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DOC #	REV #	TITLE	INSTRUCTIONS
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THE FOLLOWING PROCEDURE(S) HAS BEEN REVISED, PLEASE REMOVE YOUR CURRENT COPY AND REPLACE WITH ATTACHED UPDATED REVISION:

- IP-EP-240 REVISION 8
- IP-EP-241 REVISION 7
- IP-EP-251 REVISION 8
- IP-EP-260 REVISION 12
- IP-EP-270 REVISION 3
- IP-EP-310 REVISION 21
- IP-EP-320 REVISION 15
- IP-EP-330 REVISION 12

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NRR*

EFFECTIVE DATE: 5/17/2021

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IPEC IMPLEMENTING PROCEDURE PREPARATION, REVIEW, AND APPROVAL

IP-SMM-AD-102 Rev: 17

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ATTACHMENT 10.2

IPEC PROCEDURE REVIEW AND APPROVAL

(Page 1 of 1)

Procedure Title: Security

Procedure No. IP-EP-240 Existing Rev: 7 New Rev: 8 DRN/EC No: DRN-21-00121

Procedure Activity (MARK Applicable)	<input type="checkbox"/> Converted To IPEC, Replaces:	Temporary Procedure Change (MARK Applicable)
<input type="checkbox"/> NEW PROCEDURE <input type="checkbox"/> GENERAL REVISION <input checked="" type="checkbox"/> PARTIAL REVISION <input type="checkbox"/> EDITORIAL REVISION <input type="checkbox"/> VOID PROCEDURE <input type="checkbox"/> SUPERSEDED	Unit 1 Procedure No. _____ Unit 2 Procedure No: _____ Unit 3 Procedure No: _____	<input type="checkbox"/> EDITORIAL Temporary Procedure Change <input type="checkbox"/> ADVANCE Temporary Procedure Change <input type="checkbox"/> CONDITIONAL Temporary Procedure Change Terminating Condition: _____ _____
<input type="checkbox"/> RAPID REVISION	Document in Microsoft Word: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> VOID DRN/TPC No(s): _____

Revision Summary N/A – see Revision Summary page. -- Procedure was revised to reflect Post U3 Shutdown Eplan, updated floor plan and revised a document number.

Implementation Requirements

Implementation Plan? Yes No Formal Training? Yes No Special Handling? Yes No

Quality Related? Yes No If Yes, then ensure the procedure cover page is marked "Quality Related"

RPO Dept: Emergency Planning Writer: (Print Name/Ext/Sign): Rebecca Martin x7106/ Rebecca A Martin

Review and Approval (Per Attachment 10.1, IPEC Review And Approval Requirements)

1. Technical Reviewer: Craig Delamater / [Signature] 4/14/21
 (Print Name/ Signature/ Date)

2. Cross-Disciplinary Reviewers:
 Dept: _____ Reviewer: _____
 Print Name/ Signature/ Date

Dept: _____ Reviewer: _____
 Print Name/ Signature/ Date

3. RPO- Responsibilities/Checklist: Frank J Mitchell / [Signature] 4/14/21
 (Print Name/ Signature/ Date)

- PAD required and is complete (PAD Approver and Reviewer qualifications have been verified)
- Previous exclusion from further LI-100 Review is still valid
- PAD not required due to type of change as defined in 4.6

4. Non-Intent Determination Complete: _____
 (Print Name/ Signature/ Date)

- NO change of purpose or scope
- NO reduction in the level of nuclear safety
- NO voiding or canceling of a procedure, unless requirements are incorporated into another procedure or the need for that procedure was eliminated
- NO change to less restrictive acceptance criteria
- NO change to steps previously identified as commitment steps
- NO deviation from the Quality Assurance Program Manual
- NO change that may result in deviations from Technical Specifications, FSAR, plant design requirements.

5. On-Shift Shift Manager/CRS: (RPO per SMM-AD-102) – Frank J. Mitchell / [Signature] 4/14/21
 (Print Name/ Signature/ Date)

6. User Validation: User: _____

7. Special Handling Requirements Understood: _____
 Print Name/ Signature/ Date

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-240	Revision: 8
Equipment/Facility/Other: Indian Point Energy Center	
Title: Security	

Part I. Description of Activity Being Reviewed (event or action, or series of actions that have the potential to affect the emergency plan or have the potential to affect the implementation of the emergency plan):

- **Removed EOF Manager as reflected in the requirements in the Post Unit 3 Shutdown Eplan (PSEP), as submitted to the NRC per LAR, license #NL-19-001, Attachment 8 Emergency Response Organization Task Analysis.**
- **Updated Positions of facility ERO from Attachment 9.4 floor plan.**
- **Updated the interface procedures with the correct procedure document number.**

Procedure will be effective on May 17, 2021.

Part II. Emergency Plan Sections Reviewed (List all emergency plan sections that were reviewed for this activity by number and title. IF THE ACTIVITY IN ITS ENTIRETY IS AN EMERGENCY PLAN CHANGE, EAL CHANGE OR EAL BASIS CHANGE, ENTER THE SCREENING PROCESS. NO 10CFR50.54(q)(2) DOCUMENTATION IS REQUIRED.

Part 2 Planning Standards and Criteria:

Section A: Assignment of Responsibility

Section B: Station Emergency Response Organization

Section H: Emergency Facilities and Equipment

Part III. Ability to Maintain the Emergency Plan (Answer the following questions related to impact on the ability to maintain the emergency plan):

1. Do any elements of the activity change information contained in the emergency plan (Section 3.0 Step 6)?
YES NO IF YES, enter screening process for that element
2. Do any elements of the activity change an emergency classification Initiating Condition, Emergency Action Level (EAL), associated EAL note or associated EAL basis information or their underlying calculations or assumptions?
YES NO IF YES, enter screening process for that element
3. Do any elements of the activity change the process or capability for alerting and notifying the public as described in the FEMA-approved Alert and Notification System design report?
YES NO IF YES, enter screening process for that element
4. Do any elements of the activity change the Evacuation Time Estimate results or documentation?
YES NO IF YES, enter screening process for that element
5. Do any elements of the activity change the Onshift Staffing Analysis results or documentation?
YES NO IF YES, enter screening process for that element

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-240	Revision: 8
Equipment/Facility/Other: Indian Point Energy Center	
Title: Security	

Part IV. Maintaining the Emergency Plan Conclusion The questions in Part III do not represent the sum total of all conditions that may cause a change to or impact the ability to maintain the emergency plan. Originator and reviewer signatures in Part V document that a review of all elements of the proposed change have been considered for their impact on the ability to maintain the emergency plan and their potential to change the emergency plan.

1. Provide a brief conclusion that describes how the conditions as described in the emergency plan are maintained with this activity.
 2. Check the box below when the 10CFR50.54(q)(2) review completes all actions for all elements of the activity – no 10CFR50.54(q)(3) screening or evaluation is required for any element. Otherwise, leave the checkbox blank.
- I have completed a review of this activity in accordance with 10CFR50.54(q)(2) and determined that the effectiveness of the emergency plan is maintained. This activity does not make any changes to the emergency plan. No further actions are required to screen or evaluate this activity under 10CFR50.54(q)(3).

Per Post Shutdown Emergency Plan (PSEP), both Unit 3 and Unit 2 will be at shut down. The changes made to this procedure reflects this requirement of the Post Unit 3 Shutdown Eplan, as submitted to the NRC (license # NL-19-001) and the references to the EOF Manager was removed to reflect Attachment 8, ERO Task Analysis, the tasks in this procedure were assigned to either the Emergency Director or the EOF Manager. The floor plan attachment had positions that are no longer in the ERO. The floor plan was revised to include only those in the PSEP. The NRC has approved the PSEP per RA-20-040.

Administrative change made to update the procedure document numbers in the interface section.

A review of this activity in accordance with 10 CFR 50.54(q)(2) has been completed and determined that the effectiveness of the PSEP is maintained. This revision aligns the procedure with the protocols of the post Unit 3 shutdown. None of the changes affect the ability to perform classifications, notifications, or PARs, it does not affect activation or staffing of the ERO as described in the Unit 3 PSEP, and all planning standard requirements are maintained. The changes made do not require a change to the Emergency Action Level scheme, On-shift Staffing study or the PSEP.

No further actions are required to screen or evaluate this activity under 10 CFR 50.54(q)(3).

Part V. Signatures:

Preparer Name (Print) Rebecca A. Martin Sr. EP Project Manager	Preparer Signature <i>Rebecca A. Martin</i>	Date: 10/26/2020
(Optional) Reviewer Name (Print)	Reviewer Signature	Date:
Reviewer Name (Print) Timothy Garvey Nuclear EP Project Manager	Reviewer Signature <i>Rebecca A. Martin to Tim Garvey</i> Approved Via Telecom	Date: 10/27/2020
Approver Name (Print) Frank Mitchell Emergency Planning Manager or designee	Approver Signature <i>F. Mitchell</i>	Date: 4/14/21

Attachment 9.1

Emergency Planning Document Change Checklist Form

(All sections must be completed, N/A or place a check on the line where applicable)

Section 1

Doc/Procedure Type:	Administrative <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> EPLAN <input type="checkbox"/> N/A <input type="checkbox"/>
Doc/Procedure No:	IP-EP-240
Doc/Procedure Title:	Security
New revision number:	8
Corrective Action:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> CR#: <u>OL-OLI-2018-00090 CA 19</u>
Effective date:	May 17, 2021

Section 2

Change Description

1. Ensure the following are completed, or are not applicable and are so marked:

- a. 50.54g N/A
- b. EN-FAP-OM-023 N/A
- c. IP-SMM- AD-102 N/A
- d. OSRC N/A
- e. NRC Transmittal N/A
(within 30 days)

2. List any other documents affected by this change: N/A

3. Transmittals are completed: N/A Date: 4/29/21

4. Ensure the proper revision is active in eB Ref. Lib.: N/A

5. Approved doc/procedure delivered to Doc. Control for distribution: N/A Date: 4/29/21

6. Position Binders updated: N/A Date: 4/29/21

7. Copy of EPDCC placed in EP file: N/A Date: 4/29/21

8. Supporting documentation is submitted as a general record in eB Ref. Lib.: N/A Date: 4/29/21

9. Word files are moved from working drafts folder to current revision folder in the EP drive:
 N/A Date: 5/17/21



IPEC
EMERGENCY PLAN
IMPLEMENTING
PROCEDURES

NON-QUALITY RELATED
PROCEDURE

IP-EP-240 Revision 8

REFERENCE USE

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CONTROLLED

Security

Prepared by:

Rebecca A. Martin
Print Name

Rebecca A. Martin
Signature

4/14/21
Date

Approval:

Frank Mitchell
Print Name

Frank Mitchell
Signature

4/14/21
Date

Effective Date: May 17, 2021


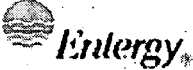
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Security

1.0 PURPOSE

To describe emergency response activities and operations of the Security Force during emergencies declared as an Alert, Site Area Emergency or General Emergency in accordance with the Emergency Plan for Indian Point Energy Center.

2.0 REFERENCES

None

3.0 DEFINITIONS

None

4.0 RESPONSIBILITIES

4.1 The Security Shift Supervisor (SSS) is responsible for:

4.1.1 Initial security emergency functions

4.1.2 Ensuring notification of the Local Law Enforcement Agencies (LLEA).

4.1.3 Ensuring staffing of the Incident Command Post.

4.1.4 Ensuring control of site access and egress.

4.1.5 Establishing site accountability when directed by the Emergency Director in accordance with IP-EP-430, Site Assembly, Accountability and Relocation of Personnel Offsite

4.1.6 Providing emergency facility security support in the EOF as requested, if staffing permits.


4.1.7 Providing offsite responder/vehicle escort if required (fire, medical).

4.2 The Incident Command Post is responsible for:

4.2.1 Incident Command functions during a declared event.

4.2.2 Coordinating and directing the LLEA.


4.2.3 Coordinating and controlling ingress of offsite responders such as fire and medical support.

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- 4.3 The TSC Security Coordinator is responsible for providing interface between the station Security Force and onsite Emergency Response Organization and for tracking station security personnel radiation exposures.
- 4.4 The Security Alarm Station Operators are responsible for:
 - 4.4.1 Establishing and maintaining accountability of the Security Officers.
 - 4.4.2 Keeping the on duty Security Force informed of plant conditions, hazards and emergency classifications.
- 4.5 Security force members assigned to the Protected Area Access Facility (PAAF) are responsible for expediting egress from the site upon sounding of the Station Assembly Alarm and controlling access of essential Emergency Response Organization personnel and keeping the Lead Accountability Officer and TSC Security Coordinator informed of individuals entering the Protected Area during initial accountability.
- 4.6 EOF and JIC are responsible for establishing security checkpoints at their respective facilities and controlling access to authorized personnel.

5.0 DETAILS

- 5.1 The Security Shift Supervisor (SSS) shall follow the instructions outlined in Attachment 9.1, Security Shift Supervisor Checklist and Attachment 9.5 Owner Controlled Area Security Checklist
- 5.2 The Security Alarm Station Operators shall follow the instructions outlined in Attachment 9.2, Alarm Station Checklist.
- 5.3 The Security Force Member (SFM) assigned to the access facilities shall follow the instructions outlined in Attachment 9.3, Access Facility Checklist.
- 5.4 EOF Security, when posted, shall follow the instructions outlined in Attachment 9.4, EOF Security Checklist.
- 5.5 Instructions for site (outside the Protected Area) security control are outlined in Attachment 9.5, Owner Controlled Area Security Checklist.

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5.6 Instructions for the conduct of a security sweep and evacuation of the Owner Controlled Area are outlined in Attachment 9.6, Security Sweep/Evacuation of Owner Controlled Area.

5.7 Security established at the JIC shall follow instructions outlined in IP-EP-260, JIC.

6.0 INTERFACES

6.1 IP-EP-210, Control Room

6.2 EN-EP-611-DP, OSC

6.3 EN-EP-609-DP EOF

6.4 IP-EP-260, JIC

6.5 IP-EP-430, Site Assembly, Accountability and Relocation of Personnel Offsite

7.0 RECORDS

None

8.0 REQUIREMENTS AND COMMITMENT CROSS-REFERENCE

None

9.0 ATTACHMENTS

9.1 Security Shift Supervisor Checklist


9.2 Alarm Station Checklist

9.3 Access Facility Checklist

9.4 EOF Security Checklist


9.5 Owner Controlled Area Security Checklist

9.6 Security Sweep/Evacuation of Owner Controlled Area

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Attachment 9.1
Security Shift Supervisor (SSS) Checklist
Sheet 1 of 4

- | 1.0 <u>Initial Responsibility/Activity</u> | <u>Notes</u> |
|--|---------------------|
| 1.1 Notification of the Emergency <p style="margin-left: 40px;">A. Direct Alarm Station Operators to ensure all Security personnel are made aware of the emergency classification.</p> <p style="margin-left: 40px;">B. Notify Local Law Enforcement Agencies in coordination with the Central Control Room.</p> | |
| 1.2 Ensure Staffing of the Incident Command Post | |
| 1.3 Establish Initial Assembly and Protected Area Access Control <p style="margin-left: 40px;">At an Alert or higher classification, BOTH Unit 2 AND Unit 3 Site Assembly alarms will be sounded. WHEN the site assembly alarm is sounded or when directed by the Emergency Director:</p> <p style="margin-left: 40px;">A. Implement (or delegate a Security Shift Lead to implement) IP-EP-430 Attachment 2, Lead Accountability Officer (LAO) Checklist concurrent with this checklist.</p> <p style="margin-left: 40px;">B. Stop all ingress to the Protected Area, with the exception of Emergency Response Organization personnel, NRC, other Federal Agents and Local Law Enforcement Agencies (LLEA).</p> <p style="margin-left: 40px;">C. Expedite the egress of non-essential personnel from the Protected Area.</p> <p style="margin-left: 40px;">D. Direct Protected Area patrols to perform route alerting using instructions on the Security Route Alerting (Form EP-60).</p> | |

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Attachment 9.1

Security Shift Supervisor (SSS) Checklist

Sheet 2 of 4

Initial Responsibility/Activity (cont)


Notes

1.4 Control Protected Area Access

- A. Direct the Access Facility to allow access to the Protected Areas **ONLY** by Emergency Response Organization personnel, **OR** other individuals authorized by the OSC Manager, Emergency Plant Manager, Emergency Director, or Shift Manager.
- B. During initial accountability, direct the Access Facility that when individuals enter the Protected Area, to report the name(s) of the individual(s) to the LAO and OSC Manager.

1.5 Establish Owner Controlled Area Security Controls

- A. Direct Security Force Members at the Main Gate to only allow Emergency Response Organization personnel entry to the site. Emergency Response Organization personnel include:
 - 1. Indian Point personnel who are assigned to the Emergency Response Organization.
 - 2. Federal, State/County and LLEA officials who are reporting to the site to support emergency operations.
 - 3. Anyone authorized by the Emergency Director, OSC Manager, Shift Manager, or Emergency Plant Manager.
- B. When directed by the Emergency Director, dispatch Security Officer(s) to conduct a sweep and evacuation of the Owner Controlled Area, per Attachment 9.6, Security Sweep/Evacuation of Owner Controlled Area.

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Attachment 9.1

Security Shift Supervisor (SSS) Checklist

Sheet 3 of 4

Initial Responsibility/Activity (cont)

Notes

1.6 Establish Security at the EOF

- A. If a security event has not been declared and staffing permits, send (or call in from offsite) two officers to the Emergency Operations Facility (EOF).
- B. Direct them to establish a security checkpoint at the EOF in accordance with Attachment 9.4, EOF Security Checklist.


1.7 Establish Fitness for Duty Controls

- A. **IF** personnel are being called in who were not scheduled to be at the station **THEN** call in technicians to perform breath tests as needed. Refer to the IPEC Fitness For Duty program.

2.0 Continuous Responsibility/Activity

2.1 Maintain Emergency Site and Protected Area Security Controls

- A. Until directed otherwise by the Emergency Director or Emergency Plant Manager/Plant Operations Manager, allow Emergency Response Organization personnel, NRC, other Federal Agents and Local Law Enforcement Agencies (LLEA) access to the Owner Controlled and Protected Areas.
- B. Keep all members of the on duty security force informed of the emergency conditions.

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Attachment 9.1

Security Shift Supervisor (SSS) Checklist

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3.0 Closeout Responsibility/Activity

NOTES

3.1 Direct the Security Force Members to return all equipment utilized in the response to proper storage locations.


3.2 Review all documentation the Security Force Members generated during the emergency:

A. Ensure all logs, forms and other documentation are complete.

B. Ensure all temporary procedures used and/or developed are properly documented for use by the Recovery Organization so that necessary actions can be taken for long-term restoration.

C. Collect all computer printouts.

3.3 Provide all logs to the Recovery Manager upon termination of the emergency and entry into the Recovery Phase.


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Attachment 9.2

Alarm Station Checklist

Sheet 1 of 2

- | 1.0 <u>Initial Responsibility/Activity</u> | <u>Notes</u> |
|--|---------------------|
| <p>1.1 Notification of the Emergency</p> <p>A. Ensure all Security personnel are made aware of the emergency classification.</p> <p>1.2 Establish Initial Assembly and Protected Area Access Control</p> <p>At an Alert or higher classification, BOTH Unit 2 AND Unit 3 Site Assembly alarms will be sounded. WHEN the site assembly alarm is sounded or when directed by the Emergency Director:</p> <p>A. Conduct a radio check with each Security Force member to assure that they are accounted for.</p> <p>B. Account for all Security Force Members by utilization of Duty Roster of the Security Force personnel contacted during the radio check.</p> <p>C. Add to the list any individuals that may have been manually given Protected Area access (not carded in).</p> <p>D. Have the completed Security Accountability Roster (with security force names and badge numbers) delivered immediately to the Lead Accountability Officer. The Security Accountability Roster should be delivered to the Lead Accountability Officer within 15 minutes of the sounding of the Site Assembly Alarm.</p> | |
| <p>2.0 <u>Continuous Responsibility/Activity</u></p> <p>2.1 Keep Members of the Security Force informed on Emergency Conditions</p> <p>A. Inform them of changes in Emergency Classification</p> <p>B. Inform them of any hazardous conditions you become aware of.</p> | |

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Attachment 9.2
Alarm Station Checklist
Sheet 2 of 2

3.0 Closeout Responsibility/Activity

3.1 Direct the Security Force Members to return all equipment utilized in the response to proper storage locations.

3.2 Review all documentation the Security Force Members generated during the emergency:


- A. Ensure all logs, forms and other documentation are complete.
- B. Ensure all temporary procedures used and/or developed are properly documented for use by the Recovery Organization so that necessary actions can be taken for long-term restoration.
- C. Collect all computer printouts.
- D. Provide all logs to the Recovery Manager upon termination of the emergency and entry into the Recovery Phase.

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Attachment 9.3
Access Facility Checklist
Sheet 1 of 1

- | 1.0 | <u>Initial Responsibility/Activity</u> | <u>Notes</u> |
|------------|--|---------------------|
| 1.1 | Establish Initial Assembly and Protected Area Access Control

At an Alert or higher classification, BOTH Unit 2 AND Unit 3 Site Assembly alarms will be sounded. WHEN the site assembly alarm is sounded or when directed by CAS/SAS or the Security Shift Supervisor: <ol style="list-style-type: none"> A. Expedite the egress of non-essentials from the Protected Area. B. Only allow Essential Personnel to enter the Protected Area. Essential Personnel are: <ol style="list-style-type: none"> 1. Members of the Emergency Response Organization (ERO members are listed in the Emergency Telephone Directory). 2. Additional personnel authorized by the Shift Manager, OSC Manager, Emergency Director, or Emergency Plant Manager. | |
| 2.0 | <u>Continuous Responsibility/Activity</u> | |
| 2.1 | Maintain Emergency Protected Area Security Controls | |
| 3.0 | <u>Closeout Responsibility/Activity</u> | |
| 3.1 | Direct the Security Force Members to return all equipment utilized in the response to proper storage locations. | |
| 3.2 | Review all documentation the Security Force Members generated during the emergency: <ol style="list-style-type: none"> A. Complete all logs, forms and other documentation. B. Provide all logs and records to the SSS upon termination of the emergency and entry into the Recovery Phase. | |

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Attachment 9.4

EOF Security Checklist

Sheet 1 of 4

1.0 Initial Responsibility/Activity

Notes

1.1 Establish Security Controls at the Emergency Operations Facility (EOF)

A. Set up a Security Checkpoint at the entrance to the EOF (see attached drawing for location of security checkpoint and area to control).

NOTES:

IF there is any question if an individual should be allowed to enter the EOF **THEN** request clearance from the Emergency Director.

Individuals entering the EOF during emergencies must be screened in accordance with the Fitness for Duty program. The Emergency Director may authorize individuals not meeting these requirements into the EOF.


B. Allow only the following personnel into the EOF :

1. Indian Point Emergency Response Organization Personnel.
2. Indian Point/Entergy Corporate Personnel.
3. State and County Officials (with official identifications)
4. Federal Officials from the Nuclear Regulatory Commission and Federal Emergency Management Agency
5. Individuals authorized by the Emergency Director
6. Local Law Enforcement Agents (LLEA)

NOTE:

IF individuals are only going to another room within the Buchanan Service Center **THEN** it is not necessary to log them in and out each time they leave the EOF.

C. Maintain an "EOF Facility Sign-in Log" (Form EP-7-ALL), complete with names of all personnel within the EOF.

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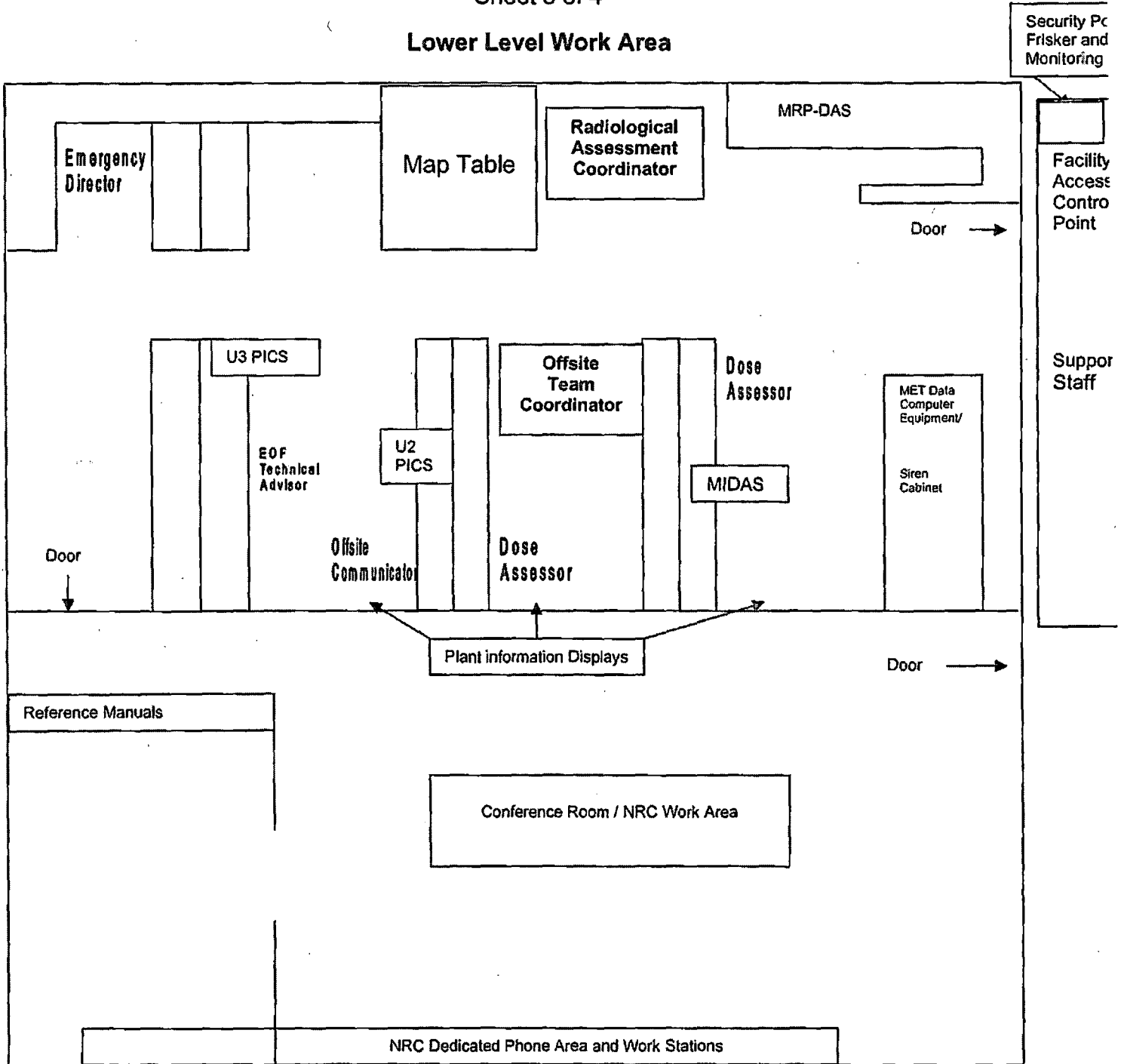
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EOF Security Checklist
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- | | |
|--|--|
| <p>2.0 <u>Continuous Responsibility/Activity</u></p> <p>2.1 Maintain access control to the EOF area</p> <p style="padding-left: 40px;">A. Continue to allow only authorized individuals into the EOF and maintain Security Sign in Log.</p> <p>3.0 <u>Closeout Responsibility/Activity</u></p> <p>3.1 Return all equipment utilized in the response to proper storage locations.</p> <p>3.2 Review all documentation generated during the emergency:</p> <p style="padding-left: 40px;">A. Ensure all logs, forms and other documentation are complete.</p> <p style="padding-left: 40px;">B. Ensure all temporary procedures used and/or developed are properly documented for use by the Recovery Organization so that necessary actions can be taken for long-term restoration.</p> <p style="padding-left: 40px;">C. Provide all logs and records to the Emergency Director upon termination of the emergency and entry into the Recovery Phase.</p> | <p style="text-align: center;"><u>Notes</u></p> |
|--|--|



Attachment 9.4
EOF Layout
Sheet 3 of 4

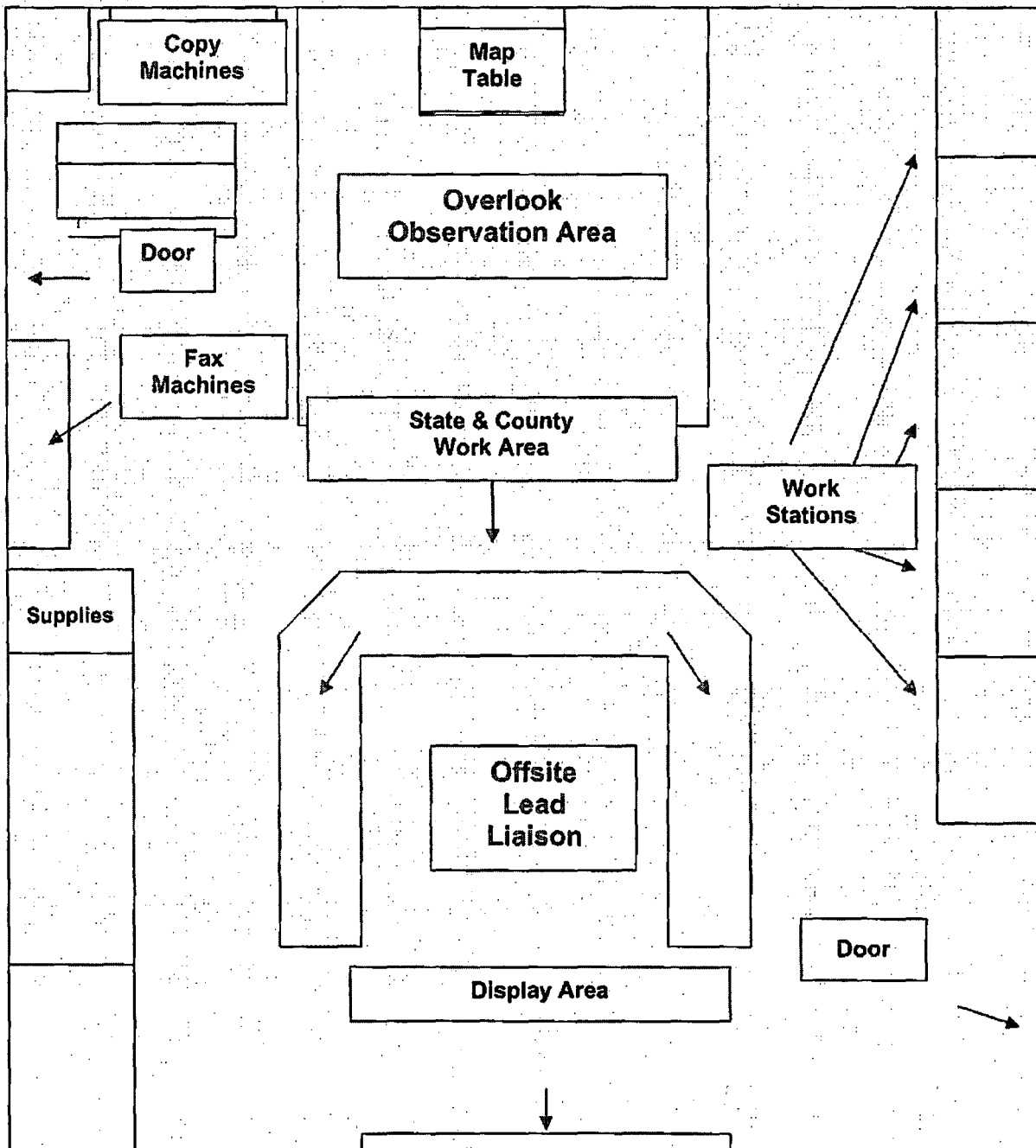
Lower Level Work Area




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Attachment 9.4
EOF Layout
 Sheet 4 of 4

Upper Level Work Area



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Attachment 9.5

Owner Controlled Area Security Checklist

Sheet 1 of 1

1.0 Initial Responsibility/Activity

Notes

1.1 Establish Owner Controlled Area Security

NOTE:

Owner Controlled Area security should be established immediately for emergency classified at a Site Area Emergency or a General Emergency. At an Alert it may be delayed for up to 2 hours


A. **WHEN** directed by CAS/SAS or the Security Shift Supervisor
THEN limit access to the site to the following individuals

1. Indian Point Emergency Response Organization Personnel.
2. Indian Point/Entergy Corporate Personnel.
3. State and County Officials (with official identifications)
4. Federal Officials from the Nuclear Regulatory Commission and Federal Emergency Management Agency
5. Individuals authorized by the Emergency Director or EPM.

2.0 Continuous Responsibility/Activity

2.1 Maintain access control to the Owner Controlled Area

A. Continue to allow only authorized individuals into the site.

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Attachment 9.6

Security Sweep/Evacuation of Owner Controlled Area Checklist

Sheet 1 of 3

1.0 **WHEN** directed by CAS/SAS or the Security Shift Supervisor, **THEN** conduct a Security Sweep and Evacuation of the Owner Controlled Area (OCA) by performing the following:

Notes

1.1 Conduct Security Sweep

A. Proceed to the location in the OCA as directed by CAS/SAS or the Security Shift Supervisor and begin a systematic sweep of the area. Complete the attached OCA Security Sweep Checklist, noting the time the sweep of each area is completed. Portable or vehicle mounted public address equipment shall be utilized to make the following announcement in a calm voice, with direct authority:

“ATTENTION ALL PERSONNEL”

“ATTENTION ALL PERSONNEL”

“There is an event at Indian Point that requires all personnel with OCA Badges to exit the site. Use your personal vehicle to exit the site through the main gate”


“Do NOT rush, speed or endanger others”

“All Emergency Response Personnel Report To Your Assigned Emergency Response Facility”

B. Repeat the above announcement as the OCA sweep is being conducted. Make frequent stops near or in wooded areas, in parking lots, and in and around buildings and trailers.

C. As required, provide additional instructions to individuals regarding the route to the nearest exit point.

D. Complete and turn in to the Security Shift Supervisor the attached checklist indicating a sweep has been completed for each portion of the OCA.

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Attachment 9.6

Security Sweep/Evacuation of Owner Controlled Area Checklist

Sheet 2 of 3

		Date:	
Area*	Description	Time Sweep Completed	Comments
1	As far north as the Main Gate, as far west as the GSB roadway, bordered on the east by Broadway and as far south as the Kenny Lane roadway.		
2	As far north as Kenny Lane, as far east as Broadway, Indian Point Training Center to the south and as far west as the oil tanks on Overlook Road.		
3	As far north as the OCA fence, as far east as Overlook Road, to the south as far as the oil tanks on Overlook, as far west as the Energy Education Center.		
4	As far north and east as the oil tanks on Overlook Road, as far south as the Met Tower and as far east as the Interim Rad Waste Storage Facility, as far north as the protected Area fence-line, as far east as the Met Tower Roadway, west to the Hudson River.		
5	As far north as the OCA fence, as far east as the Protected Area fence-line, as far west as the Hudson River and south as far as the Protected Area fence-line.		



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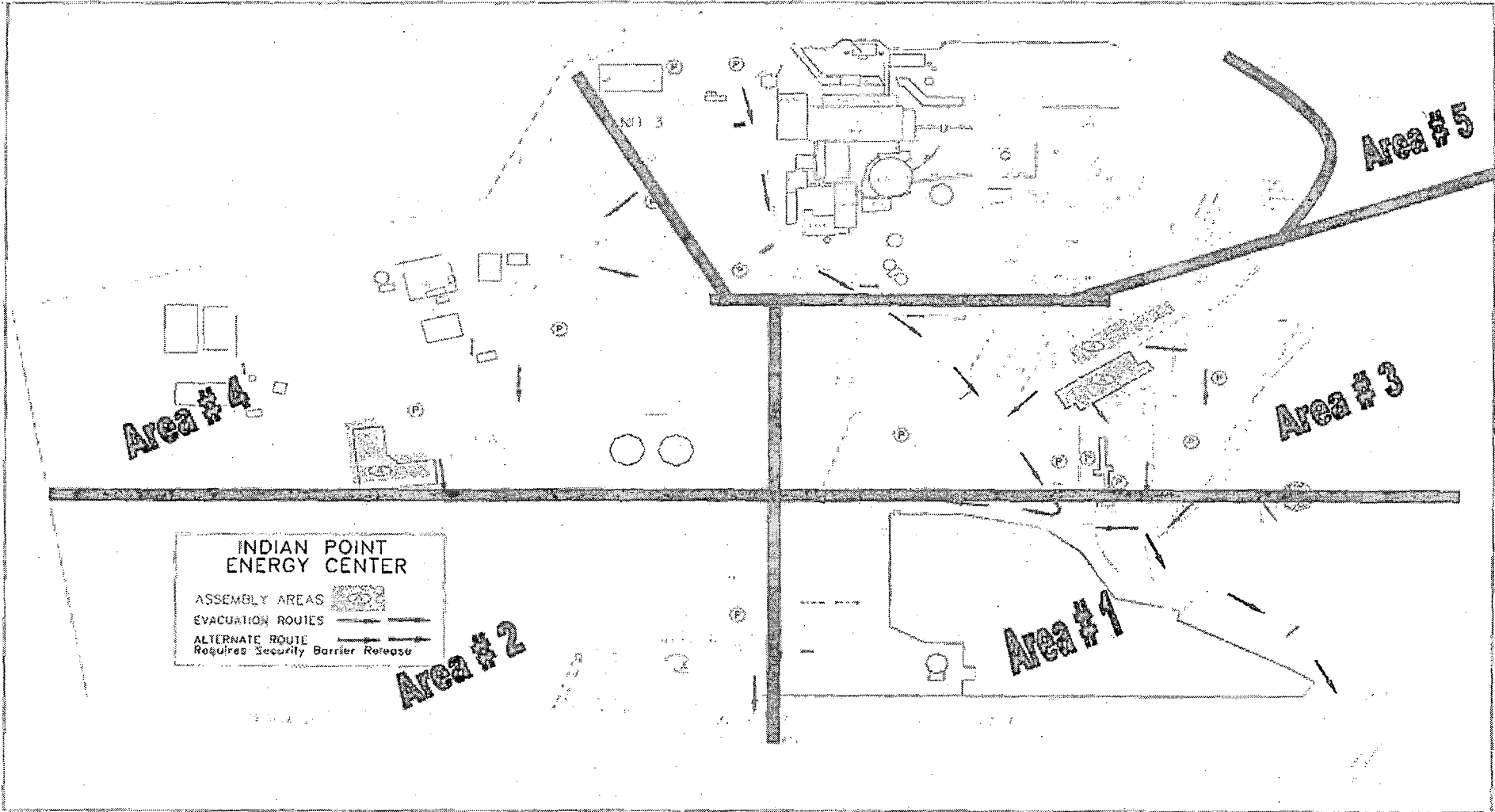
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IPEC IMPLEMENTING PROCEDURE PREPARATION, REVIEW, AND APPROVAL

IP-SMM-AD-102 Rev: 17

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ATTACHMENT 10.2

IPEC PROCEDURE REVIEW AND APPROVAL

(Page 1 of 1)

Procedure Title: Incident Command Post

Procedure No. IP-EP-241 Existing Rev: 6 New Rev: 7 DRN/EC No: DRN-21-00122

Procedure Activity (MARK Applicable)	Converted To IPEC, Replaces:	Temporary Procedure Change (MARK Applicable)
<input type="checkbox"/> NEW PROCEDURE <input type="checkbox"/> GENERAL REVISION <input checked="" type="checkbox"/> PARTIAL REVISION <input type="checkbox"/> EDITORIAL REVISION <input type="checkbox"/> VOID PROCEDURE <input type="checkbox"/> SUPERSEDED	<input type="checkbox"/> Unit 1 Procedure No. _____ <input type="checkbox"/> Unit 2 Procedure No. _____ <input type="checkbox"/> Unit 3 Procedure No. _____	<input type="checkbox"/> EDITORIAL Temporary Procedure Change <input type="checkbox"/> ADVANCE Temporary Procedure Change <input type="checkbox"/> CONDITIONAL Temporary Procedure Change Terminating Condition: _____
<input type="checkbox"/> RAPID REVISION	Document in Microsoft Word: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> VOID DRN/TPC No(s): _____

Revision Summary N/A – see Revision Summary page. – Procedure was revised to reflect Post U3 Shutdown Eplan, removed statement for High Pressure Steam Leaks and revised a document number.

Implementation Requirements

Implementation Plan? Yes No Formal Training? Yes No Special Handling? Yes No
 Quality Related? Yes No **If Yes, then ensure the procedure cover page is marked "Quality Related"**

RPO Dept: Emergency Planning Writer: (Print Name/Ext/Sign): Rebecca Martin x7106/ Rebecca Martin

Review and Approval (Per Attachment 10.1, IPEC Review And Approval Requirements)

1. Technical Reviewer: Craig DeKouater / CD 4/14/2021
 (Print Name/ Signature/ Date)

2. Cross-Disciplinary Reviewers:
 Dept: _____ Reviewer: _____
 Print Name/ Signature/ Date)

Dept: _____ Reviewer: _____
 Print Name/ Signature/ Date)

3. RPO- Responsibilities/Checklist: Frank J Mitchell / FJ Mitchell 4/14/21
 (Print Name/ Signature/ Date)

- PAD required and is complete (PAD Approver and Reviewer qualifications have been verified)
- Previous exclusion from further LI-100 Review is still valid
- PAD not required due to type of change as defined in 4.6

4. Non-Intent Determination Complete: _____
 (Print Name/ Signature/ Date)

NO change of purpose or scope NO change to less restrictive acceptance criteria
NO reduction in the level of nuclear safety NO change to steps previously identified as commitment steps
NO voiding or canceling of a procedure, unless requirem NO deviation from the Quality Assurance Program Manual
 are incorporated into another procedure or the need for t NO change that may result in deviations from Technical Specifica
 procedure was eliminated FSAR, plant design requirements,

5. On-Shift Shift Manager/CRS: (RPO per SMM-AD-102) – Frank J. Mitchell/ FJ Mitchell 4/14/21
 (Print Name/ Signature/ Date)

6. User Validation: User: _____

7. Special Handling Requirements Understood: _____
 Print Name/ Signature/ Date)

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-241	Revision: 7
Equipment/Facility/Other: Indian Point Energy Center	
Title: Incident Command Post	

Part I. Description of Activity Being Reviewed (event or action, or series of actions that have the potential to affect the emergency plan or have the potential to affect the implementation of the emergency plan):

- **Removed EOF Manager and replaced with Emergency Director as reflected in the requirements in the Post Unit 3 Shutdown Eplan (PSEP), as submitted to the NRC per LAR, license #NL-19-001, Attachment 8 Emergency Response Organization Task Analysis.**
- **Removed statement for High Pressure Steam leaks.**
- **Updated the interface procedures with the correct procedure document number.**

Procedure will be effective on May 17, 2021.

Part II. Emergency Plan Sections Reviewed (List all emergency plan sections that were reviewed for this activity by number and title. IF THE ACTIVITY IN ITS ENTIRETY IS AN EMERGENCY PLAN CHANGE, EAL CHANGE OR EAL BASIS CHANGE, ENTER THE SCREENING PROCESS. NO 10CFR50.54(q)(2) DOCUMENTATION IS REQUIRED.

Part 2 Planning Standards and Criteria:

Section A: Assignment of Responsibility

Section B: Station Emergency Response Organization

Section H: Emergency Facilities and Equipment

Part III. Ability to Maintain the Emergency Plan (Answer the following questions related to impact on the ability to maintain the emergency plan):

1. Do any elements of the activity change information contained in the emergency plan (Section 3.0 Step 6)?
YES NO **IF YES, enter screening process for that element**
2. Do any elements of the activity change an emergency classification Initiating Condition, Emergency Action Level (EAL), associated EAL note or associated EAL basis information or their underlying calculations or assumptions?
YES NO **IF YES, enter screening process for that element**
3. Do any elements of the activity change the process or capability for alerting and notifying the public as described in the FEMA-approved Alert and Notification System design report?
YES NO **IF YES, enter screening process for that element**
4. Do any elements of the activity change the Evacuation Time Estimate results or documentation?
YES NO **IF YES, enter screening process for that element**
5. Do any elements of the activity change the Onshift Staffing Analysis results or documentation?
YES NO **IF YES, enter screening process for that element**

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-241	Revision: 7
Equipment/Facility/Other: Indian Point Energy Center	
Title: Incident Command Post	

Part IV. Maintaining the Emergency Plan Conclusion The questions in Part III do not represent the sum total of all conditions that may cause a change to or impact the ability to maintain the emergency plan. Originator and reviewer signatures in Part V document that a review of all elements of the proposed change have been considered for their impact on the ability to maintain the emergency plan and their potential to change the emergency plan.

1. Provide a brief conclusion that describes how the conditions as described in the emergency plan are maintained with this activity.
2. Check the box below when the 10CFR50.54(q)(2) review completes all actions for all elements of the activity – no 10CFR50.54(q)(3) screening or evaluation is required for any element. Otherwise, leave the checkbox blank.

I have completed a review of this activity in accordance with 10CFR50.54(q)(2) and determined that the effectiveness of the emergency plan is maintained. This activity does not make any changes to the emergency plan. No further actions are required to screen or evaluate this activity under 10CFR50.54(q)(3).

Per Post Shutdown Emergency Plan (PSEP), both Unit 3 and Unit 2 will be at shut down. Any reference to High pressure steam leaks were removed. The changes made to this procedure reflects this requirement of the Post Unit 3 Shutdown Eplan, as submitted to the NRC (license # NL-19-001) and the references to the EOF Manager was removed and replaced with Emergency Director to reflect Attachment 8, ERO Task Analysis. The NRC has approved the PSEP per RA-20-040.

Administrative change made to update the procedure document numbers in the interface section.

A review of this activity in accordance with 10 CFR 50.54(q)(2) has been completed and determined that the effectiveness of the PSEP is maintained. This revision aligns the procedure with the protocols of the post Unit 3 shutdown. None of the changes affect the ability to perform classifications, notifications, or PARs, it does not affect activation or staffing of the ERO as described in the Unit 3 PSEP, and all planning standard requirements are maintained. The changes made do not require a change to the Emergency Action Level scheme, On-shift Staffing study or the PSEP.

No further actions are required to screen or evaluate this activity under 10 CFR 50.54(q)(3).

