## **ATTACHMENT 10**

# Emergency Planning-Inspections, Tests, Analyses, and Acceptance Criteria (EP-ITAAC)

| Planning Standard  | EP Program Elements   | Inspections, Tests, Analyses  | Acceptance Criteria  |  |  |
|--|---|---|--|--|--|
| 1.0 Emergency Classification S   | 0 Emergency Classification System   |   |  |  |  |
| 10 CFR 50.47(b)(4) – A standard<br>emergency classification and action<br>level scheme, the bases of which<br>include facility system and effluent<br>parameters, is in use by the nuclear<br>facility licensee, and state and local<br>response plans call for reliance on<br>information provided by facility<br>licensees for determinations of<br>minimum initial off-site response<br>measures. | 1.1 A standard emergency<br>classification and emergency action<br>level (EAL) scheme exists, and<br>identifies facility system and effluent<br>parameters constituting the bases<br>for the classification scheme. [D.1**]<br>[D.1** corresponds to NUREG-<br>0654/FEMA-REP-1 evaluation<br>criteria.] | <ul> <li>1.1.1 An inspection of the Control<br/>Room, Technical Support Center<br/>(TSC), and Emergency Operations<br/>Facility (EOF) will be performed to<br/>verify that they have displays for<br/>retrieving facility system and<br/>effluent parameters as specified in<br/>the Emergency Classification and<br/>EAL scheme, and the displays are<br/>functional.</li> <li>1.1.2 An analysis of the EAL<br/>technical bases will be performed to<br/>verify as-built, site-specific<br/>implementation of the EAL scheme.</li> </ul> | <ul> <li>1.1.1(a) The parameters referenced<br/>in the Emergency Classification and<br/>EAL scheme are retrievable in the<br/>Control Room, TSC and EOF.</li> <li>1.1.1(b) The ranges of the displays<br/>encompass the values specified in<br/>the Emergency Classification and<br/>EAL scheme.</li> <li>1.1.2 The EAL scheme is consistent<br/>with Regulatory Guide 1.101,<br/>Emergency Planning and<br/>Preparedness for Nuclear Power<br/>Reactors.</li> </ul> |  |  |

| Planning Standard   | EP Program Elements   | Inspections, Tests, Analyses  | Acceptance Criteria   |
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| 2.0 Notification Methods and P  | rocedures   |   |   |
| 10 CFR 50.47(b)(5) – Procedures<br>have been established for<br>notification, by the licensee, of state<br>and local response organizations<br>and for notification of emergency<br>personnel by all organizations; the<br>content of initial and follow-up<br>messages to response | 2.1 The means exist to notify<br>responsible state and local<br>organizations within 15 minutes<br>after the licensee declares an<br>emergency. [E.1] | 2.1 A test will be performed to<br>demonstrate the capabilities for<br>providing initial notification to the<br>off-site authorities after a simulated<br>emergency classification. | 2.1 The States of Delaware and<br>New Jersey, and Kent, New Castle,<br>Cumberland, and Salem counties<br>received notification within 15<br>minutes after the declaration of an<br>emergency from the Control Room,<br>TSC and EOF. |
| organizations and the public has<br>been established; and means to<br>provide early notification and clear<br>instruction to the populace within<br>the plume exposure pathway  | 2.2 The means exist to notify<br>emergency response personnel.<br>[E.2]   | 2.2 A test of the primary and back-<br>up ERO notification systems will be<br>performed.  | 2.2 A test of the primary and back-<br>up ERO notification system resulted<br>in:   |
| Emergency Planning Zone have  |   |   | notification message.   |
|   |   |   | <ul> <li>Mobilization communication<br/>validated by personnel response<br/>to the notification system or by<br/>telephone.</li> </ul>  |
|   |   |   | c. Response to electronic<br>notification and plant public<br>address system demonstrated<br>during normal working hours, and<br>off hours.   |
|   | <ul><li>2.3 The means exist to notify and provide instructions to the populace within the plume exposure EPZ.</li><li>[E.6]</li></ul>                 | 2.3 A full test of the Prompt Alerting<br>and Notification System (ANS) and<br>the Emergency Alert System (EAS)<br>capabilities will be conducted.                                  | 2.3 Notification and clear<br>instructions to the public<br>accomplished in accordance with<br>the emergency plan requirements.   |

