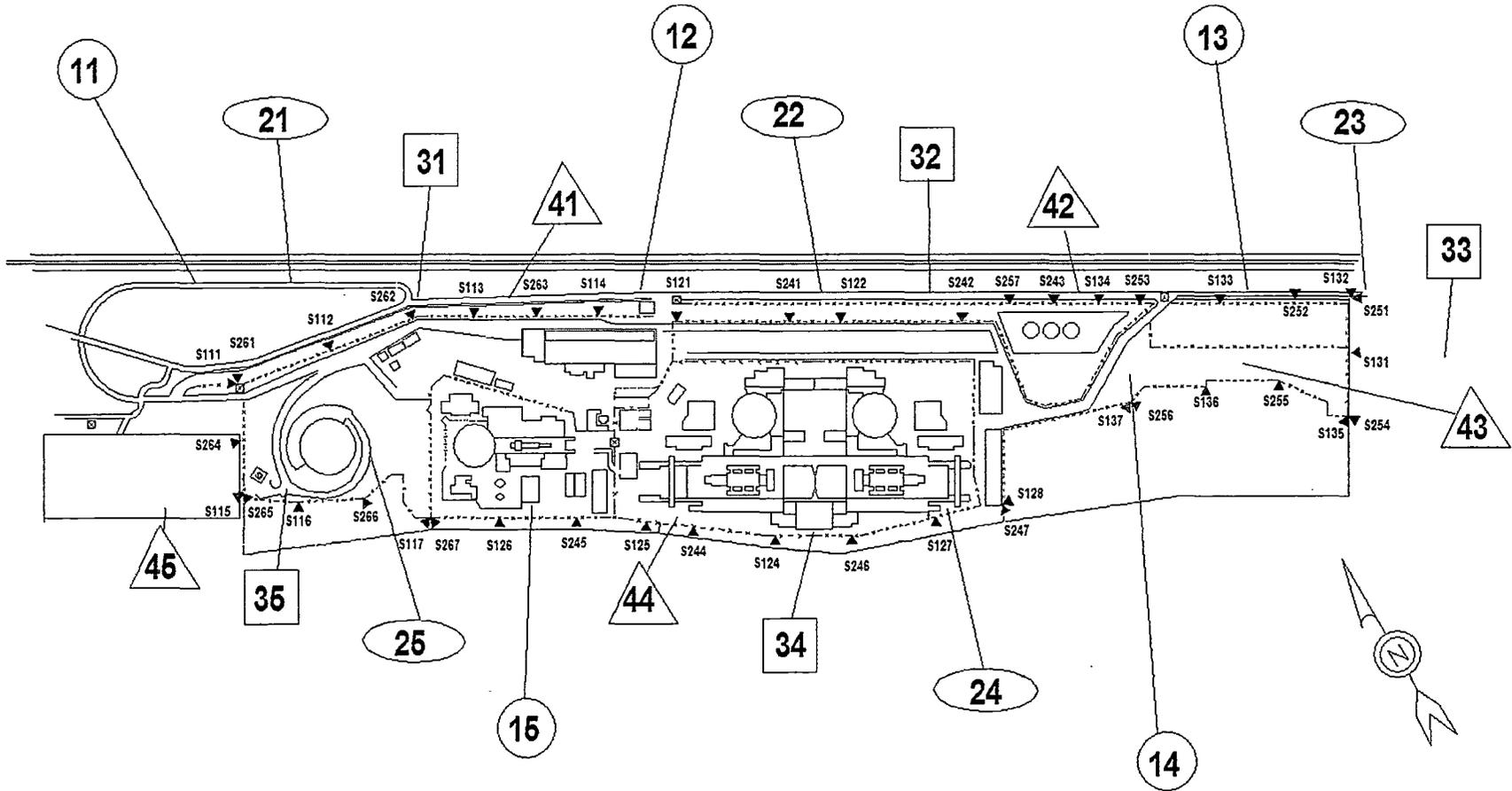
PERFORMED BY: _____ DATE: _____
Operations or designee

APPROVED BY: _____ DATE: _____
Manager, Emergency Preparedness

Test Coordinator: **FORWARD** this page to EP.