Part V. Signatures:

Preparer Name (Print) Rebecca A. Martin Sr. EP Project Manager	Preparer Signature <i>Rebecca A. Martin</i>	Date: 10/26/2020
(Optional) Reviewer Name (Print)	Reviewer Signature	Date:
Reviewer Name (Print) Timothy Garvey Nuclear EP Project Manager	Reviewer Signature <i>Rebecca A. Martin</i> Approved via Telecom	Date: 10/28/2020
Approver Name (Print) Frank Mitchell Emergency Planning Manager or designee	Approver Signature <i>F. Mitchell</i>	Date: 11/14/21

Attachment 9.1

Emergency Planning Document Change Checklist Form

(All sections must be completed, N/A or place a check on the line where applicable)

Section 1

Doc/Procedure Type:	Administrative <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> EPLAN <input type="checkbox"/> N/A <input type="checkbox"/>
Doc/Procedure No:	IP-EP-241
Doc/Procedure Title:	Incident Command Post
New revision number:	7
Corrective Action:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> CR#: <u>OL-OLI-2018-00090 CA 19</u>
Effective date:	May 17, 2021

Section 2

Change Description

1. Ensure the following are completed, or are not applicable and are so marked:

- a. 50.54q N/A
- b. EN-FAP-OM-023 N/A
- c. IP-SMM- AD-102 N/A
- d. OSRC N/A
- e. NRC Transmittal N/A
(within 30 days)

2. List any other documents affected by this change: N/A

3. Transmittals are completed: N/A Date: 4/29/21

4. Ensure the proper revision is active in eB Ref. Lib.: N/A

5. Approved doc/procedure delivered to Doc. Control for distribution: N/A Date: 4/29/21

6. Position Binders updated: N/A Date: 4/29/21

7. Copy of EPDCC placed in EP file: N/A Date: 4/29/21

8. Supporting documentation is submitted as a general record in eB Ref. Lib.: N/A Date: 4/29/21

9. Word files are moved from working drafts folder to current revision folder in the EP drive:
 N/A Date: 5/17/21



CONTROLLED

Incident Command Post

Prepared by:

Rebecca A. Martin
Print Name

Rebecca A. Martin
Signature

4/14/21
Date

Approval:

Frank J. Mitchell
Print Name

Frank J. Mitchell
Signature

4/14/21
Date

Effective Date: May 17, 2021



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1.0 PURPOSE

To describe the activation and operation of the Incident Command Post (ICP) during declared emergencies in accordance with the Emergency Plan for Indian Point Energy Center.

NOTE:

The primary ICP is located at the Buchanan Service Center building (EOF). The alternate ICP is located at the NY State Police (Cortlandt barracks), 1 Memorial Drive, Croton, New York. Depending on circumstances at the time, other alternate ICPs could be established on an ad hoc basis.

2.0 REFERENCES

Indian Point Energy Center Emergency Plan

3.0 DEFINITIONS

None

4.0 RESPONSIBILITIES

4.1 The Security-ICP Liaison is responsible for:

4.1.1 Ensuring adequate staffing of the ICP to support the emergency;

4.1.2 **IF** the event is security related which requires support from Operations and Radiation Protection, **NOTIFY** the Emergency Plant Manager (EPM) or Emergency Director and request the necessary support.

NOTE:

The OPS ICP Liaison and RP ICP Liaison are assigned by the Primary or Alternative TSC/OSC.

4.1.3 Working with the Emergency Director to set priorities for the ICP staff;

4.1.4 Coordinate with the Emergency Director to ensure representatives are kept current on any security related issues;

4.1.5 Ensuring adequate outside resources are tasked to support the emergency;

4.1.6 Coordinating and controlling ingress of offsite responders such as fire, medical, and law enforcement support;



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4.1.7 Directing the activities of the ICP staff to support emergency response.

4.1.8 Support review of Press Releases

4.2 The ICP Staff is responsible for completing tasks as defined in their checklists and/or duties assigned by the Security-ICP Liaison.

5.0 DETAILS

5.1 The Security-ICP Liaison **SHALL** follow the instructions outlined in Attachment 9.1 or 9.2, "Security-ICP Liaison Checklist."

5.2 The Operations (OPS)-ICP Liaison **SHALL** follow the instructions outlined in Attachment 9.3 or 9.4, "Operations (OPS)-ICP Liaison Checklist."

5.3 The Rad Protection (RP)-ICP Liaison **SHALL** follow the instructions outlined in Attachment 9.5 or 9.6, "Rad Protection (RP)-ICP Liaison Checklist."

5.4 The IPEC Integrated Response Plan outlines ICP action for:

5.4.1 Primary and backup communications protocol with onsite and offsite Response Organizations

5.4.2 Relocation of the ICP

5.4.3 Activation of the ICP

5.4.4 General Response considerations

5.4.5 Resource Management

6.0 INTERFACES

6.1 EN-EP-611-DP, "Operations Support Center"

6.2 IP-EP-240, "Security"

6.3 IP-1055, "Fire Emergency Response"

6.4 0-SEC-021, IPEC Integrated Response Plan

7.0 RECORDS

All logs, completed forms, and other records generated during an actual emergency **SHALL** be considered quality records and maintained for the life of the plant.


8.0 REQUIREMENTS AND COMMITMENT CROSS-REFERENCE

None



9.0 ATTACHMENTS

- 9.1 Security-ICP Liaison Checklist (Primary ICP)
- 9.2 Security-ICP Liaison Checklist (Alternate ICP)
- 9.3 Operations (OPS)-ICP Liaison Checklist (Primary ICP)
- 9.4 Operations (OPS)-ICP Liaison Checklist (Alternate ICP)
- 9.5 Rad Protection (RP)-ICP Liaison Checklist (Primary ICP)
- 9.6 Rad Protection (RP)-ICP Liaison Checklist (Alternate ICP)
- 9.7 Incident Command Post (Primary) Layout
- 9.8 Exposure Control Briefing Video QR Code


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Attachment 9.1
Security-ICP Liaison Checklist (Primary ICP)
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1.0 Initial Responsibility/Activity

1.1 Assume the duties of the Security-ICP Liaison.

- A. Sign in on the available sign-in sheet in the EOF.
- B. Synchronize your time with the EOF clock.
- C. **IF** the Incident Command Post (ICP) is not yet operational, **THEN** perform the following steps:
 - 1. Establish communications with the Emergency Director and notify him that the ICP has been activated.
 - 2. Perform a communications check with the TSC Security Coordinator; inform them you are the Security-ICP Liaison and how you can be contacted.
 - 3. **IF** the TSC Security Coordinator is not yet available, **THEN** perform a communications check with the Unit 2 Secondary Alarm Station (SAS) and the Unit 3 Central Alarm Station (CAS), inform them that you are the Security-ICP Liaison and how you can be contacted. Follow up with a communications check with the TSC Security Coordinator once he or she is onsite.
 - 4. Receive event status briefing from the Emergency Director.
 - 5. Review any Press Releases that have been distributed.
- D. **IF** relieving another Security-ICP Liaison, **THEN** perform the following steps:
 - 1. Review the previous Security-ICP Liaison Emergency Response Organization Log Sheet(s). (Form EP-3-ALL)
 - 2. Receive a briefing from the current Security-ICP Liaison.
 - 3. Do a formal turnover with the current Security-ICP Liaison.

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Security-ICP Liaison Checklist (Primary ICP)
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E. Inform the Emergency Director that you are now filling the duties of the Security-ICP Liaison.

2.0 Continuous Responsibilities/Activity


2.1 Establish and maintain communications with available local law enforcement authorities (LLEA) and other offsite resource representatives (Fire/EMS). Discuss and coordinate the following:

- A. Number of responding members from each agency;
- B. Estimated time of arrival for support resources;
- C. Staging areas for equipment and personnel;
- D. Radiological or other hazards that could delay or impede the police/fire/EMS response;
- E. Dosimetry requirements for offsite resources arriving onsite;
- F. Support review of Press Releases generated from the Joint Information Center;
- G. Inform the Offsite Team Coordinator of any road impediments that could impede Offsite Monitoring Teams.

2.2 Utilize the plant drawings/diagrams contained in the ICP Liaison kit to provide security insight to the Incident Commander.


2.3 Establish and maintain communications with the TSC Security Coordinator. Discuss and coordinate the following:

- A. Arrival of offsite resources and their staging areas.
- B. Advise on the need for any offsite resources to enter the Protected Area or a Vital Area.

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Security-ICP Liaison Checklist (Primary ICP)
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- 2.4 IF advised by the Incident Commander, establish the ICP at a different location.**
- A. Ensure that the Emergency Director and the TSC Security Coordinator are notified as to the logistics of the new location.
 - B. When established in the new location, initiate contact with both of these parties.
- 3.0 Closeout Responsibility/Activity**
- 3.1 Review all documentation.**
- A. Verify that logs, forms, and other documentation are complete.
- 3.2 Provide all documentation to Emergency Director upon termination of the emergency and entry into the Recovery Phase.**

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Attachment 9.2
Security-ICP Liaison Checklist (Alternate ICP)
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1.0 Initial Responsibility / Activity

1.1 Proceed to the location of the Alternate ICP:


New York State Police (Cortlandt Barracks)
 1 Memorial Drive, Croton-On-Hudson, NY 10520
 Tel: (914) 737-7171

- 1.2 Contact the Incident Commander and introduce yourself as the IPEC Security-ICP Liaison.**
- 1.3 Request the Incident Commander for introductions to key ICP Command Personnel.**
- 1.4 Obtain the ICP Liaison kit ("Go Bag") from the communications room.**
- 1.5 Utilize the Log Book in your ICP Liaison kit to document significant actions performed and relevant communications.**
- 1.6 Initiate and maintain communication with the CAS/SAS via cell phone, satellite phone or landline. If using the cell phone headset, be careful to select the headset that is already synchronized to that cell phone number.**
- 1.7 Establish communications with the Emergency Director and notify him that the ICP has been activated.**
- 1.8 Perform a communications check with the TSC Security; inform them you are the Security-ICP Liaison and how you can be contacted.**
- 1.9 If requested to establish an open line of communications with multiple groups utilize the Bridge line- xxx-xxx-xxxx in the ETD.**
- 1.10 Utilize the laptop computer as necessary to access site information or make WebEOC entries.**

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Security-ICP Liaison Checklist (Alternate ICP)
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- 1.11 Obtain and wear dosimetry from the ICP Liaison kit. Make sure you know which DLR (by number) is assigned to you so any dose associated with this DLR can be assigned to you after it is read by the dosimetry department.**
- 2.0 Continuous Responsibilities / Activity**
- 2.1 Monitor ICP Activities:**
- A. Priorities for mitigation hazards.
- 2.2 Participate in the ICP Briefings and present new information when it becomes available. Briefings should include:**
- A. Provide simplified explanations clarifications to ICP personnel of technical details. Information should be tailored for a broad range of disciplines. Acronyms and technical terminology should be avoided.
 - B. Utilize the plant drawing/diagrams contained in the ICP Liaison kit to provide security insight to the Incident Commander.
 - C. Provide known hazards, chemicals, and electrical hazards, potential for explosions.
 - D. Provide strategies for entering the station if hazards exist.
- 2.3 Provide station priorities as it applies to the assistance needed from the ICP. Assistance may include:**
- A. Coordination of search and rescue teams for multiple casualties.
 - B. Movement of Plant Operators
- 2.4 General assistance that may be needed at throughout the ICP may include:**
- A. Interpretation of information.
 - B. Clarification of station information.

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Security-ICP Liaison Checklist (Alternate ICP)
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2.5 Prioritization of station support from the perspective of:


- A. Mitigation of existing hazards;
- B. Sector clearing;
- C. Personnel accountability;
- D. Coordination of Law Enforcement activities;
- E. Coordination of staffing of the Emergency Response facilities;
- F. Fire/EMS.

3.0 Closeout Responsibilities / Activity

3.1 When released by the Incident Commander at the end of the event, perform the following:

- A. Collect all pertinent documentation;
- B. Participate in the After Action Reviews or critiques held at the ICP;
- C. Return to the Alternative TSC/OSC and turn in all documentation to the EPM.

3.2 Return the Security Liaison kit to the storage location, inventory contents and restore supplies as necessary.

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Attachment 9.3
Operations (OPS)-ICP Liaison Checklist (Primary ICP)
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1.0 Initial Responsibility/Activity


1.1 Assume the duties of the Operations (OPS)-ICP Liaison.

- A. Sign in on the available sign-in sheet in the EOF.
- B. Synchronize your time with the EOF clock.
- C. **IF** the Incident Command Post (ICP) is not yet operational, **THEN** perform the following steps:
 - 1. Inform the affected Unit CCR that the ICP has been activated. Establish and maintain communications with the Control Room, if they are available.
 - 2. Establish communications with the Emergency Director and notify him that the ICP has been activated.
 - 3. Receive event status briefing from the Emergency Director.
 - 4. Review any Press Releases that have been distributed.
- D. **IF** relieving another Operations (OPS)-ICP Liaison, **THEN** perform the following steps:
 - 1. Review the previous Operations (OPS)-ICP Liaison Emergency Response Organization Log Sheet(s). (Form EP-3-ALL)
 - 2. Receive a briefing from the current Operations (OPS)-ICP Liaison.
 - 3. Do a formal turnover with the current Operations (OPS)-ICP Liaison.
- E. Inform the Emergency Director that you are now filling the duties of the Operations (OPS)-ICP Liaison.

2.0 Continuous Responsibilities / Activity

2.1 Monitor ICP Activities:

- A. Method of entry (tactical or otherwise) to the station;

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Operations (OPS)-ICP Liaison Checklist (Primary ICP)
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B. Priorities for mitigation hazards.

2.2 Participate in the ICP Briefings and present new information when it becomes available. Briefings should include:

- A. Provide simplified explanations clarifications to ICP personnel of technical details. Information should be tailored for a broad range of disciplines. Acronyms and technical terminology should be avoided.
- B. Utilize the plant drawing/diagrams contained in the ICP Liaison kit to provide operation insight.
- C. Provide known hazards, chemicals, electrical hazards and potential for explosions.
- D. Provide strategies for entering the station if hazards exist.

2.3 Provide station priorities as it applies to the assistance needed from the ICP. Assistance may include:


- A. Obtaining needed equipment including emergency diesel generators.
- B. Obtaining needed supplies including diesel fuel.
- C. Coordination of fire fighters to extinguish on-going fires.
- D. Coordination of search and rescue teams for multiple casualties.

2.4 General assistance that may be needed at throughout the ICP may include:

- A. Interpretation of information.
- B. Clarification of station information.

2.5 Prioritization of station support from the perspective of:

- A. Keep fuel bundles covered;
- B. Keep fuel bundles cooled;

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Operations (OPS)-ICP Liaison Checklist (Primary ICP)
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- C. Stopping any radiation releases;
- D. Ensure availability of electrical power;
- E. Protective Action Recommendations;
- F. Personnel accountability;
- G. Mitigation of existing hazards.

3.0 Closeout Responsibility/Activity

3.1 Review all documentation.

- A. Verify that logs, forms, and other documentation are complete.

3.2 Provide all documentation to Emergency Director upon termination of the emergency and entry into the Recovery Phase.

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Attachment 9.4
Operations (OPS)-ICP Liaison Checklist (Alternate ICP)
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1.0 Initial Responsibility / Activity

1.1 Upon arrival at the ICP:

- A. Present IPEC badge and Driver's License upon request.
- B. Sign in with the reception officer and obtain ICP badge (if utilized).
- C. Obtain the ICP Liaison kit ("Go Bag") from the communications room.
- D. Synchronize the ICP clock with the CCR and/or AEOF (EOF).

1.2 Contact the Incident Commander and introduce yourself as the IPEC OPS Liaison.

1.3 Request the Incident Commander for introductions to key ICP Command Personnel.

1.4 Utilize the Log Book in your ICP Liaison kit to document significant actions performed and relevant communications.

1.5 Initiate and maintain communication with the Control Room, if they are available, via cell phone, satellite phone or landline. If using the cell phone headset, be careful to select the headset that is already synchronized to that cell phone number.

1.6 If requested to establish an open line of communications with multiple groups utilize the Bridge line- xxx-xxx-xxxx in the ETD.


1.7 Utilize the laptop computer as necessary to access site information.

1.8 Obtain and wear dosimetry from the ICP Liaison kit. Make sure you know which DLR (by number) is assigned to you so any dose associated with this DLR can be assigned to you after it is read by the dosimetry department.

2.0 Continuous Responsibilities / Activity


2.1 Monitor ICP Activities:

- A. Method of entry (tactical or otherwise) to the station;

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Operations (OPS)-ICP Liaison Checklist (Alternate ICP)
Page 2 of 3

- B. Priorities for mitigation hazards.
- 2.2 Participate in the ICP Briefings and present new information when it becomes available. Briefings should include:**
- A. Provide simplified explanations clarifications to ICP personnel of technical details. Information should be tailored for a broad range of disciplines. Acronyms and technical terminology should be avoided.
 - B. Utilize the plant drawing/diagrams contained in the ICP Liaison kit to provide operations insight.
 - C. Provide known hazards, chemicals, electrical hazards, and potential for explosions.
 - D. Provide strategies for entering the station if hazards exist.
- 2.3 Provide station priorities as it applies to the assistance needed from the ICP. Assistance may include:**
- A. Obtaining needed equipment including emergency diesel generators;
 - B. Obtaining needed supplies including diesel fuel;
 - C. Coordination of fire fighters to extinguish on-going fires;
 - D. Coordination of search and rescue teams for multiple casualties.
- 2.4 General assistance that may be needed at throughout the ICP may include:**
- A. Interpretation of information;
 - B. Clarification of station information.
- 2.5 Prioritization of station support from the perspective of:**
- A. Keep fuel bundles covered;
 - B. Keep fuel bundles cooled;

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Operations (OPS)-ICP Liaison Checklist (Alternate ICP)
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- C. Stopping any radiation releases;
- D. Ensure availability of electrical power;
- E. Protective Action Recommendations;
- F. Personnel accountability;
- G. Mitigation of existing hazards.

3.0 Closeout Responsibilities / Activity

3.1 When released by the Incident Commander at the end of the event, perform the following:

- A. Collect all pertinent documentation.
- B. Participate in the After Action Reviews or critiques held at the ICP.
- C. Return to the Alternative TSC/OSC and turn in all documentation to EPM.
- D. Return the OPS Liaison kit to the storage location, inventory contents and restore supplies as necessary.


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Attachment 9.5
Radiation Protection (RP)-ICP Liaison Checklist (Primary ICP)
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1.0 Initial Responsibility/Activity

1.1 Assume the duties of the Radiation Protection (RP)-ICP Liaison

- A. Sign in on the available sign-in sheet in the EOF.
- B. Synchronize your time with the EOF clock.
- C. **IF** the Incident Command Post (ICP) is not yet operational, **THEN** perform the following steps:
 - 1. Establish communications with the Emergency Director and notify him that the ICP has been activated.
 - 2. Establish communications with the HP Watch in the Control Room and notify them that the ICP has been activated.
 - 3. Receive event status briefing from the Emergency Director.
 - 4. Review any Press Releases that have been distributed.
- D. **IF** relieving another Radiation Protection (RP)-ICP Liaison, **THEN** perform the following steps:
 - 1. Review the previous Radiation Protection (RP)-ICP Emergency Response Organization Log Sheet(s). (Form EP-3-ALL)
 - 2. Receive a briefing from the current Radiation Protection (RP)-ICP Liaison.
 - 3. Do a formal turnover with the current Radiation Protection (RP)-ICP Liaison.
- E. Inform the Emergency Director that you are now filling the duties of the Radiation Protection (RP)-ICP Liaison.

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**Attachment 9.5
Radiation Protection (RP)-ICP Liaison Checklist (Primary ICP)
Page 2 of 3**

2.0 Continuous Responsibilities/Activity

2.1 Monitor ICP Activities:

A. Priorities for mitigation hazards.

2.2 Participate in the ICP Briefings and present new information when it becomes available. Briefings should include:

A. Provide simplified explanations clarifications to ICP personnel of technical details. Information should be tailored for a broad range of disciplines. Acronyms and technical terminology should be avoided.

B. Utilize the plant drawing/diagrams contained in the ICP Liaison kit to provide radiological insight.

C. Provide known hazards, chemicals, electrical hazards, and potential for explosions.

D. Provide strategies for entering the station if hazards exist.

2.3 Utilize the "just-in-time" Exposure Control Video (also accessible via the QR code in Attachment 9.8) and assist the ICP with radiological briefings of non-radworker trained personnel if requested.

2.4 Provide station priorities as it applies to the assistance needed from the ICP. Assistance may include:


A. Coordination of search and rescue teams for multiple casualties.

B. Provide status of radiological conditions as related to offsite releases.

C. Status of contamination level that impact offsite responders.

D. Relocation of non-essential personnel.

E. Coordination of Field Team movement with ICP and AEOF (EOF).

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Attachment 9.5
Radiation Protection (RP)-ICP Liaison Checklist (Primary ICP)
 Page 3 of 3

2.5 General assistance that may be needed at throughout the ICP may include:

- A. Interpretation of information.
- B. Clarification of station information.

2.6 Prioritization of station support from the perspective of:


- A. Mitigation of existing hazards.
- B. Sector clearing.

3.0 Closeout Responsibility/Activity

3.1 Review all documentation.

- A. Verify that logs, forms, and other documentation are complete.

3.2 Provide all documentation to Emergency Director upon termination of the emergency and entry into the Recovery Phase.

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**Attachment 9.6
Radiation Protection (RP)-ICP Liaison Checklist (Alternate ICP)
Page 1 of 3**

1.0 Initial Responsibility / Activity

1.1 Upon arrival at the ICP:

- A. Present IPEC badge and Driver's License upon request.
- B. Sign in with the reception officer and obtain ICP badge (if utilized).
- C. Obtain the ICP Liaison ("Go Bag") kit from the communications room.

1.2 Contact the Incident Commander and introduce yourself as the IPEC RP - ICP Liaison.

1.3 Request the Incident Commander for introductions to key ICP Command Personnel.

1.4 Utilize the Log Book in your ICP Liaison kit to document significant actions performed and relevant communications.

1.5 Initiate communication with the Control Room via cell phone, satellite phone or landline. If using the cell phone headset, be careful to select the headset that is already synchronized to that cell phone number.


1.6 If requested to establish an open line of communications with multiple groups utilize the Bridge line- xxx-xxx-xxxx in the ETD.

1.7 Utilize the laptop computer as necessary to access site information.

1.8 Obtain and wear dosimetry from the ICP Liaison kit. Make sure you know which DLR (by number) is assigned to you so any dose associated with this DLR can be assigned to you after it is read by the dosimetry department.

1.9 Perform radiological surveys as necessary in the ICP for the unfolding events. If radiation readings are above background, ensure you report this information to the AEOF (EOF).

1.10 When authorized by the Alt. TSC/OSC (TSC/OSC) brief IPEC Liaisons only on the use of KI and issue KI to all IPEC Liaisons.

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Attachment 9.6
Radiation Protection (RP)-ICP Liaison Checklist (Alternate ICP)
 Page 2 of 3

2.0 Continuous Responsibility / Activity

2.1 Monitor ICP Activities:

A. Priorities for mitigation hazards.

2.2 Participate in the ICP Briefings and present new information when it becomes available. Briefings should include:

A. Provide simplified explanations clarifications to ICP personnel of technical details. Information should be tailored for a broad range of disciplines. Acronyms and technical terminology should be avoided.

B. Utilize the plant drawing/diagrams contained in the ICP Liaison kit to provide radiological insight.

C. Provide known hazards, chemicals, electrical hazards and potential for explosions.

D. Provide strategies for entering the station if hazards exist.

2.3 Utilize the "just-in-time" Exposure Control Video (also accessible via the QR code in Attachment 9.8) and assist the ICP with radiological briefings of non-radworker trained personnel if requested.

2.4 Provide station priorities as it applies to the assistance needed from the ICP. Assistance may include:


A. Coordination of search and rescue teams for multiple casualties;

B. Provide status of radiological conditions as related to offsite releases;

C. Status of contamination level that impact offsite responders;

D. Relocation of non-essential personnel;

E. Coordination of Field Team movement with ICP and AEOF (EOF).

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Attachment 9.6
Radiation Protection (RP)-ICP Liaison Checklist (Alternate ICP)
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2.5 General assistance that may be needed at throughout the ICP may include:

- A. Interpretation of information;
- B. Clarification of station information.

2.6 Prioritization of station support from the perspective of:

- A. Mitigation of existing hazards;
- B. Sector clearing.

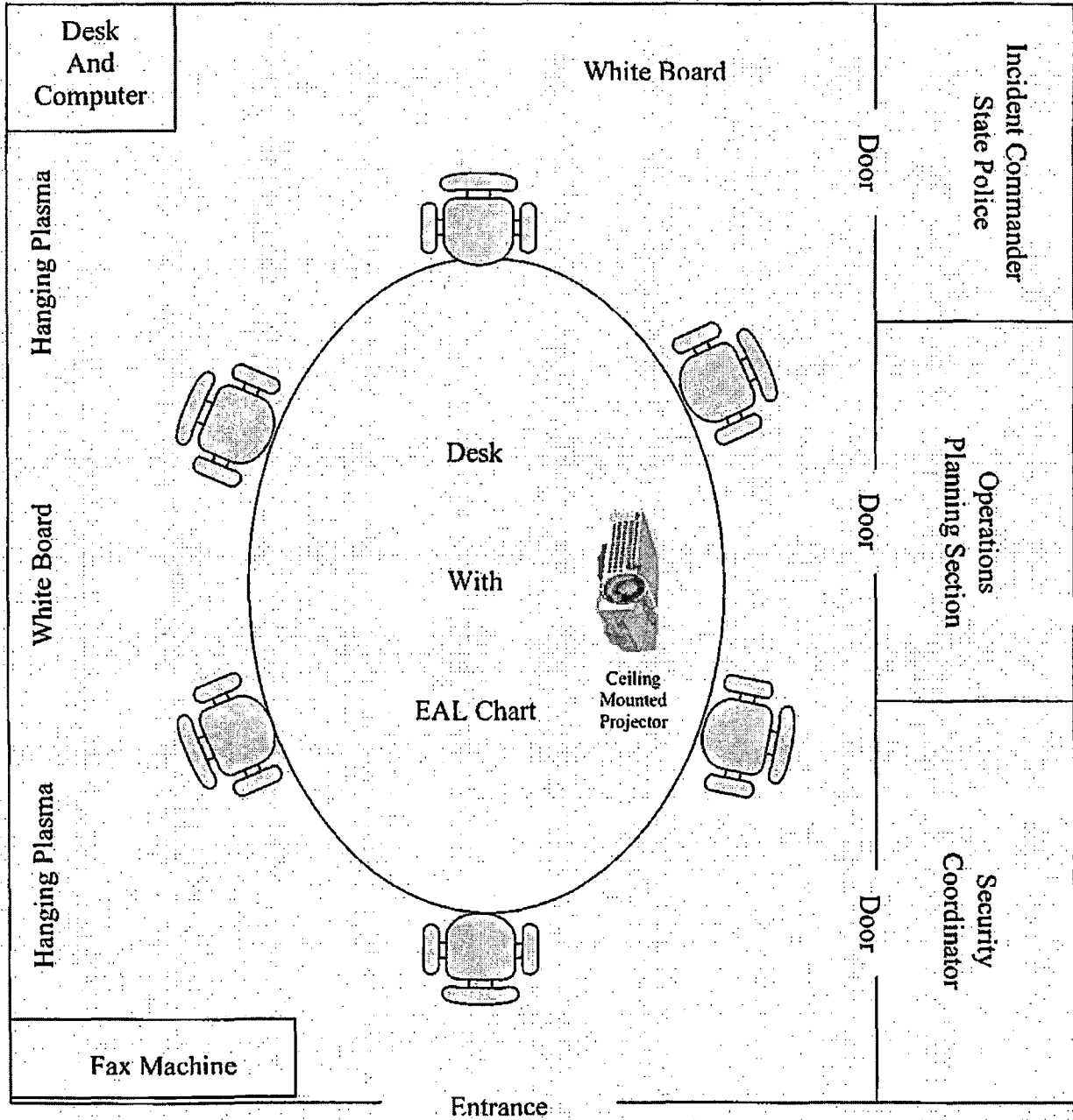
3.0 Closeout Responsibility / Activity

3.1 When released by the Incident Commander at the end of the event, perform the following:

- A. Collect all pertinent documentation.
- B. Participate in the After Action Reviews or critiques held at the ICP.
- C. Return to the Alternative TSC/OSC and turn in all documentation to the EPM.
- D. Return the Rad Protection Liaison kit to the storage location, inventory contents and restore supplies as necessary.

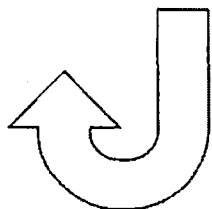
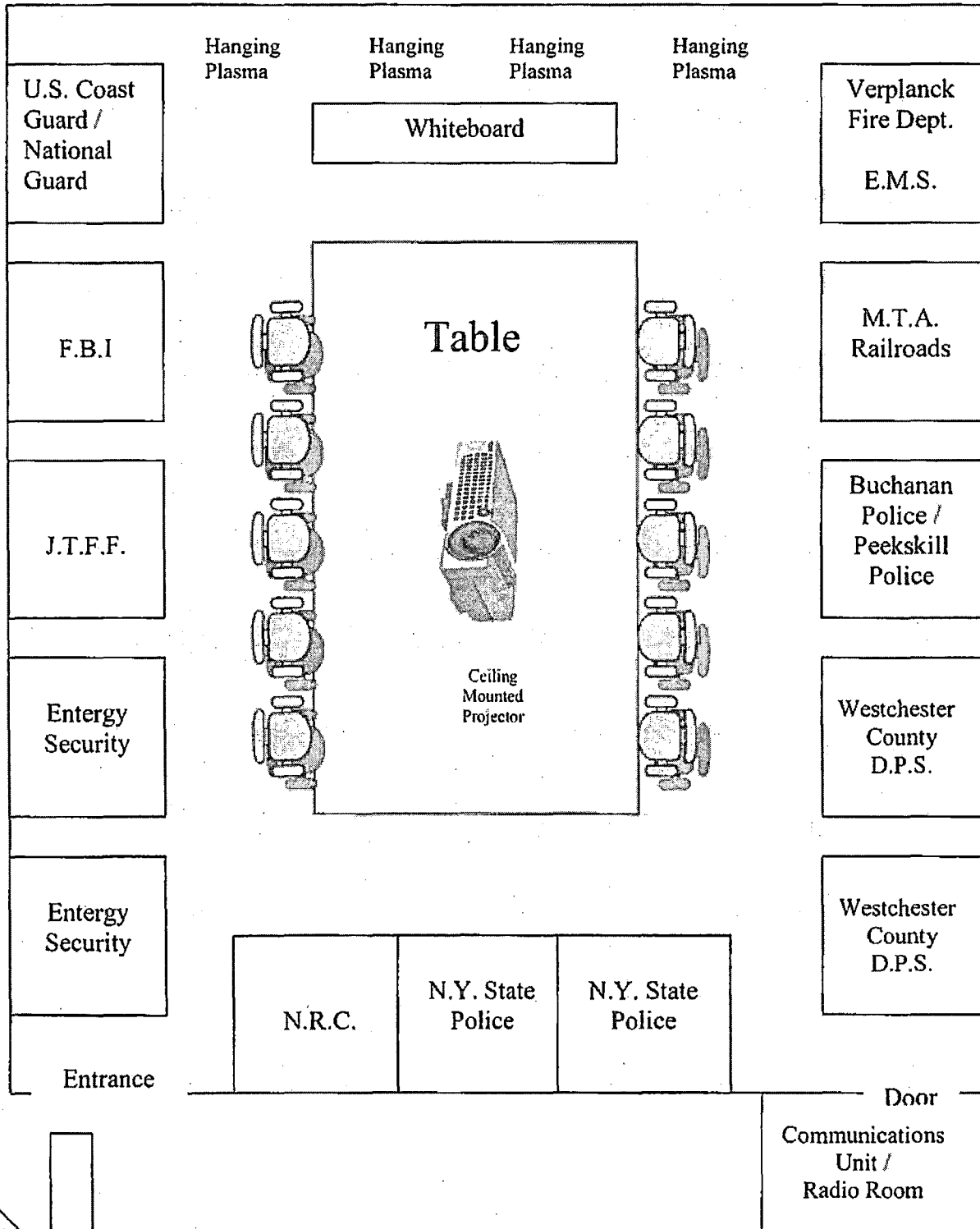



Attachment 9.7
Incident Command Post (Primary) Layout – Security Briefing Room
Sheet 1 of 2





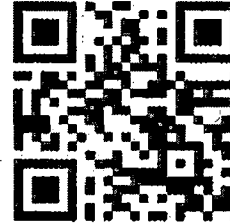
Attachment 9.7
Incident Command (Primary) Post Layout – Main Room
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**Attachment 9.8
Exposure Control Briefing Video
Page 1 of 1**

To View the Emergency Worker
 Exposure Control Briefing Video
 Scan the QR Code with a Mobile
 Device



IPEC IMPLEMENTING PROCEDURE PREPARATION, REVIEW, AND APPROVAL

IP-SMM-AD-102 Rev: 17

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ATTACHMENT 10.2

IPEC PROCEDURE REVIEW AND APPROVAL

(Page 1 of 1)

Procedure Title: Alternate Emergency Operations Facility

Procedure No. IP-EP-251 Existing Rev: 7 New Rev: 8 DRN/EC No: DRN-21-00123

Procedure Activity (MARK Applicable)	Converted To IPEC, Replaces:	Temporary Procedure Change (MARK Applicable)
<input type="checkbox"/> NEW PROCEDURE <input type="checkbox"/> GENERAL REVISION <input checked="" type="checkbox"/> PARTIAL REVISION <input type="checkbox"/> EDITORIAL REVISION <input type="checkbox"/> VOID PROCEDURE <input type="checkbox"/> SUPERSEDED	Unit 1 Procedure No. _____	<input type="checkbox"/> EDITORIAL Temporary Procedure Change <input type="checkbox"/> ADVANCE Temporary Procedure Change <input type="checkbox"/> CONDITIONAL Temporary Procedure Change Terminating Condition: _____ _____
	Unit 2 Procedure No. _____	
	Unit 3 Procedure No. _____	
<input type="checkbox"/> RAPID REVISION	Document in Microsoft Word: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> VOID DRN/TPC No(s): _____

Revision Summary N/A – see Revision Summary page. – Procedure was revised to reflect Post U3 Shutdown Eplan. See matrix for changes.

Implementation Requirements

Implementation Plan? Yes No Formal Training? Yes No Special Handling? Yes No

Quality Related? Yes No **If Yes, then ensure the procedure cover page is marked "Quality Related"**

RPO Dept: Emergency Planning Writer: (Print Name/Ext/Sign): Rebecca Martin x7106/ Rebecca A Martin

Review and Approval (Per Attachment 10.1, IPEC Review And Approval Requirements)

1. Technical Reviewer: Craig DeLamater / [Signature] / 4/14/2021
(Print Name/ Signature/ Date)

2. Cross-Disciplinary Reviewers:
 Dept: _____ Reviewer: _____
Print Name/ Signature/ Date)

Dept: _____ Reviewer: _____
Print Name/ Signature/ Date)

3. RPO- Responsibilities/Checklist: Frank J Mitchell / [Signature] 4/14/21
(Print Name/ Signature/ Date)

- PAD required and is complete (PAD Approver and Reviewer qualifications have been verified)
- Previous exclusion from further LI-100 Review is still valid
- PAD not required due to type of change as defined in 4.6

4. Non-Intent Determination Complete: _____
(Print Name/ Signature/ Date)

- NO change of purpose or scope
- NO reduction in the level of nuclear safety
- NO voiding or canceling of a procedure, unless requirements are incorporated into another procedure or the need for that procedure was eliminated
- NO change to less restrictive acceptance criteria
- NO change to steps previously identified as commitment steps
- NO deviation from the Quality Assurance Program Manual
- NO change that may result in deviations from Technical Specifications, FSAR, plant design requirements,

5. On-Shift Shift Manager/CRS: (RPO per SMM-AD-102) – Frank J. Mitchell / [Signature] 4/14/21
(Print Name/ Signature/ Date)

6. User Validation: User: _____

7. Special Handling Requirements Understood: _____
Print Name/ Signature/ Date)

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-251	Revision: 8
Equipment/Facility/Other: Indian Point Energy Center	
Title: Alternate Emergency Operations Facility	

Part I. Description of Activity Being Reviewed (event or action, or series of actions that have the potential to affect the emergency plan or have the potential to affect the implementation of the emergency plan):

Procedure was revised to align the AEOF procedure to reflect the requirements in the Post Unit 3 Shutdown Eplan (PSEP), as submitted to the NRC per LAR, license #NL-19-001, Attachment 8 Emergency Response Organizaition Task Analysis. Procedure will be effective on May 17, 2021.

Part II. Emergency Plan Sections Reviewed (List all emergency plan sections that were reviewed for this activity by number and title. IF THE ACTIVITY IN ITS ENTIRETY IS AN EMERGENCY PLAN CHANGE, EAL CHANGE OR EAL BASIS CHANGE, ENTER THE SCREENING PROCESS. NO 10CFR50.54(q)(2) DOCUMENTATION IS REQUIRED.

Part 1 Introduction:

Section A: Purpose

Part 2 Planning Standards and Criteria:

Section A: Assignment of Responsibility

Section B: Station Emergency Response Organization

Section D: Emergency Classification System

Section H: Emergency Facilities and Equipment

Part III. Ability to Maintain the Emergency Plan (Answer the following questions related to impact on the ability to maintain the emergency plan):

- Do any elements of the activity change information contained in the emergency plan (Section 3.0 Step 6)?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change an emergency classification Initiating Condition, Emergency Action Level (EAL), associated EAL note or associated EAL basis information or their underlying calculations or assumptions?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the process or capability for alerting and notifying the public as described in the FEMA-approved Alert and Notification System design report?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the Evacuation Time Estimate results or documentation?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the Onshift Staffing Analysis results or documentation?
YES NO IF YES, enter screening process for that element

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-251	Revision: 8 ⁸
Equipment/Facility/Other: Indian Point Energy Center	
Title: Alternate Emergency Operations Facility	

Part IV. Maintaining the Emergency Plan Conclusion The questions in Part III do not represent the sum total of all conditions that may cause a change to or impact the ability to maintain the emergency plan. Originator and reviewer signatures in Part V document that a review of all elements of the proposed change have been considered for their impact on the ability to maintain the emergency plan and their potential to change the emergency plan.

1. Provide a brief conclusion that describes how the conditions as described in the emergency plan are maintained with this activity.
 2. Check the box below when the 10CFR50.54(q)(2) review completes all actions for all elements of the activity – no 10CFR50.54(q)(3) screening or evaluation is required for any element. Otherwise, leave the checkbox blank.
- I have completed a review of this activity in accordance with 10CFR50.54(q)(2) and determined that the effectiveness of the emergency plan is maintained. This activity does not make any changes to the emergency plan. No further actions are required to screen or evaluate this activity under 10CFR50.54(q)(3).

Per Post Shutdown Emergency Plan (PSEP), both Unit 3 and Unit 2 will be at shut down. The changes made to this procedure reflects this requirement of the Post Unit 3 Shutdown Eplan, as submitted to the NRC (license # NL-19-001) and ERO positions and tasks were adjusted to reflect Attachment 8, ERO Task Analysis. The NRC has approved the PSEP per RA-20-040.

A review of this activity in accordance with 10 CFR 50.54(q)(2) has been completed and determined that the effectiveness of the PSEP is maintained. This revision aligns the procedure with the protocols of the post Unit 3 shutdown. None of the changes affect the ability to perform classifications, notifications, or PARs, it does not affect activation or staffing of the ERO as described in the Unit 3 PSEP, and all planning standard requirements are maintained. The changes made do not require a change to the Emergency Action Level scheme, On-shift Staffing study or the PSEP.

No further actions are required to screen or evaluate this activity under 10 CFR 50.54(q)(3).

Part V. Signatures:

Preparer Name (Print) Rebecca A. Martin	Preparer Signature <i>Rebecca A Martin</i>	Date: 10/7/2020
(Optional) Reviewer Name (Print)	Reviewer Signature	Date:
Reviewer Name (Print) Timothy Garvey Nuclear EP Project Manager	Reviewer Signature <i>Tim Garvey</i>	Date: 10/13/20
Approver Name (Print) Frank Mitchell Emergency Planning Manager or designee	Approver Signature <i>F Mitchell</i>	Date: 4/14/21

IP-EP-251 Revision Decom X REVISION MATRIX

Change No.	Page/Section	Previous Version	New Version	Editorial Change	Effect on 10 CFR 50.47(b) Planning Standards or NUREG-0654 program elements? Justify if NO.
1.	Page 2, TOC, Section 4.2	4.2 EOF Manager	None	N	N – Removed section 4.2 EOF Manager under Responsibilities section. EOF Manager has been eliminated per LER #NL-19-001 attachment 8 ERO Task Analysis and approved by NRC per RA-20-040. Task have been assigned to the Emergency Director.
2.	Page 3, section 4.1	None	4.1.3 Ensuring the AEOF is made operational in accordance with this procedure; 4.1.4 Ensuring minimum staffing is attained; 4.1.5 Ensuring other EOF Staff members perform steps outlined in this procedure.	N	N – added responsibilities of EOF Manager to the Emergency Director. EOF Manager has been eliminated per LER #NL-19-001 attachment 8 ERO Task Analysis and approved by NRC per RA-20-040. Task have been assigned to the Emergency Director.
3.	Page 3, section 4. 2	4. 2 EOF Manger	None	N	N – Removed section 4.2 EOF Manager under Responsibilities section. EOF Manager has been eliminated per LER #NL-19-001 attachment 8 ERO Task Analysis and approved by NRC per RA-20-040. Task have been assigned to the Emergency Director.
4.	Page 4, Section 5.1	5.1 EOF Manager shall follow steps in EN-EP-609 for activation and operation of the AEOF	5.1 Emergency Director shall follow steps in EN-EP-609 for activation and operation of the AEOF	N	N – added responsibilities of EOF Manager to the Emergency Director. EOF Manager has been eliminated per LER #NL-19-001 attachment 8 ERO Task Analysis and approved by NRC per RA-20-040. Task have been assigned to the Emergency Director.

Attachment 9.1

Emergency Planning Document Change Checklist Form

(All sections must be completed, N/A or place a check on the line where applicable)

Section 1

Doc/Procedure Type:	Administrative <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> EPLAN <input type="checkbox"/> N/A <input type="checkbox"/>
Doc/Procedure No:	IP-EP-251
Doc/Procedure Title:	Alternate Emergency Operations Facility
New revision number:	8
Corrective Action:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> CR#: <u>OL-OLI-2018-00090 CA 19</u>
Effective date:	May 17, 2021

Section 2

Change Description

1. Ensure the following are completed, or are not applicable and are so marked:

- a. 50.54q N/A
- b. EN-FAP-OM-023 N/A
- c. IP-SMM- AD-102 N/A
- d. OSRC N/A
- e. NRC Transmittal N/A
(within 30 days)

2. List any other documents affected by this change: N/A

3. Transmittals are completed: N/A Date: 4/29/21

4. Ensure the proper revision is active in eB Ref. Lib.: N/A

5. Approved doc/procedure delivered to Doc. Control for distribution: N/A Date: 4/29/21

6. Position Binders updated: N/A Date: 4/29/21

7. Copy of EPDCC placed in EP file: N/A Date: 4/29/21

8. Supporting documentation is submitted as a general record in eB Ref. Lib.: N/A Date: 4/29/21

9. Word files are moved from working drafts folder to current revision folder in the EP drive:
 N/A Date: 5/17/21



IPEC
EMERGENCY PLAN
IMPLEMENTING
PROCEDURES

NON-QUALITY RELATED
PROCEDURE

IP-EP-251

Revision 8

REFERENCE USE

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of

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CONTROLLED

**Alternate Emergency
Operations Facility**

Prepared by:

Rebecca A. Martin

Print Name

Rebecca A. Martin

Signature

4/14/21

Date

Approval:

Frank J. Mitchell

Print Name

F. Mitchell

Signature

4/14/21

Date


Effective Date: May 17, 2021

This procedure excluded from further LI-100 review



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Alternate Emergency Operations Facility (AEOF)

1.0 PURPOSE

NOTE

Position Checklists provided in current Emergency Plan procedures for operations of the Emergency Operations Facility (EOF) are still required to be used by ERO members responding to the AEOF

- 1.1 To provide support information for the activation of the Alternate Emergency Operations Facility (AEOF).

2.0 REFERENCES


- 2.1 EN-EP-609-DP, Emergency Operations Facility
2.2 Indian Point Emergency Plan

3.0 DEFINITIONS

None

4.0 RESPONSIBILITIES

- 4.1 Emergency Director:
- 4.1.1 Ensuring continuity of notifications to New York State (NYS), County, and Federal authorities as required;
 - 4.1.2 Ensuring continuity of emergency classification, protective action recommendations and notifications during a move to the AEOF; and, coordinating and managing the Emergency Response Organization from this new location.
 - 4.1.3 Ensuring the AEOF is made operational in accordance with this procedure;
 - 4.1.4 Ensuring minimum staffing is attained;
 - 4.1.5 Ensuring other EOF Staff members perform steps outlined in this procedure.