| Planning Standard  | EP Program Elements  | Inspections, Tests, Analyses  | Acceptance Criteria  |  |  |
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| 3.0 Emergency Communication  | Emergency Communications   |   |  |  |  |
| 10 CFR 50.47(b)(6) – Provisions<br>exist for prompt communications<br>among principal response<br>organizations to emergency<br>personnel and to the public. | 3.1 The means exist for<br>communications among the Control<br>Room, TSC, EOF, principal state<br>and local emergency operations<br>centers (EOCs), and field<br>monitoring teams. [F.1.d]   | 3.1(a) A test will be performed to<br>demonstrate (both primary and<br>secondary methods/systems) the<br>ability to communicate from the<br>Control Room, TSC and the EOF to<br>responsible State and local<br>government agencies.   | 3.1(a) Demonstrated (both primary<br>and secondary methods/systems)<br>the ability to communicate from the<br>Control Room, TSC and the EOF to<br>responsible State and local<br>government agencies.  |  |  |
|  |  | 3.1(b) A test will be performed to<br>demonstrate (both primary and<br>secondary methods/systems) the<br>ability to communicate from the TSC<br>and the EOF to PSEG field<br>monitoring teams.  | 3.1(b) Demonstrated (both primary<br>and secondary methods/systems)<br>the ability to communicate from the<br>TSC and the EOF to PSEG field<br>monitoring teams.   |  |  |
|  | 3.2 The means exist for<br>communications from the Control<br>Room, TSC, and EOF to the NRC<br>headquarters and regional office<br>EOCs (including establishment of<br>the Emergency Response Data<br>System (ERDS) [or its successor<br>system] between the on-site<br>computer system and the NRC<br>Operations Center.) [F.1.f] | 3.2 A test will be performed to<br>demonstrate the ability to<br>communicate from the Control<br>Room, TSC and the EOF to the<br>NRC Operations Centers utilizing<br>the ENS. The Health Physics<br>Network (HPN) is tested to ensure<br>communications between the TSC<br>and EOF with the NRC Operations<br>Centers. ERDS is established [or its<br>successor system] between the on-<br>site computer systems and the NRC<br>Operations Centers. | 3.2 Communications established<br>between the Control Room, TSC<br>and EOF to the NRC headquarters<br>and regional office EOCs utilizing<br>the ENS. The TSC and EOF<br>demonstrated communications with<br>the NRC Operations Center using<br>the HPN. The access port for ERDS<br>[or its successor system] is provided<br>and successfully completes a<br>transfer of data from the Unit to the<br>NRC Operations Center. |  |  |

| Planning Standard  | EP Program Elements  | Inspections, Tests, Analyses  | Acceptance Criteria   |  |  |
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| 4.0 Public Education and Infor   | 4.0 Public Education and Information   |   |   |  |  |
| 10 CFR 50.47(b)(7) – Information is<br>made available to the public on a<br>periodic basis on how they will be<br>notified and what their initial actions<br>should be in an emergency (e.g.,<br>listening to a local broadcast station<br>and remaining indoors), the<br>principal points of contact with the<br>news media for dissemination of<br>information during an emergency<br>(including the physical location or<br>locations) are established in<br>advance, and procedures for<br>coordinated dissemination of<br>information to the public are<br>established. | 4.1 The licensee has provided<br>space which may be used for a<br>limited number of the news media.<br>[G.3.b] | 4.1 An inspection of the as-built<br>facility/area provided for the news<br>media will be performed in the<br>Emergency News Center/Joint<br>Information Center (ENC/JIC). The<br>space provides adequate<br>equipment to support ENC/JIC<br>operation. | <ul> <li>4.1 The ENC/JIC included<br/>equipment to support ENC/JIC<br/>operations, including<br/>communications with:</li> <li>a. TSC and EOF</li> <li>b. Principal state and local EOCs</li> <li>c. Limited number of news media</li> <li>Designated space is available for<br/>news media briefings.</li> </ul> |  |  |

| Planning Standard  | EP Program Elements   | Inspections, Tests, Analyses   | Acceptance Criteria   |  |  |
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| 5.0 Emergency Facilities and E   | 0 Emergency Facilities and Equipment  |  |   |  |  |
| 10 CFR 50.47(b)(8) – Adequate<br>emergency facilities and equipment<br>to support the emergency response<br>are provided and maintained. | 5.1 The licensee has established a Technical Support Center (TSC) and an onsite Operations Support Center (OSC). [H.1]. | 5.1.1 An inspection of the as-built<br>TSC and OSC will be performed,<br>including a test of the capabilities. | 5.1.1 The TSC size is consistent<br>with NUREG-0696. The TSC has at<br>least 1875 ft <sup>2</sup> of floor space (75 ft <sup>2</sup><br>per person for a minimum of 25<br>persons).   |  |  |
|  |   |  | 5.1.2 Communication equipment is installed in the TSC and OSC, and voice transmission and reception are accomplished.   |  |  |
|  |   |  | 5.1.3 The TSC ventilation system includes a high efficiency particulate air (HEPA), and charcoal filter and radiation monitors are installed.   |  |  |
|  |   |  | 5.1.4 The TSC has the means to<br>receive, store, process, and display<br>plant and environmental<br>information, and enable the<br>initiation of emergency measures<br>and the conduct of emergency<br>assessment. These capabilities are<br>demonstrated during testing and<br>acceptance activities. |  |  |
|  |   |  | 5.1.5 A reliable and back-up electrical power supply is available for the TSC.  |  |  |
|  |   |  | 5.1.6 There is an OSC located inside the Protected Area.  |  |  |