BEST AVAILABLE COPY

LEGEND: ○ = First Quarter ○ = Second Quarter □ = Third Quarter △ = Fourth Quarter



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Emergency Response Equipment - Compensatory	Attachment 18
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Equipment ID	
Equipment Description	
ERF / Location	
Action Request	

1.0 Describe Emergency Plan Function (Reference Section 6.8 and 6.9):

1.1 Category: Check the appropriate box

- Indication for a parameter used to assess and Emergency Action Level Threshold.
- Means of fulfilling an emergency response function other than above.

1.2 List compensatory measures used:

1.3 List the time period approved for compensatory measures (e.g., 90 days). For periodic monitoring or sampling, list the event trigger(s) designated to increase the frequency:

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Emergency Response Equipment - Compensatory	Attachment 18
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2.0 Do compensatory measures fully maintain the emergency response function?

YES NO

Basis:

3.0 Communication

3.1 For planned maintenance activities, and for unplanned maintenance expected to result in the equipment unavailable for more than 30 days, create an Action Request assigned to EP for evaluation of compensatory measures under 10 CFR 50.54(q).

3.1.1 Planned maintenance shall not proceed until the evaluation is approved.

3.1.2 Compensatory measures should be used immediately in the case of unplanned maintenance without waiting for the evaluation to be completed.

3.2 Notification of ERO

3.2.1 For planned maintenance, generate an Action Request to EP Manager to notify the ERO.

3.2.2 For unplanned maintenance, direct the EP Manager or designee to notify the ERO as soon as practical.

3.3 Generate an Action Request assignment under Action Request created in Step 3.1 for EP to track compensatory measures.

3.4 Review SO123-0-A7 for reportability requirements and actions.

- 4.0 Review / Approval
- 4.1 Reviewer should be Emergency Preparedness personnel.
- 4.2 Compensatory Measures Acceptance Criteria

NOTE

Temporary compensatory measures that are put in place while the affected equipment is being restored to full functionality are not considered changes to the emergency plan. However, an evaluation should address the capability of function and the timeliness of compensatory measures compared to the intended function of the degraded equipment.

4.2.1 The Reviewer completes the following evaluation:

SAT	COMPENSATORY MEASURE EVALUATION CRITERIA
	Compensatory measures provide specific, clear, and actionable guidance.
	Alternate indications / components include specifics such as the person or position assigned responsibility for actions associated with compensatory measures, actions required by compensatory measures, and periodicity for compensatory actions, as well as review and approval authority.
	Compensatory measures are the best available means to maintain the emergency preparedness function.

4.2.2 Attach this completed attachment to Action Request created in Step 3.3.

PREPARED BY: _____
Print Name / Signature Date

REVIEWED BY: _____
Print Name / Signature Date

APPROVED BY: _____
Print Name / Signature Date
(Shift Manager/designee or Manager, Emergency Preparedness/designee)

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Site Evacuation Route Sign Inspection	Attachment 19
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- 1.0 Verify signs listed on the below table are in place and in good condition (Reference Step 6.4.5).
- 1.1 IF signs are missing or defaced, THEN generate an Action Request to replace or repair.

SIGN LOCATION	SIGN IN PLACE AND IN GOOD CONDITION	Action Request	PERFORMED BY	DATE
Parking Lot 3 South Turnstile	Y N			
Parking Lot 3 North Turnstile	Y N			
Parking Lot 4 East Turnstile	Y N			
Parking Lot 4 West Turnstile	Y N			
South Gate Guard House	Y N			
North Gate Entrance	Y N			

COMMENTS: _____

REVIEWED BY: _____ **DATE:** _____

Emergency Preparedness Staff or designee

APPROVED BY: _____ **DATE:** _____

Manager, Emergency Preparedness

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Offsite Response Organization PDEP and Procedures Update Notification	Attachment 20
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1.0 Notify offsite response organizations of updates to the PDEP-1, PDEP-2, or Implementing Procedures (listed on Appendix 2 of PDEP-1) annually (Reference Step 6.3.10).