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5.0 DETAILS

- 5.1 Emergency Director shall follow steps in EN-EP-609-DP for activation and operation of the AEOF.
- 5.2 Access to the AEOF
 - 5.2.1 The Alternate Emergency Operations Facility is located on the 2nd Floor, Suite 207 at 60 Merritt Blvd., Fishkill, NY. This is approximately a 22 mile drive north of the Emergency Operations Facility at Indian Point.
 - 5.2.2 The building is open from 8 a.m. to 5 p.m. Monday through Friday. To gain access to the building after hours ERO personnel will use a key card and the side door.
 - 5.2.3 The AEOF is a dedicated facility that requires a minimum of setup.
- 5.3 Entry into this procedure is based on guidance provided in EN-EP-609, Emergency Operations Facility

6.0 INTERFACES

- 6.1 EN-EP-609-DP, "Emergency Operations Facility"

7.0 RECORDS

None

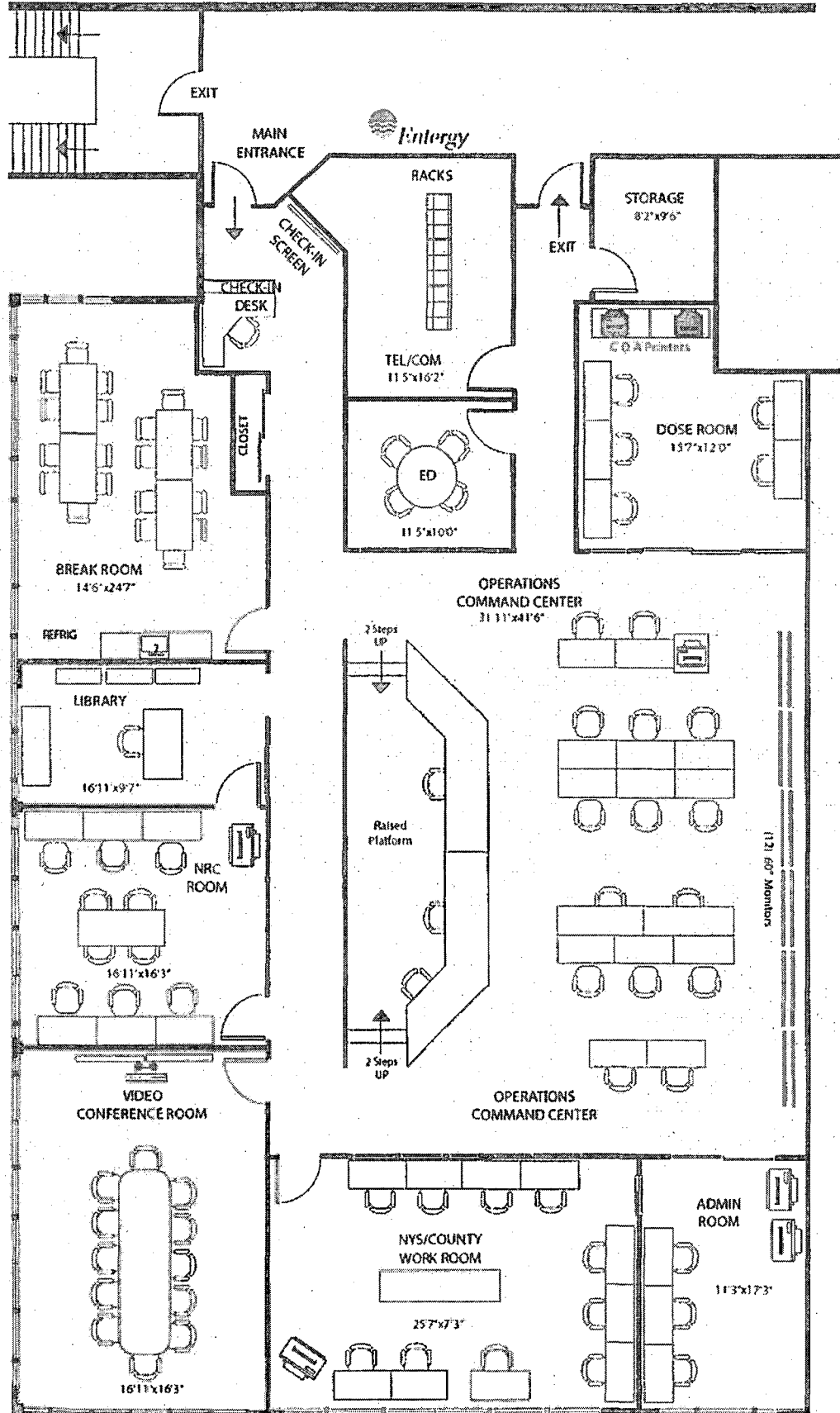
8.0 REQUIREMENTS AND COMMITMENTS


None

9.0 ATTACHMENTS

- 9.1 Layout of the AEOF
- 9.2 Instructions for Using the AEOF Radios
- 9.3 Telephone Reference Guide
- 9.4 AEOF Setup Checklist
- 9.5 Directions to the AEOF

**Attachment 9.1
Layout of the AEOF**



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Attachment 9.2
Instructions for Using the AEOF Radios
Sheet 1 of 3

1.0 Radio Description

1.1 Motorola Radio Desk-sets (2)

1.1.1 The Motorola Radio Desk-sets are network-connected computers optimized to operate as a radio console. The radio desk sets are configured to auto-login when they are first connected to the network. Should the auto-login fail and you are asked for a user name and password, **THEN** enter the following:


- User Name: w
- Password: 1

1.1.2 There are two (2) Motorola Radio Desk sets located in the AEOF. The Motorola Radio Desk sets are located at the following stations:

- Offsite Communicator
- Offsite Team Coordinator

1.1.3 The desk sets are connected to four (4) gateways that are the interface between the desk sets and IPEC radios. Each gateway can connect to one of four channels. The channel numbers on the desk set display screen are labeled 1 through 13 along with the site channel name. The channel numbers have been assigned to enable the most frequently used channels to be displayed at the top of the display scroll list. The following channels are display on the desk set screen:

- 1: Onsite Radio Channel 4
- 2: Offsite Radio Channel 5
- 3: Goosetown Radio Channel
- 4: Local Government Radio
- 5: General (Onsite) Radio Channel 8
- 6: U2 Operations Channel 6
- 7: U3 Operations Channel 7
- 8: Security Channel 1
- 9: Onsite Alternate Channel 4
- 10: Offsite Alternate Channel 5
- 11: General Alternate (Onsite) Channel 8
- 12: Goosetown Alternate Channel – **NOT USED**
- 13: Local Government Radio Alternate Channel – **NOT USED**

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Attachment 9.2
Instructions for Using the AEOF Radios
 Sheet 2 of 3

2.0 Instructions for Use of Motorola Desk sets

2.1 Motorola Radio Desk sets Controls


2.1.1 The top half of the Motorola Radio Desk set includes a screen with five (5) software-defined buttons on top of the screen and five buttons at the bottom of the screen. There is a channel button with up and down keys to the right of the screen that is **NOT USED**.

2.1.2 The bottom half of the Motorola Desk set has three sections. The left section is a telephone-style keypad that is **NOT USED**. The center section contains a four-way scroll switch with an "OK" button in the center. The up and down arrows are used to scroll to a channel and the "OK" button is used to select a channel. No other buttons are used in the center section. The right section include a speaker mute, volume control and push-to-talk (transmit) buttons. The Motorola Radio Deskset also has a handset available for use.

2.2 Selecting/Changing/Using Radio Channels

2.2.1. **IF** a radio channel is currently selected on the Motorola Radio Desk set, **THEN**:


- Press the "Disconnect" button at the top of the screen.
- Press the "Connect" button at the top of the screen.
- Press the "All" button at the top of the screen.
- Press the "All" button a second time to re-sort the channels in numeric order.
- Use the 4 way scroll button to highlight the desired channel and press the OK button.
- You will hear a rapid series of three (3) beeps indicating the radio channel is available.
- Push and hold the push-to-talk transmit button, wait five (5) seconds, **THEN** speak using either the built-in desk set microphone or the desk set handset.
- When finished transmitting, release the push-to-talk transmit button.

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Attachment 9.2
Instructions for Using the AEOF Radios
 Sheet 3 of 3

2.2.2 **IF** a radio channel is **NOT** currently selected on the Motorola Radio Desk set, **THEN**:

- Use the 4 way scroll button to highlight the desired channel and press the OK button.
- You will hear a rapid series of three (3) beeps indicating the radio channel is available.
- Push and hold the push-to-talk transmit button, wait five (5) seconds, **THEN** speak using either the built-in desk set microphone or the desk set handset.
- When finished transmitting, release the push-to-talk transmit button.

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Attachment 9.3
Telephone Reference Guide
 Sheet 1 of 1

1.0 Discussion

Each telephone has one telephone line, network. The phone system will automatically switch from the IPEC to an AT&T network if there is a problem.

1.1 PBX line (254-3xxx exchange) requires that you dial 9 to get an outside line.

2.0 To Answer a Call

2.1 Pick up handset

3.0 Making an Outside Call from the PBX line

3.1 Pick up the handset

3.2 Dial 9

3.3 Listen for dial tone

3.4 Dial the desired number.

4.0 Making a Call to IPEC

4.1 Dial 4 digit phone number.

5.0 Placing a call on Hold and Retrieving the Call

5.1 Press the HOLD button during a call

5.2 Retrieve the call by pressing the ANSWER button

5.3 Return to original call by pressing end button.

6.0 Transferring Calls

6.1 During a call depress the TRANSFER button


6.2 Dial the extension number to which the call will be transferred

6.3 When the recipient answers, announce the call and hang-up

7.0 Making a Conference Call (this will take both lines)

7.1 Adding an Outside line

- a. Press the CONF button during a call
- b. Dial the party to be included in the conference (remember to dial 9 for outside call)
- c. Press CONF button after the call is answered to connect all parties

 IPEC EMERGENCY PLAN IMPLEMENTING PROCEDURES	NON-QUALITY RELATED PROCEDURE	IP-EP-251	Revision 8
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Attachment 9.5
Directions to the AEOF
 Sheet 1 of 1

Directions:

From I-84

1. Take Exit 52N go north 2 blocks
2. Turn right (east) on Merritt Blvd.
3. Proceed approximately ¼ mile to # 60 Merritt.

From Taconic Parkway

1. Take Exit for I-84 west
2. Follow directions above

From Route 9

1. Heading north, proceed under I-84 overpass.
2. Go 2 blocks, turn right on Merritt Blvd.
3. Proceed approximately ¼ mile to # 60 Merritt.

From IPEC

1. Take Route 9 north thru Annsville circle for approximately 22 miles.
2. Proceed just past I-84
3. Follow directions above.

IPEC IMPLEMENTING PROCEDURE PREPARATION, REVIEW, AND APPROVAL

IP-SMM-AD-102 Rev: 17

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ATTACHMENT 10.2

IPEC PROCEDURE REVIEW AND APPROVAL

(Page 1 of 1)

Procedure Title: Joint Information Center

Procedure No. IP-EP-260 Existing Rev: 11 New Rev: 12 DRN/EC No: DRN-21-00124

Procedure Activity (MARK Applicable)	Converted To IPEC, Replaces:	Temporary Procedure Change (MARK Applicable)
<input type="checkbox"/> NEW PROCEDURE <input type="checkbox"/> GENERAL REVISION <input checked="" type="checkbox"/> PARTIAL REVISION <input type="checkbox"/> EDITORIAL REVISION <input type="checkbox"/> VOID PROCEDURE <input type="checkbox"/> SUPERSEDED	<input type="checkbox"/> Unit 1 Procedure No. _____ <input type="checkbox"/> Unit 2 Procedure No. _____ <input type="checkbox"/> Unit 3 Procedure No. _____	<input type="checkbox"/> EDITORIAL Temporary Procedure Change <input type="checkbox"/> ADVANCE Temporary Procedure Change <input type="checkbox"/> CONDITIONAL Temporary Procedure Change Terminating Condition: _____ _____
<input type="checkbox"/> RAPID REVISION	Document in Microsoft Word: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> VOID DRN/TPC No(s): _____

Revision Summary N/A – see Revision Summary page. – Procedure was revised to reflect Post U3 Shutdown Eplan.

Implementation Requirements

Implementation Plan? Yes No Formal Training? Yes No Special Handling? Yes No
 Quality Related? Yes No If Yes, then ensure the procedure cover page is marked "Quality Related"

RPO Dept: Emergency Planning Writer: (Print Name/Ext/Sign): Rebecca Martin x7106/ Rebecca Martin

Review and Approval (Per Attachment 10.1, IPEC Review And Approval Requirements)

1. Technical Reviewer: Antonio J. Inoua / [Signature] 4/14/2021
 (Print Name/ Signature/ Date)

2. Cross-Disciplinary Reviewers:
 Dept: _____ Reviewer: _____
 (Print Name/ Signature/ Date)

Dept: _____ Reviewer: _____
 (Print Name/ Signature/ Date)

3. RPO- Responsibilities/Checklist: Frank J Mitchell / [Signature] 4/14/21
 (Print Name/ Signature/ Date)

- PAD required and is complete (PAD Approver and Reviewer qualifications have been verified)
- Previous exclusion from further LI-100 Review is still valid
- PAD not required due to type of change as defined in 4.6

4. Non-Intent Determination Complete: _____
 (Print Name/ Signature/ Date)

- NO change of purpose or scope
- NO change to less restrictive acceptance criteria
- NO reduction in the level of nuclear safety
- NO change to steps previously identified as commitment steps
- NO voiding or canceling of a procedure, unless requirements are incorporated into another procedure or the need for the procedure was eliminated
- NO deviation from the Quality Assurance Program Manual
- NO change that may result in deviations from Technical Specifications, FSAR, plant design requirements.

5. On-Shift Shift Manager/CRS: (RPO per SMM-AD-102) – Frank J. Mitchell / [Signature] 4/14/21
 (Print Name/ Signature/ Date)

6. User Validation: User: _____

7. Special Handling Requirements Understood: _____
 (Print Name/ Signature/ Date)

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-260	Revision: 12
Equipment/Facility/Other: Indian Point Energy Center	
Title: Joint Information Center	

Part I. Description of Activity Being Reviewed (event or action, or series of actions that have the potential to affect the emergency plan or have the potential to affect the implementation of the emergency plan):

Procedure was substantially revised to align the JIC procedure to reflect the requirements in the Post Unit 3 Shutdown Eplan (PSEP), as submitted to the NRC per LAR, license #NL-19-001, Attachment 8 Emergency Response Organization Task Analysis. Procedure will be effective on May 17, 2021.

Part II. Emergency Plan Sections Reviewed (List all emergency plan sections that were reviewed for this activity by number and title. IF THE ACTIVITY IN ITS ENTIRETY IS AN EMERGENCY PLAN CHANGE, EAL CHANGE OR EAL BASIS CHANGE, ENTER THE SCREENING PROCESS. NO 10CFR50.54(q)(2) DOCUMENTATION IS REQUIRED.

Part 1 Introduction:

Section A: Purpose

Part 2 Planning Standards and Criteria:

Section A: Assignment of Responsibility

Section B: Station Emergency Response Organization

Section D: Emergency Classification System

Section H: Emergency Facilities and Equipment

Part III. Ability to Maintain the Emergency Plan (Answer the following questions related to impact on the ability to maintain the emergency plan):

1. Do any elements of the activity change information contained in the emergency plan (Section 3.0 Step 6)?
YES NO IF YES, enter screening process for that element
2. Do any elements of the activity change an emergency classification Initiating Condition, Emergency Action Level (EAL), associated EAL note or associated EAL basis information or their underlying calculations or assumptions?
YES NO IF YES, enter screening process for that element
3. Do any elements of the activity change the process or capability for alerting and notifying the public as described in the FEMA-approved Alert and Notification System design report?
YES NO IF YES, enter screening process for that element
4. Do any elements of the activity change the Evacuation Time Estimate results or documentation?
YES NO IF YES, enter screening process for that element
5. Do any elements of the activity change the Onshift Staffing Analysis results or documentation?
YES NO IF YES, enter screening process for that element

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-260	Revision: 12 12
Equipment/Facility/Other: Indian Point Energy Center	
Title: Joint Information Center	

Part IV. Maintaining the Emergency Plan Conclusion The questions in Part III do not represent the sum total of all conditions that may cause a change to or impact the ability to maintain the emergency plan. Originator and reviewer signatures in Part V document that a review of all elements of the proposed change have been considered for their impact on the ability to maintain the emergency plan and their potential to change the emergency plan.

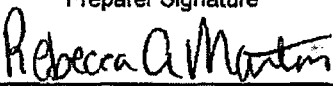
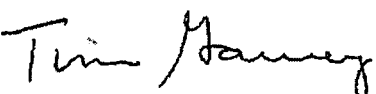

1. Provide a brief conclusion that describes how the conditions as described in the emergency plan are maintained with this activity.
 2. Check the box below when the 10CFR50.54(q)(2) review completes all actions for all elements of the activity – no 10CFR50.54(q)(3) screening or evaluation is required for any element. Otherwise, leave the checkbox blank.
- I have completed a review of this activity in accordance with 10CFR50.54(q)(2) and determined that the effectiveness of the emergency plan is maintained. This activity does not make any changes to the emergency plan. No further actions are required to screen or evaluate this activity under 10CFR50.54(q)(3).

Per Post Shutdown Emergency Plan (PSEP), both Unit 3 and Unit 2 will be at shut down. The changes made to this procedure reflects this requirement of the Post Unit 3 Shutdown Eplan, as submitted to the NRC (license # NL-19-001) and ERO positions and tasks were adjusted to reflect Attachment 8, ERO Task Analysis. The NRC has approved the PSEP per RA-20-040.

A review of this activity in accordance with 10 CFR 50.54(q)(2) has been completed and determined that the effectiveness of the PSEP is maintained. This revision aligns the procedure with the protocols of the post Unit 3 shutdown. None of the changes affect the ability to perform classifications, notifications, or PARs, it does not affect activation or staffing of the ERO as described in the Unit 3 PSEP, and all planning standard requirements are maintained. The changes made do not require a change to the Emergency Action Level scheme, On-shift Staffing study or the PSEP.

No further actions are required to screen or evaluate this activity under 10 CFR 50.54(q)(3).

Part V. Signatures:

Preparer Name (Print) Rebecca A. Martin	Preparer Signature 	Date: 10/7/2020
(Optional) Reviewer Name (Print)	Reviewer Signature	Date:
Reviewer Name (Print) Timothy Garvey Nuclear EP Project Manager	Reviewer Signature 	Date: 10/14/20
Approver Name (Print) Frank Mitchell Emergency Planning Manager or designee	Approver Signature 	Date: 4/14/21

Attachment 9.1

Emergency Planning Document Change Checklist Form

(All sections must be completed, N/A or place a check on the line where applicable)

Section 1

Doc/Procedure Type:	Administrative <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> EPLAN <input type="checkbox"/> N/A <input type="checkbox"/>
Doc/Procedure No:	IP-EP-260
Doc/Procedure Title:	Joint Information Center
New revision number:	12
Corrective Action:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> CR#: <u>OL-OLI-2018-00090 CA 19</u>
Effective date:	May 17, 2021

Section 2

Change Description

1. Ensure the following are completed, or are not applicable and are so marked:

- a. 50.54g N/A
- b. EN-FAP-OM-023 N/A
- c. IP-SMM- AD-102 N/A
- d. OSRC N/A
- e. NRC Transmittal N/A
(within 30 days)

2. List any other documents affected by this change: N/A

3. Transmittals are completed: N/A Date: 4/29/21

4. Ensure the proper revision is active in eB Ref. Lib.: N/A

5. Approved doc/procedure delivered to Doc. Control for distribution: N/A Date: 4/29/21

6. Position Binders updated: N/A Date: 4/29/21

7. Copy of EPDCC placed in EP file: N/A Date: 4/29/21

8. Supporting documentation is submitted as a general record in eB Ref. Lib.: N/A Date: 4/29/21

9. Word files are moved from working drafts folder to current revision folder in the EP drive:

N/A Date: 5/17/21



IPEC
EMERGENCY PLAN
IMPLEMENTING
PROCEDURES

NON-QUALITY RELATED
PROCEDURE

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Joint Information Center

CONTROLLED

Prepared by:

Rebecca A. Martin

Rebecca A. Martin

4/14/21

Print Name

Signature

Date

Approval:

Frank J. Mitchell

F. Mitchell

4/14/21

Print Name

Signature

Date

Effective Date: May 17, 2021

This procedure excluded from further LI-100 review

Procedure extensively revised. Revision bars not used



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Joint Information Center (JIC)

1.0 PURPOSE AND BACKGROUND INFORMATION

- 1.1 This procedure establishes the framework for timely, coordinated and accurate release of protective and response information to the public and the media during an event at the Indian Point Energy Center (IPEC). This procedure describes the Joint Information Center (JIC) concept being used, including the facility where the JIC is housed and the supporting processes which will allow remote participation and coordination among necessary entities.
- 1.2 The JIC is located within the State-run Hudson Valley Transportation Management Center (HVTMC) at 200 Bradhurst Avenue in Hawthorne, NY 10532. Directions to the HVTMC and JIC Floor Plans are attachments to this procedure.
- 1.3 The purpose of the JIC is to act as the official distribution point for the coordinated release of information from the four counties of Westchester, Rockland, Putnam and Orange, the State of New York, and Entergy's Indian Point Energy Center. The JIC is staffed and operated to:
 - Provide information to the media, through briefings or written statements on plant conditions and on emergency response actions being taken to protect the public.
 - Ensure that the public receives credible, accurate and timely information, and to identify and correct rumors or misinformation through coordinated public inquiry functions, as well as via coordinated media referral and media monitoring response operations.
 - Support further distribution of Emergency Alert System (EAS) emergency advisories to the public in the 10-mile Emergency Planning Zone (EPZ).
- 1.4 The JIC supports the emergency response plans of Entergy, New York State and Westchester, Putnam, Rockland and Orange Counties related to an IPEC event, as well as the response plans of the US Nuclear Regulatory Commission (NRC) and the Federal Emergency Management Agency (FEMA).
- 1.5 This procedure defines how Entergy will coordinate with and disseminate information to:
 - State and County Public Information Officers
 - NRC and FEMA Public Information Officers
 - The News Media
 - Members of the Public
 - Entergy Employees

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1.6 This procedure also establishes the Entergy processes on preparation and release of emergency information and describes the basic functions, processes and facilities that support operation of the JIC. It also establishes Entergy policies and procedures for interaction among other emergency response entities participating through the JIC, as well as other Entergy departments and teams supporting the response.

1.7 This procedure and the position-specific checklists in the attachments address:

- Process and provisions for staff notification and facility activation
- Entergy's initial or first communications response prior to the JIC becoming operational
- The JIC organizational structure
- Overview of JIC operations
- Flow of information to, within and from the JIC
- Preparation and review of information for dissemination to the news media
- Interaction among entities at or remotely connected to the JIC
- Equipment and supplies.

1.8 Detailed information on the responsibilities and actions of the Entergy JIC positions and reference materials for individuals filling those roles is contained in the attachments of this procedure, as well as in JIC Position Binders maintained at the JIC facility. In both cases, these documents are controlled through the IPEC Emergency Planning Department.

2.0 REFERENCES

- 2.1 Indian Point Energy Center Emergency Plan
- 2.2 EAL Reference Manual
- 2.3 Emergency Telephone Directory (ETD)
- 2.4 JIC A/V Training/Procedure Manual
- 2.5 A/V Coordinator Setup Instructions
- 2.6 NYS JIC Work Plan
- 2.7 FTP Site User Aid

3.0 DEFINITIONS

- 3.1 Activated – an order has been made to activate an emergency response facility, and the facility is in the process of being staffed.
- 3.2 Staffed – the emergency response facility has been activated and sufficient personnel are available to perform the required functions as determined by the facility manager.



- 3.3 Operational – status of an emergency facility declared by the appropriate facility manager upon determining that the facility is adequately staffed, and equipment is setup and available to perform the emergency functions assigned to that facility.
- 3.4 Media Briefings – referred to as News Briefings in the NYS JIC Work Plan.
- 4.0 RESPONSIBILITIES**
- 4.1 The New York State Office of Emergency Management (NYSOEM), Westchester County, and Entergy JIC staff will be physically located in the HVTMC working in a unified command structure. The other counties participate remotely utilizing video conference, telephone, and computer capabilities and linkages. The NRC and FEMA can be accommodated at the JIC if they choose to respond there.
- 4.2 Entergy, State, County and federal public information staffs are responsible to share emergency response information and dissemination plans, which will support timely and coordinated release of information to the public and news media. The coordination assures all parties are aware of each other's actions concerning plant status, response and protective actions, public inquiry and media monitoring, and provides the opportunity to resolve inconsistencies.
- 4.3 The JIC can be declared operational by either the NYSOEM or Entergy in response to an event at IPEC once either entity is prepared to operate on its own behalf, and will be considered fully operational once both the State and Entergy have sufficient staff, communications, equipment operability and participation by all parties (NYSOEM, Entergy and the four counties) to carry out the primary JIC functions in a coordinated manner as described in this procedure and any governing procedures. In the event NYSOEM is late in arriving at the JIC, Entergy may declare the JIC operational after consulting with NYSOEM. NYSOEM will notify news organizations by media advisory or similar means that the JIC is operational.
- 4.4 Activation of the JIC for an IPEC event will be automatically initiated at the declaration of an Alert or higher classification. JIC use is otherwise discretionary.
- 4.5 NYS, Entergy and the Counties' chief elected officials will cooperatively decide to terminate JIC operations.
- 4.6 NYS is responsible for the overall physical set-up, operability and functionality at the HVTMC. Details of the specific maintenance responsibilities are described further separately in documents maintained by IPEC Emergency Planning.
- 4.7 The Entergy JIC Manager is responsible for Entergy JIC staff, and to ensure that the implementation of the information dissemination process meets Entergy's needs. The JIC Manager and the Company Spokesperson are responsible for Entergy's operations at the JIC.
- 4.8 Prior to JIC activation, the Press Release Writer, in conjunction with the Onsite Emergency Response Organization, maintains responsibility for the release of information to the media. Once the Emergency Operations Facility is activated, the Technical Advisor is responsible to facilitate sharing of information among the EOF, and/or the JIC.



- 4.9 Once the JIC is operational, media and public communications from Entergy concerning the plant become the responsibility of the JIC under the overall direction of the JIC Manager.
- 4.10 The Company Spokesperson is the senior communications person at the JIC for Entergy and is responsible for the communications strategy and successful information dissemination regarding the event.
- 4.11 Entergy shares responsibility for certain communications functions, which will be performed jointly or in coordination with other JIC and responding entities.
- A. Media monitoring is a shared responsibility performed in the JIC between the NYSOEM and Entergy. Any identified misinformation or rumors are coordinated among all entities.
 - B. The State, on behalf of all JIC entities with the exception of Westchester, coordinates with the New York State Tax and Finance call center (Public Inquiry call center) to provide information to respond to inquiries from the public.
 - C. IPEC Communications and Corporate Communications manage media referral activities on behalf of Entergy and coordinate any information dissemination with the JIC.
 - D. Government Affairs manages all government communications with elected and other government officials on behalf of Entergy and coordinates any information dissemination with the JIC.
 - E. Media Liaison efforts will be shared by Entergy and NYSOEM staff.
 - F. IT operability, logistics and administrative support will be provided primarily by NYS personnel and will be supplemented by the help desk.
- 4.12 In addition to the major functions of the JIC, are various support actions that must occur at the JIC. The Entergy JIC staff is organized and assigned responsibility to perform these functions to fulfill Entergy's requirements for information dissemination during an emergency at IPEC. Additionally, other designated IPEC positions provide support and/or input to the JIC staff. These functions and the positions supporting them are also described below.
- A. Gathering Information:
 - Prior to activation of the EOF or Alternate EOF, the Shift Manager/Emergency Director (ED) in the Control Room will be responsible for providing information to the Press Release Writer who is the lead communicator.
 - Once the EOF is operational, the Technical Advisor (TA) at the EOF will provide information to the Press Release Writer and/or Technical Advisor at the JIC.



- Once the JIC is operational, the Technical Advisor, and JIC Manager will gather information from electronic connection to plant resources and via direct personal contact with the EOF.
- Once established, the Public Inquiry call centers, Media Monitoring, IPEC Communications and Corporate Communications staff will provide the JIC with any rumors and/or misinformation identified.

B. Processing and Review:

- The JIC Manager logs pertinent information on a running plant status log.
- The Technical Advisor gathers and provides information and advice to the JIC Staff on radiological conditions.
- The Press Release Writer prepares written statements based on information from the plant and develops talking points based on available plant information in preparation for Media Briefings.

C. Dissemination, Distribution and Feedback:

1. Information is released from the JIC to the news media verbally through Media Briefings or written statements such as news releases. The Entergy JIC staff supports distribution of all written statements, include posting to the NYS FTP Site.
 - The Company Spokesperson provides formal statements to the news media in Media Briefings, and through written statements.
 - Immediately after each media briefing, the JIC Manager, Technical Advisor, and Media Liaison update the Company Spokesperson on plant status and developments, and provide feedback on the briefing conduct, open questions and issues.
 - Media Monitoring gathers reports of rumors and misinformation from various media sources and provides this information to the JIC Manager.
 - The JIC Manager maintains awareness of the reports of rumors and misinformation.
 - The Media Monitor ensures that the JIC Manager is aware of the state and county information dissemination plans, via the PIO coordination line.
 - The JIC Manager also ensures that the information processes are completed in a manner to support the timely dissemination of information.
 - The JIC Manager supports the administrative and logistical needs of the facility.
 - The Media Liaison interfaces with the media, ensuring they have the latest information.



- The JIC TA and Media Liaison provide the Audio-Visual needs of the media briefing and Work Rooms.
- The JIC Manager maintains a running log of actions/decisions of the JIC.
- The IT Help Desk provides support for the Entergy Remote connections
- The State IT Specialist to maintain computers, telecommunications systems and connectivity in the JIC.

5.0 DETAILS (PROCESS OVERVIEW)

5.1 The primary functions of the JIC are to:

- A. Provide timely, accurate and coordinated information to the media, through briefings or written statements such as news releases, on plant conditions and on emergency response actions being taken to protect the public's health and safety.
- B. Ensure the public receives accurate and timely information, and to coordinate efforts to identify and correct rumors or misinformation.
- C. Support further distribution of emergency advisories to the public in the 10-mile Emergency Planning Zone (EPZ) through the Emergency Alert System (EAS). (State and County functions managed primarily within the respective Emergency Operations Centers.)

5.2 Upon declaration of an Alert (or more severe emergency classification), the JIC is activated and staffed by Entergy and NYSOEM. The facility may also be activated sooner and/or at other times at the discretion of Entergy senior management and Communications personnel.

- A. Notification of the JIC staff occurs via the ERO notification system. Entergy follows an "All-Call", fit-for-duty policy for the ERO. JIC staff should immediately report to the HVTMC, or initiate duties from home, office or other locations, as defined by individual position checklists.
- B. Entergy staffing of the JIC should take place within two (2) hours of the emergency declaration. If designated to report for a second shift during an event, personnel will have a turnover period for position transition. During this turnover period, staff should work with the person currently in the position to:
 - Determine the status of activities and information,
 - Review available logs and documentation and
 - Ensure an understanding of activities completed and in progress.
- C. Either IPEC Unit 2 or Unit 3 Control Room will ensure initial information is provided to the on-duty Press Release Writer during emergencies.
- D. If necessary and appropriate, JIC management may re-assign available and appropriate staff to temporarily fill positions to facilitate activation. The key Entergy



JIC positions for Minimum Staffing are the Company Spokesperson, the JIC Manager and the Technical Advisor.

- 5.3 Prior to the JIC being declared operational, the Press Release Writer serves as the communications lead.
- A. The Press Release Writer responds from any location where they have the computer and telephone equipment and uses boilerplate news releases to assist the prompt development of an initial news release within one (1) hour of the classification, if possible.
 - B. The Press Release Writer gathers essential information, drafts the initial news release(s), and distributes the final news release via the NYS FTP Site and internet/email to the media, other response entities and throughout Entergy.
 - C. After the first news release is issued and posted, the Press Release Writer will proceed to the JIC and continue the preparation of news releases and press briefings.
- 5.4 The Emergency Operations Facility (EOF) and the plant organization serve as primary sources of information for the JIC. After EOF operability, the EOF TA facilitates continued sharing of information among the EOF and the JIC, once staffed. Both telephone and email contact are used to ensure prompt and timely notification to the JIC of changing information and answers to questions.
- A. If necessary, an Alternate EOF (AEOF) may need to become operational, and all staffing including the EOF TA will be established at the alternate site. Additionally, a "Recovery Center," if required, may provide information to the JIC.
 - B. The EOF TA and JIC will communicate over regular telephone lines to support the relay of emergency information. If the AEOF is activated, the EOF TA will establish contact with the JIC on regular telephone lines.
 - C. The EOF TA provides data to the JIC Technical Advisor verbally, electronically and/or via fax. Plant information is also available online through computer access at the JIC.
- 5.5 The Company Spokesperson is the senior communications person at the JIC for Entergy and is responsible for the Entergy communications strategy and implementation of successful information distribution to the public and news media.
- 5.6 The Company Spokesperson serves as the source of all statements and information disseminated from the JIC by Entergy. The Company Spokesperson develops talking points based on available information in preparation for Media Briefings.
- A. Entergy, the State or Counties, NRC or FEMA can call for Media Briefings as significant events occur, or critical information becomes available. Planning and scheduling Media Briefings is done by consensus of the participants. As a general rule, Media Briefings will be scheduled following (usually within one hour) changes in emergency classification, protective action decisions, rumor control, radiological release and for periodic updates during extended emergency situations.



- B. The Company Spokesperson identifies support materials needed for briefings to summarize key information, to clarify plant systems and components and to illustrate explanations. The Company Spokesperson coordinates production or availability of graphics, photographs or other materials with the JIC TA.
 - C. Information that will be presented at Media Briefings is first shared in either verbal or written form during Pre-Briefings. Spokespeople for all parties participating in Media Briefings participate in Pre-Briefings that are coordinated by the NYSOEM (as Moderator). Each party at the conference summarizes the status of their actions and the information they will present at the briefing.
 - D. Information is presented to the news media in a briefing area of the building. The NYSOEM and Company Spokespersons will be located at a podium with microphones. Large display screens project the counties spokespeople into the briefing area for their participation. The JIC has two (2) briefing areas. One is located in the lobby and the second is located on the third floor in the Clerestory Room. The briefing area may have chairs for news briefing attendees. Audio Visual equipment is available to display diagrams, overheads, slides, videotapes and maps.
 - E. The Media Liaison supports the media present in the Media Briefing area before and after briefings to ensure they get the information they need.
 - F. Immediately after each briefing, the JIC Manager, Technical Advisor, and Media Liaison update the Company Spokesperson on plant status and developments, and provide feedback on the briefing conduct, open questions and issues.
- 5.7 The JIC Manager and the Company Spokesperson periodically participate with NYSOEM and other state staff to coordinate the JIC response. The County PIOs will also participate in coordinating efforts via telephone and/or videoconferencing capabilities.
- A. The JIC Unified Command links the various responding entities and provides a forum for these entities to make consensus decisions, and coordinate information dissemination efforts.
 - B. Information coordination is also facilitated by the Company Spokesperson, who works directly with the NYS Public Information Officer (PIO).
 - C. The Media Monitoring will interface on the PIO Coordination Line.
- 5.8 The Press Release Writer prepares and ensures technical accuracy and approval of written statements (news releases, media advisories and chronologies) to provide written documentation of events and response activities.
- A. The Press Release Writer has boilerplate news releases to assist in the prompt development of technically accurate written statements. News Releases are issued within one (1) hour of event classification or other major status change.
 - B. The JIC Manager provides a copy of the draft press release to the EOF via the EOF TA for Emergency Director technical review and approval. Press releases are also vetted through the Incident Commander, or designee, to ensure a review is



performed by Site Security, Local, State and Federal law enforcement agencies such as the FBI, NY State Police, etc.

- C. The Press Release Writer posts to the NYS FTP Site all Entergy approved news releases.
- 5.9 Major events and information provided from the plant are logged and displayed by the JIC Manager in the JIC Work Room. The JIC Manager also supports the Work Room by documenting the communications strategy, priorities, key messages, scheduled briefings and other relevant information.
- 5.10 Communications feedback is received via the Media Monitoring (from the counties via the PIO Hotline Coordinator and from Westchester and the NYSOEM Public Inquiry Coordinators).
- A. The JIC Manager will work with the Press Release Writer to implement any corrective actions specifically rumors and misinformation.
- 5.11 The JIC Manager assists in the distribution of written materials through copying, faxing, electronic and direct distribution, and provide other administrative and logistical support (such as second shift staffing) as needed.
- 5.12 The IT Help Desk ensures operability of remote access and computers.
- 5.13 The NYS IT support personnel to ensure full operability of Entergy work areas.
- 5.14 The JIC may remain operational after event termination and during Recovery.
- A. The Emergency Director and/or Recovery Manager will advise the Company Spokesperson (or JIC Manager) to develop a recovery action plan (Issues/Strategies) and determine JIC staffing requirements for Recovery.
- B. The Recovery Manager will continue verification and technical concurrence of information released by the Company Spokesperson that pertains to the emergency or recovery from the accident.
- 5.15 JIC Deactivation will occur when the Emergency Director terminates the emergency or at some point during Recovery, and the decision to terminate JIC operations will be cooperatively reached by Entergy, Counties' chief elected officials and New York State.
- A. The deactivation will be announced both at a close-out Media Briefing and by a NYSOEM media advisory announcing the termination of JIC operations, with points of contact for follow-on inquiries.
- 5.16 All other personnel assigned to the JIC are responsible to carry out their tasks as outlined in their position specific checklist, attached to this procedure.
- 5.17 Due to the limited parking spots available at the HVTMC, parking has been arranged at the Holy Rosary Church located at 170 Bradhurst Avenue, Hawthorne NY.
- 5.18 Attachments 9.1 through 9.8 are checklist instructions for JIC positions. The person(s) responding for each of these positions **SHALL** use the appropriate checklist and associated referenced tools to perform their assigned duties. Position binders are



maintained for every position and they include the checklists and other tools and guidance materials needed to perform each position's function.

6.0 INTERFACES

6.1 Indian Point Energy Center Emergency Plan

6.2 Entergy Documents:

- IP-EP-115, Emergency Plan Forms
- EN-EP-609-DP, Emergency Operations Facility
- IP-EP-251, AEOF
- EN-EP-613-DP, Recovery from a Declared Emergency

7.0 RECORDS

Any logs, forms and documents generated at the JIC during an actual declared emergency are permanent Quality Records.

8.0 REQUIREMENTS AND COMMITMENTS

This procedure implements the following requirements/commitments:

- NL-00-111-C01 (IP2)
- NL-99-116-C13 (IP2)
- NL-81-157-C41 (IP2)



9.0 ATTACHMENTS

- 9.1 Press Release Writer Checklist
- 9.2 JIC Manager Checklist
- 9.3 Company Spokesperson Checklist
- 9.4 Technical Advisor Checklist
- 9.5 Media Liaison Checklist
- 9.6 JIC Technical Advisor Supporting Audio Visual Coordination Checklist
- 9.7 Media Liaison as Audio Visual Graphics Support Checklist
- 9.8 Media Monitoring Checklist
- 9.9 JIC Driving Directions and Floor Plans
- 9.10 IPEC JIC ERO Staffing



Attachment 9.1
Press Release Writer Checklist
Sheet 1 of 8

Primary Responsibilities

Serve as primary information gatherer and communications representative during initial emergency response; prepare and get approval of initial news release(s); complete courtesy notification to select local officials relative to the event and impending external dissemination of information to the media; distribute approved news releases; after the posting of the first news release report to the JIC to work with the JIC Manager to provide continued communications support for verbal and written statements.

When notified by IPEC's notification system or upon hearing the emergency assembly alarm, the Press Release Writer initiates the initial communications response. Emergency information and written statements are prepared and issued by the Press Release Writer, using the following steps:

- Obtain Information
- Determine Initial Response
- Draft Written Statement (using Boilerplate News Releases available on USB drive)
- Obtain Written Statement Technical Review and Approval
- Pre-approved Emergency Classification Level (ECL) news releases do not need review/approval
- Ensure Courtesy Calls to Select Local Officials
- Distribute Written Statement(s) via NYS FTP Site and WebEOC

1.0 Initial Responsibility/Activity

1.1 Initial Orientation

A. Upon initial notification of the event by the plant, obtain current information from the Control Room and/or EOF as is available regarding:

- Emergency Classification Level (ECL) and time declared
- Emergency Action Level (EAL) number
- Any radioactive material release; above or below federally approved limits
- Any known injuries or fatalities
- Brief description of plant events



Attachment 9.1
Press Release Writer Checklist
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Initial Responsibility/Activity (cont'd.)

- B. Contact the EOF, depending on timing, to determine if anyone is present to assist in information gathering and initial actions.


2.0 Continuous Responsibility/Activity

2.1 Maintain a Log

- A. A written log of information and actions must be maintained, including date, time and name of source(s) furnishing information (use Emergency Response Organization Log Sheet in your binder).

2.2 News Release Development

- A. Take immediate action to determine details of the situation including current plant conditions, time of event, emergency action level, emergency classification level, quantify radioactive release above/below federally approved limits, and known injuries or fatalities.
- B. Prepare written statements by gathering, compiling and reviewing plant information and response actions. Develop an initial news release based on available information.
- C. With the exception of the first press release, process the press release with EOF TA and to obtain ED approval. Send the press release to the EOF TA as an attachment to an email.
- D. Once staffed the EOF TA can assist in information gathering, and facilitate review, approval and support in distribution of news releases from within the EOF. Coordinate with and provide the EOF TA with guidance as needed for ED review and the distribution of additional news releases prior to JIC being declared operational.
 - 1. Utilize the JIC Coordination bridge to facilitate communications.
- E. Develop additional news releases if appropriate and necessary. Coordinate activities with JIC Manager.

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Continuous Responsibility/Activity (cont'd.)


2.3 Notifications and Courtesy Calls

- A. Upon receiving emergency information on initial plant conditions and following development of draft initial news release (while under review for approval):
1. Coordinate with IPEC's Communications Manager and contact designated officials informing them of the event underway and the planned issuance of a news release (as required), using the Courtesy Call Guide (Form EP-34) or equivalent provided by the Communications Manager and call list located in the position binder. However, coordinate with IPEC's Communications Manager for guidance and for the latest call/media list.
 2. Utilize the initial NUE, Alert, Site Area Emergency or General Emergency boilerplate news release templates to facilitate timely issuance of the initial news release.

NOTE:

The four generic initial ECLs Boilerplate News Releases do not need approval prior to issuance.

3. **BEFORE** issuing any news release information (with the exception of the four generic initial ECL Boilerplate New Releases), obtain approval of draft news releases from the Emergency Director (ED), or whoever is in charge of the emergency at that time. Once the JIC is staffed, the Company Spokesperson reviews all written statements for technical review and concurrence.
4. Coordinate with IPEC's Communications Manager and document your actions. Complete the Courtesy Call Guide (Form EP-34) or equivalent provided by the Communications Manager as calls are completed to capture numbers used and times of calls. Sign the bottom of the form and document the time of completion of all calls for the record.

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Press Release Writer Checklist**

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Continuous Responsibility/Activity (cont'd.)

2.4 Dissemination and Gathering of Information

- A. Distribute the news release(s) to media/wire services, EOF, JIC and to the designated local officials by using any available methods.
 - 1. Post to the NYS FTP Site
 - 2. Email
- B. If the NYS FTP Site is not available as a backup contact IPEC's Communications Manager for distribution to the media via email. As a secondary backup in the event email is also not available continue to support the IPEC Communications Manager with either faxes using JIC Fax Cover Sheet (Form EP-28) or with phone calling the media.
- C. Provide the EOF TA with guidance and coordinate as needed for news release approval and distribution. When seeking Shift Manager approval to news releases prior to EOF operability, the Press Release Writer must fax or email the press release to the Control Room. However, this approval will not be required when using the initial pre-approved news releases.
- D. Maintain contact with the plant or the EOF TA once staffed, for updated information on plant status and until responsibility for the development and issuance of emergency information is transferred from offsite to the JIC and/or the event is resolved, and media interest will be handled by normal Corporate Communications staff.

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Continuous Responsibility/Activity (cont'd.)


- E. Once staffing begins at the JIC, coordinate with the JIC Manager. The EOF TA will receive an email from the Press Release Writer advising him/her of their ability to receive information through their personal Entergy email address.
- F. As the primary point of contact for the media (as listed on any disseminated news releases), remain available at phone number provided on news releases to handle media inquiries until the JIC is operational, or an alternative contact point is available/provided. Complete Media Inquiry Log (Form EP-33) to document all media calls. The IPEC Communications Manager is the primary media referral.

2.5 Overall Responsibilities Upon Arriving at the JIC

Under the overall direction of the JIC Manager, ensure prompt written statement issuance on the event. Prepare written statements (within **one hour or sooner** of Emergency Classification or plant/events change); provide draft statements to Technical Advisor for review; work with the Technical Advisor or the EOF TA directly to ensure approval from the Emergency Director; add time, date and print final/approved statements; post to NYS FTP Site, WebEOC and electronically distribute to news media; and provide copy of final to JIC Manager for distribution and records keeping.

2.6 Initial Responsibility/Activity at the JIC

- A. If you have a JIC Badge, proceed to the JIC. If you do not have a JIC badge, obtain a Visitor badge from HVTMC Security and request an escort to the JIC.
- B. Sign in on the JIC Staffing Form on the Registration desk and on the Entergy Sign-In Board on the wall adjacent to the door for the NYSOEM alternate EOC. Proceed to the JIC Work Room and refer to position binder and checklist.
- C. Turn on computer/monitor, test word processing program and printer, and create new file folder on C: drive for event (label with event date)

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Continuous Responsibility/Activity (cont'd.)

- D. Locate Boilerplate News Release files in the JIC Work Room/Press Release Writer's desk or in the position binder.
- E. Obtain plant status/emergency response updates from JIC Technical Advisor.
- F. **IF** relieving another shift **THEN** perform a formal turnover for your position, including a review of the position activity log, a briefing on the emergency and actions completed or in progress.

2.7 Written Statements

- A. Written Statements should be made as soon as possible, but within a target of **one hour** of:
 1. Initial plant emergency declaration (made before JIC becomes activated).
 2. A new Emergency Classification (escalation).
 3. When plant events warrant public notification, such as
 - (1) A fatality or serious injury,
 - (2) Release of radioactivity beyond the site boundary, in quantities exceeding those allowed by regulation
 - (3) Personnel exposures to radiation exceeding limits allowed by regulation
 - (4) Emergency event termination.
- B. Development: With support from JIC Manager and Technical Advisor prepare written statement drafts using sample boilerplates and standard phraseology combined with information provided by EOF; when using sample boilerplates review all wording for accuracy and applicability.
 1. Utilize Email to review, comment, update and approve news releases. Communicate with the EOF TA as appropriate.
 2. Print draft statement without date or time for a technical accuracy review by Technical Advisor. The JIC Manager should also review statements.

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Continuous Responsibility/Activity (cont'd.)

for communications messages and to provide input, as appropriate.

3. Make changes to draft statements, as directed by reviews.

C. Technical Approval – Draft Written Statements are also reviewed by the Emergency Director for technical accuracy and approval.

D. Ensure prompt review and feedback or contact the EOF TA to facilitate.

E. Add the time/date ONLY upon approval from the Emergency Director.

1. Print final approved written statement for distribution, after adding the time and date to indicated final revision.

F. Distribution: Ensure prompt and proper (external and internal) distribution and posting of written statements.

1. Print/provide final statement to JIC Manager for internal JIC distribution and record keeping.

2. Save a copy of the final approved statement and post it to the NYS FTP Site (see FTP Site User Aid). Electronically distribute statement using the NYS FTP Site, and the EOF TA.

G. Ensure all statements are saved as PDFs in appropriate FTP site folder with current date and time.

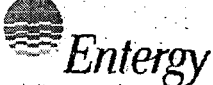
2.8 Media Briefings

A. Monitor Media Briefings, time permitting, from JIC Work Room and complete Media Briefing Issues Form (Form EP-22) if any open issues or follow-up requests are identified. Provide complete forms to JIC Manager after briefings.