|     | Planning Standard                            | EP Program Elements  | Inspections, Tests, Analyses  | Acceptance Criteria  |
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| 5.0 | D Emergency Facilities and Equipment (cont.) |  |   |  |
| 5.0 | Emergency Facilities and E                   | quipment (cont.)         5.2 The licensee has established<br>an EOF. [H.2] | 5.2 An inspection of the EOF will be<br>performed, including a test of the<br>capabilities. | <ul> <li>5.2.1 Demonstrated<br/>communications between the<br/>Control Room, TSC, EOF, field<br/>monitoring teams, NRC,<br/>responsible State and county<br/>agencies, and the ENC/JIC.</li> <li>5.2.2 The parameters referenced in<br/>the Emergency Classification and<br/>EAL scheme are retrievable in the<br/>EOF.</li> </ul> |
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| Planning Standard   | EP Program Elements  | Inspections, Tests, Analyses  | Acceptance Criteria   |  |
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| 6.0 Accident Assessment   |  |   |   |  |
| 10 CFR 50.47(b)(9) – Adequate<br>methods, systems, and equipment<br>for assessing and monitoring<br>actual or potential off-site<br>consequences of a radiological<br>emergency condition are in use. | 6.1 The means exist to provide<br>initial and continuing radiological<br>assessment throughout the course<br>of an accident. [I.2] | 6.1 A test of the emergency plan<br>will be conducted by performing a<br>drill or exercise to verify the<br>capability to perform accident<br>assessment. | <ul> <li>6.1 Using selected monitoring parameters specified in the PSEG Site Emergency Plan, including EALs (ITAAC Acceptance Criteria 1.1.1), simulated degraded plant conditions are assessed and protective actions are initiated in accordance with the following criteria:</li> <li>a. Demonstrated the ability to obtain onsite radiological surveys and samples.</li> <li>b. Demonstrated the ability to continuously monitor and control radiation exposure to emergency workers.</li> <li>c. Demonstrated the ability to assemble and deploy field monitoring teams within 60 minutes from the decision to do so.</li> <li>d. Demonstrated the ability to astisfactorily collect and disseminate field team data.</li> <li>e. Demonstrated the ability to develop dose projections.</li> </ul> |  |

|     | Planning Standard           | EP Program Elements  | Inspections, Tests, Analyses  | Acceptance Criteria  |  |
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| 6.0 | Accident Assessment (cont.) |  |   |  |  |
|     |                             | <ul> <li>6.2 The means exist to determine the source term of releases of radioactive material within plant systems, and the magnitude of the release of radioactive materials based on plant system parameters and effluent monitors. [I.3]</li> <li>6.3 The means exist to continuously assess the impact of the release of radioactive materials to the environment, accounting for the relationship between effluent monitor readings, and on-site and off-site exposures and contamination for various meteorological conditions. [I.4]</li> </ul> | <ul> <li>6.2 A test will be performed to demonstrate that the means exist to determine the source term of releases of radioactive material within plant systems, and the magnitude of the release of radioactive materials based on plant system parameters and effluent monitors.</li> <li>6.3 A test will be performed that provides evidence that the impact of a radiological release to the environment can be assessed by using the relationship between effluent monitor readings, and onsite and off-site exposures and contamination for various meteorological conditions.</li> </ul> | <ul> <li>f. Demonstrated the ability to make the decision whether to issue radioprotective drugs, (KI), to on-site emergency workers.</li> <li>g. Demonstrated the ability to develop appropriate protective action recommendations (PARs) and expeditiously notify appropriate authorities within 15 minutes of development.</li> <li>6.2 Demonstrated through training or drills that Emergency Plan Implementing Procedures (EPIPs) provide direction to accurately calculate the source terms and the magnitude of the release of postulated accident scenario releases.</li> <li>6.3 Demonstrated through training or drills that the means exist to continuously assess the impact of the release of radioactive materials to the environment, accounting for the relationship between effluent monitor readings, and on-site and off-site exposures and contamination for various meteorological conditions.</li> </ul> |  |

| Planning Standard           | EP Program Elements   | Inspections, Tests, Analyses  | Acceptance Criteria  |  |  |
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| 6.0 Accident Assessment (co | Accident Assessment (cont.)   |   |  |  |  |
|                             | 6.4 The means exist to acquire and<br>evaluate meteorological<br>information. [I.5]   | 6.4 A test will be performed to acquire and evaluate meteorological data/information.   | 6.4 Demonstrated that<br>meteorological data necessary to<br>implement the EPIPs is retrievable<br>in the Control Room, TSC and<br>EOF.  |  |  |
|                             | <ul> <li>6.5 The means exist to determine the release rate and projected doses if the instrumentation used for assessment is off-scale or inoperable. [I.6]</li> <li>6.6 The means exist for environmental monitoring within the plume exposure EPZ. [I.7]</li> </ul> | <ul> <li>6.5 A test will be performed of the capabilities to determine the release rate and projected doses if the instrumentation used for assessment is off-scale or inoperable.</li> <li>6.6 A test will be performed of the capabilities for field monitoring within the plume exposure EPZ.</li> </ul> | <ul> <li>6.5 Demonstrated through training or drills the ability to determine release rate and projected dose rates when instruments are offscale or inoperable.</li> <li>6.6 Demonstrated through training or drills the field monitoring teams were dispatched and able to locate and monitor a radiological release within the plume exposure EPZ.</li> </ul> |  |  |