Comments (include how task was performed): _____

PERFORMED BY: _____
Emergency Preparedness Staff or designee

DATE: _____

APPROVED BY: _____
Manager, Emergency Preparedness

DATE: _____

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Summary of Changes	Attachment 22
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Action Request tracking 10 CFR 50.54(q): 1017-28177

Reason	Description of Change	Reviewer(s)	Step, Section, Attachment or Page
1217-31508	Delete IT/Telecom as cognizant division of Sirens. Delete steps to notify TCC for Sirens repair. Delete Trouble Ticket creation.	See Below	Attachments 1 Attachments 14 and 15 Attachments 14 and 15
1017-28177	Delete Thunderbolt Siren No. M034.		Attachments 1 and 14
Betterment	Correct punctuation.		Attachment 16
	Update description/function and compensatory measures for Sirens.		Attachment 1

Reviewers By Title	Reviewer Name:
Emergency Planning	Sischo
Cyber Security	Chandler
NOD (Nuclear Oversight Division)	Kowal
Operations	Boerneke
SDS	Hinojosa
Approvers:	
NOD Final Approval:	Kowal
CFDM Final Approval:	Gallion

Attachment 2

Report and Analysis Summary

San Onofre Nuclear Generating Station
 Report and Analysis Summary
 10 CFR 50.54(q)(5)

<p>Document Number: SO123-VIII-ADMIN-1, Revision 6 Title: Emergency Preparedness Program Maintenance SONGS Action Request: 1017-28177</p>	
Change Description	Analysis Summary
<p>The 10CFR50.54(q) evaluation for SO123-VIII-ADMIN-1 Revision 6 was performed under AR 1017-28177 assignment 8. This revision:</p> <ul style="list-style-type: none"> • Removes Thunderbolt Siren M034 as an onsite emergency alarm siren. • Clarifies the areas where rovers are used as a compensatory measure for loss of onsite sirens. • Clarifies the description/function of the Onsite Emergency Thunderbolt Sirens. • Updates responsibilities and processes due to the transition of programs to SONGS Decommissioning Solutions (SDS). • Incorporates editorial changes. 	<p>The removal of siren M034 and the clarifications for compensatory measures and description/function of the sirens do not modify the licensing basis. The Emergency Plan continues to provide means to notify onsite personnel of the initial classification or any escalation of an emergency by recognizable alarms and/or verbal announcements over the plant Public Address (PA) System.</p> <p>The changes related to the transition of programs to SDS do not modify the licensing basis. The groups that support Emergency Preparedness are changing. The responsibilities of the supporting organizations have been established in the transition documents and do not contradict the emergency plan content. Adequate equipment to support the emergency response is maintained. The Emergency Preparedness Manager continues to be responsible for the overall radiological emergency preparedness program.</p> <p>After the changes incorporation, the Emergency Plan continues to meet the regulatory requirements of 10CFR50.47(b) and 10CFR50 Appendix E, Section IV, as exempted.</p> <p>The changes do not modify the licensing basis with regards to a reduction in effectiveness. The capability and timeliness for the notification of emergency personnel, the protective actions available for plant workers during emergencies, and the emergency plan development and review are maintained. The capability and timeliness to perform the associated elements are also maintained.</p> <p>The changes can be implemented without prior NRC approval.</p>
<p>PREPARED BY: Lucia Sischo DATE: 4-19-2018</p>	<p>REVIEWED BY: Kevin Sheek DATE: 4-19-2018</p>