3.0 Closeout Activity

3.1 Participate in debriefing and return work area to start up condition.

3.2 Provide documentation and materials to JIC Manager.

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Written Statement Content Considerations

The following information should be considered for inclusion, as applicable:

Reference Information:

- Buchanan, NY (for initial releases) and Hawthorne, NY (for JIC releases)
- Time and date of written statement (upon final approval ONLY)
- Contact for further information (duty IP Press Release Writer-name/phone number) or Media Referral

What Happened:

- Emergency description – description of the event, systems, components or security involved, etc.
- Time and date of the event
- Emergency classification, with brief description of its meaning
- Emergency Action Level (EAL), with brief description of its meaning
- Injuries/fatalities to personnel, if any
- Radiological releases, if any
- Status of unaffected unit; status of entire site

Emergency Response - What's Being Done:

- Emergency Response Organization mobilized
- Notification of off-site officials (NRC, Counties and NYSOEM, FEMA, etc.)
- In-plant actions to correct or mitigate the situation, repair equipment, investigate tampering, etc.
- Support from off-site organizations
- Off-site radiological monitoring activities
- Accountability of personnel on site, and status of non-essential personnel


Implications – What it Means:

- Current plant condition, stability
- Anticipated resolution (e.g., reactor shutdown and cool-down by [time]).
- Termination of any releases
- Measured off-site radiation levels
- Off-site protective actions (refer to state authorities)

Notes:

1. After the initial news release, subsequent releases should not repeat all of the details previously covered; in composite, however, the releases should give a complete picture

The checklist above provides suggested content; release writers use judgment with respect to content and sequence of information.

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JIC Manager Checklist

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Primary Responsibilities

Reporting to the Emergency Director, supervise and direct JIC staff, establish and maintain emergency communications strategy and key messages; ensure operation of the JIC facilitates the flow of information from the plant and emergency facilities to the news media and public; assist in the JIC staffing; direct shift and personnel changes; conduct periodic JIC Work Room briefings; manage and oversee all communications processes in the JIC Work Room; and ensure corrective actions are taken and documented to address rumors and misinformation. As appropriate; participate in JIC Unified Command to ensure coordinated JIC support services with NYS. Supervise Entergy JIC deactivation. Coordinate facility support as required with state representatives; and ensure Entergy public information is known within the remote public inquiry function locations.

1.0 Initial Responsibility/Activity

1.1 On Arrival at JIC

- A. If you have a JIC badge, proceed to the JIC. If you do not have a JIC badge, obtain a Visitor badge from HVTMC Security and request an escort to the JIC.
- B. Sign in on the JIC Staffing Form on the Registration desk and on the Entergy Sign-In Board on the wall adjacent to the door for the NYSOEM alternate EOC. Proceed to the JIC Work Room and refer to position binder and checklist.
- C. If you are the first to arrive, proceed to the JIC Work Room and turn on the computers and related equipment.
- D. Obtain status on JIC staffing and set-up activities and provide direction as necessary to complete a first shift roster.
- E. Assume title of JIC Manager and overall responsibility of Entergy JIC staff and operations. Direct the Technical Advisor to confirm the time with the EOF and synchronize all Entergy clocks, fax machines, etc. wherever applicable.
- F. Call directly or confirm that either the Company Spokesperson or Technical Advisor is establishing contact with the EOF TA to confirm JIC activity and obtain updates.

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JIC Manager Checklist

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Initial Responsibility/Activity (cont'd.)

- G. Obtain status of the initial Press Release and the status of the Press Release Writer traveling to the JIC.
 - 1. All new releases issued prior to the operation of the JIC should be available via the NYS FTP Site (see FTP Site User Aid). Make copies for direct distribution within the Entergy JIC work area as required.
 - (a) Ensure fax distribution of Entergy written statements as necessary to those designated. (Refer to the Emergency Telephone Directory for fax numbers.)
- H. Ensure all staff refers to their detailed position checklists, and support set up and operation.
 - 1. Verify completion of JIC staffing by reviewing registration sign-ins on ERO Shift Roster (JIC) (Form EP-43). Review the JIC Sign-In boards in the Work Room and complete the Sign-in board if names of available staff are not included.
 - 2. Determine no-shows, instruct available staff to fill positions if necessary. (Refer to Emergency Telephone Directory if necessary to make contacts).
 - (a) If necessary, contact JIC personnel who have not yet arrived to determine if and when they may arrive for response and shift planning purposes
- I. Entergy may declare the JIC staffed when minimum staffing has been attained, as noted below:
 - 1. NYSOEM may declare the JIC staffed when they feel that the necessary resources are available.
 - 2. Entergy coordinates with NYSOEM to declare the JIC operational as soon as it is staffed.
 - 3. However, the decision to declare the JIC operational is vested with NYSOEM.
- J. Receive any reports of rumors or misinformation and ensure Entergy public information is known within the public inquiry function.
- K. Monitor the public inquiry function for coordination of response and public inquiry actions among Entergy, the NYSOEM and Counties.

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Initial Responsibility/Activity (cont'd.)

- L. Obtain information and feedback about rumors, from Media Monitoring Coordinator and provide input to PIO Coordination Hotline.
- M. Maintain a log of all documentation resulting from event (Binders and tab sets are maintained in the file cabinet in the JIC Work Room.)

NOTE

This function can also be performed and saved electronically

1. Written statements from Entergy, State, counties
2. Copies of EAS messages
3. Essential Information Checklist (Form EP-2-ALL)
4. Plant status reports/forms
5. All original Written Statement Distribution Checklist (Form EP-25)
6. All Completed JIC Staffing Forms
7. Communications Representative documentation
8. All Entergy JIC position logs

N. Label binder with date of event


O. Ensure date stamp has correct date/time. All paperwork received should be date-stamped.

P. **IF** relieving another shift **THEN** perform a formal turnover for your position, including a review of the position activity log, a briefing on the emergency and actions completed or in progress.

2.0 Continuous Responsibility/Activity

2.1 Declare JIC Staffed and/or Operational

- A. Notify appropriate personnel that the JIC is staffed. Direct Technical Advisor to notify EOF and log time in WebEOC.
- B. When NYSOEM declares the JIC operational inform all appropriate personnel. Direct Technical Advisor to notify EOF and log time.

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JIC Manager Checklist

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Continuous Responsibility/Activity (con't)

2.2 Support JIC Operations

- A. Make shift assignments using the ERO Shift Roster (JIC) (Form EP-43). Release any individuals present not currently filling a position on the 1st shift, after assigning them to second shift
 - 1. When all positions are filled, and shift assignments have been made, provide completed shift roster to the EOF TA. If requested, ensure faxing the form to the EOF.
 - 2. Supervise Media Liaison provide assistance in completion of tasks as needed
- B. Confirm with JIC TA that all Audio-Visual systems are set up, tested, and operational.
- C. Participate in Pre-Brief meetings if requested by the Company Spokesperson to ensure coordinated support operations for JIC activities.
 - 1. Ensure hard copy distribution of all (State, Entergy and County) news releases within Entergy JIC work areas and Media Briefing area, if electronic distribution is not available.
 - 2. Maintain contact with and provide direction to Media Liaison for pre-brief meetings and discussions.
- D. IF electronic distribution is not available THEN ensure proper distribution of written materials using the Information Distribution Guide (Form EP-26). In some cases, there may only be an original, so ensure a copy is returned to the owner before continuing duplication and distribution to others.
 - 1. Receive notice of impending State and County news release issuance from the Company Spokesperson, and print for distribution in Entergy work areas, and for record keeping.
 - 2. Work with NYSOEM Support Staff to ensure proper distribution in Entergy JIC work areas.
- E. Maintain operational condition in Entergy work areas, and coordinate with NYSOEM lead support person or Company Spokesperson on facility operations issues to ensure smooth functioning of equipment and the facility itself.

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JIC Manager Checklist


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Continuous Responsibility/Activity (con't)

- F. Coordinate with NYSOEM/New York State Police (NYSP) on arrangements for food service (and lodging if necessary). Contact the EOF TA for assistance if necessary.
- G. Arrange for first aid or emergency care if required, in coordination with NYSOEM/NYSP representatives.
- H. Maintain a completed Onsite ERO Shift Roster (JIC) (Form EP-43) to for each shift for permanent log keeping.
- I. Inform NYSP of next media briefing time so they can institute access controls for the area.

2.3 Command, Control and Operations

- A. Establish and maintain command and control over the Entergy JIC operations.
- B. Log Work Room briefing times, scheduled pre-briefing and Media Briefing times, and communications strategy/priorities.
- C. Review plant status reports, written statements, news releases, EAS messages and other related information as it becomes available and provide comments where appropriate.
- D. Formulate crisis communications strategy and priorities (along with Company Spokesperson). Maintain the strategy, priorities and key messages, ensuring they are included in the written statements and talking points for Media Briefings by the Company Spokesperson.
 - 1. Upon arrival of Press Release Writer, direct that key messages and crisis communications strategy be included in written statements and media briefing talking points.
- E. Conduct periodic briefings with Entergy Staff keeping them apprised of changing events, JIC priorities and other important information.
- F. Participate in Pre-Brief meetings if requested.

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JIC Manager Checklist

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Continuous Responsibility/Activity (cont'd.)

- G. Ensure the coordination of information and timely, accurate communications flow within/out of the JIC Work Room, among JIC staff and especially to the media.
- H. Direct appropriate rest periods and shift changes for Entergy personnel. Arrange second shift staff assignments and advise the EOF TA upon completion of a second shift roster. Ensure an overlapping transition period is established to allow incoming personnel to become familiar with the status of the situation, information and/or planned activities.



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JIC Manager Checklist


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Continuous Responsibility/Activity (cont'd.)

- I. Release second shift personnel from JIC, after second shift assignment is made and they are informed of their assignments/reporting time. (It is not necessary to keep personnel until the shift roster is complete)
- J. Receive information from the Company Spokesperson and Media Monitoring on needed corrective actions to address rumors, incorrect information or news reports identified by those functions. Assign Entergy-related corrective actions to JIC staff and log completion of the corrective actions.

2.4 Written Statements

- A. Monitor the development of written statements to ensure the process functions smoothly, ensuring appropriate timing/scheduling of written statements, appropriate communications focus and orientation, and facilitating timely approval and distribution.
 - 1. Coordinate with the TA to obtain up to date and accurate information.
- B. Review written statements as required to provide communications input.
- C. Ensure Press Release Writer makes revisions as necessary based on input, and ensure proper distribution within the JIC and support immediate copy/access needs.
- D. Ensure prompt technical review and concurrence of draft written statements by Emergency Director (working through the Press Release Writer and Technical Advisor).
- E. Ensure final written statements are distributed.

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JIC Manager Checklist

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Continuous Responsibility/Activity (cont'd.)

2.5 Pre-Briefing/Media Briefings

- A. Assist Company Spokesperson, as needed, to compile Media Briefing talking points and key messages. Each briefing should focus on three areas of information: **what happened; what we're doing about it; and what it means.**
- B. Ensure the State PIO is promptly advised of requests for Pre-Briefings and Media Briefings.
- C. Ensure Technical Advisor updates the Company Spokesperson on plant and JIC Work Room activities during his/her absence for Media Briefings or other activities.
- D. Monitor Media Briefings for salient content points, for follow-up and unanswered questions. Ensure the JIC Technical, Media Monitoring, and Media Liaison are available, document open items on a Media Briefing Issues Form (Form EP-22).
- E. Ensure a prompt and short critique is conducted after each Media Briefing to provide input and cover issues for the Company Spokesperson.
- F. Review media questions collected at the conclusion of the media briefings to assist in preparing notes for future Media Briefings, in preparing the Company Spokesperson and for inclusion in written statements, if appropriate.
- G. If events change during Media Briefings (e.g. classification change or radiation release underway), ensure a message is relayed to the State PIO to end the briefing.
- H. In absence of NYSOEM PIO Hotline Coordinator, help coordinate among Company Spokesperson, County representatives (and State remotely) planned information for release, inconsistencies and concerns.
- I. Monitor Media Briefings to maintain current on status and the communications response actions of the counties, state and Entergy.
 - 1. Advise NYSOEM PI Coordinator of information to share with public inquiry function on PIO Hotline.
 - 2. Identify any open questions or unresolved issues from Media Briefings and follow up for resolution statements and/or actions to forward to NYSOEM PIO Coordinator. The Media Briefing Issues Form (Form EP-22), also available on WebEOC, may be used to assist with this.

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JIC Manager Checklist

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Continuous Responsibility/Activity (cont'd.)

2.6 Recovery Support Activities

- A. Receive request from the Emergency Director to assist in developing a Recovery Plan Outline in accordance with EN-EP-613, "Recovery from a Declared Emergency", including identifying Issues/Strategies and determining the JIC Recovery Organization staffing requirements. Coordinate this activity with the Company Spokesperson.
- B. Receive verification and concurrence of written statements from the Recovery Manager. The Recovery Manager will continue verification and technical concurrence of information released by the Company Spokesperson that pertains to recovery activities from the accident.
- C. Ensure the Company Spokesperson provides a final Media Briefing on the emergency and recovery operations, prior to the Recovery Manager terminating the recovery phase.

2.7 Maintain Documenter Log

- A. Using WebEOC, log the following key items:
 - 1. Log notification of key events (Emergency Classification changes, shift changes and attendance, decisions/actions of JIC Manager), time logs of operations (change in command, shift changes, times of pre-briefings, Media Briefing start and end times), and receipt of key information.
 - 2. Document the time at which information was learned or action was taken, in addition to the time of the event or change.
- B. Using Crestron, activate WebEOC projectors and Media Briefings for viewing within the JIC Work Room. (Note: Use the one-page user aid with top header "To Display a Briefing Session".)
- C. Typical display on projectors: facility logs, NYS FTP Site (see FTP Site User Aid) (must keep refreshing website) and Media/Public Inquiry screen.
- D. Work with JIC Manager to maintain JIC Work Room status/display boards noting Work Room briefing times, scheduled pre-briefing and Media Briefing times, communications strategy/priorities and key messages.
- E. Work with the Technical Advisor to maintain a time log and the plant/response status/display boards for JIC Work Room noting the major plant events and response actions being taken.



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Continuous Responsibility/Activity (cont'd.)

1. Include any Emergency Classification Level (ECL) change, and official declaration time.

F. Receive notification from the JIC Manager or other Entergy JIC staff when rumors or misinformation are identified, and when corrective actions are complete. Ensure included on the logs and/or displays.

2.8 Document/Maintain Record of Written Statements

A. Keep a time log of when news releases or other written statements need to be issued, as soon as possible and within one (1) hour of learning of a change in emergency classification. Monitor preparation time; periodically advise JIC Manager and Press Release Writer of time remaining to issue statements.

B. Log all Entergy final approved news releases.

C. Log copy of every news release issued by the state and counties.

1. Receive notice of impending state and county news release issuance from Inquiry Response Coordinator.

2. Print news releases and notify Admin & Logistics Coordinator (to ensure internal JIC distribution is accomplished).

3. Maintain copies in Log Book.

2.9 Pre-Briefings and Media Briefings

A. Log time for every departure/return from Pre-Briefing.

B. Log start and end time of Media Briefings and participants

C. Log return time from Media Briefing to JIC Work Room

2.10 Shift Information

A. Log every shift change and time of change, including personnel attendance sheets and registration logs.

3.0 Closeout Activity

A. Terminate JIC operations after a joint decision is reached by Entergy, New York State and the counties' chief elected officials.


B. Direct JIC personnel to return all equipment to proper storage locations and provide necessary JIC documentation for packaging

C. Conduct facility de-briefing

D. Review all JIC documentation to verify that logs, forms and other documentation are complete

E. Provide all documentation to the Emergency Planning Manager

F. Return work area to startup condition before departing facility

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Company Spokesperson Checklist

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Primary Responsibilities

Working with the JIC Manager, and Emergency Director, coordinate all outgoing information from the JIC and serve as primary source of plant information on public health and safety; review incoming plant/event information from EOF (via Technical Advisor), review written statements, obtaining technical concurrence from the ED; develop talking points for Media Briefings including key messages; participate in pre-briefings with state and county PIOs; serve as Company Spokesperson at Media Briefings responding to media questions; ensure follow up and closure of open questions/correction of rumors and misinformation; receive information on county communications plans and forward to the JIC Manager, as appropriate; ensure Pre-Briefing and Media Briefing times are clear to county PIOs.

1.0 Initial Responsibility/Activity

1.1 On Arrival at JIC

- A. If you have a JIC badge, proceed to the JIC. If you do not have a JIC badge, obtain a Visitor badge from HVTMC Security and request an escort to the JIC.
- B. Sign in on the JIC Staffing Form on the Registration desk and on the Entergy Sign-In Board on the wall adjacent to the door for the NYSOEM alternate EOC. Proceed to the JIC Work Room and refer to position binder and checklist.
- C. If you are the first to arrive, proceed to the JIC Work Room and turn on the computers and related equipment.
- D. Confer on plant events with JIC Staff or establish contact with the EOF directly if not yet done. Obtain update(s) on plant activity from JIC Technical Advisor directly or from the EOF TA and/or Emergency Director.
- E. Begin formulating crisis communications strategy and priorities (along with JIC Manager, if present).
- F. **IF** relieving another shift **THEN** perform a formal turnover for your position, including a review of the position activity log and other documentation, a detailed briefing on the emergency status and response, and actions completed, planned or in progress.

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Company Spokesperson Checklist

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2.0 Continuous Responsibility/Activity

2.1 Key Communications Activities


- A. Review plant status reports, information sheets, state/county news releases, EAS messages and other information as it becomes available.
- B. Confer with JIC Staff and coordinate on Media Briefing talking points, key messages, outstanding information requests and needed clarifications, and other communications points, as appropriate.
- C. Work with the JIC Staff to establish and periodically review JIC Communications Strategies and Key Messages for the communications response. Ensure media briefings and news releases reflect the latest key messages and support the strategy.
- D. Participate in Pre-Brief meetings/discussions with needed JIC Staff, NYS and the Counties to ensure coordinated information sharing and dissemination plans.

2.2 Written Statements

- A. Review and provide input to the Press Release Writer on all Written Statements generated at the JIC. The Press Release Writer will obtain final approval, via the EOF Technical Advisor for news releases from the Emergency Director.
 - 1. As necessary, request the JIC Manager and/or Technical Advisor to review written draft statements and provide comments.
- B. If timely technical review cannot be completed, the Company Spokesperson can approve news releases with approval from the Emergency Director/designee.
- C. Notify JIC Manager of any impending county news releases issuance or planned EAS messages and timing of EAS broadcast.

2.3 Preparations for Media Briefings

- A. Define information to be presented at Media Briefing by creating JIC Briefing Summary/Talking Points (Form EP-35). Obtain input from JIC Staff on key messages and support for preparations.
 - 1. Compile talking points and key messages.

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Continuous Responsibility/Activity (cont'd.)

2. Each briefing should focus on three areas of information: **what happened, what we're doing about it, and what it means** (see Attachment 9.3, Media Briefing Content Guide, Sheet 5 of 5)
3. In preparing Talking Points, ensure unanswered questions, inconsistencies, inaccuracies are noted from previous briefings.
- B. Review and select graphics for briefings request graphics and other visual aids for Media Briefings.
- C. Inform Media Liaison of time of next Media Briefing.
- D. Review Media Briefing information with JIC Staff prior to pre-briefings, and coordinate on approach or strategy for briefing.
- E. Participate in Pre-Briefings with NYSOEM and the counties. Provide Entergy information to NYSOEM and counties, resolve inconsistencies/concerns/rumors, review briefing protocol and order of speakers.
 1. Public safety and protective action information will take priority.
 2. The State PIO takes the lead and NYSOEM Media Room Moderator facilitates coordination.

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Company Spokesperson Checklist

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Continuous Responsibility/Activity (cont'd.)

2.3 Media Briefings and Interviews

- A. NYSOEM, Counties or Entergy can call for a Media Briefing as significant events occur, or critical information becomes available. JIC Media Briefings are usually scheduled within 60 minutes of classification changes, major events or significant actions by Entergy, state or counties. Coordinate with NYSOEM PIO and JIC Staff on establishing Media Briefing times.
- B. NYSOEM Media Room Moderator opens Media Briefings by making introductory remarks and establishing the process and ground rules. Upon instruction by Moderator, conduct briefing using prepared Taking Points and visuals. Respond to questions as directed by Media Room Moderator.
- C. As appropriate and requested, remain in media briefing area to conduct one-on-one or small group interviews regarding Entergy's response. Limit the amount of time devoted to these to allow time to return to the work area for updated information.
 - 1. Ensure Entergy's Media Liaison is available to document notes of the interactions, and any follow up requests.
 - 2. Advise the JIC Manager (and NYSOEM PIO during next Pre-Briefing meeting, as appropriate) of the activity and results.
- D. Upon return to JIC Work Room, receive feedback on media briefing. Obtain plant update from JIC Staff. Review open items and other issues from briefing and determine appropriate actions to complete follow-up.

2.3 Recovery Support Activities

- A. Receive request from the Emergency Director to assist in developing a Recovery Action Outline in accordance with EN-EP-613, "Recovery from a Declared Emergency", including identifying Issues/Strategies and determining the JIC Recovery Organization staffing requirements. Coordinate this activity with the JIC Manager.

3.0 Closeout Activity

- 3.1 Participate in debriefing and return work area to start up condition.
- 3.2 Provide documentation and materials to JIC Manager.



Attachment 9.3

Company Spokesperson Checklist

Sheet 5 of 5

Media Briefing Content Guide

WHAT Happened?


[Include in this section information about events causing the emergency declaration, major equipment problems, injuries to personnel, radiological releases, security event, etc.]

What are we DOING about it?

[Include here the actions being taken to deal with the emergency, including ERO activation, repairs to equipment, engagement of offsite support, and radiation surveys]

What does it MEAN??

[Discuss here the implications of the emergency, including effectiveness of protective measures, recovery expectations and off-site effects, if any.]

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Technical Advisor Checklist

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Primary Responsibilities

Reporting to JIC Manager, establish and maintain contact/information exchange with the EOF (via the EOF TA); provide technical expertise to support understanding of events; advise Company Spokesperson, JIC Manager, and Press Release Writer on plant events; support development/review of written statement technical accuracy; maintain log of events and information received; and monitor Media Briefings to document issues and unanswered questions.

1.0 Initial Responsibility/Activity

1.1 On Arrival at JIC

- A. If you have a JIC badge, proceed to the JIC. If you do not have a JIC badge, obtain a Visitor badge from HVTMC Security and request an escort to the JIC.
- B. Sign in on the JIC Staffing Form on the Registration desk and on the Entergy Sign-In Board on the wall adjacent to the door for the NYSOEM alternate EOC. Proceed to the JIC Work Room and refer to position binder and checklist.
- C. If you are the first to arrive, proceed to the JIC Work Room and turn on the computers and related equipment.
- D. Establish contact with the EOF via the EOF TA and establish official time from EOF advise JIC Manager. Utilize the JIC Coordination Bridge to facilitate communications with the EOF TA.
- E. Establish whether the EOF TA has been in contact with the Press Release Writer and coordinate the status of news releases.
- F. IF relieving another shift THEN perform a formal turnover for your position, including a review of the position activity log and other documentation, a detailed briefing on the emergency and response actions, and activities completed, planned or in progress.

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Technical Advisor Checklist

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2.0 Continuous Responsibility/Activity

2.1 Gather Information

- A. Review plant status reports electronically, online (via, MRPDAS, EDDS/PICS) and by fax as a backup including 31(a, b, c) and 42(a, b, c) forms, Radiological Emergency Data forms (Parts 1, 2), Essential Information Checklist (Form EP-9), plant data systems and other information on events and response actions as it becomes available. Advise Company Spokesperson, JIC Manager and Press Release Writer in any change.
- B. Gather information as required to support Company Spokesperson and Press Release Writer to develop materials for dissemination (refer to Information Gathering Checklist below for guidance sheet 5 of 5).
- C. Establish and maintain contact with the EOF TA to obtain updated information both verbally and electronically using Essential Information Checklist (Form EP-9) via WebEOC. Print and provide forms to JIC Manager for further distribution in the JIC.
- D. Request information from the EOF TA, and as necessary use available references in the JIC and electronically, including Emergency Action Level Reference Manual, glossary of technical terms, technical plant references in JIC (technical specifications manuals, online links to IP2/IP3 FSARs, etc.), and plant parameters.
- E. Ensure plant status information is properly and promptly documented. Also maintain an emergency response log of your actions, and important decisions or actions.
- F. Confirm ED and JIC Manager talk on routine basis for information consistency.
- G. Advise Company Spokesperson as appropriate on radiological consequences/aspects, including Cross Valley Effect, if applicable, impacts and layman's descriptions.
- H. As needed, contact the EOF TA for information and/or clarification.

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Continuous Responsibility/Activity (cont'd.)

2.2 Written Statements

- A. Provide new information and needed descriptions to the Press Release Writer to support written statement development.
- B. Review and provide to Press Release Writer technical comments on written statements.
- C. Review and provide technical comments on written statements on radiological implications of plant events, including Cross Valley Effect, if applicable, as requested.

2.3 Pre-Briefings


- A. Advise Company Spokesperson and JIC Manager on plant events and assist Company Spokesperson in preparing Talking Points as needed.
- B. Advise Company Spokesperson and Technical Advisor on radiological implications of plant events, including Cross Valley Effect, if applicable.
- C. Assist Company Spokesperson to compile Talking Points and graphics for Media Briefings as needed.

2.4 Media Briefings

- A. Support Company Spokesperson to obtain needed information to answer questions and open issues from Media Briefings.
- B. Monitor Media Briefings from JIC Work Room and complete Media Briefing Issues Form (Form EP-22) if any open issues or follow-up requests are identified. Provide completed forms to JIC Manager after briefings.
- C. After Media Briefings, promptly update Company Spokesperson on events and status changes during the briefing.
- D. Ensure unanswered radiological questions or inaccuracies are addressed during preparation of next Media Briefing.

2.5 Post Briefing

- A. Provide feedback on Media Briefings to JIC Manager and Company Spokesperson.

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Continuous Responsibility/Activity (cont'd.)

- B. Assist in addressing inaccuracies, inconsistencies and unanswered questions as needed to prepare for subsequent media briefings or news releases.

3.0 Closeout Activity

- 3.1 Participate in debriefing and return work area to start up condition.
- 3.2 Provide documentation and materials to JIC Manager.



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Technical Advisor Checklist

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INFORMATION GATHERING CHECKLIST

1. What happened?
 - a. Which unit was affected and what is the status of the non-affected unit?
 - b. Plant status or potential to affect plant status?
 - c. Release of radiation or potential for release?
 - d. Is radiation release above or below tech specs?
 - e. Injuries/contamination?
 - f. Leakage or spills?
 - g. Toxic/hazardous material?
 - h. Safety significance?
 - i. Security significance.
2. When did it happen – specific time, has it ended?
3. Why did it happen – equipment failure, weather conditions, etc.?
4. What is being done – to respond, repair, mitigate or prevent it from happening again?
5. Who was involved/responsible - potential information sources?
6. Has all staff been accounted for? Are there injuries? What is the status of non-essential personnel?
7. What are the current weather conditions?

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Media Liaison Checklist

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Primary Responsibilities

Reporting to the JIC Manager and working with JIC TA, support setup of Media Briefing area; coordinate with NYS Media Room Moderator, act as the interface for media present at JIC; identify and arrange for media needs, as appropriate if available; support audio-video personnel during Media Briefings, as needed; support Company Spokesperson with one-on-one or small group interviews by documenting statements and questions; and prepare/maintain media materials and media kits for media present in JIC.

1.0 Initial Responsibility/Activity

1.1 On Arrival at JIC

- A. If you have a JIC badge, proceed to the JIC. If you do not have a JIC badge, obtain a Visitor badge from HVTMC Security and request an escort to the JIC.
- B. Sign in on the JIC Staffing Form on the Registration desk and on the Entergy Sign-In Board on the wall adjacent to the door for the NYSOEM alternate EOC. Proceed to the JIC Work Room and refer to position binder and checklist.
- C. If you are the first to arrive, proceed to the JIC Work Room and turn on the computers and related equipment.
- D. Proceed to Media Briefing Area in building lobby or Clerestory Room; if present locate NYSOEM Media Liaison to coordinate, for set up.
 1. In coordination with NYSOEM Media Liaison, prepare and set out Media Kits, Emergency Planning booklets located in storage room in work areas and any news releases.
- E. Assist, as needed, with set up of Media Briefing Area in either the lobby or the third floor Clerestory Room.
- F. **IF** relieving another shift **THEN** perform a formal turnover for your position, including a review of the position activity log, a briefing on the emergency and actions completed or in progress.

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Media Liaison Checklist

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2.0 Continuous Responsibility/Activity

2.1 Media Room Activities

- A. Act as liaison to the media regarding process for gathering/obtaining information.
- B. Interact with the news media at the JIC to determine and respond to their need for background information and support services. Do NOT comment on the emergency or provide opinions or explanations.
- C. Maintain supply of news releases, media kits and other appropriate materials for the media present in the JIC. Coordinate with NYSOEM Media Liaison for proper number of copies or to obtain materials.
- D. Provide assistance by advising reporters of past media briefings and distributing copies of available information.
- E. Coordinate requests for copies of photos (CDs available) with the JIC TA and/or NYSOEM Media Moderator. Coordinate other requests with the NYSOEM Media Moderator.
- F. Participate in or be available on headsets for pre-brief meeting, discussions or as instructed by the JIC TA.

2.2 Media Briefings and Interviews

- A. Support Media Briefings, as requested by the NYSOEM Media Moderator and/or Audio-Visual Graphics Support, to capture questions by the media or for other support as requested.
- B. Support the Company Spokesperson in the conduct of any one-on-one or small group interviews regarding Entergy's response following formal Media Briefings.
 - 1. Document notes of the interactions and any follow up any request on Media Briefing Issues Form (Form EP-22). Ensure any rumors are also documented and provided to the Company Spokesperson.

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Media Liaison Checklist


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Continuous Responsibility/Activity (cont'd.)

- C. Provide support of media before, during and after Media Briefings, and provide special requests or needs to NYSOEM Media Room Moderator for resolution.
- D. Use the ERO Log Sheet (Form EP-10) or Media Briefing Issues Form (Form EP-22) in the position binder to document requests from the media, interviews supported and other major activities and provide these to the Company Spokesperson.

3.0 Closeout Activity

- 3.1 Participate in debriefing and return work area to start up condition.
- 3.2 Provide documentation and materials to JIC Manager.

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**JIC Technical Advisor Supporting
Audio Visual Coordination Checklist**

Sheet 1 of 2

Primary Responsibilities

Reporting to the JIC Manager, in conjunction with the NYS Audio Visual Coordinator, perform and/or assist with all audiovisual tasks (set-up, test, connect, operate, record, upload/distribute) for Media Briefings; ensure audio, visual and other graphics support needs/requests of Company Spokesperson are met.


1.0 Initial Responsibility/Activity

1.1 On Arrival at JIC

A. If present, work with the NYSOEM Audio-Video Coordinator to set up and test equipment: (Refer to A/V Coordinator Setup Instructions in JIC Audio Visual Control Room for detailed equipment instructions).

If NOT already done:

1. Check all audio-visual equipment in the JIC to be sure it is ready to connect, record and playback. Test and ensure display monitors are functioning throughout the JIC work area.
 - a. Ensure PIO Command Room, JIC Work Room, NYSOEM Alternate EOC are functioning. Initialize PIO Command Room if not done by NYS.
 - b. Start up Graphics computer.
2. Set-up and test sound system in Media Briefing Area.
3. Set up computer and Audio-Visual Projection Equipment for use to support graphics and visual requirements.
4. Work with NYSOEM Audio Visual Coordinator to set up Audio Video connection system for Counties and set up and test the speakerphone capability for use at the podium if needed

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**JIC Technical Advisor Supporting
Audio Visual Coordination Checklist**

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2.0 Continuous Responsibility/Activity

2.1 Media Briefings

- A. Interface with Company Spokesperson to determine and provide graphics and other visual aid requirements for Media Briefings. Participate in Pre-Briefings as appropriate.
- B. Prior to Media Briefing, ensure graphics and visual aids are ready.
- C. Ensure microphone for Company Spokesperson is ready and connected.
- D. Provide support during Media Briefings (If requested and/or needed by NYSOEM Audio Visual Coordinator):
 - 1. Initiate video conference calls for pre-briefings, transfer control to lobby or Clerestory Room for media briefings. At end of media briefing transfer control back to PIO Command Room.
 - 2. Route Media Briefings to JIC Work Room and NYSOEM Alternate EOC.
 - 3. Link and manage visual and graphic inputs for Spokespeople during Media Briefing.
 - 4. Display graphics in Media Briefing area before, during and after Media Briefings.
 - 5. Ensure Media Briefings are recorded.

3.0 Closeout Activity

- 3.1 Document Audio Visual system problems for resolution.
- 3.2 Participate in debriefing and return work area to start up condition.
 - A. Dismantle Media Briefing Area and shutdown all Audio-Visual systems.
- 3.3 Provide a copy of all briefing DVDs to the JIC Manager for the JIC DVD storage library container.

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Attachment 9.7

Media Liaison As

Audio Visual Graphics Support Checklist

Sheet 1 of 4

Primary Responsibilities


Reporting to the JIC TA, perform all Audio-Visual Graphics support tasks to ensure Company Spokesperson has needed visuals for Media Briefings, and information dissemination; and provide video and/or graphics support for Media Briefings, as needed.

1.0 Initial Responsibility/Activity

1.1 On Arrival at JIC

A. **IF** not already done, **THEN** work with the JIC TA to:

1. Check all audio-visual equipment in the JIC to be sure it is ready to connect, record and playback. Test and ensure display monitors are functioning throughout the JIC work area.
 - a. Initialize PIO Command Room, JIC Work Room, NYSOEM EOC.
 - b. Startup Graphics computer.
2. Set-up and test microphones, sound system in Media Briefing Area, intercom system for JIC staff
3. Set up computer and projection equipment for use to support graphics and visual requirements
4. Set up Audio Video connection system for counties and set up and test the speakerphone capability for use on the podium, if needed.
5. If needed, change projector bulbs.
 - a. Spare bulbs are located in the Audio-Visual Master Control Room
 - b. Audio Visual ladder is located in JIC/NYSOEM area or obtain one from building maintenance
 - c. Unplug projector, unscrew the thumb screws, remove the plate and open the trap.
 - d. Remove old bulb and insert new bulb.
 - e. Close trap, replace plate, tighten thumb screws and plug in projector.

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Attachment 9.7

Media Liaison As


Audio Visual Graphics Support Checklist

Sheet 2 of 4

2.0 Continuous Responsibility/Activity

2.1 Entergy Graphics and Visuals

- A. Graphics and Photos are located on the Graphics Computer. A USB Drive is available as a backup containing the graphics and photos.
- B. Entergy graphics and other resources for possible use during a response include:
 - 1. Schematics of the nuclear power facility
 - 2. Plant Status Boards
 - 3. Graphics and approved photographs located on the Graphics Computer (maintained in Audio Visual Control Room), and available in printed version (some duplication may be required)
- C. Work with NYS Media Room Moderator to establish needs for schematics/graphics/slides selected by Company Spokesperson for use during Media Briefings.
- D. Remind Company Spokesperson of graphics and system drawing book available in JIC Work Room.
- E. Prepare graphics and visuals in advance of Media Briefing times, and coordinate with JIC TA on integration and linkage to Media Briefing Audio Visual System before briefings begin.
 - 1. Using Windows Explorer, arrange graphic and photo presentation and other visuals for Company Spokesperson.

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Attachment 9.7

Media Liaison As


Audio Visual Graphics Support Checklist

Sheet 3 of 4

Continuous Responsibility/Activity (cont'd.)

2.2 Media Briefing

- A. Coordinate with JIC TA during briefing to ensure proper audio-video support.
1. Attend media pre-briefings to obtain input for graphics from Company Spokesperson and State PIO.
 2. Arrange and operate the computer system in connections with the Media Briefing Audio Visual System, as required, to select/project graphics.
 3. Provide Audio Visual support during media briefings to ensure transfer of VTC, audio mute on/off, camera pre-sets, mult-box is functional.
 4. Communicate with Audio Visual Master Control Room via intercom for instructions.
 5. Record Media Briefings.
 6. If events change during a media briefing, receive instructions via intercom from the JIC Manager or Admin & Logistics Coordinator/designee to relay message to State Moderator or Company Spokesperson to end the briefing.

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Media Liaison As

Audio Visual Graphics Support Checklist

Sheet 4 of 4

3.0 Closeout Activity

3.1 Restore Audio Visual Equipment to safe/stable/ready position

A. Working with the NYSOEM and Entergy Audio Visual Coordinators, close down and return all equipment to its original condition, being careful to follow posted sequences and processes. Refer to the JIC A/V Training/Procedure Manual located in the Audio-Visual Control Room for shutdown operations.


B. Close all open graphics on the computer and shut down the computer.

C. Return all equipment to its stored location.

3.2 Participate in debriefing and return work area to start up condition.

3.3 Provide a log and any notes to the JIC Manager.

3.4 Prepare any CDs/DVDs or other media as needed.

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Attachment 9.8

Media Monitoring Checklist

Sheet 1 of 2


Primary Responsibilities

Under the direction of the JIC Manager and in conjunction with the NYS Media Monitoring Coordinator, monitor news (TV, Radio, internet) reports for accuracy; review newspaper and other publications for accuracy, as appropriate; coordinate with the NYS Media Monitoring staff on monitoring activities; report any inaccuracies or rumors to the JIC Manager. Serve as the Public Information Liaison with State and County Public Information Officers (PIOs) via the PIO Coordination Line.

1.0 Initial Responsibility/Activity

1.1 On Arrival at JIC

- A. If you have a JIC badge, proceed to the JIC. If you do not have a JIC badge, obtain a Visitor badge from HVTMC Security and request an escort to the JIC.
- B. Sign in on JIC Staffing Form on Registration desk and on the Entergy Sign-In Board on the wall adjacent to the door for the NYSOEM alternate EOC. Proceed to the JIC Work Room and refer to position binder and checklist.
- C. If you are the first to arrive, proceed to the JIC Work Room and turn on the computers and related equipment.
- D. Go to the Media Monitoring Area. Coordinate assignments with NYSOEM Media Monitoring Coordinator, if present, to provide coverage of appropriate radio & television stations and internet.
- E. Turn on computer and other equipment for working order, date, and time - report any equipment problems to NYSOEM or JIC Manager for resolution.
- F. Coordinate with JIC TA to record any special news/media events.
- G. Obtain and review official information on plant event (news releases, Essential Information Checklists and EAS Messages).
- H. **IF** relieving another shift **THEN** perform a formal turnover for your position, including a review of the position activity log, a briefing on the emergency and actions completed or in progress.
- I. Establish contact with NYSOEM PIO and County PIOs via the PIO Coordination Line and monitor/maintain understanding of NYSOEM/County status. Update JIC Manager on actions of each.
- J. Prior to arrival of NYSOEM representatives, monitor/participate on the PIO Coordination Line.

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Attachment 9.8

Media Monitoring Checklist

Sheet 2 of 2

2.0 Continuous Responsibility/Activity

2.1 Monitor Media Content on Event

- A. Remain up-to-date with official information (via NYS FTP Site – see FTP Site User Aid, WebEOC, review of media briefings, etc.) provided to the media as it becomes available, through written statements such as news releases and EAS messages or other official information.
- B. Monitor Media for inaccuracies and rumors
 - 1. Monitor media for rumors and inaccuracies regarding the event. Log rumors and inaccuracies and provide to JIC Manager to review inaccuracies and determine appropriate resolution/correction.
 - 2. Monitor media web sites for inaccuracies (**see computer/Internet Explorer bookmarks for web sites to view**). Print stories as necessary to document errors, or for later viewing.
- C. Maintain log of rumors and inaccuracies, including date, time, channel/station/website aired on and content/issues using WebEOC and/or Media Monitoring Form (Form EP-27).
- D. Notify the JIC Manager for rumors and inaccuracies.

2.3 Keep JIC Manager Updated

- A. Serve as Entergy information liaison with county public information officers (PIOs) via the PIO Coordination Hotline. Monitor county actions and discussions via PIO Coordination Hotline.
 Coordinate, and monitor/maintain understanding of NYSOEM/county public information status.
 - 1. Receive information on county communications plans and forward to the JIC Manager, as appropriate.
 - 2. Update JIC Manager on actions of each county and state.
 - 3. Provide input to PIO Coordination Hotline on Entergy actions (planned news release distribution, requested media briefing, etc.) and latest information.
 - 4. Inform JIC Manager of impending State and County news release issuance so they can print a copy for distribution in Entergy work areas, and for record keeping.
 - 5. Notify JIC Manager of rumors/inaccurate information and log into WebEOC.

3.0 Closeout Activity

- 3.1 Participate in debriefing and return work area to start up condition.



Entergy

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Attachment 9.9

JIC Driving Directions & Floor Plans

Sheet 1 of 4

From Indian Point

Take Rt-9 South.

Stay left onto Rt-9A South/Briarcliff

Continue to follow Rt. 9A South.

Take Rt. 141/Rt.100 exit for Sprain Brook Parkway and White Plains

After exiting, stay to right on Rt. 100.

Turn left onto Chateau Lane. (Signs posted for NY State Police and Hudson Valley Transportation Management Center (HVTMC).

Stay to the right, and park in visitor parking area.

From the West

Take I-287 East over the Mario Cuomo Bridge.

Stay to the right after crossing the bridge.

Take exit 8A, Saw Mill River Parkway North.

Take the Saw Mill Parkway north to exit #23.

Take exit #23, Eastview and head East on Saw Mill Road until you come to 100C.

Proceed East on 100C until you come to the first major intersection which should be Bradhurst Avenue.

At the light, (Bradhurst Ave.), turn left onto Bradhurst Ave. and continue until you see the sign for "State Police and the Hudson Valley Transportation Management Center" (HVTMC).

Turn right (Chateau Lane) and go down the hill staying to the right.

Park in the visitor parking area.

From the East

Take I-287 West towards Mario Cuomo Bridge.

Take Exit 3, Sprain Brook Parkway toward New York City/Taconic Parkway

Merge onto Sprain Brook Parkway North via the exit on the left.

Take the exit Rte. 100N/Hawthorne

Turn right onto Bradhurst entrance north / CR-301

Continue until you see the sign for "State Police and the Hudson Valley Transportation Management Center" (HVTMC).

Turn right (Chateau Lane) and go down the hill staying to the right.

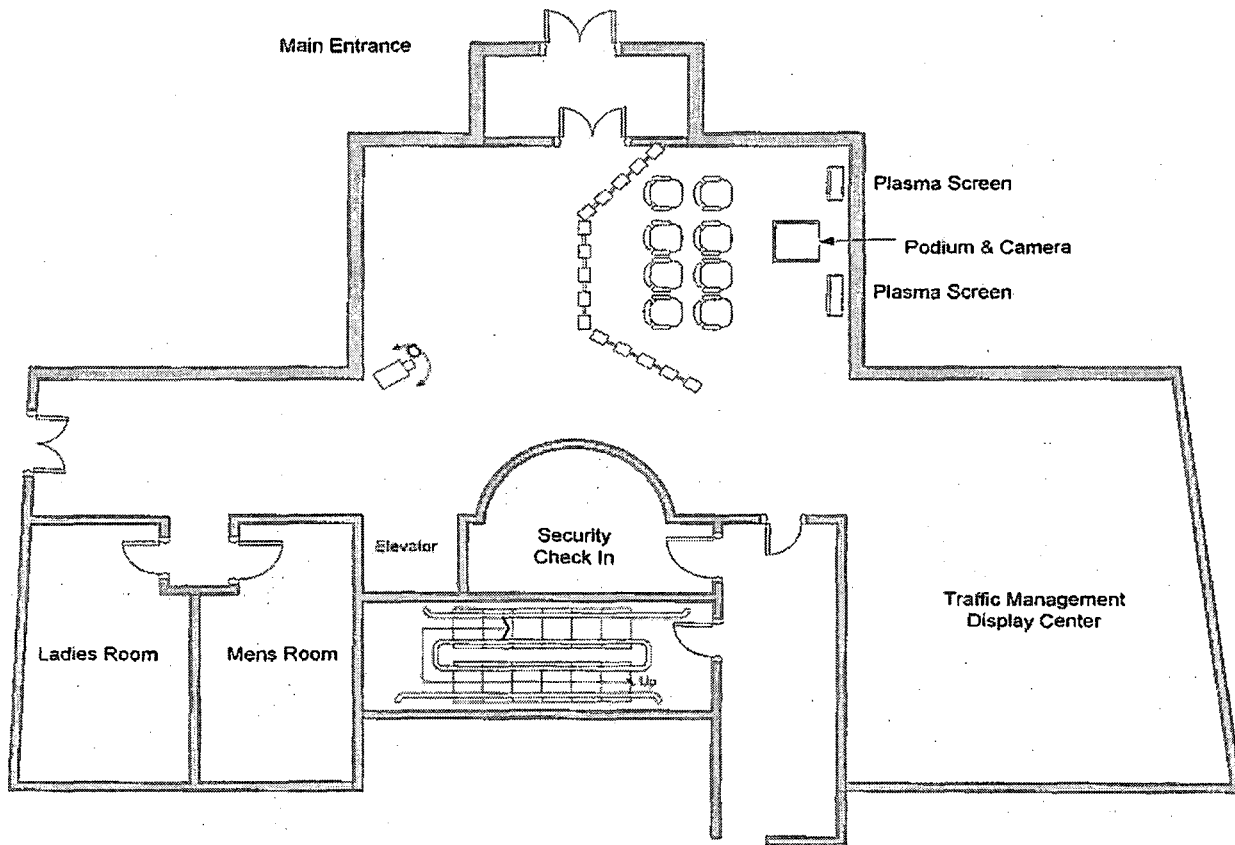
Park in the visitor parking area.