| Planning Standard           | EP Program Elements  | Inspections, Tests, Analyses   | Acceptance Criteria  |  |  |
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| 6.0 Accident Assessment (co | 6.0 Accident Assessment (cont.)  |  |  |  |  |
|                             | 6.7 The means exist to make rapid<br>assessments of actual or potential<br>magnitude and locations of<br>radiological hazards through liquid<br>or gaseous release pathways,<br>including activation, notification<br>means, field team composition,<br>transportation, communication,<br>monitoring equipment, and<br>estimated deployment times. [I.8] | 6.7 A test will be performed of the<br>capabilities to make rapid<br>assessments of actual or potential<br>magnitude and locations of<br>radiological hazards through liquid<br>or gaseous release pathways,<br>including activation, notification<br>means, field team composition,<br>transportation, communication,<br>monitoring equipment, and<br>estimated deployment times. | <ul> <li>6.7 Demonstrated through training or drills using EPIPs:</li> <li>a. A qualified field monitoring team was promptly notified, activated, briefed and dispatched from the EOF during a radiological release scenario.</li> <li>b. The team used monitoring equipment, transportation, communication from the field and located specific sampling locations.</li> <li>c. The team made rapid assessment of actual or potential magnitude and located liquid or gaseous releases.</li> </ul> |  |  |

| 6.0 Accident Assessment (cont.)   |  |
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| 6.8 The capability exists to detect<br>and measure radioiodine<br>concentrations in air in the plume<br>exposure EPZ, as low as $10^{-7}$<br>$\mu$ Ci/cc (microcuries per cubic<br>centimeter) under field conditions.6.8 A test will be performed of the<br>capabilities to detect and measure<br>radioiodine concentrations in air in<br>the plume exposure EPZ, as low as<br>$10^{-7}$ $\mu$ Ci/cc (micro-curies per cubic<br>centimeter) under field conditions.6.8 A test will be performed of the<br>capabilities to detect and measure<br>radioiodine concentrations in air in<br>the plume exposure EPZ, as low as<br>$10^{-7}$ $\mu$ Ci/cc (micro-curies per cubic<br>centimeter) under field conditions.6.8 A field monitor<br>demonstrated the<br>and detection equ<br>concentrations in<br>$\mu$ Ci/cc (micro-curies per cubic<br>centimeter) under field conditions.6.8 A test will be performed of the<br>capabilities to detect and measure<br>radioidine concentrations in air in<br>the plume exposure EPZ, as low as<br>$10^{-7}$ $\mu$ Ci/cc (micro-curies per cubic<br>centimeter) under field conditions.6.8 A field monitor<br>demonstrated the<br>and detection equ<br>concentrations in<br>exposure EPZ, as<br>$\mu$ Ci/cc. | oring team<br>e use of sampling<br>uipment for air<br>the plume<br>s low as 10 <sup>-7</sup>   |
| 6.9 The means exist to estimate<br>integrated dose from the projected<br>and actual dose rates, and for<br>comparing these estimates with the<br>EPA protective action guides<br>(PAGs). [I.10]<br>6.9 A test will be performed of the<br>capabilities to estimate integrated<br>dose from the projected and actual<br>dose rates, and for comparing these<br>estimates with the EPA protective<br>action guides.<br>6.9 Personnel de<br>ability to estimate<br>from the dose ast<br>program and the<br>team reading dur<br>release scenario.<br>were successfully<br>the EPA Protectiv<br>(PAGs).  | monstrated the<br>e integrated dose<br>sessment<br>field monitoring<br>ing a radioactive<br>The results<br>y compared with<br>ve Action Guides |