Attachment 9.9

JIC Driving Directions & Floor Plans

Sheet 2 of 4



Media Briefing Room

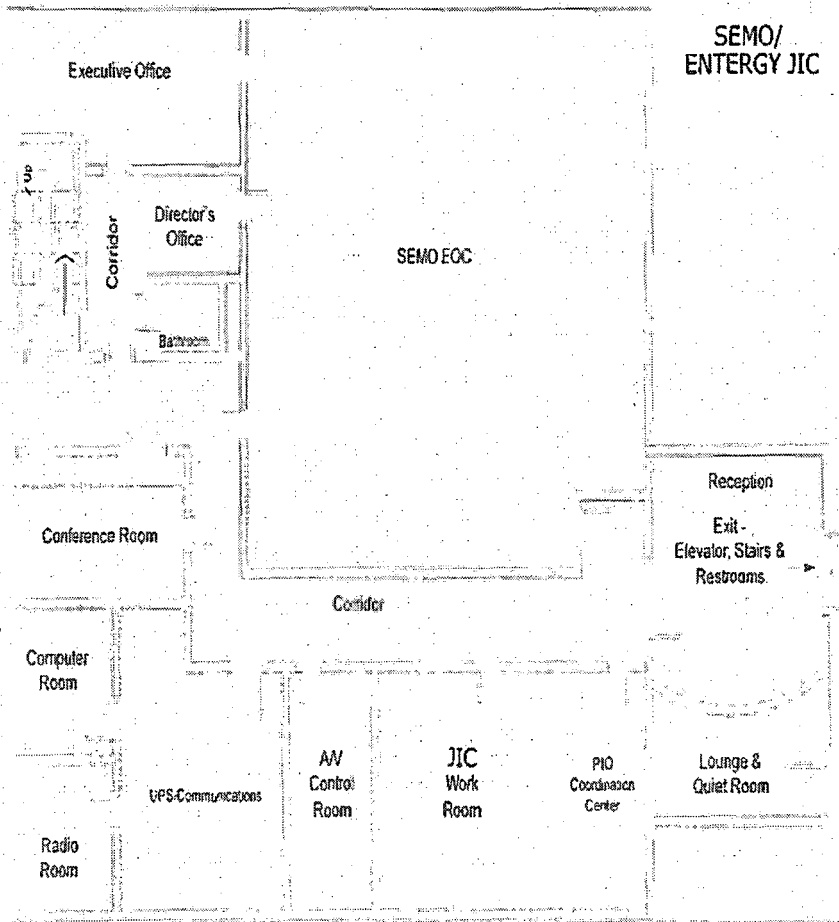
(Lobby Floor)



Attachment 9.9

JIC Driving Directions & Floor Plans

Sheet 3 of 4



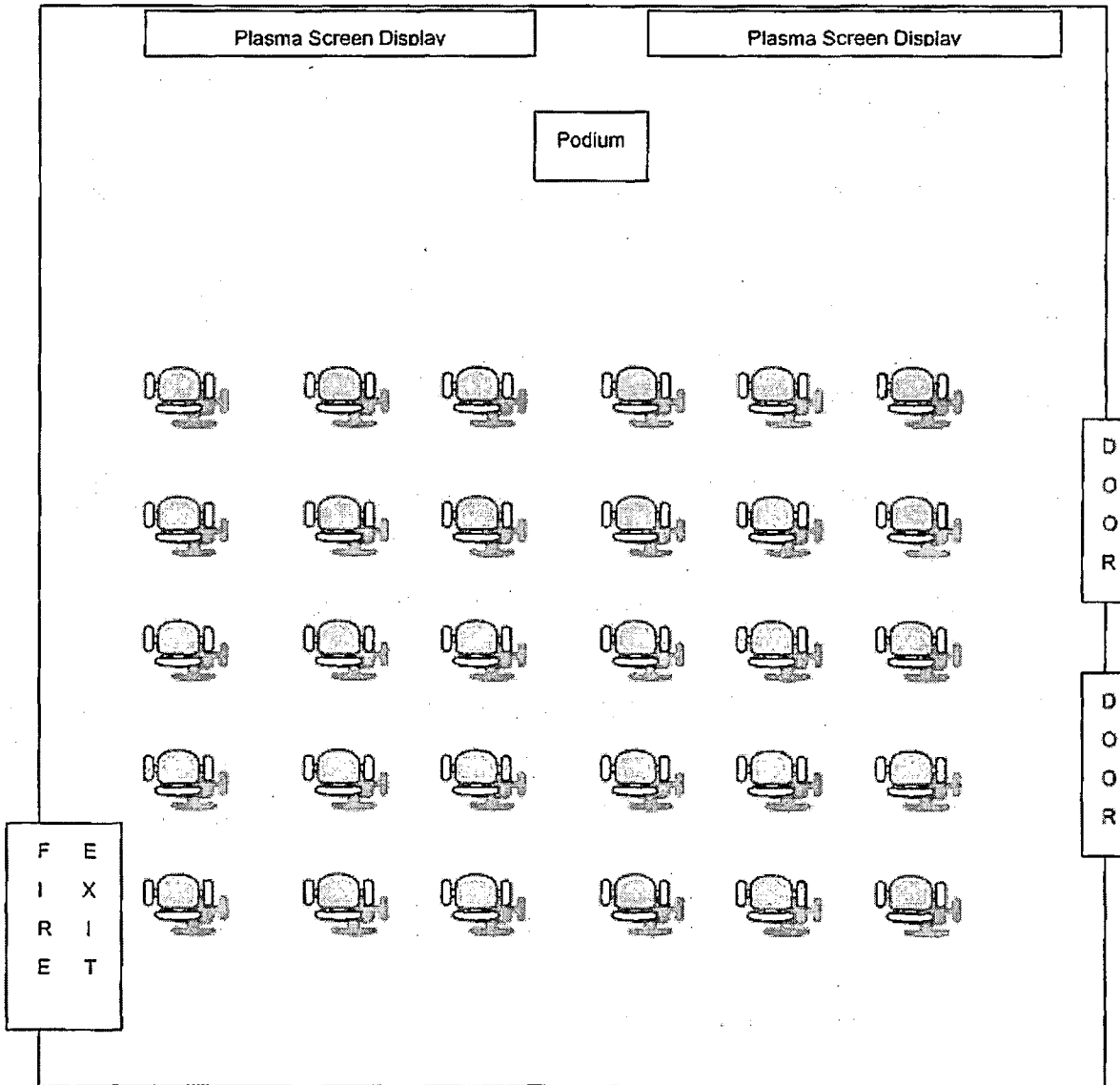
**Joint Information Center
("G floor")**



Attachment 9.9

JIC Driving Directions & Floor Plans

Sheet 4 of 4



**Clerestory Media Briefing Room
Third Floor**



Entergy

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Attachment 9.10

IPEC JIC ERO Staffing

Sheet 1 of 1

At IPEC, the expectation is that ALL individuals assigned to the JIC report to the facility within 120 minutes of the declaration of an Event.

The JIC is able to be considered STAFFED when the following three individuals are present: Company Spokesperson, JIC Manager and Technical Advisor. Regardless of whoever else is available, these three positions MUST be filled before the JIC can be considered to be STAFFED. For this reason, these individuals are often referred to a MINIMUM STAFFING for the JIC. IPEC Emergency Planning requires that the JIC be STAFFED within 120 minutes of the Declaration of an Event.

Entergy coordinates with NY State Office of Emergency Management (NYSOEM) to declare the JIC OPERATIONAL as soon as it is staffed.

IPEC IMPLEMENTING PROCEDURE PREPARATION, REVIEW, AND APPROVAL

IP-SMM-AD-102 Rev: 17

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ATTACHMENT 10.2

IPEC PROCEDURE REVIEW AND APPROVAL

(Page 1 of 1)

Procedure Title: Activation and Set Up of the Alternative Technical/Operations Support Center (TSC/OSC) Facility

Procedure No. IP-EP-270 Existing Rev: 2 New Rev: 3 DRN/EC No: DRN-21-00125

Procedure Activity (MARK Applicable)	<input type="checkbox"/> Converted To IPEC, Replaces:	Temporary Procedure Change (MARK Applicable)
<input type="checkbox"/> NEW PROCEDURE <input type="checkbox"/> GENERAL REVISION <input checked="" type="checkbox"/> PARTIAL REVISION <input type="checkbox"/> EDITORIAL REVISION <input type="checkbox"/> VOID PROCEDURE <input type="checkbox"/> SUPERSEDED	Unit 1 Procedure No. _____ Unit 2 Procedure No: _____ Unit 3 Procedure No: _____	<input type="checkbox"/> EDITORIAL Temporary Procedure Change <input type="checkbox"/> ADVANCE Temporary Procedure Change <input type="checkbox"/> CONDITIONAL Temporary Procedure Change Terminating Condition: _____ _____
<input type="checkbox"/> RAPID REVISION	Document in Microsoft Word: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> VOID DRN/TPC No(s): _____

Revision Summary N/A – see Revision Summary page. – Procedure was revised to reflect Post U3 Shutdown Eplan and updated the floor plan.

Implementation Requirements

Implementation Plan? Yes No Formal Training? Yes No Special Handling? Yes No

Quality Related? Yes No If Yes, then ensure the procedure cover page is marked "Quality Related"

RPO Dept: Emergency Planning Writer: (Print Name/Ext/Sign): Rebecca Martin x7106/ Rebecca Martin

Review and Approval (Per Attachment 10.1, IPEC Review And Approval Requirements)

1. Technical Reviewer: Craig Delamater / CD / 4/14/2021
 (Print Name/Signature/ Date)

2. Cross-Disciplinary Reviewers:

Dept: _____ Reviewer: _____
 Print Name/ Signature/ Date)

Dept: _____ Reviewer: _____
 Print Name/ Signature/ Date)

3. RPO- Responsibilities/Checklist: Frank J Mitchell / FJ Mitchell / 4/14/21
 (Print Name/ Signature/ Date)

- PAD required and is complete (PAD Approver and Reviewer qualifications have been verified)
- Previous exclusion from further LI-100 Review is still valid
- PAD not required due to type of change as defined in 4.6

4. Non-Intent Determination Complete: _____
 (Print Name/ Signature/ Date)

NO change of purpose or scope NO change to less restrictive acceptance criteria
NO reduction in the level of nuclear safety NO change to steps previously identified as commitment steps
NO voiding or canceling of a procedure, unless requirements are incorporated into another procedure or the need for a procedure was eliminated NO deviation from the Quality Assurance Program Manual
NO change that may result in deviations from Technical Specifications, FSAR, plant design requirements.

5. On-Shift Shift Manager/CRS: (RPO per SMM-AD-102) – Frank J. Mitchell / FJ Mitchell / 4/14/21
 (Print Name/ Signature/ Date)

6. User Validation: User: _____

7. Special Handling Requirements Understood: _____
 Print Name/ Signature/ Date)

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-270	Revision: 3
Equipment/Facility/Other: Indian Point Energy Center	
Title: Activation and Set up of the Alternative TSC/OSC Facility	

Part I. Description of Activity Being Reviewed (event or action, or series of actions that have the potential to affect the emergency plan or have the potential to affect the implementation of the emergency plan):

Replaced TSC Manager with EPM as reflected in the requirements in the Post Unit 3 Shutdown Eplan (PSEP), as submitted to the NRC per LAR, license #NL-19-001, Attachment 8 Emergency Response Organizaition Task Analysis.

Updated a list of facility ERO from Attachment 9.1 floor plan.

Procedure will be effective on May 17, 2021.

Part II. Emergency Plan Sections Reviewed (List all emergency plan sections that were reviewed for this activity by number and title. IF THE ACTIVITY IN ITS ENTIRETY IS AN EMERGENCY PLAN CHANGE, EAL CHANGE OR EAL BASIS CHANGE, ENTER THE SCREENING PROCESS. NO 10CFR50.54(q)(2) DOCUMENTATION IS REQUIRED.

Part 1 Introduction:

Section A: Purpose

Part 2 Planning Standards and Criteria:

Section A: Assignment of Responsibility

Section B: Station Emergency Response Organization

Section H: Emergency Facilities and Equipment

Part III. Ability to Maintain the Emergency Plan (Answer the following questions related to impact on the ability to maintain the emergency plan):

- Do any elements of the activity change information contained in the emergency plan (Section 3.0 Step 6)?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change an emergency classification Initiating Condition, Emergency Action Level (EAL), associated EAL note or associated EAL basis information or their underlying calculations or assumptions?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the process or capability for alerting and notifying the public as described in the FEMA-approved Alert and Notification System design report?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the Evacuation Time Estimate results or documentation?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the Onshift Staffing Analysis results or documentation?
YES NO IF YES, enter screening process for that element

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-270	Revision: 3
Equipment/Facility/Other: Indian Point Energy Center	
Title: Activation and Set up of the Alternative TSC/OSC Facility	

Part IV. Maintaining the Emergency Plan Conclusion The questions in Part III do not represent the sum total of all conditions that may cause a change to or impact the ability to maintain the emergency plan. Originator and reviewer signatures in Part V document that a review of all elements of the proposed change have been considered for their impact on the ability to maintain the emergency plan and their potential to change the emergency plan.

1. Provide a brief conclusion that describes how the conditions as described in the emergency plan are maintained with this activity.
 2. Check the box below when the 10CFR50.54(q)(2) review completes all actions for all elements of the activity – no 10CFR50.54(q)(3) screening or evaluation is required for any element. Otherwise, leave the checkbox blank.
- I have completed a review of this activity in accordance with 10CFR50.54(q)(2) and determined that the effectiveness of the emergency plan is maintained. This activity does not make any changes to the emergency plan. No further actions are required to screen or evaluate this activity under 10CFR50.54(q)(3).

Per Post Shutdown Emergency Plan (PSEP), both Unit 3 and Unit 2 will be at shut down. The changes made to this procedure reflects this requirement of the Post Unit 3 Shutdown Eplan, as submitted to the NRC (license # NL-19-001) and ERO task for the TSC Manager was re-assigned to the EPM to reflect Attachment 8, ERO Task Analysis. The floor plan attachment had a list of positions that are no longer in the ERO. The list was revised to include only those in the PSEP. The NRC has approved the PSEP per RA-20-040.

A review of this activity in accordance with 10 CFR 50.54(q)(2) has been completed and determined that the effectiveness of the PSEP is maintained. This revision aligns the procedure with the protocols of the post Unit 3 shutdown. None of the changes affect the ability to perform classifications, notifications, or PARs, it does not affect activation or staffing of the ERO as described in the Unit 3 PSEP, and all planning standard requirements are maintained. The changes made do not require a change to the Emergency Action Level scheme, On-shift Staffing study or the PSEP.

No further actions are required to screen or evaluate this activity under 10 CFR 50.54(q)(3).

Part V. Signatures:

Preparer Name (Print) Rebecca A. Martin	Preparer Signature <i>Rebecca A. Martin</i>	Date: 10/22/2020
(Optional) Reviewer Name (Print)	Reviewer Signature	Date:
Reviewer Name (Print) Timothy Garvey Nuclear EP Project Manager	Reviewer Signature <i>Rebecca A. Martin for Tim Garvey</i> Approved via Telecom	Date: 10/27/2020
Approver Name (Print) Frank Mitchell Emergency Planning Manager or designee	Approver Signature <i>F. Mitchell</i>	Date: 4/14/21

Attachment 9.1

Emergency Planning Document Change Checklist Form

(All sections must be completed, N/A or place a check on the line where applicable)

Section 1

Doc/Procedure Type:	Administrative <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> EPLAN <input type="checkbox"/> N/A <input type="checkbox"/>
Doc/Procedure No:	IP-EP-270
Doc/Procedure Title:	Activation and Set Up of the Alternative TSC/OSC Facility
New revision number:	3
Corrective Action:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> CR#: <u>OL-OLI-2018-00090 CA 19</u>
Effective date:	May 17, 2021

Section 2

Change Description

1. Ensure the following are completed, or are not applicable and are so marked:

- a. 50.54g N/A
- b. EN-FAP-OM-023 N/A
- c. IP-SMM- AD-102 N/A
- d. OSRC N/A
- e. NRC Transmittal N/A
(within 30 days)

2. List any other documents affected by this change: N/A

3. Transmittals are completed: N/A Date: 4/29/21

4. Ensure the proper revision is active in eB Ref. Lib.: N/A

5. Approved doc/procedure delivered to Doc. Control for distribution: N/A Date: 4/29/21


6. Position Binders updated: N/A Date: 4/29/21

7. Copy of EPDCC placed in EP file: N/A Date: 4/29/21

8. Supporting documentation is submitted as a general record in eB Ref. Lib.: N/A Date: 4/29/21

9. Word files are moved from working drafts folder to current revision folder in the EP drive:

N/A Date: 5/17/21

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**Activation and Set Up
Of the
Alternative Technical/Operations
Support Center (TSC/OSC) Facility**

CONTROLLED

Prepared by:

Rebecca A. Martin

Print Name

Rebecca A. Martin

Signature

4/14/21

Date

Approval:

Frank Mitchell

Print Name

F. Mitchell

Signature

4/14/21

Date

Effective Date: May 17, 2021



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1.0 PURPOSE

NOTE

The Alternative Technical Support Center and Alternative Operations Support Center (Alt TSC/OSC) would be utilized when the site is not accessible and the Emergency Response Organization (ERO) is activated to provide timely support to the site to mitigate site damage.

ERO members would be notified to respond to the Alternative Facilities by the Everbridge Notification System. This announcement will provide direction to the ERO Members.

The Alt TSC/OSC is located at the Verplanck Fire House, 238 8th street, Verplanck, New York.


- 1.1 To provide guidance for the activation and set-up of the Alternative Technical/Operations Support Center Facilities.

2.0 REFERENCES

- 2.1 IPEC Emergency Plan

3.0 DEFINITIONS

- 3.1 Activated – an order has been made to activate an emergency response facility, and the facility is in the process of being staffed.
- 3.2 Minimum Staffing – The on-shift and augmented staff shown in the emergency plan table of minimum staffing (Table B-1 equivalent) required to provide facility accident response capability in key functional areas.
- 3.3 Operational – Status of an emergency facility declared by the appropriate facility manager upon determining that the facility is adequately staffed and equipment is setup and available to assume/perform the emergency functions assigned to that facility.

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4.0 RESPONSIBILITIES

4.1 Emergency Plant Manager:

4.1.1 Ensuring that the Alternative TSC is made operational in accordance with this procedure.

4.1.2 Ensuring minimum staffing is attained.

4.2 OSC Manager:

4.2.1 Ensuring the Alternative OSC is made operational in accordance with this procedure.

4.2.2 Ensuring minimum staffing is attained.

5.0 DETAILS

5.1 The ERO has been activated and instructed to respond to the Alt TSC/OSC.

5.2 EPM and OSC Manager shall follow steps in EN-EP-610-DP and EN-EP-611-DP for the operation of the Alt TSC/OSC.

5.1 Access to the Alt TSC/OSC

5.1.1 The Alternative Technical/ Operations Support Facilities are located in the Verplanck Fire House, 238 8th street, Verplanck, NY. This is approximately a 2 mile drive south of the Emergency Operations Facility at Indian Point.


5.1.2 To gain access to the building designated personnel will use a key in a lock box located at the door at the rear of the facility.

5.1.3 The Alt TSC/OSC are not dedicated facilities and will require setup. (See Attachment 9.1). The set up outlined in Attachment 9.1 is for guidance. The setup is not required to be exactly as illustrated.

5.2 There are three (3) locations within the facilities used to support the ERO:

5.2.1 Community Room (Top floor). See Attachment 9.1 for suggested setup. Normally designated for TSC and OSC personnel including repair & corrective action teams.

5.2.2 Meeting Room (Middle Floor). See Attachment 9.1 for suggested setup. Normally designated for NRC or other support responders.

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5.2.3 Commissioners Office (Bottom Floor). Normally designated for the EPM and the OSC Manager as a meeting/discussion location.

5.2.4 Set up of the areas is at the discretion of the facility managers.

5.3 There are three (3) cabinets in the Facility for ERO equipment and supplies.

5.3.1 Locker #1(Lower floor): Apparatus Bay. Radiation Protection (RP) Supplies and equipment.

5.3.2 Locker #2: Commissioners Room. ERO equipment, fax/copier, paper, satellite phones, procedures, and Forms book.

5.3.3 Locker #3: Community Room (Top floor). Supplies and equipment for the TSC/OSC personnel.

5.3.4 Each cabinet has a "Lock" Box which needs to be opened to get the key for the cabinet.

6.0 INTERFACES

6.1 EN-EP-610-DP, Technical Support Center

6.2 EN-EP-611-DP, Operations Support Center

7.0 RECORDS

None

8.0 REQUIREMENTS AND COMMITMENTS

None

9.0 ATTACHMENTS

9.1 Layout of the Alternative TSC/OSC

9.2 Telephone Reference Guide

9.3 Alt TSC/OSC Setup Checklist

9.4 Directions to the Alt TSC/OSC

9.5 Internet Connection Set Up

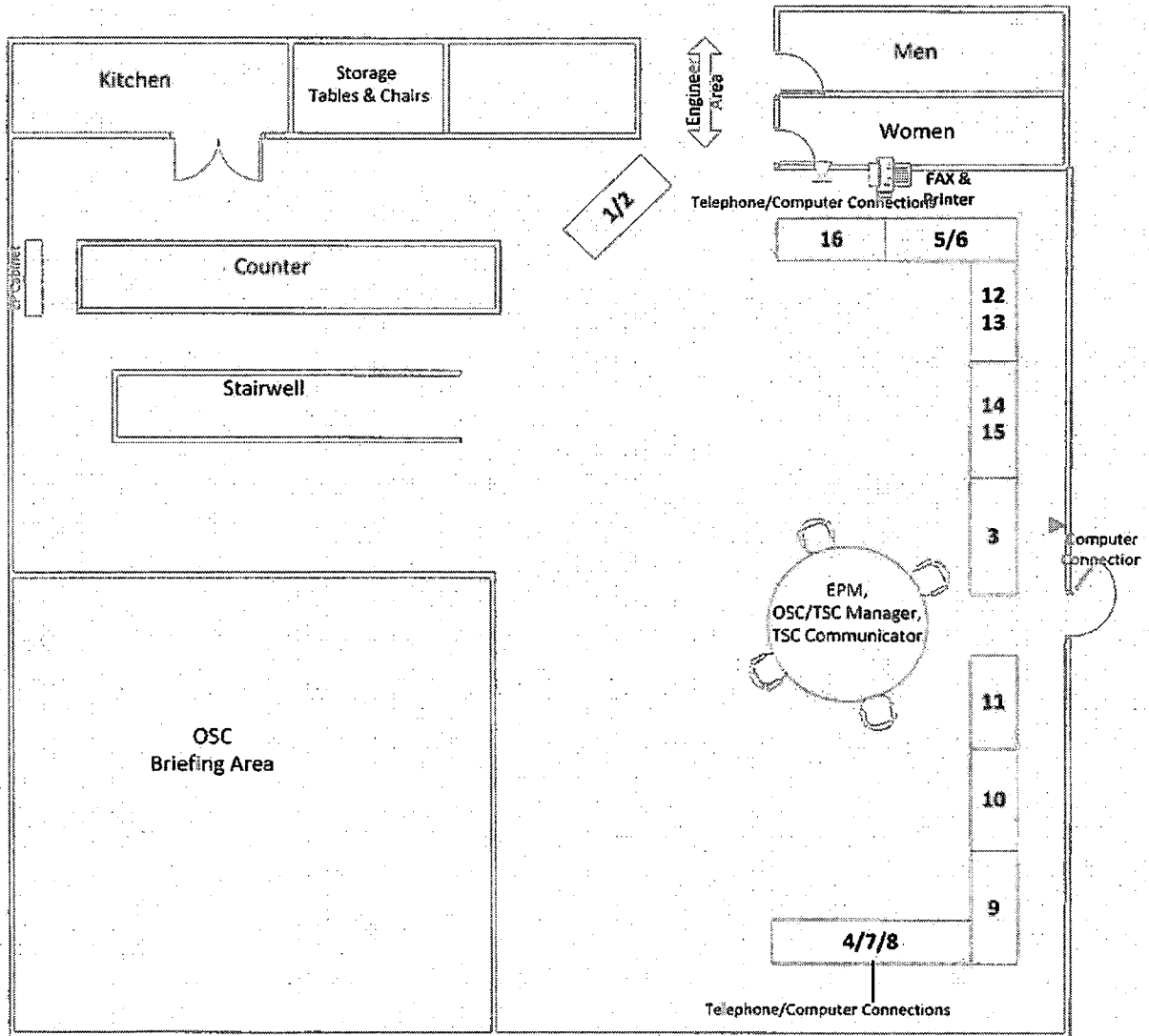


ATTACHMENT 9.1


Alternative TSC/OSC Floor Plan for Community Room

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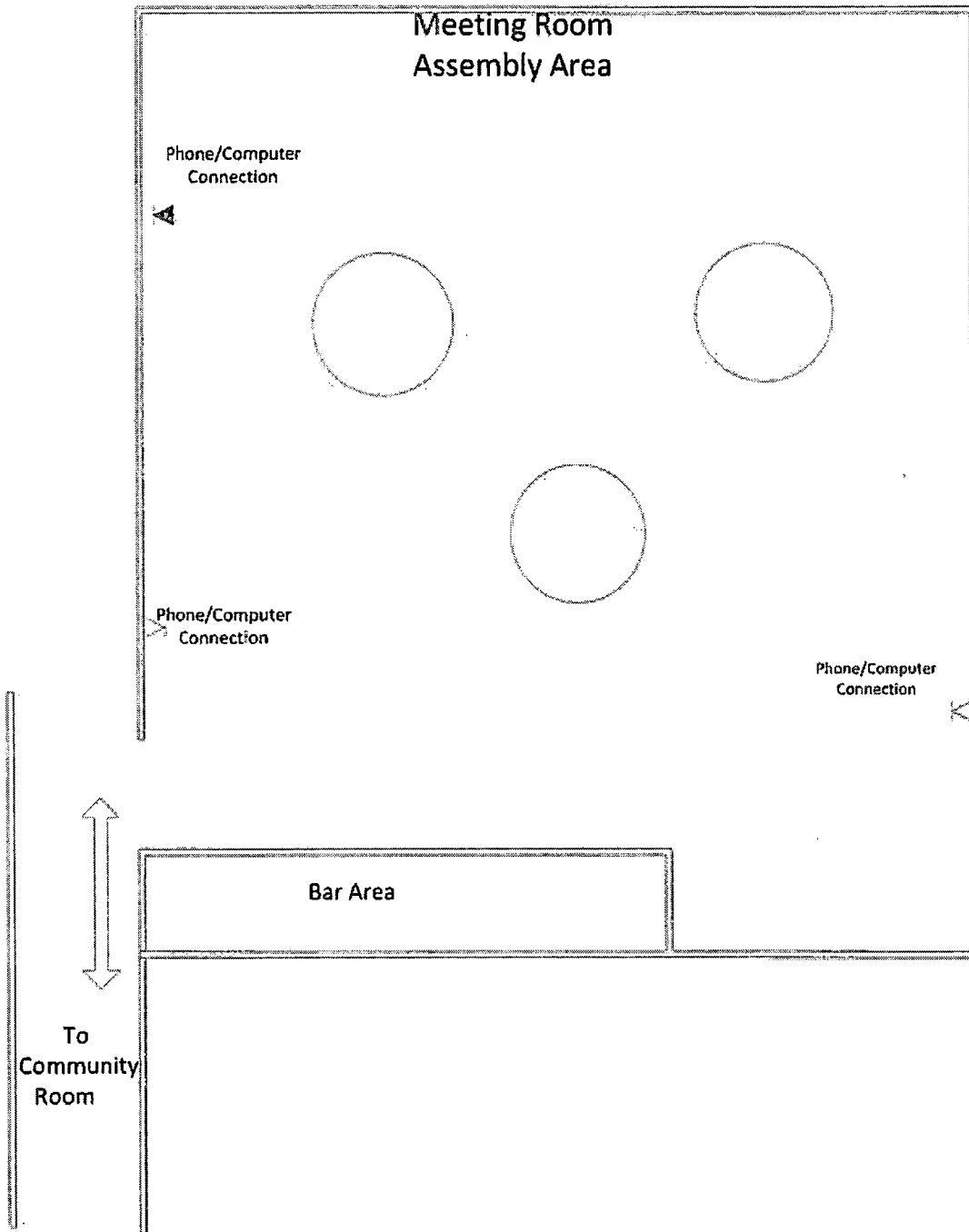
TYPICAL Arrangement (Personnel locations may be changed as needed to facilitate communication and movement without a procedure revision.)




- 3. Engineering Coordinator
- 10. Security Coordinator
- 11. Radiological Coordinator

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Alternative TSC/OSC Floor Plan for the Meeting Room Area
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ATTACHMENT 9.2
Telephone Reference Guide
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1.0 Discussion

- 1.1 All of the yellow voice jacks are numbered and all begin with a "V" , (V1, V2, V3, etc...) The analog extension numbers match up sequentially with the jack numbers as follows with one exception:
- 1.2 V1 = EXT. 3701 = 914-254-3701
 V2 = EXT. 3702 = 914-254-3702
 V3 = EXT. 3703 = 914-254-3703 etc...
- 1.3 The one exception is that Voice jack # V12 is for the Fax line which is a Verizon POTS line and not an extension off of the IPEC system, it also does not require dialing "9" to make outside calls as the IPEC extension does.
- 1.4 The data jacks (blue) in each room are for laptops, Voice Over Internet Protocol (VOIP) conference phone and printers. These are numbered beginning with a "D" (D1, D2, D3, etc...) Note that data jacks D7 and D8 are designated for printers, and these are the only places where the printers should be plugged in, other devices such as laptops, VOIP conference phone, should not be plugged into D7 or D8.
- 1.5 Each line has one telephone, PBX line (914-254- exchange). It requires that you dial 9 to get an outside line and is a direct line to the site, so you may dial just an extension.

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ATTACHMENT 9.2

Telephone Reference Guide

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2.0 To Answer a Call

- 2.1 Pick up handset
- 2.2 Answer the call

3.0 Making an Outside Call from the PBX line

- 3.1 Pick up the handset
- 3.2 Press the PBX line button and Dial 9
- 3.3 Listen for dial tone
- 3.4 Dial the desired number

4.0 Making an Outside Call from the Outside line

- 4.1 Pick up the handset
- 4.2 Press the outside line button
- 4.3 Listen for dial tone
- 4.4 Dial the desired number

5.0 Placing a call on Hold and Retrieving the Call


- 5.1 Press the HOLD button during a call
- 5.2 Retrieve the call by pressing the LINE key with the flashing green LED

6.0 Transferring Calls

- 6.1 During a call depress the HOLD button
- 6.2 Dial the extension number to which the call will be transferred
- 6.3 When the recipient answers, announce the call and hang-up
- 6.4 If recipient does not want to answer call you can return to the caller by pressing the LINE key with the flashing green LED

7.0 Making a Conference Call


Only two other people and you can be on the conference call. This will require both telephone lines.

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- 7.1 Adding an Outside line
 - a. Press the HOLD button during a call
 - b. Press the other line button
 - c. Dial the party to be included in the conference (remember to dial 9 if using the PBX number)
 - d. Press CONF button after the call is answered to connect all parties
- 7.2 Adding an Internal extension
 - a. Press the HOLD button during a call
 - b. Press the other line button
 - c. Dial the extension number to be included in the conference
 - d. Press CONF button after the call is answered to connect all parties
- 7.3 To End the Conference Call hang up the telephone


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ATTACHMENT 9.3
Alt TSC/OSC Setup Checklist
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NOTE


Steps may be performed concurrently or out of sequence as deemed appropriate.

1. Access to the Verplanck Fire House will be through the door located in the rear of the facility.
2. Keys for the door are located in the coded key-box adjacent to the door.
3. Locate the marked cabinets in the Apparatus Bay (Locker #1) Commissioners Office (Locker #2) and Community Room (Locker #3).
4. Locate tables and chairs in the storage room, setup as indicated in Attachment 9.1. (The arrangement may be set up differently if requested by EPM/OSC Manager.)
5. Remove telephones from the cabinets and install as indicated on the diagrams for each room.
 - a. Confirm dial tones.
 - b. Install trip hazard protection for all lines, if needed.
6. Install the fax/printer/copier machines as indicated on the diagrams.
7. Remove laptops and install as indicated on the diagram for each location.
 - a. Laptops are available for each positions: (but may be provided to others as needed)

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ATTACHMENT 9.3
Ait TSC/OSC Setup Checklist
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8. Locate the clock stored in the cabinet. Set up the clock in a prominent location in the Community Room.
9. Locate hand –held radios and chargers
 - a. Install near the Work Control Coordinator.
10. Locate and distribute the following documents:
 - a. Position Checklists
 - b. Emergency Telephone Directory (s)
 - c. EAL Wall Charts
11. Set up the following using flip charts:
 - a. Sign-in sheet
 - b. Plant Status Board
 - c. Action Items
12. Obtain the following from eBlib or the stand alone laptop, as needed
 - a. Emergency Operating Procedures
 - b. Technical Support Guidelines
 - c. Severe Accident Guidelines
 - d. Emergency Management Guidelines
 - e. Any other document/procedure that may be needed for the event

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ATTACHMENT 9.4
Directions to the Alt TSC/OSC
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Directions to the Verplanck Fire House


From the IPEC Plant Entrance:

At the Gate make a right onto Broadway south towards Verplanck.

At intersection of Broadway and 8th Street (signal light), make a right turn.

Fire House is on the left (238 8th street).


Parking is in the rear of Fire House, or lot next to entrance, or in the Red Building parking lot on 6th Street behind the Fire House.

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ATTACHMENT 9.5
Internet Connection Setup
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1. Connections to the Entergy IPEC network are located in the Community Room and the Meeting Room. See Attachment 9.1 for locations.

2. It is necessary to complete the internet connection by closing a switch located in the Loft Room. Retrieve key from Locker #2 for the electric on/off switch that powers the network equipment up in the loft. The on/off switch is on the left as you enter the door that leads to the loft ladder. The key should fit in with the tab in the 12 o'clock position, by turning to the 3 o'clock position the network equipment will begin to power up, this will take a couple of minutes. Located in this room in the overhead is a cabinet which contains equipment to support the network. When the network is activated as outlined above, assure that the fans for that equipment is operating (you can hear the fans once the network is activated). These fans must be operating to assure cooling for the equipment in the cabinet.

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Attachment 9.6

Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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Note:

This guideline is written for conditions when the Alt. TSC/OSC will NOT be declared operational, i.e. HAB/Security Event that occurs during normal working hours and on-site personnel will NOT be able to staff the Alt. facility, for any reason, inclusive of Security Code Orange/Red, etc.. It is possible that some ERO qualified personnel, who were originally off-site when the HAB/Security Event occurred, will show up to the Alt. facilities; however this guideline assumes that the Alt. facilities will NOT be declared operational.

Note:


Sending IPEC Liaisons to the Incident Command Post (ICP) should be considered for all IPEC Emergency Action Level (EAL) declarations depending on the ICP's needs and SHALL be performed for all IPEC EALs involving a Hostile Action Based (HAB) or Security Event. The Liaisons should consist of personnel from Operations, Security and Radiation Protection (RP).

Note:

Although written for the Alt. TSC/OSC once communications are established per this guideline, if the actual IPEC TSC/OSC becomes Operational the actual IPEC TSC/OSC should continue to staff conference bridges previously established at the Alt. TSC/OSC location until all ICP needs are met.

Note:

Although primarily written for a HAB/Security Event, if the ICP requests IPEC Liaisons be sent to the ICP, during a non-HAB/Security Event then the EOF (AEOF) may follow the guidance as outlined below and assign IPEC Liaisons to meet the needs of the ICP.

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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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Guidance:

1. For any IPEC EAL declaration the request for ICP Liaisons should come from the ICP. The ICP should make a formal request to IPEC Security (typically CAS/SAS, etc.) for these additional personnel. If the IPEC EAL declaration involves a Hostile Action Based (HAB) or Security Event, or the ICP has requested these ICP Liaisons then proceed as follows:
2. IPEC Security (CAS/SAS, etc.) shall establish communication with the Alt. TSC and relay to the most senior ERO qualified person available (typically an EPM qualified individual), or designee at the Alt. TSC, that the ICP has requested ICP Liaisons. If the request for ICP Liaisons has been made from the ICP or the IPEC EAL declaration involves a Hostile Action Based (HAB) or Security Event then the most senior ERO qualified person available, or designee at the Alt. TSC, will continue on with Step 3.
3. The most senior ERO qualified person available (typically an EPM qualified individual), or designee at the Alt. TSC, will select ICP Liaison personnel based on the needs of the ICP. Typically the selection of ICP Liaisons is as follows:
 - a. A person knowledgeable about IPEC Security (oncoming Security Shift Supervisor, or equivalent) as the ICP Security Liaison. The IPEC Security Liaison will normally be filled using the personnel in the qualified ERO position entitled ICP Security Coordinator.
 - i. In some instances if one of the qualified IPEC ICP Security Coordinators were located off-site, when the HAB/Security Event occurred, they may report directly to the ICP if previous contact was made between the ICP (or IPEC) and the IPEC ICP Security Coordinator. If this was the case then an additional person need not be deployed to the ICP to act as the ICP Security Liaison. The IPEC ICP Security Coordinator will become the ICP Security Liaison. The Alt. TSC will simply need to be informed that an ICP Security Liaison is already at the ICP.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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- ii. In some instances if all of the qualified IPEC ICP Security Coordinators were located on-site, when the HAB/Security Event occurred, and they will NOT be able to staff the facility, for any reason, inclusive of Security Code Orange/Red, then the most senior ERO qualified person available will have to find a suitable substitute as outlined in this guideline.
 - b. A person knowledgeable about IPEC Operations (oncoming NPO, or equivalent) as the ICP Operations Liaison. If a person knowledgeable about IPEC Operations cannot be located then the person selected as the ICP Radiation Protection Liaison may perform these duties until additional assistance arrives
 - c. A person knowledgeable about IPEC Radiological Controls (RP Supervisor, or equivalent) as the ICP Radiation Protection Liaison. If a person knowledgeable about IPEC Radiological Controls cannot be located then the person selected as the ICP Operations Liaison may perform these duties until additional assistance arrives.
 - d. If knowledgeable personnel are unavailable in your facility for selection as ICP Liaisons then reach out to other facilities to determine if sufficient knowledgeable personnel may be available, for dispatch to the Alt. TSC, to meet the needs of the ICP.
4. The most senior ERO qualified person available, or designee at the Alt. TSC, will determine from IPEC Security (CAS/SAS, etc.) where the ICP has been established and determine the best way to contact the ICP directly.

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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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5. The most senior ERO qualified person available, or designee at the Alt. TSC, will contact the ICP directly and inform them that they will be sending ICP Liaisons to the ICP and supply the names of the selected individuals to the ICP. If a direct contact with the ICP, from the Alt. TSC, is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.) who can contact the ICP (through radio channels, ring down circuits, etc.) to relay information. If the IPEC ICP Security Coordinator is already at the ICP then this communication may be directly with him/her.

6. ICP Incident Commander (IC) determines, based on event specifics, escort requirements, special vehicle requirements and any special method of transport (walk, airlift, water, etc.), is needed to transport personnel from the Alt. TSC to the ICP and a point of contact at the ICP for the personnel, designated to be the ICP Liaisons, to report to. The most senior ERO qualified person available, or designee at the Alt. TSC, will remain in contact with the ICP for "go" approval from the ICP and relay specific travel and point of contact information to the designated ICP Liaisons. If a direct contact with the ICP is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.).
 - a. If the ICP IC determines that it is not safe to transport personnel from the Alt. TSC to the ICP then direct the designated ICP Liaisons to establish communications with the plant per guidance below and instruct ICP IC on how to dial into the conference bridge(s), giving him/her the specific numbers and information required, so the ICP IC, or designee, may call into the established conference bridge and ask questions as necessary.
 - b. When the ICP IC determines it is safe to transport the designated ICP Liaisons from the Alt. TSC to the ICP then continue on with applicable steps in this guideline.

7. The most senior ERO qualified person available, or designee at the Alt. TSC, will select any available Security personnel and instruct them to conduct credentialing, if required, and FFD process and then informs the ICP that the designated ICP Liaisons are ready to be deployed.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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- a. If there are no available Security personnel in the Alt. TSC and the IPEC ICP Security Coordinator is present in the ICP then the credentialing, if required, and FFD process may be conducted at the ICP when the designated ICP Liaisons arrive at the ICP.
 - b. If there are no available Security personnel in the Alt. TSC and the IPEC ICP Security Coordinator is NOT present in the ICP then the ICP IC must be informed that credentialing, at the Alt. TSC will not be performed. The ICP IC will, based on this information, determine if they are capable of credentialing the designated ICP Liaisons at the ICP. If determination is made that the ICP is capable of credentialing the designated ICP Liaisons then continue on with this guideline, as required. However the FFD process may still be conducted at the Alt. TSC, by ANY available personnel as designated by the most senior ERO qualified person available, or designee at the Alt. TSC, before the designated ICP Liaisons depart for the ICP.
8. If "go" approval is received from the ICP IC then the most senior ERO qualified person available, or designee at the Alt. TSC, will inform personnel that they will be deployed to the ICP and provide any required pre-job briefings and transit to the ICP i.a.w specific instructions from the ICP. If a direct contact with the ICP is not available then the "go" approval may be relayed thru IPEC Security (CAS/SAS, etc.). If the ICP Liaisons are to head to the ICP unescorted then the team must be given a point of contact at the ICP and the location of the point of contact. This point of contact will typically be the ICP IC.
 9. Once the ICP Liaisons have arrived at the ICP they will meet with the point of contact. If required, the ICP will conduct any necessary credentialing of personnel before the ICP Liaisons obtain the ICP Liaison "go" bag, stored at the Alt. ICP location and establish conference bridges as follows:

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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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- a. The ICP Security Liaison will utilize phone numbers in the E-Plan Emergency Telephone Directory (ETD) and contact IPEC Security (CAS/SAS) and the Alt. TSC. The ICP Security Liaison will instruct personnel to dial into a conference bridge, giving them the specific numbers and information required, and establishes a conference bridge with these personnel, if available and required. Additional personnel may join the conference bridge as necessary. Since the Alt. TSC is not Operational then the most senior ERO qualified person available, or designee at the Alt. TSC, may designate ANY available personnel to staff this conference bridge until the Alt. TSC becomes Operational.
 - i. If any personnel, designated to be on this conference bridge, are unable to establish communications at this time, for any reason, then continue establishing the conference bridge with the available personnel and instruct the unavailable personnel to join into the conference bridge when circumstances allow this to occur.

- b. The ICP Operations Liaison will utilize phone numbers in the E-Plan Emergency Telephone Directory (ETD) and contact the Unit 2 CCR, Unit 3 CCR, the EOF (or AEOF) and the Alt. TSC/OSC. The ICP Operations Liaison will instruct personnel to dial into a conference bridge, giving them the specific numbers and information required, and establishes a conference bridge with these personnel, if available and required. Additional personnel may join the conference bridge as necessary. It is possible that, due to plant circumstances CCR personnel may not be able to staff a conference bridge. In this instance the CCR may designate ANY available personnel (NPO, RP, Chem tech, etc.) to staff the conference bridge utilizing any open and available phone line. Since the Alt. TSC/OSC and EOF (or AEOF) are not Operational then the most senior ERO qualified person available, or designee at the Alt. TSC/OSC and EOF (or AEOF), may designate ANY available personnel to staff this conference bridge until the Alt. TSC/OSC and EOF (or AEOF) become Operational.


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- i. If one of the two CCR's is unable to establish communications at this time, for any reason, then continue establishing the conference bridge with the available CCR and instruct the unavailable CCR to join into the conference bridge when circumstances allow this to occur. The available CCR can provide any information required to the ICP Operations Liaison for the unavailable CCR by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR.
- ii. If both CCR's are unable to establish communications at this time, for any reason, then continue establishing the conference bridge between the Alt. TSC/OSC, EOF (or AEOF) and the ICP Operations Liaison and instruct the unavailable CCR's to join into the conference bridge when circumstances allow this to occur. The Alt. TSC/OSC can provide any information required to the ICP Operations Liaison for the unavailable CCR's by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR's.
- iii. If both CCR's are unable to establish communications at this time, for any reason, and the ICP Liaisons were not deployed to the ICP for safety reasons, as established by the ICP IC, then establish the conference bridge between the Alt. TSC/OSC and EOF (or AEOF) only, so the ICP IC, or designee, may call into the established conference bridge and ask questions as necessary. The Alt. TSC/OSC should instruct the unavailable CCR's to join into the conference bridge when circumstances allow this to occur. The Alt. TSC/OSC can provide any information required to the ICP for the unavailable CCR's by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR's.

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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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- iv. In some situations the EOF (or AEOF) may not be staffed. If this is the case continue establishing the conference bridge with the other available facilities/personnel. In some cases, even if the EOF (or AEOF) is staffed, there may not be a need for the EOF (or AEOF) to stay on the phone continuously. If this is the case the EOF (or AEOF) may disconnect from the conference bridge as long as they understand how to dial into the conference bridge and have the specific numbers and information required, should the need arise to re-establish this communication pathway. It is possible that if both the CCR's and the EOF (or AEOF) are unable to establish communications at this time, for any reason, and the ICP Liaisons were not deployed to the ICP for safety reasons, as established by the ICP IC, then keep the conference bridge staffed at the Alt. TSC/OSC only, so the ICP IC, or designee, may call into the established conference bridge and ask questions as necessary. The Alt. TSC/OSC should instruct all unavailable facilities/personnel to join into the conference bridge when circumstances allow this to occur. The Alt. TSC/OSC can provide any information required to the ICP for the unavailable CCR's by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR's.

- v. If there are not two open and available CCR phone lines to establish a second conference bridge for the ICP Radiation Protection Liaison then the ICP Radiation Protection Liaison may utilize the same conference bridge established by the ICP Operations Liaison. If this line becomes too busy and multiple conversations must take place simultaneously then consideration must be given to separating out personnel onto two separate conference bridges as outlined in this guideline.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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- vi. If any personnel, designated to be on this conference bridge, are unable to establish communications at this time, for any reason, then continue establishing the conference bridge with the available personnel and instruct the unavailable personnel to join into the conference bridge when circumstances allow this to occur.
- c. The ICP Radiation Protection Liaison (if available) will utilize phone numbers in the E-Plan Emergency Telephone Directory (ETD) and contacts the Unit 2 CCR, Unit 3 CCR and asks to speak directly to the Watch RP Technicians. The ICP Radiation Protection Liaison will also contact the Alt. TSC/OSC. The ICP Radiation Protection Liaison will instruct personnel to dial into a conference bridge, giving them the specific numbers and information required, and establishes a conference bridge with these personnel, if available and required. Additional personnel may join the conference bridge as necessary. It is possible that, due to plant circumstances the Watch RP Technicians may not be able to staff a conference bridge. In this instance the CCR may designate ANY available personnel (NPO, etc.) to staff the conference bridge utilizing any open and available phone line or make a determination that the person designated to staff the conference bridge with the ICP Operations Liaison may relay pertinent radiological information instead. Since the Alt. TSC/OSC are not operational then the most senior ERO qualified person available, or designee at the Alt. TSC/OSC, may designate ANY available personnel to staff this conference bridge until the Alt. TSC/OSC become Operational.
 - i. If one of the two CCR's is unable to establish communications at this time, for any reason, then continue establishing the conference bridge with the available CCR and instruct the unavailable CCR to join into the conference bridge when circumstances allow this to occur. The available CCR can provide any information required to the ICP Radiation Protection Liaison for the unavailable CCR by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR.

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- ii. If both CCR's are unable to establish communications at this time, for any reason, then continue establishing the conference bridge between the Alt. TSC/OSC and the ICP Radiation Protection Liaison and instruct the unavailable CCR's to join into the conference bridge when circumstances allow this to occur. The Alt. TSC/OSC can provide any information required to the ICP Radiation Protection Liaison for the unavailable CCR's by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR's.

- iii. If both CCR's are unable to establish communications at this time, for any reason, and the ICP Liaisons were not deployed to the ICP for safety reasons, as established by the ICP IC, then establish the conference bridge at the Alt. TSC/OSC only, so the ICP IC, or designee, may call into the established conference bridge and ask questions as necessary. The Alt. TSC/OSC should instruct the unavailable CCR's to join into the conference bridge when circumstances allow this to occur. The Alt. TSC/OSC can provide any information required to the ICP for the unavailable CCR's by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR's.

- iv. If there are not two open and available CCR phone lines to establish a second conference bridge, the ICP Radiation Protection Liaison may utilize the same conference bridge established by the ICP Operations Liaison. If this line becomes too busy and multiple conversations must take place simultaneously then consideration must be given to separating out personnel onto two separate conference bridges as outlined in this guideline.


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- v. If any personnel, designated to be on this conference bridge, are unable to establish communications at this time, for any reason, then continue establishing the conference bridge with the available personnel and instruct the unavailable personnel to join into the conference bridge when circumstances allow this to occur.
10. Once the conference bridges have successfully been established the ICP IC, the EOF or (AEOF) Emergency Director (or the most senior ERO qualified person available, or designee at the EOF/AEOF, if not operational), the CCR Shift Manager(s) and the most senior ERO qualified person available, or designee at the Alt. TSC/OSC, will be informed of these actions and what facilities/areas are on the line.
11. Once personnel are able to access the site and the actual IPEC TSC/OSC is declared operational then the CCR and CAS/SAS personnel, on the established conference bridge lines with the ICP, should be replaced by personnel in the actual IPEC TSC/OSC as outlined below.
- a. The TSC Security Coordinator should replace the CAS/SAS personnel on the ICP Security Liaison established conference bridge. If the TSC Security Coordinator is unavailable then the EPM may designate ANY available ERO personnel to staff the conference bridge. Once the actual IPEC TSC has joined the established ICP Security Liaison conference bridge then CAS/SAS may disconnect from the call.
 - b. The OSC Manager should replace the CCR personnel on the ICP Operations Liaison established conference bridge. If the OSC Manager is unavailable then the EPM may designate ANY available ERO personnel to staff the conference bridge. Once the actual IPEC TSC (or OSC) has joined the established ICP Operations Liaison conference bridge then the CCR(s) may disconnect from the call.


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- c. The TSC Radiological Coordinator should replace CCR personnel on the ICP Radiation Protection Liaison established conference bridge. If the TSC Radiological Coordinator is unavailable then the EPM may designate ANY available ERO personnel to staff the conference bridge. Once the actual IPEC TSC (or OSC) has joined the established ICP Radiation Protection Liaison conference bridge then the CCR(s) may disconnect from the call.
 - d. Once the conference bridges have successfully been re-established utilizing personnel from the actual IPEC TSC/OSC, the ICP IC and the EPM will be informed of these actions and what facilities/areas are on the line.
12. Once personnel are able to access the site and the actual IPEC EOF/ICP is declared operational then the EOF may disconnect from the established conference bridge due to close proximity of the two facilities. If, due to the circumstances of the event, either of the two facilities is unable to report to the actual EOF then the EOF (or AEOF) should maintain the established conference bridge staffed as outlined in this guideline. In all cases the IPEC ICP Liaisons should maintain the established conference bridge lines staffed, until such time the ICP IC determines that the ICP Liaisons and/or the established conference bridge is no longer required.
- a. Once the conference bridges have successfully been re-established utilizing personnel from the actual IPEC EOF or (AEOF)/ICP the ICP IC and the ED will be informed of these actions and what facilities/areas are on the line.
 - b. If the actual IPEC EOF/ICP are declared operational and the EOF has disconnect from the established conference bridge due to close proximity of the two facilities then the ED will be informed of these actions.
13. Once the ICP IC determines that the ICP Liaisons and/or the established conference bridges are no longer required then the ICP Liaisons may instruct all personnel on the established conference bridges to disconnect. Then the ICP Liaisons may disconnect the conference call and await further instructions from the ICP IC. If the ICP IC determines that the ICP Liaisons and/or the established conference bridges will be required for an indefinite period of time then the ICP Liaisons should contact the appropriate facility leads to ensure suitable reliefs can be arranged in a timely manner.

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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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NOTE

This guideline is written for conditions when the Alt. TSC/OSC has been declared operational, i.e. HAB/Security Event that occurs outside of normal working hours, and off-site personnel will be able to staff the Alt. facility.

NOTE


Sending IPEC Liaisons to the Incident Command Post (ICP) should be considered for all IPEC Emergency Action Level (EAL) declarations depending on the ICP's needs and SHALL be performed for all IPEC EALs involving a Hostile Action Based (HAB) or Security Event. The Liaisons should consist of personnel from Operations, Security and Radiation Protection (RP).

NOTE

Although written for the Alt. TSC/OSC, once communications are established per this guideline, if the actual IPEC TSC/OSC becomes Operational, the actual IPEC TSC/OSC should continue to staff conference bridges previously established at the Alt. TSC/OSC location until all ICP needs are met.

NOTE

Although primarily written for a HAB/Security Event, if the ICP requests IPEC Liaisons be sent to the ICP, during a non-HAB/Security Event then the EOF (AEOF) may follow the guidance as outlined below and assign IPEC Liaisons to meet the needs of the ICP.

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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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Guidance:

1. For any IPEC EAL declaration the request for ICP Liaisons should come from the ICP. The ICP should make a formal request to IPEC Security (typically CAS/SAS or directly to the ICP Security Coordinator) for these additional personnel. If the IPEC EAL declaration involves a Hostile Action Based (HAB) or Security Event, or the ICP has requested these ICP Liaisons then proceed as follows:
2. The TSC Security Coordinator shall establish communication with IPEC Security (CAS/SAS) and determine if the ICP has requested ICP Liaisons, if not already known. If the request for ICP Liaisons has been made from the ICP or the IPEC EAL declaration involves a Hostile Action Based (HAB) or Security Event then the TSC Security Coordinator will inform the Emergency Plant Manager (EPM) of the need to staff the ICP Liaisons.
3. The EPM will select ICP Liaison personnel based on the needs of the ICP. Typically the selection of ICP Liaisons is as follows:
 - a. A person knowledgeable about IPEC Security (this is a qualified ERO position entitled ICP Security Coordinator) as the ICP Security Liaison.
 - i. In some instances the IPEC ICP Security Coordinator may report directly to the ICP if previous contact was made between the ICP (or IPEC) and the IPEC ICP Security Coordinator. If this was the case then an additional person need not be deployed to the ICP to act as the ICP Security Liaison. The IPEC ICP Security Coordinator will become the ICP Security Liaison. The Alt. TSC will simply need to be informed that an ICP Security Liaison is already at the ICP.
 - b. A person knowledgeable about IPEC Operations (oncoming NPO, or equivalent) as the ICP Operations Liaison. If a person knowledgeable about IPEC Operations cannot be located then the person selected as the ICP Radiation Protection Liaison may perform these duties until additional assistance arrives.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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- c. A person knowledgeable about IPEC Radiological Controls (RP Supervisor, or equivalent) as the ICP Radiation Protection Liaison. If a person knowledgeable about IPEC Radiological Controls cannot be located then the person selected as the ICP Operations Liaison may perform these duties until additional assistance arrives.
 - d. If knowledgeable personnel are unavailable in your facility for selection as ICP Liaisons then reach out to other facilities to determine if sufficient knowledgeable personnel may be available, for dispatch to the Alt. TSC, to meet the needs of the ICP.
4. The TSC Security Coordinator will determine from IPEC Security (CAS/SAS, etc.) where the ICP has been established and determine the best way to contact the ICP directly. The TSC Security Coordinator will inform the Emergency Plant Manager (EPM) of the location of the ICP.
 5. The TSC Security Coordinator will contact the ICP directly and inform them that they will be sending ICP Liaisons to the ICP and supply the names of the selected individuals to the ICP. If a direct contact with the ICP, from the Alt. TSC, is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.) who can contact the ICP (through radio channels, ring down circuits, etc.) to relay information.
 6. ICP Incident Commander (IC) determines, based on event specifics, if escort requirements, special vehicle requirements and any special method of transport (walk, airlift, water, etc.) is needed to transport personnel from the Alt. TSC to the ICP and a point of contact at the ICP for the personnel, designated to be the ICP Liaisons, to report to. The TSC Security Coordinator will remain in contact with the ICP for "go" approval from the ICP and relay specific travel and point of contact information to the designated ICP Liaisons. If a direct contact with the ICP is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.).


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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- a. If the ICP IC determines that it is not safe to transport personnel from the Alt. TSC to the ICP then direct the designated ICP Liaisons to establish communications with the plant per guidance below and instruct ICP IC on how to dial into the conference bridge(s), giving them the specific numbers and information required, so the ICP IC, or designee, may call into the established conference bridge and ask questions as necessary.
 - b. When the ICP IC determines it is safe to transport the designated ICP Liaisons from the Alt. TSC to the ICP then continue on with applicable steps in this guideline.
7. The TSC Security Coordinator conducts credentialing, if required, and FFD process and informs the ICP that the designated ICP Liaisons are ready to be deployed.
 8. If "go" approval is received from the ICP IC then the TSC Security Coordinator will inform personnel that they will be deployed to the ICP and provide any required pre-job briefings. The designated ICP Liaisons will take their designated ICP Liaison "go" bag from the Alt. TSC/OSC and transit to the ICP i.a.w specific instructions from the ICP. If a direct contact with the ICP is not available then the "go" approval may be relayed thru IPEC Security (CAS/SAS). If the ICP Liaisons are to head to the ICP unescorted then the team must be given a point of contact at the ICP and the location of the point of contact. This point of contact will typically be the ICP IC.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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9. Once the ICP Liaisons have arrived at the ICP they will meet with the point of contact. If required, the ICP will conduct any necessary credentialing of personnel before the ICP Liaisons obtain the ICP Liaison "go" bag, stored at the Alt. ICP location and establish conference bridges as follows:
 - a. The ICP Security Liaison will utilize phone numbers in the E-Plan Emergency Telephone Directory (ETD) and contact IPEC Security (CAS/SAS) and the Alt. TSC Security Coordinator. The ICP Security Liaison will instruct personnel to dial into a conference bridge, giving them the specific numbers and information required, and establishes a conference bridge with these personnel, if available and required. Additional personnel may join the conference bridge as necessary.
 - i. If any personnel, designated to be on this conference bridge, are unable to establish communications at this time, for any reason, then continue establishing the conference bridge with the available personnel and instruct the unavailable personnel to join into the conference bridge when circumstances allow this to occur.
 - b. The ICP Operations Liaison will utilize phone numbers in the E-Plan Emergency Telephone Directory (ETD) and contact the Unit 2 CCR, Unit 3 CCR, the EOF (or AEOF), and the Alt. TSC. The ICP Operations Liaison will instruct personnel to dial into a conference bridge, giving them the specific numbers and information required, and establishes a conference bridge with these personnel, if available and required. Additional personnel may join the conference bridge as necessary. It is possible that, due to plant circumstances CCR personnel may not be able to staff a conference bridge. In this instance the CCR may designate ANY available personnel (NPO, RP, Chem tech, etc.) to staff the conference bridge utilizing any open and available phone line.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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- i. If one of the two CCR's is unable to establish communications at this time, for any reason, then continue establishing the conference bridge with the available CCR and instruct the unavailable CCR to join into the conference bridge when circumstances allow this to occur. The available CCR can provide any information required to the ICP Operations Liaison for the unavailable CCR by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR.
- ii. If both CCR's are unable to establish communications at this time, for any reason, then continue establishing the conference bridge between the Alt. TSC/OSC, EOF (or AEOF) and the ICP Operations Liaison and instruct the unavailable CCR's to join into the conference bridge when circumstances allow this to occur. The Alt. TSC/OSC can provide any information required to the ICP Operations Liaison for the unavailable CCR's by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR's.
- iii. If both CCR's are unable to establish communications at this time, for any reason, and the ICP Liaisons were not deployed to the ICP for safety reasons, as established by the ICP IC, then establish the conference bridge between the Alt. TSC/OSC and EOF (or AEOF) only, so the ICP IC, or designee, may call into the established conference bridge and ask questions as necessary. The Alt. TSC/OSC should instruct the unavailable CCR's to join into the conference bridge when circumstances allow this to occur. The Alt. TSC/OSC can provide any information required to the ICP for the unavailable CCR's by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR's.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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- iv. In some situations the EOF or (AEOF) may not be staffed. If this is the case continue establishing the conference bridge with the other available facilities/personnel. In some cases, even if the EOF or (AEOF) is staffed, there may not be a need for the EOF or (AEOF) individual to stay on the phone continuously. If this is the case the EOF or (AEOF) individual may disconnect from the conference bridge as long as they understand how to dial into the conference bridge and have the specific numbers and information required, should the need arise to re-establish this communication pathway. It is possible that if both the CCR's and the EOF or (AEOF) are unable to establish communications at this time, for any reason, and the ICP Liaisons were not deployed to the ICP for safety reasons, as established by the ICP IC, then keep the conference bridge staffed at the Alt. TSC/OSC only, so the ICP IC, or designee, may call into the conference bridge and ask questions as necessary. The Alt. TSC/OSC should instruct all unavailable facilities/personnel to join into the conference bridge when circumstances allow this to occur. The Alt. TSC/OSC can provide any information required to the ICP for the unavailable CCR's by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR's.
- v. If there are not two open and available CCR phone lines to establish a second conference bridge for the ICP Radiation Protection Liaison then the ICP Radiation Protection Liaison may utilize the same conference bridge established by the ICP Operations Liaison. If this line becomes too busy and multiple conversations must take place simultaneously then consideration must be given to separating out personnel onto two separate conference bridges as outlined in this guideline.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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- vi. If any personnel, designated to be on this conference bridge, are unable to establish communications at this time, for any reason, then continue establishing the conference bridge with the available personnel and instruct the unavailable personnel to join into the conference bridge when circumstances allow this to occur.
- c. The ICP Radiation Protection Liaison (if available) will utilize phone numbers in the E-Plan Emergency Telephone Directory (ETD) and contacts the Unit 2 CCR, Unit 3 CCR and asks to speak directly to the Watch RP Technicians. The ICP Radiation Protection Liaison will also contact the Alt. TSC Radiological Coordinator. The ICP Radiation Protection Liaison will instruct personnel to dial into a conference bridge, giving them the specific numbers and information required, and establishes a conference bridge with these personnel, if available and required. Additional personnel may join the conference bridge as necessary. It is possible that, due to plant circumstances the Watch RP Technician(s) may not be able to staff a conference bridge. In this instance the CCR may designate ANY available personnel (NPO, etc.) to staff the conference bridge utilizing any open and available phone line or make a determination that the person designated to staff the conference bridge with the ICP Operations Liaison may relay pertinent radiological information instead.
- i. If one of the two CCR's is unable to establish communications at this time, for any reason, then continue establishing the conference bridge with the available CCR and instruct the unavailable CCR to join into the conference bridge when circumstances allow this to occur. The available CCR can provide any information required to the ICP Radiation Protection Liaison for the unavailable CCR by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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- ii. If both CCR's are unable to establish communications at this time, for any reason, then continue establishing the conference bridge between the Alt. TSC/OSC and the ICP Radiation Protection Liaison and instruct the unavailable CCR's to join into the conference bridge when circumstances allow this to occur. The Alt. TSC/OSC can provide any information required to the ICP Radiation Protection Liaison for the unavailable CCR's by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR's.
- iii. If both CCR's are unable to establish communications at this time, for any reason, and the ICP Liaisons were not deployed to the ICP for safety reasons, as established by the ICP IC, then establish the conference bridge at the Alt. TSC/OSC only, so the ICP IC, or designee, may call into the established conference bridge and ask questions as necessary. The Alt. TSC/OSC should instruct the unavailable CCR's to join into the conference bridge when circumstances allow this to occur. The Alt. TSC/OSC can provide any information required to the ICP for the unavailable CCR's by historical plant knowledge, plant process computers or relaying information passed directly from the unavailable CCR's.
- iv. If there are not two open and available CCR phone lines to establish a second conference bridge, the ICP Radiation Protection Liaison may utilize the same conference bridge established by the ICP Operations Liaison. If this line becomes too busy and multiple conversations must take place simultaneously then consideration must be given to separating out personnel onto two separate conference bridges as outlined in this guideline.
- v. If the Alt. TSC Radiological Coordinator is unable to establish communications at this time, for any reason, then a suitable substitute (i.e. any Rad individual etc.) may be utilized to staff the conference bridge and supply any information required by the ICP.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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- vi. If any personnel, designated to be on this conference bridge, are unable to establish communications at this time, for any reason, then continue establishing the conference bridge with the available personnel and instruct the unavailable personnel to join into the conference bridge when circumstances allow this to occur.
10. Once the conference bridges have successfully been established the ICP IC, the EOF (or AEOF) Emergency Director (or the most senior ERO qualified person available, or designee at the EOF/AEOF, if not operational), the CCR Shift Manager(s) and the EPM will be informed of these actions and what facilities/areas are on the line.
11. Once personnel are able to access the site and the actual IPEC TSC/OSC is declared operational then the CCR and CAS/SAS personnel, on the established conference bridge lines with the ICP, should be replaced by personnel in the actual IPEC TSC/OSC as outlined below.
- a. The TSC Security Coordinator should replace the CAS/SAS personnel on the ICP Security Liaison established conference bridge. If the TSC Security Coordinator is unavailable then the EPM may designate ANY available ERO personnel to staff the conference bridge. Once the actual IPEC TSC has joined the established ICP Security Liaison conference bridge then CAS/SAS may disconnect from the call.
 - b. The EPM may designate ANY available ERO personnel to replace the CCR personnel on the ICP Operations Liaison established conference bridge. Once the actual IPEC TSC (or OSC) has joined the established ICP Operations Liaison conference bridge then the CCR(s) may disconnect from the call.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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- c. The TSC Radiological Coordinator should replace CCR personnel on the ICP Radiation Protection Liaison established conference bridge. If the TSC Radiological Coordinator is unavailable then the EPM may designate ANY available ERO personnel to staff the conference bridge. Once the actual IPEC TSC (or OSC) has joined the established ICP Radiation Protection Liaison conference bridge then the CCR(s) may disconnect from the call.
 - d. Once the conference bridges have successfully been re-established utilizing personnel from the actual IPEC TSC/OSC the ICP IC and the EPM will be informed of these actions and what facilities/areas are on the line.
12. Once personnel are able to access the site and the actual IPEC EOF/ICP is declared operational then the EOF may disconnect from the established conference bridge due to close proximity of the two facilities. If, due to the circumstances of the event, either of the two facilities is unable to report to the actual EOF then the EOF (or AEOF) should maintain the established conference bridge staffed as outlined in this guideline. In all cases the IPEC ICP Liaisons should maintain the established conference bridge lines staffed, until such time the ICP IC determines that the ICP Liaisons and/or the established conference bridge is no longer required.
- a. Once the conference bridges have successfully been re-established utilizing personnel from the actual IPEC EOF (or AEOF)/ICP the ICP IC and the ED will be informed of these actions and what facilities/areas are on the line.
 - b. If the actual IPEC EOF/ICP are declared operational and the EOF has disconnect from the established conference bridge due to close proximity of the two facilities then the ED will be informed of these actions.


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Sending IPEC Liaisons to the (A) ICP with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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13. Once the ICP IC determines that the ICP Liaisons and/or the established conference bridges are no longer required then the ICP Liaisons may instruct all personnel on the established conference bridges to disconnect. Then the ICP Liaisons may disconnect the conference call and await further instructions from the ICP IC. If the ICP IC determines that the ICP Liaisons and/or the established conference bridges will be required for an indefinite period of time then the ICP Liaisons should contact the appropriate facility leads to ensure suitable reliefs can be arranged in a timely manner.

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Attachment 9.8

**Request for off-site personnel to be brought on-site with Alt. TSC/OSC
Operational during a Hostile Action Based/Security Event:**

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NOTE


This guideline is written for conditions when the Alt. TSC/OSC has been declared operational, i.e. HAB/Security Event that occurs outside of normal working hours, and off-site personnel will be able to staff the Alt. facility. If sufficient personnel show up to the Alt. TSC/OSC, but the Alt. TSC/OSC has NOT been declared Operational then this guideline may still be followed in lieu of the guideline "Request for off-site personnel to be brought on-site with Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event" substituting ANY available personnel for specific ERO positions called out for in this guideline.

NOTE

The request for personnel to be brought on-site, from an off-site location, may be for one person (i.e. Operations NPO, Security Officer, RP Tech., etc.) or may be more elaborate and consist of a multi-discipline team (i.e. R&CA Team, etc.) or may consist of an entire group of personnel (i.e. TSC, OSC, etc.).

NOTE

It is possible that, prior to the request for personnel, the CCR may need to discuss with the Alt. TSC/OSC (or ICP) the needs of the plant and the personnel available in the facility, to determine who can best support the needs of the plant. This discussion, with the CCR may occur over any ICP Liaison established Conference Bridge, or equivalent, prior to following steps in this guideline.

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Attachment 9.8

Request for off-site personnel to be brought on-site with Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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Guidance:

1. Request for personnel originates from Central Control Room (CCR) or the Alternate Technical Support Center (TSC). If originated from the CCR the CCR supplies specific names of personnel that they need, if known, directly to Alt. TSC/Operations Support Center (OSC). The Alt. TSC authorizes the request for additional personnel and delegates the request process to the Alt. OSC to prepare the requested personnel. The Alt. TSC Security Coordinator will inform IPEC Security (CAS/SAS, etc.) that a request for additional personnel, to be brought on-site, has been made. The Alt. TSC Operations Coordinator will inform the ICP Operations Liaison of the plants needs and the names of personnel, if known and required by the Incident Command Post (ICP). The ICP Operations Liaison will brief the Incident Command Post (ICP) Incident Commander (IC) and other IPEC Liaisons, if not previously informed, of the needs of the plant and the names of the personnel requested, if known.
 - a. If IPEC ICP Liaisons have not previously been established then the Alt. TSC Security Coordinator will determine from IPEC Security (CAS/SAS, etc.) where the ICP has been established and determine the best way to contact the ICP directly. All further communications to the ICP may be conducted by contacting the ICP directly, to continue on with this guideline. The Alt. TSC Security Coordinator will contact the ICP and inform the ICP IC, or designee, of the request for off-site personnel to be brought on-site. If a direct contact with the ICP, from the Alt. TSC, is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.) who can contact the ICP (through radio channels, ring down circuits, etc.) to relay information.
 - b. If, based on the needs of the Alt. TSC, the Alt. TSC Security Coordinator is unable to continue with direct communications to the ICP, the EPM may designate ANY available personnel to conduct all further communications with the ICP.
 - c. If, based on the needs of the Alt. TSC, the Alt. TSC Operations Coordinator is unable to continue with direct communications to the ICP, the EPM may designate ANY available personnel to conduct all further communications with the ICP.


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Request for off-site personnel to be brought on-site with Alt. TSC/OSC Operational during a Hostile Action Based/Security Event:

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2. The Alt. OSC assembles and organizes requested personnel.
3. The Alt. TSC Security Coordinator conducts credentialing, if required and FFD process and provides input regarding current PA access authorization based on information from the ICP Security Liaison or ICP directly.
4. The appropriate Alt. OSC Managers will conduct normal multi-disciplinary pre-job briefing plus situation status briefings based on information from the ICP Operations Liaison (or ICP) and ICP Security Liaisons (or ICP). During this brief personnel should be given a phone number to reach the Alt. TSC (or ICP), if one is available.
5. The Alt. OSC Manager notifies the Alt. TSC Security Coordinator when the requested personnel are ready to be deployed. The Alt. TSC Security Coordinator contacts the ICP Security Liaison (or ICP) and reports that the requested personnel are ready to be deployed.
6. ICP Incident Commander (IC), or designee, determines based on event specifics, if escort requirements, special vehicle requirements and any special method of transport (walk, airlift, water, etc.) is needed to transport personnel from the Alt. TSC to the site and a point of contact/location, if required, on site for the requested personnel to be transferred to, or meet with the point of contact. The Alt. TSC Security Coordinator checks with the ICP Security Liaison (or ICP) for "go" approval from the ICP and relays specific travel and point of contact information to the team.
7. If "go" approval is received from the ICP IC, or designee then the Alt. TSC Security Coordinator will inform the Alt. OSC that personnel may be deployed to the site. The requested personnel will transit to the site i.a.w. specific instructions from the ICP IC, or designee and the Alt. OSC will track the requested personnel's location and status per current E-Plan Implementing Procedures. If the team is to head to the site unescorted then the team **MUST** be given a point of contact at the site and the location of the point of contact. This point of contact will typically be IPEC Security Personnel at or near the main gate.

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**Request for off-site personnel to be brought on-site with Alt. TSC/OSC
Operational during a Hostile Action Based/Security Event:**

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8. Once on-site the requested personnel will meet with the point of contact and be escorted, if required, to job site/location. Once at the job site/location the team must contact the appropriate CCR to verify that the actions requested are still required and contact the Alt. TSC (or ICP) and report the satisfactory arrival on-site. It is possible that due to circumstances and communication availability that Security personnel, CCR personnel, etc. may relay this information to the Alt. TSC (or ICP).
 - a. The Alt. TSC Security Coordinator will report the satisfactory arrival on-site of the requested personnel to the ICP Security Liaison (or ICP) and Alt. OSC Manager. The ICP Security Liaison, if established, will brief the Incident Command Post (ICP) Incident Commander (IC) and other ICP Liaisons, if established, on the satisfactory arrival on-site.

9. Once the actions requested have been completed then the requested personnel will report completed actions to the appropriate CCR and Alt. TSC (or ICP). The appropriate CCR will coordinate with the ICP and determine if these requested personnel should return to the Alt. TSC (or ICP) or sequester on-site. If personnel are directed to return to the Alt. TSC (or ICP) then the CCR must coordinate the movement of personnel with IPEC Security and the ICP.
 - a. If a direct contact with the ICP, from the CCR, is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.) who can contact the ICP (through radio channels, ring down circuits, etc.) to relay information and movement coordination of these personnel.

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Attachment 9.9

Request for off-site personnel to be brought on-site with Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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NOTE


This guideline is written for conditions when the Alt. TSC/OSC will NOT be declared operational, i.e. HAB/Security Event that occurs during normal working hours and on-site personnel will NOT be able to staff the Alt. facility, for any reason, inclusive of Security Code Orange/Red, etc.. It is possible that some ERO qualified personnel, who were originally off-site when the HAB/Security Event occurred, will show up to the Alt. facilities; however this guideline assumes that the Alt. facilities will NOT be declared operational. If sufficient personnel show up to the Alt. TSC/OSC then the guideline "Request for off-site personnel to be brought on-site with Alt. TSC/OSC Operational during a Hostile Action Based/Security Event" may be followed in lieu of this guideline, substituting ANY available personnel for specific ERO positions called out for in the guideline.

NOTE

The request for personnel to be brought on-site, from an off-site location, may be for one person (i.e. Operations , Security Officer, RP Tech., etc.) or may be more elaborate and consist of a multi-discipline team (i.e. R&CA Team, etc.) or may consist of an entire group of personnel (i.e. TSC, OSC, etc.).

NOTE

It is possible that, prior to the request for personnel, the CCR may need to discuss with the Alt. TSC/OSC (or ICP) the needs of the plant and the personnel available in the facility, to determine who can best support the needs of the plant. This discussion, with the CCR may occur over any ICP Liaison established conference bridge, or equivalent, prior to following steps in this guideline.

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Attachment 9.9

Request for off-site personnel to be brought on-site with Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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Guidance:

1. Request for personnel originates from Central Control Room (CCR). If originated from the CCR the CCR supplies specific names of personnel that they need, if known, directly to the ICP Operations Liaison (or ICP) and informs IPEC Security (CAS/SAS) that they have made this request. The ICP Operations Liaison, if established, will brief the Incident Command Post (ICP) Incident Commander (IC) and other established IPEC Liaisons, if not previously informed, of the needs of the plant and the names of the personnel requested, if known. The ICP IC will authorize the request for additional personnel and delegates the request process to the IPEC ICP Liaisons, if established, to prepare the requested personnel.
 - a. If IPEC ICP Liaisons have not previously been established then the CCR will determine from IPEC Security (CAS/SAS, etc.) where the ICP has been established and determine the best way to contact the ICP directly. All further communications to the ICP may be conducted by contacting the ICP directly, to continue on with this guideline. The CCR will contact the ICP and inform the ICP IC, or designee, of the request for off-site personnel to be brought on-site. If a direct contact with the ICP, from the CCR, is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.) who can contact the ICP (through radio channels, ring down circuits, etc.) to relay information.
 - b. If IPEC ICP Liaisons have not previously been established then the ICP IC may delegate the request process to any personnel the ICP IC deems appropriate, to prepare the requested personnel.
 - c. If sufficient personnel have shown up to the Alt. TSC/OSC then the guideline "Request for off-site personnel to be brought on-site with the Alt. TSC/OSC Operational during a Hostile Action Based/Security Event" may be followed in lieu of this guideline, substituting ANY available personnel for specific ERO positions called out for in that guideline. Otherwise continue on with this guideline.


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Attachment 9.9

Request for off-site personnel to be brought on-site with Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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2. The ICP Operations Liaison and/or the ICP Security Liaison, etc. will establish contact with the Alt. TSC to find out if these requested personnel are available in that location. Once informed the requested personnel must assemble and organize themselves to be ready for deployment utilizing the assistance of any available personnel who have shown up to the Alt. TSC.
 - a. If IPEC ICP Liaisons have not previously been established then the ICP will have to establish contact with the Alt. TSC. If a direct contact with the Alt. TSC, from the ICP, is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.) who can contact the Alt. TSC (through landlines, cell phones, e-mail, etc.) to relay information. All further communications to the Alt. TSC may be conducted by contacting the Alt. TSC directly, to continue on with this guideline.
3. When the requested personnel are assembled and ready for deployment then the Alt. TSC must contact the ICP Incident Commander (IC), or designee, who determines, based on event specifics, if escort requirements, special vehicle requirements and any special method of transport (walk, airlift, water, etc.) is needed to transport personnel from the Alt. TSC to the ICP and a point of contact at the ICP. If a direct contact with the ICP is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.).
4. The Alt. TSC will remain in contact with the ICP for "go" approval from the ICP IC, or designee and relay specific travel and point of contact information to the requested personnel. If a direct contact with the ICP, from the Alt. TSC, is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.) who can contact the ICP (through radio channels, ring down circuits, etc.) to relay information.


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Attachment 9.9

**Request for off-site personnel to be brought on-site with Alt. TSC/OSC NOT
Operational during a Hostile Action Based/Security Event:**

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- a. If the ICP IC, or designee, determines that it is not safe to transport personnel from the Alt. TSC to the ICP it is possible that the ICP may choose to conduct credentialing, FFD processing, multi-disciplinary work briefings and provide input regarding current PA access authorization via the telephone or other form of communication. If a direct contact with the ICP is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.). During this brief personnel should be given a phone number to reach the ICP (or Alt. TSC), if one is available. If the ICP chooses to utilize this alternate process then any/all of Step 5, in this guideline, may not be required.
 - b. If any additional personnel (Operations, Security, Radiation Protection, etc.) were available at the Alt. TSC and the ICP IC, or designee, determines that it is not safe to transport personnel from the Alt. TSC to the ICP it is possible that the ICP may direct that the Alt. TSC conduct some of the credentialing/briefings, at the Alt. TSC, based on information from the ICP. If any credentialing/briefings were NOT conducted at the Alt. TSC, prior to requested personnel being deployed, then the ICP must be informed on the status of uncompleted credentialing/briefings. If required, the ICP will conduct any additional uncompleted credentialing/briefings necessary. If a direct contact with the ICP is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.). During this brief personnel should be given a phone number to reach the ICP (or Alt. TSC), if one is available. If the ICP chooses to utilize this alternate process then any/all of Step 5, in this guideline, may not be required.
5. Once the requested personnel have arrived at the ICP they will meet with the point of contact. If required, the ICP will conduct any necessary credentialing, FFD processing, multi-disciplinary work briefings and provides input regarding current PA access authorization. During this brief personnel should be given a phone number to reach the ICP (or Alt. TSC), if one is available.


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Attachment 9.9

Request for off-site personnel to be brought on-site with Alt. TSC/OSC NOT Operational during a Hostile Action Based/Security Event:

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- a. It is possible that if any additional personnel (Operations, Security, Radiation Protection, etc.) were available at the Alt. TSC that these additional personnel may conduct some of the credentialing/briefings, at the Alt. TSC, based on information from the ICP, prior to personnel arriving at the ICP. If any credentialing/briefings were conducted at the Alt. TSC, prior to requested personnel being deployed, then the ICP must be informed on the status of credentialing/briefings prior to requested personnel arriving at the ICP. If a direct contact with the ICP is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.).
6. Once fully processed and briefed the ICP IC, or designee, will be notified that the requested personnel are ready to be deployed to the site.
7. ICP IC, or designee, determines based on event specifics, if escort, special vehicle, method of transport (walk, airlift, water, etc.) is needed to transport personnel from the briefing location to the site and a point of contact/location, if required, on site for the requested personnel to be transferred to, or meet with the point of contact.
8. If "go" approval is received from the ICP IC, or designee, then the requested personnel will be informed that they will be deployed to the site. The requested personnel will transit to the site i.a.w. specific instructions from the ICP IC, or designee. If the team is to head to the site unescorted then the team **MUST** be given a point of contact at the site and the location of the point of contact. This point of contact will typically be IPEC Security Personnel at or near the main gate.
9. Once on-site the requested personnel will meet with the point of contact and be escorted, if required, to job site/location. Once at the job site/location the team must contact the appropriate CCR to verify that the actions requested are still required and contact the ICP (or Alt. TSC) and report satisfactory arrival on-site. It is possible that due to circumstances and communications available that Security Personnel, CCR personnel, etc. may relay this information to the ICP (or Alt. TSC).


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Attachment 9.9

**Request for off-site personnel to be brought on-site with Alt. TSC/OSC NOT
Operational during a Hostile Action Based/Security Event:**

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- a. If reported to the Alt. TSC then the person taking the call will report the satisfactory arrival on-site of the requested personnel, to the most senior ERO qualified person available (typically an EPM qualified individual), or designee at the Alt. TSC and to the ICP Security Liaison (or ICP). The ICP Security Liaison, if established, will brief the Incident Command Post (ICP) Incident Commander (IC) and other ICP Liaisons, if established, on the satisfactory arrival on-site.
10. Once the actions requested have been completed then the requested personnel will report completed actions to the appropriate CCR. The appropriate CCR will coordinate with the ICP and determine if these requested personnel should return to the ICP, Alt. TSC or sequester on-site. If personnel are directed to return to the ICP or Alt. TSC then the CCR must coordinate the movement of personnel with IPEC Security and the ICP.
- a. If a direct contact with the ICP, from the CCR, is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.) who can contact the ICP (through radio channels, ring down circuits, etc.) to relay information and movement coordination of these personnel.

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Attachment 9.10

Request for on-site personnel to be brought off-site in a Post-Attack Environment following a Hostile Action Based/Security Event:

Page 1 of 5

NOTE


This guideline is written for conditions when a Hostile Action Based (HAB)/Security Event occurred at the IPEC Site and the IPEC Site is in a Post-Attack Environment, but the "All-Clear" has not yet been issued. Typically the IPEC Site is considered a crime scene by the NYS Police during this period of time. This guideline is applicable for a HAB/Security Event that occurs during normal working hours or outside of normal working hours.

NOTE

The request for personnel to be brought off-site, from an on-site location, may be for one person (i.e. Security Officer, ICP Liaison, etc.) or may be more elaborate and consist of an entire group of personnel (i.e. EOF, JIC, etc.).

NOTE

This same guideline may be used for the coordination and movement of personnel, who are on-site and need to be moved to the assembly areas, when a HAB/Security Event occurred at the IPEC Site and the IPEC Site, is in a Post-Attack Environment, but the "All-Clear" has not yet been issued.

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Attachment 9.10

Request for on-site personnel to be brought off-site in a Post-Attack Environment following a Hostile Action Based/Security Event:

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Guidance:

1. Request for on-site personnel to be brought off-site may originate from the Central Control Room (CCR), IPEC Site Upper Management, IPEC Manager Nuclear (IP Decom), any IPEC Emergency Director, Incident Command Post (ICP), etc..
2. If the request for on-site personnel to be brought off-site originated from the ICP.
 - a. The ICP Incident Commander (IC), or designee, making the request should have the ICP Security Liaison, if established, utilize the established ICP Security Liaison conference bridge and relay the request.
 - i. If IPEC ICP Liaisons have not previously been established then the ICP IC, or designee, making the request will contact IPEC Security (CAS/SAS, etc.) directly and inform IPEC Security of the request for on-site personnel to be brought off-site.
 - b. A specific reason for the request should accompany the request when relayed to IPEC Security.
 - c. The ICP Security Liaison, if established, will brief the other established ICP Liaisons, if not previously informed, of the request from the ICP.
 - d. The specific names of all on-site personnel to be brought off-site, should be prepared, if available and requested, then forwarded via any method suitable to IPEC Security (i.e. Phone, Fax, E-mail, etc.).
 - e. The ICP Operations Liaison, if established, should brief the Unit 2 & Unit 3 CCR's and the Alt. TSC/actual TSC, if established, about the request for on-site personnel to be brought off-site.
 - f. If IPEC ICP Liaisons have not previously been established then the ICP IC, or designee, making the request will also brief the Unit 2 & Unit 3 CCR's and the Alt. TSC/actual TSC, if established, about the request for on-site personnel to be brought off-site, if not previously informed.
3. If the request for on-site personnel to be brought off-site originated from an IPEC Facility or personnel
 - a. The IPEC Facility/personnel making the request should contact the ICP Security Liaison (or ICP) utilizing the established ICP Security Liaison conference bridge and relay this request.
 - i. If IPEC ICP Liaisons have not previously been established then the IPEC Facility/personnel making the request will determine from IPEC Security (CAS/SAS, etc.) where the ICP has been established and determine the best way to contact the ICP directly.


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Request for on-site personnel to be brought off-site in a Post-Attack Environment following a Hostile Action Based/Security Event:

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1. The IPEC Facility/personnel making the request will contact the ICP directly and inform the ICP IC, or designee, of the request for on-site personnel to be brought off-site.
2. If a direct contact with the ICP, from the IPEC Facility/personnel making the request, is not available then this information may be relayed thru IPEC Security (CAS/SAS, etc.) who can contact the ICP (through radio channels, ring down circuits, etc.) to relay information.
3. All further communications to the ICP may be conducted by contacting the ICP directly, to continue on with this guideline.
 - b. A specific reason for the request must accompany the request, when relayed to the ICP Security Liaison (or ICP).
 - c. The ICP Security Liaison, if established, will brief the ICP IC, or designee and other established ICP Liaisons, if not previously informed, of the request from the IPEC Facility/personnel.
 - d. The specific names of all on-site personnel to be brought off-site, should be prepared and, if requested, forwarded to the ICP IC, or designee via any method suitable to the ICP (i.e. Phone, Fax, E-mail, etc.).
 - e. The ICP Security Liaison, if established, should also brief IPEC Security (CAS/SAS, etc.) about the request for on-site personnel to be brought off-site, if not previously informed.
 - f. The ICP Operations Liaison, if established, should brief the Unit 2 & Unit 3 CCR's and the Alt. TSC/actual TSC, if established, about the request for on-site personnel to be brought off-site, if not previously informed.
 - g. If IPEC ICP Liaisons have not previously been established then the IPEC Facility/personnel making the request will also brief IPEC Security (CAS/SAS, etc.), the Unit 2 & Unit 3 CCR's and the Alt. TSC/actual TSC, if established, about the request for on-site personnel to be brought off-site, if not previously informed.
4. ICP Incident Commander (IC), or designee, should confer with IPEC Security (CAS/SAS, etc.) and determine based on event specifics, if the request for on-site personnel to be brought off-site can be granted and any escort requirements, special vehicle requirements (bus, van, etc.) or special method of transport (walk, airlift, water, etc.) to transport personnel from the IPEC Site to the final destination.

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Attachment 9.10

Request for on-site personnel to be brought off-site in a Post-Attack Environment following a Hostile Action Based/Security Event:


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- a. If the ICP Incident Commander (IC), or designee, determines based on event specifics that the request for on-site personnel to be brought off-site cannot be granted then the ICP Incident Commander (IC), or designee, should
 - i. Contact IPEC Security (CAS/SAS, etc.) to report that the request for on-site personnel to be brought off-site cannot be granted at this time.

NOTE

If the ICP IC and IPEC Security determine that it is unsafe to perform plant pages at this time, or if the plant page is unavailable, then all steps in this guideline, that require plant pages, may be performed by dispatching IPEC plant or Security personnel to gather or notify applicable personnel utilizing local or face-to-face communications.

- ii. The ICP Incident Commander (IC), or designee, will direct IPEC Security (CAS/SAS, etc.) to make appropriate plant pages for the on-site personnel to remain on location, as required, based on event specifics.
- iii. If IPEC Security personnel are able to make these plant pages without Unit 2 and Unit 3 CCR's assistance then IPEC Security personnel should contact the Unit 2 and Unit 3 CCR's to explain and answer any questions resulting from the plant pages.
 1. If IPEC Security cannot make the plant pages, request Unit 2 and Unit 3 CCR's assistance.
- b. If the ICP Incident Commander (IC), or designee, determines based on event specifics that the request for on-site personnel to be brought off-site can be granted then coordination, site specific travel paths and any additional site specific requirements (site escort, etc.) should be discussed.

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Request for on-site personnel to be brought off-site in a Post-Attack Environment following a Hostile Action Based/Security Event:

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- i. The ICP Incident Commander (IC), or designee, will direct IPEC Security (CAS/SAS, etc.) to make appropriate plant pages for the requested on-site personnel to be brought off-site, via designated site specific travel paths or any additional site specific requirements. Since IPEC will now be considered a NYS Police crime scene, if directed by the ICP IC, personnel should be reminded in this plant page that they are directed not to touch or disturb any evidence as they travel along the designated site specific travel paths.
 - ii. If IPEC Security personnel are able to make these plant pages without Unit 2 and Unit 3 CCR's assistance then IPEC Security personnel should contact the Unit 2 and Unit 3 CCR's to explain and answer any questions resulting from the plant pages.
 1. If IPEC Security cannot make the plant pages, request Unit 2 and Unit 3 CCR's assistance.
5. Once appropriate plant pages have been made the applicable on-site personnel should proceed as directed to the designated locations.
 - a. Due to the fact that the IPEC Site, in the Post Attack Environment would be a designated NYS Police crime scene, on-site personnel being brought off-site will typically be escorted by State Police, as required, until a final destination where personnel will be questioned by State Police, or State Police assigned designees.
 - b. In some cases, it is possible that on-site personnel may be brought directly to State Police where on-site personnel will be questioned by State Police, or State Police assigned designees, prior to being brought to the final destination.
 - c. If an entire group of personnel must be moved (i.e. JIC, EOF, etc.) then State Police presence at the final destination (Hudson Valley Traffic Management Center, EOF, etc.) may assist the State Police escort personnel, if used, with the State Police Interview process, as required.

IPEC IMPLEMENTING PROCEDURE PREPARATION, REVIEW, AND APPROVAL

IP-SMM-AD-102 Rev:17

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ATTACHMENT 10.2

IPEC PROCEDURE REVIEW AND APPROVAL

(Page 1 of 1)

Procedure Title: Dose Assessment

Procedure No: IP-EP-310 Existing Rev: 20 New Rev: 21 DRN/EC No: 21-00116

Procedure Activity (MARK Applicable)	Converted To IPEC, Replaces:	Temporary Procedure Change (MARK Applicable)
<input type="checkbox"/> NEW PROCEDURE	Unit 1 Procedure No: _____	<input type="checkbox"/> EDITORIAL Temporary Procedure Change
<input type="checkbox"/> GENERAL REVISION	Unit 2 Procedure No: _____	<input type="checkbox"/> ADVANCE Temporary Procedure Change
<input checked="" type="checkbox"/> PARTIAL REVISION	Unit 3 Procedure No: _____	<input type="checkbox"/> CONDITIONAL Temporary Procedure Change
<input type="checkbox"/> EDITORIAL REVISION		Terminating Condition: _____
<input type="checkbox"/> VOID PROCEDURE		
<input type="checkbox"/> SUPERSEDED		
<input type="checkbox"/> RAPID REVISION	Document in Microsoft Word: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> VOID DRN/TPC No(s): _____

Revision Summary N/A - See Revision Summary page.

Implementation Requirements

Implementation Plan? Yes No Formal Training? Yes No Special Handling? Yes No
Quality Related? Yes No. If Yes, then ensure the procedure cover page is marked "Quality Related"

RPO Dept: Emergency Planning Writer (Print Name/ Ext/ Sign): Dara Gray/8414

Review and Approval (Per Attachment 10.1 IPEC Review and Approval Requirements)

1. Technical Reviewer: Craig Delamater/ 4/19/2021
(Print Name/ Signature/ Date)

2. Cross-Disciplinary Reviewers:
Dept: _____ Reviewer: _____
(Print Name/ Signature/ Date)

Dept: _____ Reviewer: _____
(Print Name/ Signature/ Date)

3. RPO- Responsibilities/Checklist: Frank Mitchell/ 4/19/21
(Print Name/ Signature/ Date)

- PAD required and is complete (PAD Approver and Reviewer qualifications have been verified)
- Previous exclusion from further LI-100 Review is still valid
- PAD not required due to type of change as defined in 4.6

4. Non-Intent Determination Complete: _____
(Print Name/ Signature/ Date)

- NO change of purpose or scope

NO reduction in the level of nuclear safety

NO voiding or canceling of a procedure, unless requirements are incorporated into another procedure or the need for the procedure was eliminated via an alternate process.
- NO change to less restrictive acceptance criteria

NO change to steps previously identified as commitment steps

NO deviation from the Quality Assurance Program Manual

NO change that may result in deviations from Technical Specifications, FSAR, plant design requirements or previously made commitments.

5. On-Shift Shift Manager/CRS: Frank Mitchell - RPO 4/19/21
(Print Name/ Signature/ Date)

6. User Validation: User: _____

7. Special Handling Requirements Understood: _____

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-310	Revision: 21
Equipment/Facility/Other: Indian Point Energy Center	
Title: Dose Assessment	

Part I. Description of Activity Being Reviewed (event or action, or series of actions that have the potential to affect the emergency plan or have the potential to affect the implementation of the emergency plan):

This procedure was revised to reflect the conditions in the facilities to meet the requirement in the Post Unit 3 Shutdown E-Plan (PSEP) as submitted to the NRC per LAR, license #NL-19-001. Please see the attached matrix for the changes that have been made. This procedure will be effective May 17th, 2021.

Part II. Emergency Plan Sections Reviewed (List all emergency plan sections that were reviewed for this activity by number and title. IF THE ACTIVITY IN ITS ENTIRETY IS AN EMERGENCY PLAN CHANGE, EAL CHANGE OR EAL BASIS CHANGE, ENTER THE SCREENING PROCESS. NO 10CFR50.54(q)(2) DOCUMENTATION IS REQUIRED.