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| 7.0 Protective Response   |  |  |  |  |
| 10 CFR 50.47(b)(10) – A range of<br>protective actions has been<br>developed for the plume exposure<br>EPZ for emergency workers and<br>the public. In developing this<br>range of actions, consideration<br>has been given to evacuation,<br>sheltering, and, as a supplement<br>to these, the prophylactic use of<br>potassium iodide (KI), as<br>appropriate. Guidelines for the<br>choice of protective actions during<br>an emergency, consistent with<br>Federal guidance, are developed<br>and in place, and protective<br>actions for the ingestion exposure<br>EPZ appropriate to the locale<br>have been developed. | <ul> <li>7.1 The means exist to warn and advise on-site individuals of an emergency, including those in areas controlled by the operator, including:[J.1]</li> <li>1. Employees not having emergency assignments.</li> <li>2. Visitors.</li> <li>3. Contractor and construction personnel.</li> <li>4. Other people who may be in the public access areas, on or passing through the site, or within the owner controlled area.</li> </ul> | 7.1 A test will be performed of the<br>capabilities to warn and advise<br>on-site individuals of an emergency,<br>including those in the owner<br>controlled area and the immediate<br>vicinity. | <ul> <li>7.1 Demonstrated the ability to warn and advise on-site individuals including:</li> <li>1. Non-essential employees.</li> <li>2. Visitors.</li> <li>3. Contractor and construction personnel.</li> <li>4. Other people within the owner controlled area and the immediate vicinity.</li> </ul> |  |

| Planning Standard   | EP Program Elements  | Inspections, Tests, Analyses  | Acceptance Criteria   |
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| 8.0 Exercises and Drills  |  |   |   |
| 10 CFR 50.47(b)(14) – Periodic<br>exercises are (will be) conducted to<br>evaluate major portions of<br>emergency response capabilities,<br>periodic drills are (will be) conducted<br>to develop and maintain key skills,<br>and deficiencies identified as a result<br>of exercises or drills are (will be)<br>corrected. | 8.1 Licensee conducts a full<br>participation exercise to evaluate<br>major portions of emergency<br>response capabilities, which<br>includes participation by each state<br>and local agency within the plume<br>exposure EPZ, and each state<br>within the ingestion control EPZ.<br>[N.1] | 8.1 A full participation exercise<br>(test) will be conducted within the<br>specified time periods of Appendix<br>E to 10 CFR, Part 50. | <ul> <li>8.1.1 The exercise is completed within the specified time periods of 10 CFR Part 50, Appendix E; on-site exercise objectives have been met, and there are no uncorrected on-site exercise deficiencies.</li> <li>A. Accident Assessment and Classification</li> <li>1. Demonstrated the ability to identify initiating conditions, determine emergency action level (EAL) parameters, and correctly classify the emergency throughout the exercise.</li> <li>Standard Criteria: <ul> <li>a. Determined the correct highest emergency classification level based on events which were in progress, considering past events and their impact on the current conditions, within 15 minutes from the time the initiating condition(s) or EAL is identified.</li> </ul> </li> </ul> |

| Pla    | anning Standard                  | EP Program Elements | Inspections, Tests, Analyses | Acceptance Criteria   |  |  |
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| 8.0 Ex | 8.0 Exercises and Drills (cont.) |                     |                              |   |  |  |
|        |                                  |                     |                              | B. Notifications  |  |  |
|        |                                  |                     |                              | <ol> <li>Demonstrated the ability to<br/>alert, notify and mobilize site<br/>emergency response<br/>personnel.</li> </ol>   |  |  |
|        |                                  |                     |                              | <ul> <li>Standard Criteria:</li> <li>a. Completed the designated checklist and performed the plant page announcement of the emergency classification.</li> <li>b. Activated the emergency outdial system within about 10 minutes of the initial event classification for an Alert or higher.</li> </ul> |  |  |
|        |                                  |                     |                              | 2. Demonstrated the ability to<br>notify responsible State<br>agencies within 15 minutes<br>and the NRC within 60<br>minutes after declaring an<br>emergency.   |  |  |
|        |                                  |                     |                              | Standard Criteria:<br>a. Transmitted information<br>using the designated<br>checklist in accordance<br>with approved Emergency<br>Plan documents within 15<br>minutes of event<br>classification.   |  |  |

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| 8.0 Exercises and Drills (cont.) | 8.0 Exercises and Drills (cont.) |                              |   |  |  |  |
|                                  |                                  |                              | <ul> <li>b. Transmitted follow-up notification information using the designated checklist in accordance with approved Emergency Plan documents.</li> <li>c. Transmitted information using designated checklist within 60 minutes of event classification to the NRC.</li> <li>3. Demonstrated the ability to warn or advise on-site individuals of emergency conditions.</li> <li>Standard Criteria: <ul> <li>a. Initiated notification of on-site individuals (via public address, OCA sirens or telephone) using designated checklist.</li> </ul> </li> <li>4. Demonstrated the capability of the Prompt Alerting and Notification System (ANS) to operate properly for public notification when required.</li> </ul> |  |  |  |
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| 8.0 Exercises and Drills (cont.) | 8.0 Exercises and Drills (cont.) |                              |   |  |  |  |
| 8.0 Exercises and Drills (cont.) |                                  |                              | <ul> <li>Standard Criteria: <ul> <li>a. ≥ 90% of the sirens operate properly as indicated by the siren feedback system.</li> </ul> </li> <li>C. Emergency Response <ul> <li>Demonstrated the capability to direct and control emergency operations.</li> <li>Standard Criteria: <ul> <li>a. Overall Emergency Command and Control demonstrated in the Control room (simulator) in the early phase of the emergency and by the TSC within 90 minutes from initial event classification of Alert or higher.</li> </ul> </li> <li>Demonstrated the ability to transfer the Emergency Coordinator function from the SM in the Control room</li> </ul></li></ul> |  |  |  |
|                                  |                                  |                              | SM in the Control room<br>(simulator) to the EDO in the<br>TSC and later to the ERM in<br>the EOF.  |  |  |  |