Part 1 Introduction:

Section A: Purpose

Part 2 Planning Standards and Criteria:

Section A: Assignment of Responsibility

Section B: Station Emergency Response Organization

Section D: Emergency Classification System

Section H: Emergency Facilities and Equipment

Section I: Accident Assessment

Section J: Protective Response

Part III. Ability to Maintain the Emergency Plan (Answer the following questions related to impact on the ability to maintain the emergency plan):

- Do any elements of the activity change information contained in the emergency plan (Section 3.0 Step 6)?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change an emergency classification Initiating Condition, Emergency Action Level (EAL), associated EAL note or associated EAL basis information or their underlying calculations or assumptions?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the process or capability for alerting and notifying the public as described in the FEMA-approved Alert and Notification System design report?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the Evacuation Time Estimate results or documentation?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the Onshift Staffing Analysis results or documentation?
YES NO IF YES, enter screening process for that element

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-310	Revision: 21
Equipment/Facility/Other: Indian Point Energy Center	
Title: Dose Assessment	

Part IV. Maintaining the Emergency Plan Conclusion The questions in Part III do not represent the sum total of all conditions that may cause a change to or impact the ability to maintain the emergency plan. Originator and reviewer signatures in Part V document that a review of all elements of the proposed change have been considered for their impact on the ability to maintain the emergency plan and their potential to change the emergency plan.

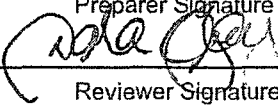
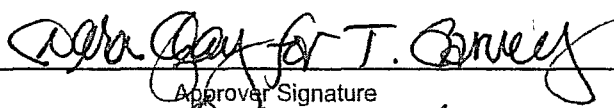

1. Provide a brief conclusion that describes how the conditions as described in the emergency plan are maintained with this activity.
 2. Check the box below when the 10CFR50.54(q)(2) review completes all actions for all elements of the activity – no 10CFR50.54(q)(3) screening or evaluation is required for any element. Otherwise, leave the checkbox blank.
- I have completed a review of this activity in accordance with 10CFR50.54(q)(2) and determined that the effectiveness of the emergency plan is maintained. This activity does not make any changes to the emergency plan. No further actions are required to screen or evaluate this activity under 10CFR50.54(q)(3).

Per Post Shutdown Emergency Plan (PSEP), both Unit 2 and Unit 3 will be defueled and will no longer operate. The changes made to this procedure (see attached matrix) reflects the changes made to the document submitted to the NRC (license # NL-19-001) as well as some minor editorial changes. The NRC has approved the Unit 3 PSEP per RA-20-040.

A review of this activity in accordance with 10CFR50.54(q)(2) has been completed and has determined that the effectiveness of the PSEP is maintained. This revision aligns the procedure with the protocols of the post Unit 3 shutdown. None of the changes affect the ability to perform classifications, notifications or PARS. Additionally, it does not affect the activation of the Emergency Response Organization and the planning standard requirements are maintained. The changes made do not require a change to the Emergency Action Level scheme, On-Shift Staffing Study or the PSEP.

No further actions are required to screen or evaluate this activity under 10CFR50.54(q)(3).

Part V. Signatures:

Preparer Name (Print) Dara Gray	Preparer Signature 	Date: 4/1/2021
(Optional) Reviewer Name (Print)	Reviewer Signature	Date:
Reviewer Name (Print) Timothy Garvey Nuclear EP Project Manager	Reviewer Signature 	Date: 4/1/2021
Approver Name (Print) Emergency Planning Manager or designee	Approver Signature 	Date: 4/6/2021

**IP-EP-310, Dose Assessment
(Revision 21) Revision Matrix**

Change No.	Page/Section	Previous Version (20)	New Version	Editorial Change	Effect on 10 CFR 50.47(b) Planning Standards or NUREG-0654 program elements? Justify if NO.
1.	Cover Page	Rev 20	Rev 21	Yes	No- This is an editorial change to the Revision number and effective date. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.
2.	Table of Contents		Renumbered pages of Attachments	Yes	No- This is an editorial change to the procedure attachments. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.

**IP-EP-310, Dose Assessment
(Revision 21) Revision Matrix**

Change No.	Page/Section	Previous Version (20)	New Version	Editorial Change	Effect on 10 CFR 50.47(b) Planning Standards or NUREG-0654 program elements? Justify if NO.
3.	Section 1.0 Purpose	<p>1.0 PURPOSE To describe the methods of estimating the whole body and thyroid dose to the offsite population in the event of an accidental release of radioactivity to the environment.</p>	<p>1.0 PURPOSE To describe the methods of estimating the whole body and thyroid dose to the offsite population in the event of an accidental release of radioactivity to the environment from the Unit 2 and/or Unit 3 spent fuel pools.</p>	No	<p>No - Added statement regarding applicability to SFP releases for clarification. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>
4.	2.0 References	<p>2.8 IPEC Manual Dose Assessment Worksheet/Estimating Containment Activity via R-25 / 26 (Form EP-11)</p>	Deleted	No	<p>No - Form EP-11 is no longer applicable post-defueling because there is no significant source term remaining in containment. . The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>

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5.	2.0 References	2.9 Determination of Radioactive Airborne Concentrations (Form EP-32)	2.8 Determination of Radioactive Airborne Concentrations (Form EP-32)	No	No – Attachment numbering changed only. . The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.
6.	3.2 Definitions	3.2 Meteorological, Radiological, and Plant Data Acquisition System (MRP- DAS) – the system which provides meteorological, Reuter Stokes and certain plant parameter data (VC Temperature, VC Pressure, Plant Vent and VC High Radiation Monitors)	3.2 Meteorological, Radiological, and Plant Data Acquisition System (MRP- DAS) – the system which provides meteorological, Reuter Stokes and certain plant parameter data (e.g., Plant Vent Radioactivity Monitors)	No	No – Clarified the types of parameters that are applicable post-defueling. . The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.

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7.	Section 5.1 Tech Spec Table	<table border="1"> <thead> <tr> <th>Release Point</th> <th>Unit</th> <th>Rad Monitor</th> <th>Reading that is >TS</th> </tr> </thead> <tbody> <tr> <td>Plant Vent</td> <td>U2 or U3</td> <td>R-27</td> <td>1.3 E+5 uCi/sec</td> </tr> <tr> <td>Plant Vent</td> <td>U2</td> <td>R-44</td> <td>5.7 E-3 uCi/cc</td> </tr> <tr> <td>Plant Vent</td> <td>U3</td> <td>R-14</td> <td>4.0 E-3 uCi/cc</td> </tr> <tr> <td>Main Steam Line - SGTR</td> <td>U2</td> <td>R-28, R-29, R-30, R-31</td> <td>SGTR is considered</td> </tr> <tr> <td>Main Steam Line - SGTR</td> <td>U3</td> <td>R-62A, R-62B, R-62C, R-62D</td> <td>A release > TS</td> </tr> <tr> <td> Hole in Containment</td> <td>U2 or U3</td> <td>R-25, R-26</td> <td>1R/hr above background</td> </tr> </tbody> </table>	Release Point	Unit	Rad Monitor	Reading that is >TS	Plant Vent	U2 or U3	R-27	1.3 E+5 uCi/sec	Plant Vent	U2	R-44	5.7 E-3 uCi/cc	Plant Vent	U3	R-14	4.0 E-3 uCi/cc	Main Steam Line - SGTR	U2	R-28, R-29, R-30, R-31	SGTR is considered	Main Steam Line - SGTR	U3	R-62A, R-62B, R-62C, R-62D	A release > TS	Hole in Containment	U2 or U3	R-25, R-26	1R/hr above background	<table border="1"> <thead> <tr> <th>Release Point</th> <th>Unit</th> <th>Rad Monitor</th> <th>Reading that is >TS</th> </tr> </thead> <tbody> <tr> <td>Plant Vent</td> <td>U2 or U3</td> <td>R-27</td> <td>1.3 E+5 uCi/sec</td> </tr> <tr> <td>Plant Vent</td> <td>U2</td> <td>R-44</td> <td>5.7 E-3 uCi/cc</td> </tr> <tr> <td>Plant Vent</td> <td>U3</td> <td>R-14*</td> <td>4.0 E-3 uCi/cc</td> </tr> </tbody> </table>	Release Point	Unit	Rad Monitor	Reading that is >TS	Plant Vent	U2 or U3	R-27	1.3 E+5 uCi/sec	Plant Vent	U2	R-44	5.7 E-3 uCi/cc	Plant Vent	U3	R-14*	4.0 E-3 uCi/cc	No	<p>No - Clarified the radiological monitors that are applicable post-defueling.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>
Release Point	Unit	Rad Monitor	Reading that is >TS																																														
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8.	Section 5.1 Tech Spec Table, added NOTE		<p>Added text box below table that states:</p> <p align="center">* NOTE: R-14 not applicable for spent fuel accident releases</p>	No	<p>No - Clarified that because of R-14 detector design, it will not indicate accurately for a spent fuel accident and is therefore not applicable for that type of release.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>																																												

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9.	5.4.2	Determine radioactive release concentration or rate ($\mu\text{Ci}/\text{cc}$, $\mu\text{Ci}/\text{sec}$, OR CPM) and enter onto the appropriate Release Rate calculation form (Form EP-17 for Unit 2 or Form EP-18 for Unit 3). Values determined from installed radiation monitors OR via a Chemistry sample may be entered directly into the Release Rate calculation form:	Determine radioactive release concentration or rate ($\mu\text{Ci}/\text{cc}$, $\mu\text{Ci}/\text{sec}$, OR mR/hr) and enter onto the appropriate Release Rate calculation form (Form EP-17 for Unit 2 or Form EP-18 for Unit 3). Values determined from installed radiation monitors OR via a Chemistry sample may be entered directly into the Release Rate calculation form:	No	No – This change clarifies that exposure rate in mR/hr is more correct than cpm with the type of instrumentation used in calculations in forms EP-17 and EP-18. Clarified the radiological monitors that are applicable post-defueling. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.
10.	5.4.2.b	b. IF the plant vent survey is to be used, THEN: 1. Follow guidance provided in Attachment 9.4, Accident Monitoring of Noble Gas Concentration in the Plant Vent. 2. Convert contact field reading on the plant vent to $\mu\text{Ci}/\text{cc}$ release rate using conversion factor for appropriate time after shutdown, obtained from the appropriate Release Rate calculation form (Form EP-17 for Unit 2 and Form EP-18 for Unit 3).	b. IF the plant vent survey is to be used, THEN: 1. Follow guidance provided in Attachment 9.4, Accident Monitoring of Noble Gas Concentration in the Plant Vent. 2. Convert contact field reading on the plant vent to Curies/sec release rate using the conversion factor for appropriate time after shutdown, obtained from the appropriate Release Rate calculation form (Form EP-17 for Unit 2 and Form EP-18 for Unit 3).	No	No – This change simplifies the release rate determination by incorporating vent flow in the conversion constant. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.

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11.	5.4.2.c	c. IF back-calculating the Noble Gas release rate (NGRR) from field readings, THEN use Form EP-19.	c. IF back-calculating the Noble Gas release rate (NGRR) from field readings, THEN refer to Attachment 9.5 and Form EP-19.	No	<p>No – This wording clarifies that Attachment 9.5 and form EP-19 work together to determine noble gas release rate.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>
12.	5.4.2.d	d. IF using R-25 or R-26 to calculate the Noble Gas release rate (NGRR), THEN use Form EP-11.	Deleted	No	<p>No – Form EP-11 is no longer applicable post-defueling because there is no significant source term remaining in containment.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>

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13.	5.4.2.e	e. IF back-calculating the release rate from airborne samples, THEN refer to IP-EP-330, Airborne Sample Analysis, and Attachment 9.5.	Deleted	No.	No – This method for determining iodine release rate is superseded by another method described in Section 5.4.4 of this procedure and this step is no longer needed. . The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.
14.	5.4.4	Calculate the radioiodine release rate (Ci/sec) using the default equation (with the assumed NG/l ratio for the release point) on the appropriate Release Rate calculation form (Form EP-17 for Unit 2 and EP-18 for Unit 3). IF a chemistry sample is available, THEN use Attachment 9.7 to: a. Calculate the radioiodine release rate, and b. Determine the sample-specific thyroid dose conversion factor.	For Unit 2, no calculation of iodine release rate is needed because the radioiodine has decayed away. For Unit 3, use the table at the bottom of EP-18 to calculate the radioiodine release rate (Ci/sec). Multiply the Noble Gas release rate by the I-131 fraction for the applicable time after shutdown to obtain iodine release rate. <u>IF</u> a chemistry sample of the plant vent is available, <u>THEN</u> use Attachment 9.7 to calculate radioiodine release rate.	No.	No – This change clarifies the appropriate post-shutdown method for determination of iodine release, taking into account iodine decay. . The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.

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15.	Section 5.5.9	5.5.9 If required, estimate release rates utilizing High Range Vapor Containment radiation monitors R-25/26 (Form EP-11).	Deleted	No	No – Form EP-11 is no longer applicable post-defueling because there is no significant source term remaining in containment. . The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.
16.	5.5.10	If Core Damage Assessment results are available from the TSC, compare the results with the current dose assessment.	Deleted	No	No – Core damage assessment is no longer applicable post-shutdown because there is no fuel remaining in the reactor or containment. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.

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17.	Attachments Page 10	9.7 Use of Chemistry Sample to Determine Radioiodine Release Rate and Thyroid Dose Conversion Factor	9.7 Use of Chemistry Sample to Determine Radioiodine Release Rate		<p>No- Attachment 9.7 only calculates iodine release rates from the plant vent based only one I-131 and not an iodine mixture post-shutdown.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>
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18.	Attachment 9.5	<p>Sheet 1 of 2</p> <p>The following instrumentation/methodology can be used to determine the noble gas release rate.</p> <ul style="list-style-type: none"> •Plant vent monitor-low range (Direct Readout) •Plant vent monitor-high range (Direct Readout) •Plant vent survey-hand held instrument or remote readout •Isotopic analysis of sample taken from release point •Condenser air ejector monitor (Direct Readout). •Main steam line monitors. •Back-calculating a release rate based on actual field radiological data. •Containment radiation monitors R-25 and R-26 to measure the source term within containment and to estimate potential releases from containment. •Potential exposure to the population if a future release of the existing containment source term occurs, utilizing the following information: <ol style="list-style-type: none"> 1. Containment pressure relief line contains three isolation valves (one in containment and two outside). 2. Containment purge system contains two isolation valves on the Inlet Duct (one in containment and one outside). 3. Containment purge system contains two isolation valves on the Exhaust Duct (one in containment and one outside). 4. Weld Channel (WC) and Isolation Valve Seal Water System (IVSWS) are pressurized to ensure that during accident conditions, a pressure build up to AT LEAST 50 psi in containment would NOT cause a leak of 	<p>Sheet 1 of 1</p> <p>The following instrumentation/methodology can be used to determine the noble gas release rate.</p> <ul style="list-style-type: none"> • Plant vent monitor (R-44 or R-27 for Unit 2, and R-27 for Unit 3 (Form EP-17 or EP-18) • Plant vent survey-hand held instrument or remote readout (Form EP-17 or EP-18) • Isotopic analysis of sample taken from release point (Form EP-17 or EP-18) • Back-calculating a release rate based on actual field radiological data from an offsite location. (Form EP-19) <p>Complete Form EP-19, Back Calculating Release Rate from Field Data.</p> $\text{NG Release Rate (Ci/sec)} = \frac{\text{mR/hr in field} \times \text{wind speed (m/sec)}}{\text{DCF} \times \text{Xu/Q dispersion factor}}$ <p>Where: DCF is in units of mR/hr per uCi/cc, and Xu/Q dispersion factor is in units of m-2</p>	No	<p>No – Identified only the radiological sources, monitors flow paths and forms that are applicable post-defueling.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>
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		radioactive material to the environment as long as the isolation valves remained in the closed position.			
19.	Attachment 9.5 Sheet 2 of 2	<p>5. WITHOUT WC AND IVSWS, BUT with isolation valves closed, the containment leak rate is expected to be LESS THAN 0.1% of the containment volume per day (Tech Spec) WITH a pressure buildup to 50 psi inside containment. At lower pressures the leak rate would be smaller, approaching zero as the pressure differential approaches zero.</p> <p>6. Containment Volume = $2.6 \times 10^6 \text{ ft}^3 = 7.4 \times 10^{10} \text{ cc}$</p> <p>7. For Post-Steam Generator Tube Rupture (SGTR) cool-down using blow-down situations, the determination of the gaseous release rate from the blowdown flash tank SHALL be accomplished by determining the noble gas concentration in the faulted SG blowdown (Chem sample $\mu\text{Ci/cc}$) AND the blowdown rate (GPM).</p>	Deleted	No	<p>No – Clarified the radiological sources, parameters and flow paths that are applicable post-defueling.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>

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20.	Attachment 9.6 Sheet 1 of 2 Top of Flow Chart	(Time After Shutdown, Hrs)	Time After Shutdown	No	<p>No – Deleted "Hrs" because longer decay periods (weeks, months) are more applicable post-defueling and corresponding dose factors are provided for in revised procedure calculations.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>
21.	Attachment 9.6 page 1 of 2 Noble Gas Dose Conversion Factors	Noble Gas Dose Conversion Factors at bottom of page.	<p>Replaced table values with noble gas dose factors for longer time periods post-shutdown in calendar months.</p> <p>Added note at bottom:</p> <p>**Assumes shutdown date for Unit 3 of 4/30/2021; For Unit 2, Noble Gas DCF is 1.6 E+3 for all dates</p>	No	<p>No- Dose conversion factors were extended out to reflect longer time periods U2 and U3 post-shutdown.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>

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22.	Attachment 9.6 page 2 of 2	Iodines* Dose conversion factor in table: 8.0 E+8	Iodine Dose conversion factor in table: 2.6 E+9	No	No- The child thyroid dose conversion factor was changed to reflect only I-131 versus a mixture with other shorter-lived iodine isotopes which quickly decay post-shutdown. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.
23.	Attachment 9.6 page 2 of 2	* Note: if time is > 24 hr, then use an iodine dose conversion factor of 2.6 E+9.	Deleted	No	No – Deleted reference to iodine dose conversion factor which is not applicable post-shutdown due to the decay of the short half-life of iodine isotopes. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.

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24.	Attachment 9.6 page 2 of 2	<p>Note: The above calculation is for one location at one time a few hours after plant shutdown. If practical, 3 or more such determinations of NG/I ratios from multiple locations should be performed.</p>	<p>Note: The above calculation is for one location at one time following a release. If practical, 3 or more such determinations of NG/I ratios from multiple locations should be performed.</p>	No	<p>No- Clarified the meaning of the note, which would apply any time after a release over an extended period post-shutdown.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>
25.	Attachment 9.7 (Title)	<p>9.7 Use of Chemistry Sample to Determine Radioiodine Release Rate and Thyroid Dose Conversion Factor Sheet 1 of 2</p> <p>Part 1 – Determine Radioiodine Release Rate Based on Chem. Sample</p> <p>Multiply [iodine uCi/cc] x [volume or mass release rate] x [constant] = iodine Ci/sec</p>	<p>Use of Chemistry Sample to Determine Radioiodine Release Rate Sheet 1 of 1</p> <p>Determine Radioiodine Release Rate Based on Chem. Sample</p> <p>Multiply [iodine uCi/cc] x [volume release rate] x [constant] = iodine Ci/sec</p>	No	<p>No- Attachment 9.7 only calculates iodine release rates from the plant vent based only one I-131 and not an iodine mixture post-shutdown.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.</p>

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26.	Attachment 9.7 page 1 of 2 (top block)	For plant vent or air ejector:	For plant vent:	No	No- Clarified that air ejector would not be a release point post-shutdown. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.
27.	Attachment 9.7 page 1 of 2 (middle and bottom blocks)	2 bottom blocks for Main Steam Line and SG Blowdown releases, including headings uCi/cc iodine, lbm/hr, Constant (2) and Iodine Ci/sec	Delete 2 bottom blocks for Main Steam Line and SG Blowdown releases including headings.	No	No- Clarified that Main Steam Line and SG Blowdown would not be release points post-shutdown. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.

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28.	Attachment 9.7 page 1 of 2 Notes at bottom of page	(2) constant converts uCi/cc x lbm/hr to Ci/sec, using Ci/uCi, expected steam density, and hr/sec (3) constant converts uCi/cc x gpm to Ci/sec, using Ci/uCi, cc/gal, and min/sec	Notes (2) and (3) deleted	No	No- Notes 2 and 3 related to Main Steam Line and SG Blowdown release points and are no longer applicable post-shutdown. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.								
29.	Attachment page 2 of 2 Thyroid Dose Factors	<table border="1"> <tr> <td>I-132</td> <td>1.50E+07</td> </tr> <tr> <td>I-133</td> <td>4.40E+08</td> </tr> <tr> <td>I-134</td> <td>2.60E+06</td> </tr> <tr> <td>I-135</td> <td>7.60E+07</td> </tr> </table>	I-132	1.50E+07	I-133	4.40E+08	I-134	2.60E+06	I-135	7.60E+07	Page 2 of 2 deleted.	No	No- The dose factor will always be for I-131, therefore the weighted factors for other iodine isotopes are not needed and page 2-2 was deleted. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.
I-132	1.50E+07												
I-133	4.40E+08												
I-134	2.60E+06												
I-135	7.60E+07												

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30.	Section 5.4.15	To help visualize plume location, MIDAS plume data can be displayed directly from the MIDAS program or a MIDAS shape file can be exported to a Geographical Information System mapping software program in the EOF for display . Use IP-EP-410, Attachment 9.4 or the overlay book cover for manual plume visualization on the overlay table.	To help visualize plume location, MIDAS plume data can be displayed directly from the MIDAS program. Use IP-EP-410, Attachment 9.4 or the overlay book cover for manual plume visualization on the overlay table.	No	No – Deleted reference to a non- official test display program which did not provide any added value. The meaning or intent of description in the emergency plan, facilities or equipment described in the Emergency Plan or a process described in the Emergency Plan are not affected by this change. No further evaluation is required for this change.
	END				

Attachment 9.1

Emergency Planning Document Change Checklist Form

(All sections must be completed, N/A or place a check on the line where applicable)

Section 1

Doc/Procedure Type:	Administrative <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> EPLAN <input type="checkbox"/> N/A <input type="checkbox"/>
Doc/Procedure No:	IP-EP-310
Doc/Procedure Title:	Dose Assessment
New revision number:	21
Corrective Action:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> CR#: <u>OL-OLI-2018-00090 CA 19</u>
Effective date:	May 17, 2021

Section 2

Change Description

1. Ensure the following are completed, or are not applicable and are so marked:

- a. 50.54q N/A
- b. EN-FAP-OM-023 N/A
- c. IP-SMM- AD-102 N/A
- d. OSRC N/A
- e. NRC Transmittal N/A
(within 30 days)

2. List any other documents affected by this change: N/A

3. Transmittals are completed: N/A Date: 4/29/21

4. Ensure the proper revision is active in eB Ref. Lib.: N/A

5. Approved doc/procedure delivered to Doc. Control for distribution: N/A Date: 4/29/21

6. Position Binders updated: N/A Date: 4/29/21

7. Copy of EPDCC placed in EP file: N/A Date: 4/29/21

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9. Word files are moved from working drafts folder to current revision folder in the EP drive:
 N/A Date: 5/17/21



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CONTROLLED

Dose Assessment

Prepared by:

Dara Gray

Print Name

Dara Gray

Signature

4/6/2021

Date

Approval:

Frank J. Mitchell

Print Name

Frank J. Mitchell

Signature

4/6/2021

Date

Effective Date: May 17, 2021

This procedure excluded from further LI-100 review


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1.0 PURPOSE

To describe the methods of estimating the whole body and thyroid dose to the offsite population in the event of an accidental release of radioactivity to the environment from the Unit 2 and/or Unit 3 spent fuel pools. A manual method of calculation is provided in case the computer method is unavailable.

2.0 REFERENCES

- 2.1 IP-EP-330, Airborne Sample Analysis
- 2.2 IP-EP-340, Meteorological Information and Dose Assessment System (MIDAS)
- 2.3 IP-EP-510, Meteorological, Radiological & Plant Data Acquisition System
- 2.4 IP-2 Manual Determination of Release Rate (Form EP-17)
- 2.5 IP-3 Manual Determination of Release Rate (Form EP-18)
- 2.6 Manual Dose Assessment Worksheet (Form EP-13)
- 2.7 IPEC Manual Dose Assessment Worksheet/Back-Calculating Release Rate from Field Data (Form EP-19)
- 2.8 Determination of Radioactive Airborne Concentrations (Form EP-32)

3.0 DEFINITIONS

- 3.1 Meteorological Information and Data Acquisition System (MIDAS) - the computer system that collects radiation monitor data, meteorological data, and calculates/displays offsite radiation doses.
- 3.2 Meteorological, Radiological, and Plant Data Acquisition System (MRP-DAS) – the system which provides meteorological, Reuter Stokes and certain plant parameter data (e.g., Plant Vent Radioactivity Monitors).
- 3.3 Total Effective Dose Equivalent (TEDE) – The sum of the Deep Dose Equivalent (DDE) and the Committed Effective Dose Equivalent (CEDE).
- 3.4 Committed Effective Dose Equivalent – The sum of the products of the weighting factors applicable to each of the body organs or tissues that are irradiated and the committed dose equivalent to these organs or tissues.
- 3.5 Committed Dose Equivalent-Thyroid (CDE-Thy) - The committed dose from an intake of radioactive material to a body organ (i.e., thyroid).
- 3.6 Site Boundary – For Dose Assessment and Protective Action Recommendation purposes, the Site Boundary is the closest distance at which members of the public would be exposed to a radioactive release.



When the plume is traveling toward the water, the distance to the nearest point on the opposite side of Hudson River will be considered as the Site Boundary.

- 3.7 Release - as it is used at IPEC for Emergency Planning is defined as "A release of radioactive materials due to the classified event" (per NYS Radiological Emergency Data Form, Part 1). In accordance with the Part 1 form, "Release" is classified as one of the 4 following descriptions:
- A. NO Release
 - B. Release BELOW Federal Limits
 - C. Release ABOVE Federal Limits
 - D. Unmonitored Release Requiring Evaluation

4.0 RESPONSIBILITIES

Dose Assessment staff in the Control Room (CR) and in the Emergency Operations Facility (EOF) are responsible for assessing actual and potential radioactive releases to the environment in an emergency.

5.0 DETAILS

NOTE :

All forms specified in Section 5.0 are provided in IP-EP-115.

- 5.1 Determine if there is a plant release above Federal Limits based on the following table:

Release Point	Unit	Rad Monitor	Reading that is >TS
Plant Vent	U2 or U3	R-27	1.3 E+5 uCi/sec
Plant Vent	U2	R-44	5.7 E-3 uCi/cc
Plant Vent	U3	R-14*	4.0 E-3 uCi/cc

*** NOTE :**

R-14 not applicable for spent fuel accident releases

- 5.2 Upon activation of the IPEC ERO and as the IPEC Plant Conditions require, perform dose assessment. When performing the Dose Assessment function, use MIDAS (IP-EP-340) as the primary method. If there is no access to a dose assessment software program, dose assessment is to be completed using Hand Calculations (Section 5.4).
- 5.3 Necessary information to perform Dose Assessment is available using MRP-DAS (IP-EP-510).



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- 5.4 Hand calculations for dose assessment are to be performed if the necessary dose assessment software is not available. Perform hand calculations as follows:

NOTE:

IF a General Emergency has been declared, **THEN** use IP-EP-410 "Protective Action Recommendations" to determine what protective action recommendations should be conveyed to the ED/RAC. Ensure the EPM in the TSC is made aware of any Protective Action Recommendations.

- 5.4.1 Obtain the proper release rate calculation form (Form EP-17 for Unit 2 and Form EP-18 for Unit 3).
- 5.4.2 Determine radioactive release concentration or rate ($\mu\text{Ci}/\text{cc}$, $\mu\text{Ci}/\text{sec}$, OR mR/hr) and enter onto the appropriate Release Rate calculation form (Form EP-17 for Unit 2 or Form EP-18 for Unit 3). Values determined from installed radiation monitors OR via a Chemistry sample may be entered directly into the Release Rate calculation form:
- IF** a Chemistry sample is available, **THEN** use Attachment 9.7 to calculate the radioiodine release rate.
 - IF** the plant vent survey is to be used, **THEN:**
 - Follow guidance provided in Attachment 9.4, Accident Monitoring of Noble Gas Concentration in the Plant Vent.
 - Convert contact field reading on the plant vent to Curies/sec release rate using the conversion factor for appropriate time after shutdown, obtained from the appropriate Release Rate calculation form (Form EP-17 for Unit 2 and Form EP-18 for Unit 3).
 - IF** back-calculating the Noble Gas release rate (NGRR) from field readings, **THEN** refer to Attachment 9.5 and Form EP-19.
- 5.4.3 If Noble Gas concentrations ($\mu\text{Ci}/\text{cc}$) are entered in the Release Rate calculation form (Form EP-17 for Unit 2 or EP-18 for Unit 3), use the proper equation(s) on the appropriate section of the Release Rate calculation form to calculate the Noble Gas Release Rate (NGRR).
- 5.4.4 For Unit 2, no calculation of Iodine release rate is needed because the radioiodine has decayed away. For Unit 3, use the table at the bottom of EP-18 to calculate the radioiodine release rate (Ci/sec). Multiply the Noble Gas release rate by the I-131 fraction for the applicable time after shutdown to obtain iodine release rate.
- IF** a chemistry sample of the plant vent is available, **THEN** use

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Attachment 9.7 to calculate radioiodine release rate.

- 5.4.5 Obtain the appropriate X_{μ}/Q_s from Attachment 9.1 or 9.2. Record these values on the Manual Dose Assessment Worksheet (Form EP-13).
- 5.4.6 Obtain meteorological data in accordance with IP-EP-510.
- 5.4.7 Enter the release rates (RR), wind speed (WS) AND appropriate constants on the Manual Dose Assessment Worksheet (Form EP-13).
- 5.4.8 Determine the TEDE (Whole Body) AND CDE-Thy dose rates at the site boundary, 2, 5, AND 10 mile distances. (Form EP-13)


NOTE

Use four (4) hours as the default release duration, unless information exists that clearly supports a different release duration.

- 5.4.9 Determine exposure rates if desired, at other distances utilizing the X_{μ}/Q values from Attachment 9.2.
- 5.4.10 Determine required Protective Action Recommendations (Procedure IP-EP-410, Attachment 9.1), **IF** the projected or actual doses at any offsite location exceed the following:
 - a. 1 Rem Integrated Dose TEDE, or
 - b. 5 Rem Integrated Dose CDE-Thy

THEN:

 - If in the CR, inform the Shift Manager (SM)/Emergency Director (ED).
 - If in the Emergency Operations Facility (EOF)/ Alternate Emergency Operations Facility (AEOF), inform the Radiological Assessment Coordinator.
- 5.4.11 **IF** there is a radioactive release, **THEN** contact Chemistry / Environmental Personnel as time permits to determine if it is above the Reportable Quantities set forth in 40 CFR302, Appendix B. If so, ensure the reportability requirements specified in IP-SMM-LI-108 are met within 24 hours.

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5.4.12 **IF** there is a radioactive release to the environment above Federal limits (using the table in step 5.1), **THEN** complete Parts I & II of New York State Radiological Data Form (Forms EP-1 and EP-2) These forms can be filled in by hand or refer to procedure IP-EP-340, "Meteorological Information and Dose Assessment System" to have MIDAS automatically print out these forms.

5.4.13 "New York State Radiological Emergency Data Form – Part II" (Form EP-2) **SHALL** be completed and transmitted:

- a. As soon as possible after it has been determined that a release above Federal Limits exists.
- b. If there is a significant change in the radioactive release.
- c. With updates approximately every 30 minutes; time interval may be lengthened with concurrence of offsite agencies.

5.4.14 **IF** electronic emailing and faxing using MIDAS is not operational, **THEN** process the NYS Radiological Emergency Data Form Parts I & II (Forms EP-1 and EP-2) as follows:

- a. Receive form(s) from the Offsite Communicator, verifying that the form(s) are signed by the Emergency Director (ED).
- b. Telecopy form(s) to NYS, Counties and JIC.
- c. Maintain Fax Report (printed from the fax machine) as record.
- d. Make and distribute copies of the form to NRC, FEMA, State and County representatives in the EOF.
- e. Return original form and 2 copies to the Offsite Communicator.

5.4.15 To help visualize plume location, MIDAS plume data can be displayed directly from the MIDAS program. Use IP-EP-410, Attachment 9.4 or the overlay book cover for manual plume visualization on the overlay table.

5.5 In the EOF only:

- 5.5.1 Calculate projected doses using MIDAS, or manual methods.
- 5.5.2 If available, verify projected doses with actual field radiological data.



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5.5.3 At the earliest time when offsite radioiodine concentration is available, calculate the ratios of noble gas to iodine concentrations and corresponding dose rates using Attachment 9.6. Report the concentration ratio to the stakeholders on the Part II Form, Field Measurement Section.

- a. Obtain a closed window gamma reading in the plume (mrem/hr).
- b. Obtain iodine concentration in the plume ($\mu\text{Ci/cc}$).
- c. Convert gamma dose rate to noble gas concentration.
- d. Calculate the ratio of noble gas concentration to iodine concentration.
- e. Calculate the ratio of whole body dose rate to thyroid dose rate.
 1. **IF** the dose rate ratio is about 0.2 or higher, **THEN** noble gas (whole body/TEDE) dose rates will be more limiting than iodine (CDE-Thy) dose rates. Evaluate protective actions for possible changes.
 2. **IF** the dose rate ratio is less than about 0.2, **THEN** iodine (CDE-Thy) dose rates will be more limiting than noble gas (whole body/TEDE) dose rates. Evaluate protective actions for possible changes.


5.5.4 **IF** offsite gamma dose rates are available, **THEN** verify release rates determined from plant data using the "IPEC Manual Dose Assessment Worksheet/Back-Calculating Release Rate from Field Data" (Form EP-19).

5.5.5 Review Site Perimeter surveys.

5.5.6 Review Field Surveys.

5.5.7 Review current and historical Reuter Stokes data, to determine if a release has occurred or is occurring. Attachment 9.3, "Reuter-Stokes Location X_{μ}/Q Values" provides X_{μ}/Q values for comparison purposes.

5.5.8 Exchange offsite monitoring and projected data with State and Counties.

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6.0 INTERFACES

- 6.1 IP-EP-410, Protective Action Recommendations
- 6.2 IP-EP-340, Meteorological Information and Dose Assessment System (MIDAS)
- 6.3 IP-EP-510, Meteorological, Radiological & Plant Data Acquisition System
- 6.4 Westchester, Rockland, Putnam, Orange County Radiological Emergency Response Plans
- 6.5 2-CY-3940, Plant Vent Sampling During Accident Conditions
- 6.6 3-CY-3920, Sampling Containment Atmosphere and Plant Vent During Accident Conditions
- 6.7 IP-SMM-LI-108, Event Notification and Reporting

7.0 RECORDS

Forms and reports completed during an actual emergency are permanent records.

8.0 REQUIREMENTS AND COMMITMENT CROSS-REFERENCE

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9.0 ATTACHMENTS

- 9.1 Site Boundary $X\mu/Q$ (m^{-2}) by Pasquill Stability Category
- 9.2 $X\mu/Q$ (m^{-2}) Values for Other Distances
- 9.3 Reuter-Stokes Location $X\mu/Q$ (m^{-2}) Values
- 9.4 Accident Monitoring of Noble Gas Concentration in the Plant Vent
- 9.5 Determination of Noble Gas Release Rate – Discussion
- 9.6 Determination of Noble Gas to Iodine Concentration and Dose Rate Ratios from Field Monitoring Data
- 9.7 Use of Chemistry Sample to Determine Radioiodine Release Rate



Attachment 9.1

Site Boundary X_{μ}/Q (m^{-2}) by Pasquill Stability Category
Cross Valley (Wind Direction from 210° – 348° or Wind Speed > 4 m/s)
Sheet 1 of 2

Sector	Wind From	Distance (Meters)	Pasquill Categories						
			A	B	C	D	E	F	G
1*	168.7° to 191.2°	2977	5.5 E-7	9.0 E-7	5.7 E-6	2.1 E-5	4.3 E-5	1.1 E-4	2.0 E-4
2*	191.2° to 213.7°	3234	5.2 E-7	1.0 E-6	5.0 E-6	1.9 E-5	3.9 E-5	9.6 E-5	1.8 E-4
3	213.7° to 236.2°	716	3.6 E-6	2.0 E-5	5.3 E-5	1.5 E-4	2.7 E-4	4.9 E-4	7.1 E-4
4	236.2° to 258.7°	701	3.7 E-6	2.0 E-5	5.4 E-5	1.6 E-4	2.7 E-4	5.0 E-4	7.2 E-4
5	258.7° to 281.2°	762	3.2 E-6	1.8 E-5	4.8 E-5	1.4 E-4	2.5 E-4	4.7 E-4	6.8 E-4
6	281.2° to 303.7°	625	4.7 E-6	2.5 E-5	6.4 E-5	1.8 E-4	3.1 E-4	5.5 E-4	7.9 E-4
7	303.7° to 326.2°	610	4.9 E-6	2.6 E-5	6.6 E-5	1.9 E-4	3.2 E-4	5.6 E-4	8.0 E-4
8	326.2° to 348.7°	701	3.7 E-6	2.0 E-5	5.4 E-5	1.6 E-4	2.7 E-4	5.0 E-4	7.2 E-5
9	348.7° to 11.2°	1006	2.1 E-6	1.0 E-5	3.2 E-5	9.9 E-5	1.8 E-4	3.6 E-4	5.4 E-4
10	11.2° to 33.7°	1006	2.1 E-6	1.0 E-5	3.2 E-5	9.9 E-5	1.8 E-4	3.6 E-4	5.4 E-4
11	33.7° to 56.2°	488	7.7 E-6	3.6 E-5	8.8 E-5	2.5 E-4	4.0 E-4	6.7 E-4	9.2 E-4
12*	56.2° to 78.7°	2349	6.6 E-7	1.5 E-6	8.3 E-6	3.0 E-5	6.0 E-5	1.4 E-4	2.6 E-4
13*	78.7° to 101.2°	1802	8.1 E-7	3.2 E-6	1.3 E-5	4.3 E-5	8.5 E-5	1.9 E-4	3.3 E-4
14*	101.2° to 123.7°	1689	9.0 E-7	3.7 E-6	1.4 E-5	4.8 E-5	9.2 E-5	2.0 E-4	3.5 E-4
15*	123.7° to 146.2°	1432	1.2 E-6	5.1 E-6	1.9 E-5	6.1 E-5	1.2 E-4	2.4 E-4	4.0 E-4
16*	146.2° to 168.7°	1416	1.2 E-6	5.2 E-6	1.9 E-5	6.2 E-5	1.2 E-4	2.5 E-4	4.0 E-4

* Plume for these sectors goes over the water before it touches public or private land. Site boundary in these cases is taken to be the landfall point at the sector center.



Attachment 9.1

Sheet 2 of 2

Site Boundary $X\mu/Q$ (m^2) by Pasquill Stability Category
Up Valley Plumes (wind speed ≤ 4 m/s) Wind Direction from $102^\circ - 209^\circ$ (1)

<u>Pasquill Categories</u>						
A	B	C	D	E	F	G
5.2 E-7	1.0 E-6	5.0 E-6	1.9 E-5	3.9 E-5	9.6 E-5	1.8 E-4

Site Boundary $X\mu/Q$ (m^2) by Pasquill Stability Category
Down Valley Plumes (wind speed ≤ 4 m/s) Wind Direction from $349^\circ - 101^\circ$ (2)

<u>Pasquill Categories</u>						
A	B	C	D	E	F	G
3.7 E-6	1.0 E-5	3.2 E-5	9.9 E-5	1.8 E-4	3.6 E-4	5.4 E-4

(1) Plume centerline will always cross the site boundary at Sector 2. Therefore, the Sector 2 $X\mu/Q$ values are used.

(2) Plume centerline will cross the site boundary at either Sector 8 (Pasquill Category A) or Sector 10 (for Pasquill Category B – G)



Attachment 9.2

X μ /Q Values for other Distances (m²)

Sheet 1 of 1

Miles	Distance (Meters)	Pasquill Categories						
		A	B	C	D	E	F	G
1.0	1608	9.5 E-7	4.0 E-6	1.5 E-5	5.0 E-5	9.0 E-5	2.1 E-4	3.4 E-4
1.5	2412	6.3 E-7	2.1 E-6	1.1 E-5	2.0 E-5	5.4 E-5	1.3 E-4	2.2 E-4
2.0	3216	5.2 E-7	8.3 E-7	5.0 E-6	1.9 E-5	3.9 E-5	9.6 E-5	1.8 E-4
2.5	4020	4.4 E-7	5.8 E-7	3.5 E-6	1.4 E-5	3.7 E-5	7.0 E-5	1.7 E-4
3.0	4824	3.6 E-7	5.0 E-7	2.8 E-6	1.0 E-5	2.2 E-5	5.7 E-5	1.3 E-4
3.5	5628	3.2 E-7	4.2 E-7	2.0 E-6	8.1 E-6	1.8 E-5	4.7 E-5	1.1 E-4
4.0	6432	2.8 E-7	3.7 E-7	1.6 E-6	6.8 E-6	1.5 E-5	4.0 E-5	9.4 E-5
4.5	7236	2.6 E-7	3.5 E-7	1.4 E-6	5.8 E-6	1.3 E-5	3.5 E-5	7.3 E-5
5.0	8040	2.4 E-7	3.2 E-7	1.2 E-6	5.1 E-6	1.1 E-5	3.1 E-5	6.7 E-5
5.5	8844	2.1 E-7	3.1 E-7	9.9 E-7	4.4 E-6	1.0 E-5	2.8 E-5	5.9 E-5
6.0	9648	2.0 E-7	2.7 E-7	8.3 E-7	3.8 E-6	9.1 E-6	2.5 E-5	5.4 E-5
6.5	10452	1.9 E-7	2.5 E-7	7.5 E-7	3.5 E-6	8.2 E-6	2.3 E-5	5.0 E-5
7.0	11256	1.8 E-7	2.4 E-7	6.7 E-7	3.2 E-6	7.5 E-6	2.1 E-5	4.7 E-5
7.5	12060	1.7 E-7	2.3 E-7	6.1 E-7	3.0 E-6	6.9 E-6	1.9 E-5	4.3 E-5
8.0	12864	1.6 E-7	2.2 E-7	5.5 E-7	2.7 E-6	6.3 E-6	1.8 E-5	4.1 E-5
8.5	13668	1.5 E-7	2.1 E-7	5.0 E-7	2.5 E-6	5.8 E-6	1.7 E-5	3.8 E-5
9.0	14472	1.5 E-7	2.0 E-7	4.6 E-7	2.3 E-6	5.5 E-6	1.6 E-5	3.6 E-5
9.5	15276	1.4 E-7	1.9 E-7	4.2 E-7	2.1 E-6	5.4 E-6	1.5 E-5	3.4 E-5
10.0	16080	1.4 E-7	1.8 E-7	4.0 E-7	2.1 E-6	5.3 E-6	1.5 E-5	3.4 E-5




Attachment 9.3

Reuter-Stokes Location $X_{\mu/Q}$ Values (m^2)

Sheet 1 of 1

Sector Monitor Distance (m)		Stability Class						
		A	B	C	D	E	F	G
1	3226	5.3E-7	8.4E-7	5.1E-6	1.9E-5	4.0E-5	9.8E-5	1.8E-4
2	3379	5.2E-7	8.3E-7	5.0E-6	1.8E-5	3.9E-5	9.7E-5	1.7E-4
3	2574	6.3E-7	1.2E-6	7.3E-6	2.6E-5	5.3E-5	1.2E-4	2.4E-4
4	1448	1.2E-6	4.6E-6	1.8E-5	6.1E-5	1.1E-4	2.4E-4	3.9E-4
5	1287	1.4E-6	6.4E-6	2.3E-5	7.3E-5	1.4E-4	2.8E-4	4.4E-4
6	643	4.3E-6	2.2E-5	6.0E-5	1.8E-4	3.0E-4	5.5E-4	7.7E-4
7	643	4.3E-6	2.2E-5	6.0E-5	1.8E-4	3.0E-4	5.5E-4	7.7E-4
8	804	2.9E-6	1.7E-5	4.5E-5	1.3E-4	2.4E-4	4.5E-4	6.6E-4
9	1126	1.8E-6	8.5E-6	2.6E-5	8.1E-5	1.5E-4	3.2E-4	4.9E-4
10	1287	1.4E-6	6.4E-6	2.3E-5	7.3E-5	1.4E-4	2.8E-4	4.4E-4
11	1287	1.4E-6	6.4E-6	2.3E-5	7.3E-5	1.4E-4	2.8E-4	4.4E-4
12	2494	6.4E-7	1.3E-6	7.5E-6	2.7E-5	5.6E-5	1.2E-4	2.4E-4
13	1870	8.0E-7	2.7E-6	1.2E-5	4.2E-5	8.1E-5	1.8E-4	3.2E-4
14	1870	8.0E-7	2.7E-6	1.2E-5	4.2E-5	8.1E-5	1.8E-4	3.2E-4
15	1648	9.4E-7	3.9E-6	1.5E-5	5.0E-5	9.7E-5	2.1E-4	3.6E-4
16	1770	8.4E-7	3.3E-6	1.3E-5	4.5E-5	8.8E-5	1.9E-4	3.4E-4

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Attachment 9.4


Accident Monitoring of Noble Gas Concentrations in the Plant Vent
Sheet 1 of 2

NOTE

1. The Technical Support Center (TSC) Radiological Coordinator will determine which reading to obtain first; plant vent or back-up plant vent monitoring.
2. Locations and equipment may be different from Unit 2 or Unit 3

Radiation readings may be obtained on the plant vent by the following:

- a. Follow the provisions used by the TSC to plan and track team assignments.
- b. Use a telescoping radiation monitoring instrument (e.g. teletector or equivalent) to perform this function.
- c. As requested by TSC Radiological Coordinator or Control Room (CR), **REPORT** radiation levels.
- d. Proceed to the Containment Airlock area.
- e. Using the fan-building wall for shielding, obtain radiation readings by Vapor Containment purge and exhaust ducts.
- f. **CAUTION**
The door leading out to the plant vent area may lock when closed. To prevent being trapped in the plant vent area, **BLOCK OPEN THE DOOR** prior to going to the plant vent area.
- g. Proceed through the door to the plant vent area.
- h. Obtain radiation readings at the following locations:
 - i. 6 feet from the plant vent 10 feet above the floor.
 - j. Contact with the plant vent 10 feet above the floor.
- k. Notify the TSC or CR that radiation readings have been obtained and follow instructions as directed.


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Attachment 9.4

Accident Monitoring of Noble Gas Concentrations in the Plant Vent
Sheet 2 of 2

Backup plant vent monitoring readings may be obtained by the following:

- a. Request a team be dispatched to obtain and analyze Plant Vent Sample.
- b. **IF** a sample from the plant vent is required from Unit 2 **THEN** follow chemistry procedure 2-CY-3940 "Plant Vent Sampling During Accident Conditions"
- c. **IF** a sample from the plant vent is required from Unit 3 **THEN** follow Chemistry procedure 3-CY-3920 "Sampling Containment Atmosphere and Plant Vent During Accident Conditions"
- d. Report the results to the TSC or CR and **FOLLOW INSTRUCTIONS** as directed.