| Planning Standard                | EP Program Elements | Inspections, Tests, Analyses | Acceptance Criteria   |  |
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| 8.0 Exercises and Drills (cont.) |                     |                              |   |  |
|                                  |                     |                              | Standard Criteria:<br>a. Briefings were conducted<br>prior to turnover<br>responsibility. Personnel<br>documented transfer of<br>duties.  |  |
|                                  |                     |                              | <ol> <li>Demonstrated the ability to<br/>prepare for 24-hour staffing<br/>requirements.</li> </ol>  |  |
|                                  |                     |                              | Standard Criteria:<br>a. Completed 24-hour staff<br>assignments.  |  |
|                                  |                     |                              | 4. Demonstrated the ability to<br>perform assembly and<br>accountability for all<br>personnel in the Protected<br>Area (PA) within 30 minutes<br>of an emergency (after<br>accountability message has<br>been announced) requiring<br>Protected Area<br>accountability. |  |

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| 8.0 Exercises and Drills (cont.) | 8.0 Exercises and Drills (cont.) |                              |   |  |  |  |
|                                  |                                  |                              | <ul> <li>Standard Criteria: <ul> <li>a. Protected Area (PA)</li> <li>personnel accountability</li> <li>completed within 30</li> <li>minutes of an emergency</li> <li>(after accountability</li> <li>message has been</li> <li>announced) requiring PA</li> <li>accountability.</li> </ul> </li> <li>D. Emergency Response <ul> <li>Facilities</li> </ul> </li> <li>1. Demonstrated activation of the Operations Support Center (OSC) and full functional operation of the TSC and EOF within 90 minutes of event classification.</li> <li>Standard Criteria: <ul> <li>a. The TSC, and OSC activated within 90 minutes of the initial classification of an Alert or higher.</li> <li>b. The EOF activated within 90 minutes of the initial classification of SAE or higher.</li> </ul> </li> </ul> |  |  |  |
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|---------------------------------|----------------------------------|------------------------------|--|--|--|--|
| 8.0 Exercises and Drills (cont. | 8.0 Exercises and Drills (cont.) |                              |  |  |  |  |
|                                 |                                  |                              | <ol> <li>Demonstrated the adequacy<br/>of equipment, security<br/>provisions, and habitability<br/>precautions for the TSC,<br/>OSC, EOF and ENC/JIC, as<br/>appropriate.</li> <li>Standard Criteria:         <ul> <li>Demonstrated the<br/>adequacy of the<br/>emergency equipment in<br/>the emergency response<br/>facilities including<br/>availability and general<br/>consistency with the<br/>Emergency Plan<br/>Implementing<br/>Procedures (EPIPs).</li> <li>Personnel assigned to<br/>the ERO implemented<br/>and followed applicable<br/>EPIPs.</li> <li>The SRPT (onshift),<br/>Radiological Assessment<br/>Coordinator (TSC), and<br/>Radiological Support<br/>Manager (EOF)<br/>implemented the<br/>designated checklist if an<br/>on-site/off-site release<br/>occurred.</li> </ul> </li> </ol> |  |  |  |

| Planning Standard                | EP Program Elements              | Inspections, Tests, Analyses | Acceptance Criteria  |  |  |
|----------------------------------|----------------------------------|------------------------------|--|--|--|
| 8.0 Exercises and Drills (cont.) | 8.0 Exercises and Drills (cont.) |                              |  |  |  |
|                                  |                                  |                              | <ol> <li>Demonstrated the adequacy<br/>of communications for all<br/>emergency support<br/>resources.</li> <li>Standard Criteria:         <ul> <li>Emergency response<br/>communications listed in<br/>the EPIPs are available<br/>and operational.</li> <li>Communications<br/>systems are tested in<br/>accordance with the<br/>TSC, OSC and EOF<br/>activation checklists.</li> <li>Emergency response<br/>facility personnel are able<br/>to operate all specified<br/>communications<br/>systems.</li> <li>Clear primary and<br/>backup communications<br/>links are established and<br/>maintained for the<br/>duration of the exercise.</li> </ul> </li> <li>Radiological Assessment and<br/>Control</li> <li>Demonstrated the ability to<br/>obtain on-site radiological<br/>surveys and samples.</li> </ol> |  |  |

| Planning Standard                | EP Program Elements              | Inspections, Tests, Analyses | Acceptance Criteria  |  |  |  |
|----------------------------------|----------------------------------|------------------------------|--|--|--|--|
| 8.0 Exercises and Drills (cont.) | 8.0 Exercises and Drills (cont.) |                              |  |  |  |  |
|                                  |                                  |                              | <ul> <li>Standard Criteria: <ul> <li>a. Radiation Protection<br/>Technicians<br/>demonstrated the ability<br/>to obtain appropriate<br/>instruments (range and<br/>type) and perform<br/>surveys.</li> </ul> </li> <li>b. Airborne samples taken<br/>when the conditions<br/>indicate the need for the<br/>information.</li> </ul> 2. Demonstrated the ability to<br>continuously monitor and<br>control radiation exposure to<br>emergency workers. Standard Criteria: <ul> <li>a. Emergency workers<br/>issued self-reading<br/>dosimeters when<br/>radiation levels require,<br/>and exposures controlled<br/>to 10 CFR 20 limits<br/>(unless the SM or<br/>Emergency Duty Officer,<br/>or designee, authorizes<br/>emergency limits).</li> </ul> |  |  |  |
|                                  |                                  |                              |  |  |  |  |

| Planning Standard                | EP Program Elements | Inspections, Tests, Analyses | Acceptance Criteria  |
|----------------------------------|---------------------|------------------------------|--|
| 8.0 Exercises and Drills (cont.) |                     |                              |  |
|                                  |                     |                              | <ul> <li>Exposure records are<br/>available from the site<br/>database(primary), a pc<br/>database (backup) or a<br/>hard copy report(backup)</li> </ul>   |
|                                  |                     |                              | <ol> <li>Demonstrated the ability to<br/>assemble and dispatch field<br/>monitoring teams.</li> </ol>  |
|                                  |                     |                              | Standard Criteria:<br>a. An on-site Field<br>Monitoring Team is ready<br>to be deployed within 60<br>minutes of being<br>requested from the<br>declaration of an Alert or<br>higher.   |
|                                  |                     |                              | <ol> <li>Demonstrated the ability to<br/>satisfactorily collect and<br/>disseminate field team data.</li> </ol>  |
|                                  |                     |                              | Standard Criteria:<br>a. Field team data to be<br>collected is dose rate or<br>counts per minute (cpm)<br>from the plume, both<br>open and closed window,<br>and air sample (gross/net<br>cpm) for particulate and<br>iodine, if applicable. |

| Planning Standard                | EP Program Elements              | Inspections, Tests, Analyses | Acceptance Criteria  |  |  |  |
|----------------------------------|----------------------------------|------------------------------|--|--|--|--|
| 8.0 Exercises and Drills (cont.) | 8.0 Exercises and Drills (cont.) |                              |  |  |  |  |
|                                  |                                  |                              | <ul> <li>Radiological data<br/>disseminated from the<br/>Field Team to the Offsite<br/>Field Team Coordinator /<br/>Communicator.</li> </ul>   |  |  |  |
|                                  |                                  |                              | <ol> <li>Demonstrated the ability to<br/>develop dose projections.</li> </ol>  |  |  |  |
|                                  |                                  |                              | Standard Criteria:<br>a. The Shift Radiation<br>Protection Technician<br>(SRPT) performed timely<br>and accurate dose<br>projections, in<br>accordance with the<br>EPIPs.  |  |  |  |
|                                  |                                  |                              | <ol> <li>Demonstrated the ability to<br/>develop appropriate<br/>Protective Action<br/>Recommendations (PARs),<br/>and notified NJ and DE within<br/>15 minutes of a General<br/>Emergency declaration or of<br/>an update of the previously<br/>issued PARs.</li> </ol> |  |  |  |

| 8.0       Exercises and Drills (cont.)         Standard Criteria:       a. Total Effective Dose<br>Equivalent (TEDE) and<br>Committed Dose<br>Equivalent (TEDE) dose<br>projections from the dose<br>assessment computer<br>code, established in<br>accordance with the<br>EPIPs.         b.       PARS developed within<br>15 minutes of data<br>availability.         c.       PARS developed within<br>15 minutes of data<br>availability.         c.       PARS transmitted via<br>voice, fax, or<br>electronically within 15<br>minutes as required by<br>the EPIPs.         F.       Public Information         1.       Demonstrated the capability<br>to develop and disseminate<br>clear, accurate, and timely<br>information to the news<br>media.         Standard Criteria:<br>a.       Standard Criteria:<br>a.         Standard Criteria:<br>b.       Standard Criteria:<br>b.   | Planning Standard                | EP Program Elements | Inspections, Tests, Analyses | Acceptance Criteria   |
|--|----------------------------------|---------------------|------------------------------|---|
| Standard Criteria:         a. Total Effective Dose         Equivalent (TEDE) and         Committed Dose         Equivalent (CDE) dose         projections from the dose         assessment computer         code, established in         accordance with the         EPIPs.         b.         code, established in         accordance with the         EPIPs.         b.         code, established in         accordance with the         EPIPs.         b.         code, established in         accordance with the         EPIPs.         c.         pARS developed within 15         minutes as required to a         voice, fax, or         electronically within 15         minutes as required by         the EPIPs.         F. Public Information         1. Demonstrated the capability         to develop and disseminate         clear, accurate, and timely         information to the news         media.         Standard Criteria:         a. Media briefings provided         within approximately 60         minutes of activation of <th>8.0 Exercises and Drills (cont.)</th> <th></th> <th></th> <th></th> | 8.0 Exercises and Drills (cont.) |                     |                              |   |
|  |                                  |                     |                              | <ul> <li>Standard Criteria: <ul> <li>a. Total Effective Dose</li> <li>Equivalent (TEDE) and</li> <li>Committed Dose</li> <li>Equivalent (CDE) dose</li> <li>projections from the dose</li> <li>assessment computer</li> <li>code, established in</li> <li>accordance with the</li> <li>EPIPs.</li> </ul> </li> <li>b. PARS developed within <ul> <li>15 minutes of data</li> <li>availability.</li> </ul> </li> <li>c. PARs transmitted via</li> <li>voice, fax, or</li> <li>electronically within 15 <ul> <li>minutes as required by</li> <li>the EPIPs.</li> </ul> </li> <li>F. Public Information</li> </ul> <li>1. Demonstrated the capability <ul> <li>to develop and disseminate</li> <li>clear, accurate, and timely</li> <li>information to the news</li> <li>media.</li> </ul> </li> <li>Standard Criteria: <ul> <li>a. Media briefings provided</li> <li>within approximately 60</li> <li>minutes of activation of</li> <li>the ENC/JIC.</li> </ul> </li> |

| Planning Standard                | EP Program Elements | Inspections, Tests, Analyses | Acceptance Criteria  |  |  |
|----------------------------------|---------------------|------------------------------|--|--|--|
| 8.0 Exercises and Drills (cont.) |                     |                              |  |  |  |
|                                  |                     |                              | 2. Demonstrated the capability<br>to establish and effectively<br>operate rumor control in a<br>coordinated fashion.   |  |  |
|                                  |                     |                              | <ul> <li>Standard Criteria:</li> <li>a. Calls answered in a timely manner with the correct information.</li> <li>b. Calls returned or forwarded, as appropriate, to demonstrate responsiveness.</li> <li>c. Rumors identified and addressed.</li> </ul>  |  |  |
|                                  |                     |                              | <ul> <li>G. Evaluation</li> <li>1. Demonstrated the ability to conduct a post-exercise critique, to determine areas requiring improvement and corrective action.</li> <li>Standard Criteria: <ul> <li>a. Drill and Exercise objectives developed to allow for performance evaluation.</li> </ul> </li> </ul> |  |  |

| Planning Standard                | EP Program Elements | Inspections, Tests, Analyses | Acceptance Criteria   |  |  |
|----------------------------------|---------------------|------------------------------|---|--|--|
| 8.0 Exercises and Drills (cont.) |                     |                              |   |  |  |
|                                  |                     |                              | <ul> <li>b. Significant problems in<br/>achieving the objectives<br/>discussed to ensure<br/>understanding of why<br/>objectives were not fully<br/>achieved.</li> <li>8.1.2 On-site emergency<br/>response personnel were<br/>mobilized in sufficient numbers to</li> </ul>  |  |  |
|                                  |                     |                              | fill emergency response positions<br>identified in Section 3,<br>Emergency Response<br>Organization, and they<br>successfully performed assigned<br>responsibilities.   |  |  |
|                                  |                     |                              | 8.1.3 The exercise was<br>completed within the specified<br>time periods of Appendix E to 10<br>CFR Part 50,<br>off-site exercise objectives were<br>met, and there were no<br>uncorrected<br>off-site exercise deficiencies; or a<br>license condition requires off-site<br>deficiencies to be corrected prior<br>to operation above 5% of rated<br>power. |  |  |
|                                  |                     |                              |   |  |  |

| Planning Standard   | EP Program Elements   | Inspections, Tests, Analyses                                    | Acceptance Criteria  |  |  |  |
|---|---|---|--|--|--|--|
| 9.0 Implementing Procedures   |   |   |  |  |  |  |
| 10 CFR Part 50, App. E.V – No<br>less than 180 days prior to the<br>scheduled issuance of an<br>operating license for a nuclear<br>power reactor or a license to<br>possess nuclear material, the<br>applicant's detailed implementing<br>procedures for its emergency<br>plan shall be submitted to the<br>Commission. | 9.1 The licensee has submitted<br>detailed implementing procedures<br>for its emergency plan no less than<br>180 days prior to fuel load. | 9.1 An inspection of the submittal<br>letter will be performed. | 9.1 The licensee has submitted<br>detailed EPIPs for the onsite<br>emergency plan no less than 180<br>days prior to fuel load. |  |  |  |