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Attachment 9.5
Determination of Noble Gas Release Rate – Discussion
Sheet 1 of 1

The following instrumentation/methodology can be used to determine the noble gas release rate.

- Plant vent monitor (R-44 or R-27 for Unit 2, and R-27 for Unit 3 (Form EP-17 or EP-18)
- Plant vent survey-hand held instrument or remote readout (Form EP-17 or EP-18)
- Isotopic analysis of sample taken from release point (Form EP-17 or EP-18)
- Back-calculating a release rate based on actual field radiological data from an offsite location. (Form EP-19)

Complete Form EP-19, Back Calculating Release Rate from Field Data.

$$\text{NG Release Rate (Ci/sec)} = \frac{\text{mR/hr in field} \times \text{wind speed (m/sec)}}{\text{DCF} \times \text{Xu/Q dispersion factor}}$$

Where:

DCF is in units of mR/hr per uCi/cc, and
Xu/Q dispersion factor is in units of m⁻²

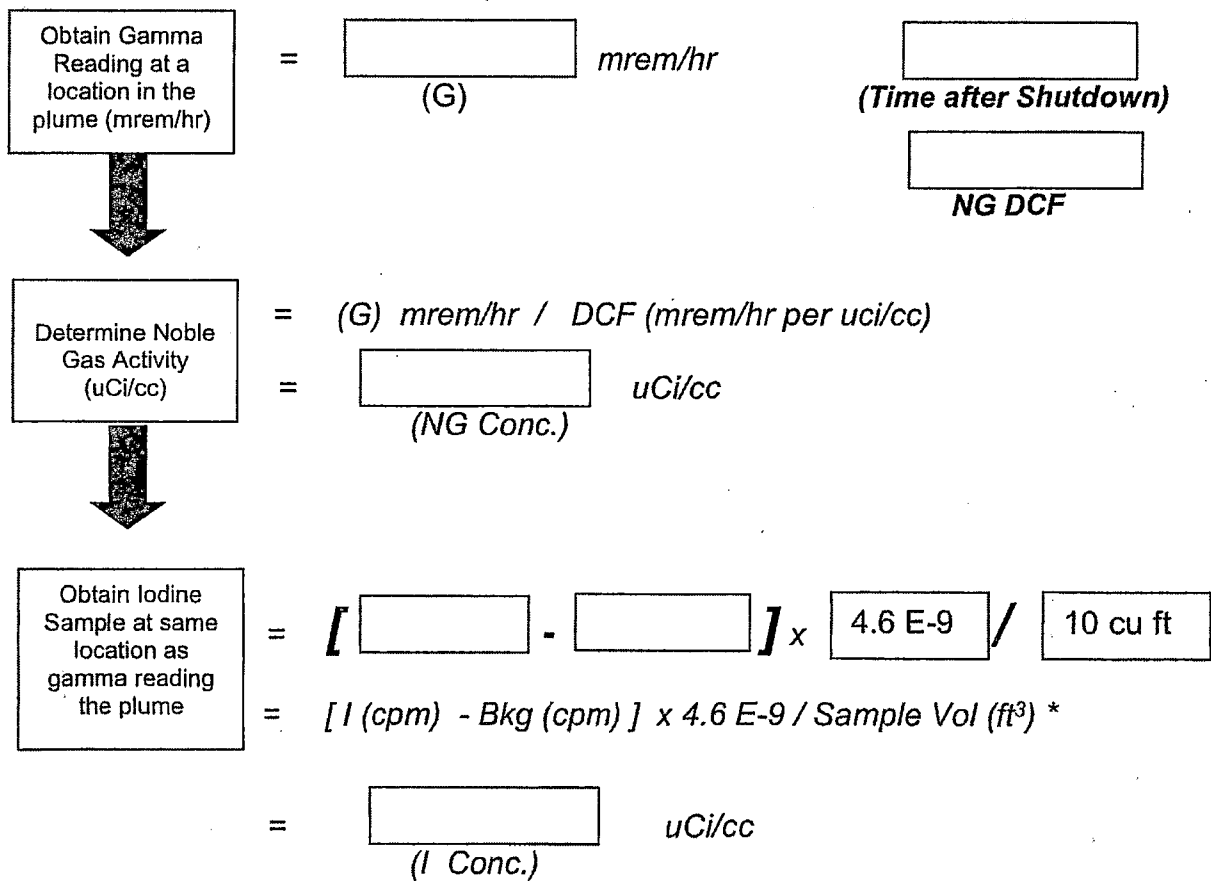


Attachment 9.6

Determination of Noble Gas to Iodine Concentration and Dose Rate Ratios from
Field Monitoring Data

Sheet 1 of 2

Part 1 – Flow Chart – Gamma Dose Rates, and NG and Iodine Air Sample
Concentrations



* Equation based on frisker efficiency (of about 0.0034 cpm/dpm) and the conversions of dpm to uCi and cu. ft. to cc.

Noble Gas Dose Conversion Factors **	
Time After Shutdown	Noble Gas DCF (mrem/hr per uci/cc)
May 2021	2.0 E+4
June 2021	1.5 E+4
July 2021	2.7 E+3
August 2021 and Later	1.6 E+3

** Assumes shutdown date for Unit 3 of 4/30/2021; For Unit 2 DCF is 1.6 E+3 for all dates.



Enters

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Attachment 9.6
Determination of Noble Gas to Iodine Concentration and Dose Rate Ratios from
Field Monitoring Data
Sheet 2 of 2

Part 2 – Flow Chart – Ratio Determinations

	Concentration (uCi/cc)	Dose Conversion Factor (mrem/hr per uCi/cc)	Dose Rate (mrem/hour)
Noble Gas			(Whole Body)
Iodine		2.6 E+9	(CDE-Thy)
Ratio NG/ Iodine (Whole Body/ CDE- Thy)	(1)	N/A	(2)


(1) NG / Iodine Concentration Ratio:

Use NG/I concentration ratio for future release rates for dose projection calculations.

(2) Dose Rate Ratio:

- **IF** the dose rate ratio is about 0.2 or higher, **THEN** noble gas (whole body/TEDE) dose rates will be more limiting than iodine (CDE-Thy) dose rates. (i.e., Whole Body/TEDE will reach PAG limit before iodine/ CDE-Thy).
- **IF** the dose rate ratio is less than about 0.2, **THEN** iodine (CDE-Thy) dose rates will be more limiting than noble gas (whole body/TEDE) dose rates. (i.e., CDE-Thy dose will reach PAG limit before Whole Body/TEDE).

Note: The above calculation is for one location at one time following a release. If practical, 3 or more such determinations of NG/I ratios from multiple locations should be performed.

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Attachment 9.7

Use of Chemistry Sample to Determine Radioiodine Release Rate
Sheet 1 of 1

Determine Radioiodine Release Rate Based on Chem. Sample

Multiply [iodine uCi/cc] x [volume release rate] x [constant] = iodine Ci/sec

For plant vent:

uCi/cc iodine	Cfm	Constant (1)	Iodine Ci/sec
		4.70E-04	

(1) constant converts uCi/cc x cfm to Ci/sec, using Ci/uCi, cc/cu ft, and min/sec

IPEC IMPLEMENTING PROCEDURE PREPARATION, REVIEW, AND APPROVAL

IP-SMM-AD-102 Rev:17

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ATTACHMENT 10.2

IPEC PROCEDURE REVIEW AND APPROVAL

(Page 1 of 1)

Procedure Title: Radiological Field Monitoring

Procedure No: IP-EP-320 Existing Rev: 14 New Rev: 15 DRN/EC No: 21-00117

<u>Procedure Activity</u> (MARK Applicable)	<input type="checkbox"/> Converted To IPEC, Replaces:	<u>Temporary Procedure Change</u> (MARK Applicable)
<input type="checkbox"/> NEW PROCEDURE	Unit 1 Procedure No: _____	<input type="checkbox"/> EDITORIAL Temporary Procedure Change
<input type="checkbox"/> GENERAL REVISION	Unit 2 Procedure No: _____	<input type="checkbox"/> ADVANCE Temporary Procedure Change
<input checked="" type="checkbox"/> PARTIAL REVISION	Unit 3 Procedure No: _____	<input type="checkbox"/> CONDITIONAL Temporary Procedure Change
<input type="checkbox"/> EDITORIAL REVISION		Terminating Condition: _____
<input type="checkbox"/> VOID PROCEDURE		
<input type="checkbox"/> SUPERSEDED		
<input type="checkbox"/> RAPID REVISION	Document in Microsoft Word: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> VOID DRN/TPC No(s): _____

Revision Summary N/A - See Revision Summary page.

Implementation Requirements

Implementation Plan? Yes No Formal Training? Yes No Special Handling? Yes No
 Quality Related? Yes No. If Yes, then ensure the procedure cover page is marked "Quality Related"

RPO Dept: Emergency Planning Writer (Print Name/ Ext/ Sign): Richard Watts/6805 *Richard Watts*

Review and Approval (Per Attachment 10.1 IPEC Review and Approval Requirements)

1. Technical Reviewer: Dara Gray *Dara Gray 4-19-21*
 (Print Name/ Signature/ Date)
2. Cross-Disciplinary Reviewers:
 Dept: _____ Reviewer: _____
 (Print Name/ Signature/ Date)
 Dept: _____ Reviewer: _____
 (Print Name/ Signature/ Date)
3. RPO- Responsibilities/Checklist: Frank Mitchell *F Mitchell 4/19/21*
 (Print Name/ Signature/ Date)
 PAD required and is complete (PAD Approver and Reviewer qualifications have been verified)
 Previous exclusion from further LI-100 Review is still valid
 PAD not required due to type of change as defined in 4.6
4. Non-Intent Determination Complete: _____
 (Print Name/ Signature/ Date)

NO change of purpose or scope NO reduction in the level of nuclear safety NO voiding or canceling of a procedure, unless requirements are incorporated into another procedure or the need for the procedure was eliminated via an alternate process.	NO change to less restrictive acceptance criteria NO change to steps previously identified as commitment steps NO deviation from the Quality Assurance Program Manual NO change that may result in deviations from Technical Specifications, FSAR, plant design requirements or previously made commitments.
--	---
5. On-Shift Shift Manager/CRS: Frank Mitchell - RPO *F Mitchell 4/19/21*
 (Print Name/ Signature/ Date)
6. User Validation: User: _____
7. Special Handling Requirements Understood: _____

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-320	Revision: 15
Equipment/Facility/Other: Indian Point Energy Center	
Title: Radiological Field Monitoring	

Part I. Description of Activity Being Reviewed (event or action, or series of actions that have the potential to affect the emergency plan or have the potential to affect the implementation of the emergency plan):

This procedure was revised to reflect the conditions of the facility which meet the requirement in the Post Unit 3 Shutdown E-Plan (PSEP) as submitted to the NRC per LAR, license #NL-19-001. Please see the attached matrix for the changes that have been made. This procedure will be effective May 17th, 2021.

Part II. Emergency Plan Sections Reviewed (List all emergency plan sections that were reviewed for this activity by number and title. IF THE ACTIVITY IN ITS ENTIRETY IS AN EMERGENCY PLAN CHANGE, EAL CHANGE OR EAL BASIS CHANGE, ENTER THE SCREENING PROCESS. NO 10CFR50.54(q)(2) DOCUMENTATION IS REQUIRED.

Part 1 Introduction:

Section A: Purpose

Part 2 Planning Standards and Criteria:

Section A: Assignment of Responsibility

Section B: Station Emergency Response Organization

Section H: Emergency Facilities and Equipment

Section I: Accident Assessment

Part III. Ability to Maintain the Emergency Plan (Answer the following questions related to impact on the ability to maintain the emergency plan):

- Do any elements of the activity change information contained in the emergency plan (Section 3.0 Step 6)?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change an emergency classification Initiating Condition, Emergency Action Level (EAL), associated EAL note or associated EAL basis information or their underlying calculations or assumptions?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the process or capability for alerting and notifying the public as described in the FEMA-approved Alert and Notification System design report?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the Evacuation Time Estimate results or documentation?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the Onshift Staffing Analysis results or documentation?
YES NO IF YES, enter screening process for that element

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-320	Revision: 15
Equipment/Facility/Other: Indian Point Energy Center	
Title: Radiological Field Monitoring	

Part IV. Maintaining the Emergency Plan Conclusion The questions in Part III do not represent the sum total of all conditions that may cause a change to or impact the ability to maintain the emergency plan. Originator and reviewer signatures in Part V document that a review of all elements of the proposed change have been considered for their impact on the ability to maintain the emergency plan and their potential to change the emergency plan.

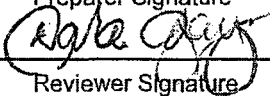
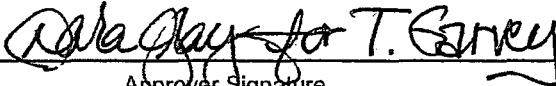
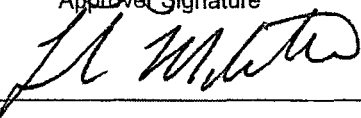
1. Provide a brief conclusion that describes how the conditions as described in the emergency plan are maintained with this activity.
2. Check the box below when the 10CFR50.54(q)(2) review completes all actions for all elements of the activity – no 10CFR50.54(q)(3) screening or evaluation is required for any element. Otherwise, leave the checkbox blank.
 I have completed a review of this activity in accordance with 10CFR50.54(q)(2) and determined that the effectiveness of the emergency plan is maintained. This activity does not make any changes to the emergency plan. No further actions are required to screen or evaluate this activity under 10CFR50.54(q)(3).

Per Post Shutdown Emergency Plan (PSEP), both Unit 2 and Unit 3 will be defueled and will no longer operate. The changes made to this procedure (see attached matrix) reflects the changes made to the document submitted to the NRC (license # NL-19-001) as well as some minor editorial changes. The NRC has approved the Unit 3 PSEP per RA-20-040.

A review of this activity in accordance with 10CFR50.54(q)(2) has been completed and has determined that the effectiveness of the PSEP is maintained. This revision aligns the procedure with the protocols of the post Unit 3 shutdown. None of the changes affect the ability to perform classifications, notifications or PARS. Additionally, it does not affect the activation of the Emergency Response Organization and the planning standard requirements are maintained. The changes made do not require a change to the Emergency Action Level scheme, On-Shift Staffing Study or the PSEP.

No further actions are required to screen or evaluate this activity under 10CFR50.54(q)(3).

Part V. Signatures:

Preparer Name (Print) Dara Gray	Preparer Signature 	Date: 4/5/2021
(Optional) Reviewer Name (Print)	Reviewer Signature	Date:
Reviewer Name (Print) Timothy Garvey Nuclear EP Project Manager	Reviewer Signature 	Date: 4/5/2021
Approver Name (Print) Emergency Planning Manager or designee	Approver Signature 	Date: 4/6/2021

IP-EP-320, Radiological Field Monitoring (Revision 15) Revision Matrix

Change No.	Page/Section	Previous Version	New Version	Editorial Change	Effect on 10 CFR 50.47(b) Planning Standards or NUREG-0654 program elements? Justify if NO.
1.	Cover Page	Rev 14	Rev 15	Yes	<p>No- This is an editorial change to the Revision number and effective date.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Post Shutdown Emergency Plan (PSEP) or a process described in the PSEP are not affected by this change. No further evaluation is required for this change.</p>
2.	Attachment 9.2 Page 1 of 5 (6 th bullet from bottom)	<input type="checkbox"/> Verify that the meter responds within the range listed on the source container (typically between 20 and 40 mR/hr). Closed shield after check complete. <input type="checkbox"/> Source reading obtained: _____ mR/hr <input type="checkbox"/> Toggle the "AUD" switch ON to verify audible response.	<input type="checkbox"/> Verify that the meter responds within the range listed on the source container (typically between 20 and 40 mR/hr). <input type="checkbox"/> Source reading obtained: _____ mR/hr <input type="checkbox"/> Toggle the "AUD" switch ON to verify audible response. Close shield after check complete.	No	<p>No. The clarification was added to re-order steps based on training feedback.</p> <p>The meaning or intent of description in the emergency plan, facilities or equipment described in the Post Shutdown Emergency Plan (PSEP) or a process described in the PSEP are not affected by this change. No further evaluation is required for this change.</p>

**IP-EP-320, Radiological Field Monitoring
(Revision 15) Revision Matrix**

Change No.	Page/Section	Previous Version	New Version	Editorial Change	Effect on 10 CFR 50.47(b) Planning Standards or NUREG-0654 program elements? Justify if NO.
3.	Attachment 9.2 Page 3 of 5 (6 th bullet from bottom)	<input type="checkbox"/> The LED display should read 0.00 cfm and the "flow" LED should be lit. <input type="checkbox"/> Press "Total Volume" Button - IF volume displayed is above zero , THEN press reset	<input type="checkbox"/> The LED display should read 0.00 cfm and the "flow" LED should be lit. <input type="checkbox"/> Press "Total Volume" Button - IF volume displayed is above zero, press Reset, then Flow Button.	No	No. The clarification was added based on training feedback. This assures that sample pump will start after pressing Flow Button. The meaning or intent of description in the emergency plan, facilities or equipment described in the Post Shutdown Emergency Plan (PSEP) or a process described in the PSEP are not affected by this change. No further evaluation is required for this change.
4.	Attachment 9.15 Radiological Field Monitoring Discussion Page 2 of 3	First bullet: <input type="checkbox"/> Equipment and material for the Offsite Monitoring Teams are at the EOF the Field Team Room.	First bullet: <input type="checkbox"/> Equipment and material for the Offsite Monitoring Teams are at the EOF in the Field Team Room.	Yes	No. Additional "the" added for clarification. The meaning or intent of description in the emergency plan, facilities or equipment described in the Post Shutdown Emergency Plan (PSEP) or a process described in the PSEP are not affected by this change. No further evaluation is required for this change.

**IP-EP-320, Radiological Field Monitoring
(Revision 15) Revision Matrix**

Change No.	Page/Section	Previous Version	New Version	Editorial Change	Effect on 10 CFR 50.47(b) Planning Standards or NUREG-0654 program elements? Justify if NO.
------------	--------------	------------------	-------------	------------------	---

5.	Attachment 9.15 Radiological Field Monitoring Discussion Page 2 of 3	Fourth Bullet: Two of these vehicles are at the Buchanan Service Center (EOF parking lot), and one is located at the Verplanck Fire Department, 238 8th Street, Verplanck. Along with a set of FMT Kits.	Fourth Bullet: Two of these vehicles are at the Buchanan Service Center (EOF parking lot), and one is located at the Verplanck Fire Department, 238 8th Street, Verplanck along with a set of FMT Kits.	Yes	No. Clarified sentence which had been broken up. . The meaning or intent of description in the emergency plan, facilities or equipment described in the Post Shutdown Emergency Plan (PSEP) or a process described in the PSEP are not affected by this change. No further evaluation is required for this change.
6.	Attachment 9.16 Offsite Team Coordinator Checklist Sheet 1 of 5	3. IF additional personnel are needed THEN inform the Radiological Assessment Coordinator or EOF Manager and request additional personnel.	3. IF additional personnel are needed THEN inform the Radiological Assessment Coordinator and request additional personnel.	No	No. Clarified sentence to indicate appropriate position to notify (EOF Manager no longer an EOF position post shutdown). . The meaning or intent of description in the emergency plan, facilities or equipment described in the Post Shutdown Emergency Plan (PSEP) or a process described in the PSEP are not affected by this change. No further evaluation is required for this change.

Attachment 9.1

Emergency Planning Document Change Checklist Form

(All sections must be completed, N/A or place a check on the line where applicable)

Section 1

Doc/Procedure Type:	Administrative <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> EPLAN <input type="checkbox"/> N/A <input type="checkbox"/>
Doc/Procedure No:	IP-EP-320
Doc/Procedure Title:	Radiological Field Monitoring
New revision number:	15
Corrective Action:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> CR#: <u>OL-OLI-2018-00090 CA 19</u>
Effective date:	May 17, 2021

Section 2

Change Description

1. Ensure the following are completed, or are not applicable and are so marked:

- a. 50.54q N/A
- b. EN-FAP-OM-023 N/A
- c. IP-SMM- AD-102 N/A
- d. OSRC N/A
- e. NRC Transmittal N/A
(within 30 days)

2. List any other documents affected by this change: N/A

3. Transmittals are completed: N/A Date: 4/29/21

4. Ensure the proper revision is active in eB Ref. Lib.: N/A

5. Approved doc/procedure delivered to Doc. Control for distribution: N/A Date: 4/29/21

6. Position Binders updated: N/A Date: 4/29/21

7. Copy of EPDCC placed in EP file: N/A Date: 4/29/21

8. Supporting documentation is submitted as a general record in eB Ref. Lib.: N/A Date: 4/29/21

9. Word files are moved from working drafts folder to current revision folder in the EP drive:

N/A Date: 5/17/21



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CONTROLLED

Radiological Field Monitoring

Prepared by:

Richard Watts

Print Name

Richard Watts

Signature

4/7/2021

Date

Approval:

Frank J. Mitchell

Print Name

Frank Mitchell

Signature

4/7/2021

Date

Effective Date: May 17, 2021

This procedure excluded from further LI-100 reviews.


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Radiological Field Monitoring

1.0 PURPOSE

To describe the methods used to conduct radiological monitoring and related activities performed by the Field Monitoring Teams outside the Protected Area and their interaction within the Emergency Response Organization (ERO) during a radiological emergency at the Indian Point Energy Center (IPEC).

NOTE

To expedite the actions of the Offsite Monitoring Teams (OMTs) and Offsite Team Coordinator (OTC), users of this procedure are permitted to proceed directly to Section 5.0 and related attachments and implement steps in any sequence as required for operational efficiency. Other portions of this procedure may be used for reference as needed.

2.0 REFERENCES

- 2.1 Indian Point Energy Center Emergency Plan
- 2.2 EN-EP-609-DP, Emergency Operations Facility
- 2.3 EN-IS-120, Motorized Vehicle Safety

3.0 DEFINITIONS

- 3.1 Radiological Monitoring - Locating and defining a plume of radioactive airborne contamination and any surface contamination left in the wake of a plume.
- 3.2 Monitoring Activities - Detecting beta radiation, measuring gamma radiation and sampling airborne and surface contamination at selected locations, recording data and reporting the data for additional analysis.
- 3.3 Monitoring Data – Data reported to the EOF that may be used by the ERO to determine emergency action levels, emergency classifications, radiological exposure controls, protection for on-site personnel and emergency workers, and protective action recommendations for the general public.
- 3.4 Emergency Sampling Points - Include some sixty points within the 10-Mile Emergency Planning Zone (EPZ) identified herein to facilitate dispatch of the Monitoring Teams.
- 3.5 Mobilization – Offsite Team Members are notified of a declared emergency at either Unit 2 or Unit 3, directed to report to the Emergency Operations Facility (EOF) and are expected at the EOF within the 60 minutes following the declaration. At the EOF, Offsite Team Members report to the Radiological Assessment Coordinator for assignment to the 1st or 2nd shift teams.
- 3.6 Onsite Monitoring – Radiological Monitoring performed within the Protected Area Boundary.
- 3.7 Offsite Monitoring – Radiological Monitoring performed outside the Protected and Owner Controlled Area Boundary.

4.0 **RESPONSIBILITIES**

- 4.1 The Shift Manager (SM) or the Emergency Plant Manager (EPM), in absence of the Radiological Assessment Coordinator, may direct Offsite Monitoring Teams from the Central Control Room (CCR).
- 4.2 Offsite Monitoring Teams are dispatched, directed, and controlled by an Offsite Team Coordinator or Shift Manager in the CCR.
- 4.3 In Sectors 12 through 1 the perimeter is monitored by the Onsite Monitoring Radiation Protection Technicians from the OSC directed by the Radiological Coordinator at the request of the Radiological Assessment Coordinator. Once the Onsite Monitoring Team has been dispatched, further direction will be administered by the Radiological Assessment Coordinator.

<u>Perimeter Sector</u>	<u>Position</u>	<u>Team</u>
2 – 11	Radiological Assessment Coordinator	Offsite Monitoring Team
12,13,14,15,16,1	Radiological Coordinator	Radiation Protection Technicians

- 4.4 The Dose Assessor (DA) in the EOF assures radiological controls are implemented for samples, equipment, materials, supplies and personnel in the EOF.
- 4.5 Qualified Nuclear Environmental Monitoring (NEM) Technicians change DLRs and air sampling station filters at fixed sites within the 10 Mile EPZ, submit the DLRs and filters for analysis, sample soil and water and perform other activities prescribed in the station NEM Procedures.
- 4.6 The steps of this procedure need not be followed in sequence and may be referred to in conjunction with instructions contained in the attachments.
- 4.7 Use Form EP-3-ALL, Emergency Response Organization Log Sheet, to record Field Monitoring Team actions and activities.
- 4.8 The Offsite Team Coordinator is responsible for Attachment 16, Offsite Team Coordinator Checklist.










5.0 DETAILS


The following graphic depicts the Offsite Monitoring Team (OMT) process and also references the related attachments to be followed. (Further background discussion is provided in Attachment 15 at the end of this procedure).

**FIGURE 1
IPEC Offsite Monitoring Team Process Steps**

NOTE: YOU WILL NEED THE FOLLOWING FORMS (IN POSITION BINDERS):

- ERO Log (Form EP-3-ALL)
- Individual Exposure Tracking Log, (Form EP-36)
- Field Team Inventory (Forms EP-AD6-1)
- Monitoring Team Sample Data (Forms EP-30 and EP-31)
- Potassium Iodide (KI) Instructions/Briefing Form (EP-8-ALL)

	Activity	Referenced Job Aid
1.	Offsite monitoring team reporting and initial actions 	See Attachment 9.1
2	Perform pre-operational inspection and testing of equipment 	See Attachment 9.2
3	Perform initial vehicle contamination check (if requested) 	See Attachment 9.3
4	Conduct field team pre-deployment briefing 	See Attachment 9.4
5	Perform field plume radiation measurements 	See Attachment 9.5
6	Perform field air sampling measurements 	See Attachment 9.6
7	Perform environmental surface contamination smears 	See Attachment 9.7
8	Perform continuous exposure reporting and control actions 	See Attachment 9.8
9	Perform post-field monitoring actions 	See Attachment 9.9

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6.0 INTERFACES

- 6.1 IP-EP-210, Central Control Room
- 6.2 EN-EP-609, Emergency Operations Facility
- 6.3 IP-EP-115, Emergency Planning Forms
- 6.4 IP-EP-330, Airborne Sample Analysis

7.0 RECORDS

All Logs, Completed Forms and other records generated during an actual emergency shall be considered Quality Records and maintained for the life of the plant. The following records are generated by implementation of this procedure:


- 7.1 ERO Logs, (Form EP-3-ALL)
- 7.2 Individual Exposure Tracking Log (Form EP-36)
- 7.3 Monitoring Team Survey Data (Form EP-30)
- 7.4 Monitoring Team Sample Data (Form EP-31)
- 7.5 Field Team Inventory (Form EP-AD6-1)
- 7.6 Potassium Iodide (KI) Instructions/Briefing Form (EP-8-ALL)

8.0 REQUIREMENTS AND COMMITMENT CROSS-REFERENCE

None

9.0 ATTACHMENTS

- 9.1 Offsite monitoring team reporting and initial actions
- 9.2 Perform pre-operational inspection and testing of equipment
- 9.3 Perform initial vehicle contamination check (if requested)
- 9.4 Conduct field team pre-deployment briefing
- 9.5 Perform field plume radiation measurements
- 9.6 Perform field air sampling measurements
- 9.7 Perform environmental surface contamination smears
- 9.8 Perform continuous exposure reporting and control actions
- 9.9 Perform Post-field monitoring actions
- 9.10 IPEC Site Map
- 9.11 Offsite Monitoring Locations
- 9.12 Reuter Stokes Locations
- 9.13 GPS Monitoring Locations
- 9.14 Sampling Points – Distance and Location
- 9.15 Radiological Field Monitoring Discussion
- 9.16 Offsite Team Coordinator Checklist


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Attachment 9.1

Offsite Monitoring Team Reporting and Initial Actions

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- Sign in at EOF Access Desk and on the board inside the EOF (or Alternative TSC/OSC).
- Report to the Offsite Team Coordinator (OTC) or the Radiological Assessment Coordinator (RAC) for team assignment.
- IF** assigned to a team for the current shift, **THEN** ensure the names of the Team members are entered on the EOF Personnel Status Board **AND** continue with this procedure.
- IF NOT** assigned to a team for the current shift, **THEN** continue with this procedure. Assist other teams until dismissed or assigned by the Radiological Assessment Coordinator.
- Each team, as a minimum, should consist of 2 members.
- Obtain Offsite Monitoring Team Position Binder.
- Obtain Keys for a vehicle (offsite Monitoring Kits storage location).
- Obtain Vehicle and also a radio, cell phone and GPS.
- Start vehicle, check gas gauge and verify proper operation of: horn, flashers, turn-signals and headlights Check that back hatch automatically opens and closes with key fob or hatch button and that it shuts securely when closed. Do not manually close hatch due to jamming concern. Inform Offsite Team Coordinator of any malfunctions or concerns.
- The following equipment and materials are available from the storage location:
 - Monitoring Kit (two sealed cases, A and B, per set) Case A is for plume survey/sampling; initially, load only Case A in OMT vehicles. Case B is for REMP (post-plume) sampling only.
 - Obtain count rate meters and other equipment/supplies from storage and load in OMT vehicles after checks are performed.
- Record the **"ERO Position:"** [and the Team Name e.g.; "Mobile One"] **"Date:"** and the team member [s] **"Name:"**[s] on Form EP-3-All.
- Use ERO Log Sheet(s) (Form EP-3-ALL) located in the Position Binder to record your activities.
- Use applicable Human Performance Tools (e.g., 3-part communications, place-keeping, peer checking and situational awareness appropriate for conditions).

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Offsite Monitoring Team Reporting and Initial Actions

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NOTE:


An Offsite Monitoring Team will not necessarily use all the equipment and materials in the Monitoring Kits. Some equipment is exclusively for the use of NEM Technicians.

- Check the seal on each case in the kit. **IF** the seal is not broken, **THEN** the inventory is not required.
- IF** the seal is broken, **THEN** inventory the equipment in that case. Record the "Kit #" and results on Form EP-AD6-1 for the kits. Complete "Comments ", "Inventory Performed BY "and the "Date "on Form EP-AD6-1.
- Replace or exchange missing, out of calibration, and inoperative equipment, materials and supplies with what is available at the EOF. Do not use any out of calibration equipment or expired material or supplies.
- Turn on DOSE-GARD (press "M" button until 0.00 is displayed).
- Assign DLR's to each Offsite Team member. Wear the DLR badge and DOSE-GARD electronic dosimeter on the chest between the waist and neck. Fill in the pertinent information for each Offsite Team member on the top half of Form EP-36.

NOTE:

Without a Radiological Assessment Coordinator in the EOF, Offsite Monitoring Teams may be directed through the Shift Manager in the CCR.

- IF** there has been a release of radioactive material to the atmosphere, **THEN** as directed by the Radiological Assessment Coordinator or the ED, check the vehicle for contamination **BEFORE** leaving the Site using **Attachment 9.3**.
- Perform Pre-Operational Inspection and Testing of Equipment in Attachment 9.2. Radiation check sources for OMTs #1 and #2 are stored on the shelf in the OMT Equipment Room at the EOF, and Spare OMT check sources are stored in the Apparatus Room storage cabinet at the Verplanck Fire Department.
- Place the case(s) in the vehicle with the Ludlum Model 177 count rate meter and the Model 9-3 ion chamber in the front seat (or back seat).

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Attachment 9.2

Perform Pre-Operational Inspection and Testing of Equipment

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Ludlum Model 9-3 Ion Chamber

Use: 5 micro curie Cs-137 source for operational check

- Perform visual check of instrument for any physical damage, and slide open the shield on the bottom to ensure the Mylar window is not punctured.
- Close shield.
- Turn on meter by switching to "X1" scale.
- Perform battery check by pressing the "BAT TEST" button.
- While on the "X1" scale, if necessary zero the meter reading using the "ZERO ADJUST" thumbwheel.
- Center **BLUE** Cs-137 source on the laminated diagram. Turn to the "X10" scale, OPEN the shield and position the "Detector Area" of the instrument over the **BLUE** Cs-137 source on the diagram. (Number on source facing UP towards meter).
- Allow the reading to stabilize (~15 sec.) and then read the meter.
- Verify that the meter responds within the range listed on the source container (typically between 20 and 40 mR/hr).
- Source reading obtained: _____ mR/hr
- Toggle the "AUD" switch ON to verify audible response. Close shield after check complete.
- If any of the above checks are unsatisfactory return the meter to the storeroom and acquire another meter. Note the serial number of an instrument that is UNSAT in comments below.
- If checks are SAT, then instrument is operational. (Note serial no. in box below).
- Return the radiation check source to the storage location – **DO NOT PLACE IN KIT.**


Instrument Serial Number (If SAT): _____

Cal Due Date: _____

Team Member _____

Date: _____

Comments if Instrument Check is UNSAT: _____

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Attachment 9.2

Perform Pre-Operational Inspection and Testing of Equipment

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Ludlum Model 177 Count Rate Meter with HP 210 Probe

Use: 1 micro curie Ba133 source for operability check.

- Perform visual check of instrument, cable and probe for any physical damage.
- Connect the HP-210 probe by attaching the coaxial cable to the front of the meter (if not already connected).
- Turn the power switch to "ON" (if not already turned "ON").
- Perform battery check by pressing the **RED** "BAT TEST" button. If battery response is not adequate, then obtain spare meter.
- Turn the function switch to "X100", place probe in contact with **ORANGE** Ba133 source, until the meter reads upscale. (Number on source facing UP towards probe).
- Verify that the meter responds within the range listed on the source container (typically between 2,000 and 10,000 cpm).
- Source reading obtained _____ cpm
- Turn up the Volume Dial. Ensure the volume is audible when near the check source.
- If any of the above checks are unsatisfactory return the meter to the storeroom and acquire another meter. Note the serial number of an instrument that is UNSAT in comments below.
- If checks are SAT, then instrument is operational. (Note serial no. in box below).
- Return the radiation check source to the storage location – **DO NOT PLACE IN KIT.**

Instrument Serial Number (If SAT): _____

Cal Due Date: _____

Team Member _____

Date: _____

Comments if Instrument Check is UNSAT: _____



Attachment 9.2

Perform Pre-Operational Inspection and Testing of Equipment

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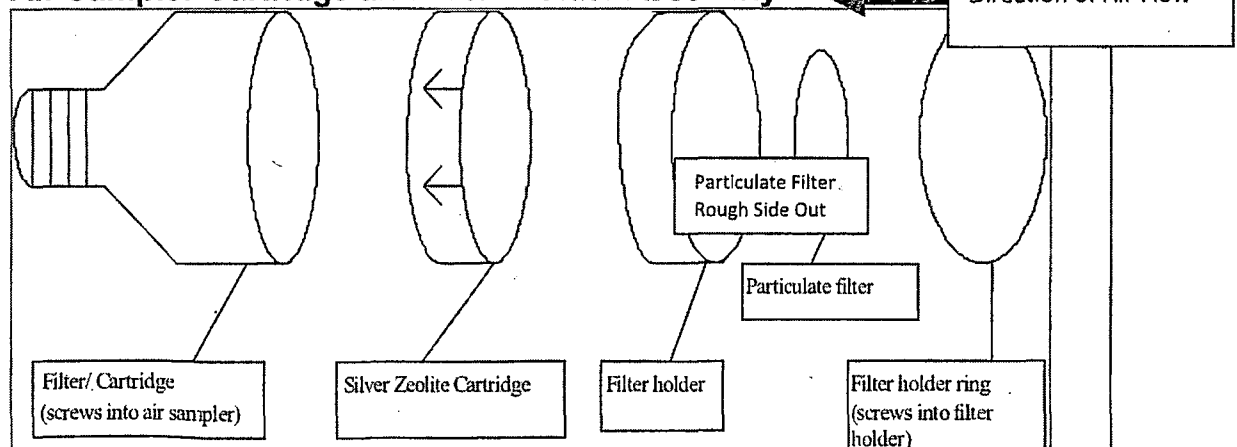
F&J Model DF-AB-40L Air Sampler (Using Sampler Battery)


- Attach the filter holder containing particulate and iodine collection media (See drawing below).
- Open the cover of the air sampler and check the status of the battery by pressing the button on the battery charge indicator.
- Verify that its charge is at least 75%; if not, select another sampler. **If necessary, the air sampler's power cord may be plugged into the inverter or the provided charger cord may be plugged into the 12 V cigarette lighter receptacle in the OMT vehicle if there is not sufficient battery charge.**
- Place the **BLACK** "ON/OFF" toggle switch in the "ON" position.
- If circuitry is not energized by the previous step then push the **YELLOW** "ON/OFF" button to energize the circuitry.
- The LED display should read 0.00 cfm and the "flow" LED should be lit.
- Press "Total Volume" Button - IF volume displayed is above zero, press Reset, then Flow Button.
- Press the "RESET" button to start the sample pump. After a few seconds, the LED display should gradually increase to approximately 1.0 cfm (0.8 cfm to 1.2 cfm).
- After approximately 30 seconds, push the **YELLOW** "ON/OFF" button to stop the sample pump. Place the toggle switch to the "OFF" position.
- Carefully close and latch the cover (avoid crimping the red wire).
- If results are UNSAT, then obtain another sampler. Note the serial number of a sampler that is UNSAT under comments.
- If checks are SAT, then instrument is operational. Note serial no. _____
- Comments if air sampler check UNSAT:

Instrument Serial Number: _____

Cal Due Date: _____

Air Sampler Cartridge and Filter Holder Assembly



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Attachment 9.2

Perform Pre-Operational Inspection and Testing of Equipment

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- Check operation of the mobile radio, cellular phone and other communication equipment in the vehicle with the Communicator who is dispatching and controlling the team. Record results on Form EP-3-ALL.

IPEC Offsite (Goosetown) Radio

- Ensure the Offsite Team Coordinator is aware that you will be conducting a radio check.
- Turn vehicle ignition switch to "Run" or "Accessories".
- Push radio "On/Off" switch to "On".
- Select Channel 1 (or other offsite channels provided).
- Press the microphone "PTT" switch.

NOTE

Radio call signs are transmitted automatically; transmitting by voice is no longer required. Use the station name; e.g., "Mobile One" for identification.

- Request radio check; e.g., "Indian Point EOF, this is Indian Point Mobile One, request radio check, over".
- Record results on Form EP-3-ALL, ERO Log.

Team Member: _____

Date: _____

NOTE:

IF radio communication with the EOF or AEOF is not established, THEN try 1) the cellular phone, 2) another location where radio or telephone communication is acceptable, 3) relaying messages through other stations in either "5...Offsite", "4...Onsite" or "9-13...Talk-around" modes or 4) a pay phone. IF all fail, THEN return to EOF or Alternative TSC/OSC.



Attachment 9.2

Perform Pre-Operational Inspection and Testing of Equipment

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CELLULAR TELEPHONE

1. Turn phone power on.
2. Display "SERVICE AVAILABLE".
3. Use the number in Emergency Telephone Directory for the Offsite Team Coordinator
4. Call the Offsite Team Coordinator.
5. If no contact, determine alternate means of communications in the event that the radio is inoperable.
6. Record results on (Form EP-3-ALL) ERO Log.

GARMIN GPS UNITS

Locations are Pre-programmed

1. Turn on "Where to" icon on main screen.
2. Select "Extras" icon.
3. Select "POI Point of Interest" (e.g. Select any survey point from next step for quick check of GPS).
4. Monitoring location can be identified by Sector and Mile, e.g. S1-M1, S2-M2. If not displayed, type desired location. See Attachment 13.
5. Press "Go".
6. Check that start to destination is loaded and displayed.

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Attachment 9.3

Perform initial Vehicle Contamination Check (if requested)

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- IF** there has been a release of radioactive material to the atmosphere, **THEN** as directed by the Radiological Assessment Coordinator or the ED, check the vehicle for contamination **BEFORE** leaving the Site.
- When directed by the EOF to perform surface contamination checks, use Form EP-31, Surface Contamination Check, to record information using either of the 2 following methods:
 - (Preferred) Method Using the Ludlum 177 Count Rate Meter, with HP-210 Pancake Probe**
- Use the following equipment:
 - Ludlum 177 Count Rate/HP-210 Pancake Probe
- Ensure the meter has been pre-operationally checked, turned on and set to X1 scale.
- Measure and record background reading away from the vehicle. (The background reading should be 300 cpm or less).
- Holding the pancake probe about ½ to 1 inch from the vehicle surfaces, check readings on the vehicle hood, side doors and accessible areas of the roof.
- Enter the "Date", the name of the Field Team Member and "LOCATION" on Form EP-31.
- Immediately inform the Offsite Team Coordinator and/or Radiological Assessment Coordinator of any vehicle surface readings exceeding 100 cpm above background.

OR,

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Attachment 9.3

Perform initial Vehicle Contamination Check (if requested)

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Method Using Smears and the Ludlum 177 Count Rate Meter, with HP-210 Pancake Probe

- When directed by the EOF to perform surface contamination checks, use Form EP-31, Surface Contamination Check, to record information.
 - Use the following equipment:
 - Surgeon's rubber gloves
 - Smear or gauze wipes
 - Small paper envelope or plastic bag
 - Pen or pencil **AND** magic marker or grease pencil
 - Ludlum 177 Count Rate/HP-210 Pancake Probe
- Ensure the meter has been pre-operationally checked, turned on and set to X1 scale.
- Enter the "**Date**", the name of the Field Team Member and "**LOCATION**" on Form EP-31.

NOTE:

Find at least 2 exposed exterior vehicle surfaces to sample for contamination, such as the vehicle hood and an accessible area of the vehicle roof.

- Find **AND** smear at least 2 surfaces Smear a 100-cm² area. Put two fingers on a smear or wipe **AND** hold it with your thumb. Reach out **AND** drag it back across the surface in the pattern of an "S".
- Record the "**Time**" and the "**SURFACE SMEARED**" on Form EP-31.
- Annotate a small paper envelope for a smear or a small plastic bag for a gauze wipe with this information from Form EP-31:
 - "Date"
 - "LOCATION"
 - "Time"
 - "SURFACE SMEARED"
- Place the smear or wipe in the paper envelope or plastic bag.
- Proceed to the ALARA location to count the samples.
- Count the vehicle smears using pages 2 and 3 of Attachment 9.7.**

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Attachment 9.4

Conduct Field Team Pre-Deployment Briefing

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Begin Offsite Field Monitoring Team briefing on emergency conditions

- Ensure that the Offsite Team Coordinator or designee has provided a Team designation (e.g., "Mobile One"), and has the Team member names and contact information along with their DLR numbers.
- Review **AND** note conditions, monitoring locations, routes, and requirements with Offsite Team Coordinator or designee.
- Plant conditions and emergency classification level.
- Release conditions
 - Release start and stop
 - Noble gas / Iodine ratio (if known)
 - Expected dose rates, surface and airborne contamination
 - Current Reuters Stokes readings, if any
 - Potential for Offsite Monitoring Team vehicles to be contaminated (and the need if any to conduct pre-deployment check)
- Measured and forecast meteorological conditions
 - Wind direction, speed, Pasquill stability class
- Projected Plume location
 - Width (affected sectors)
 - Plume characteristic (cross, down or up valley)
- Areas, routes and locations, including Emergency Sampling Points to monitor
- Any known traffic impediments or traffic-related issues.
- Use of personnel (i.e. protective clothing) and vehicle safety equipment.
- Monitoring requirements:
 - Projected radiation fields in route (verify with count rate meter/ ion chamber CW readings when inside the vehicle)
 - Projected radiation fields on location (verify with 3 ft. / 3 in OW/CW readings when outside the vehicle)
 - Airborne contamination (if known)
 - Surface contamination (if known)

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Attachment 9.4
Conduct Field Team Pre-Deployment Briefing

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Review radiological exposure controls

- Minimize time (Goal: <15 min.) spent within elevated radiation fields especially those near or within the plume.
- Record and report dosimeter readings every ____ minutes.
- ALARA locations.
- DO NOT** enter a radiation field within a plume that is greater than 100 mR/hr except as directed by the Radiological Assessment Coordinator.
- Females who have declared pregnancy are advised that they are not authorized to exceed 10CFR20 limits and may need to be re-assigned.

NOTE:

The Emergency Director (ED) may authorize an initial emergency exposure of 1 Rem TEDE and subsequent exposures in 1 Rem increments to 5 Rem TEDE.

- DO NOT** exceed the authorized dose of _____ Rem (i.e., dosimeter reading) except when directed by the Radiological Assessment Coordinator.
- The DOSE-GARD electronic dosimeter is pre-set to alarm at 1.00 R. If the DOSE-GARD alarms, immediately notify the EOF/AEOF and request instructions. (The alarm can be silenced by toggling "M" two times to get Alarm Acknowledge Mode. Hold "S" for 3 seconds and the alarm will be silenced and the mode returns to dose display).


NOTE:

The Emergency Director, using Form EP-4-ALL, Emergency Exposure Authorization, will authorize exposure exceeding 5 Rem TEDE.

DO NOT exceed 5 Rem TEDE except when authorized by the ED.

NOTE:


Potassium Iodide (KI) shall be used in accordance with IPEC's procedure for issuance of KI and the NYS KI Policy. Administration of KI will be recommended for emergency responders at a General Emergency or a projected child thyroid dose of 5 Rem CDE or more to the thyroid.

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Attachment 9.4
Conduct Field Team Pre-Deployment Briefing

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- DO NOT** take KI except when authorized by the Emergency Director. Individuals who are allergic to iodine should not take KI.
- If KI is taken, note on Form EP-36 and Form EP-8-ALL.
- Proceed as directed by the Offsite Team Coordinator:

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Attachment 9.5
Perform Field Plume Radiation Measurements

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Perform Downwind Radiation Surveys

- Maintain radio or telephone communications with the Offsite Team coordinator in route between locations. Each Offsite Monitoring Team should contact the Offsite Team Coordinator at approximately thirty (30) minute intervals.
- Monitor radiation fields at landmarks in route to and on arrival at the location.**
 - Begin with the Ludlum Model 177 Count Rate Meter with Pancake Probe:

NOTE:

Rate Meter readings will increase as a plume of radioactive material is approached. Place the speaker switch to "ON".

- Put the function switch to "X1".
- Note the beginning background reading in CPM on Form EP-30.
- Keep the rate meter and probe on the floor of the cab (probe facing up) with meter volume turned up.
- Read AND record on Form EP-30 approximately major changes (e.g., factor of ten) of the reading (CPM) and the nearest landmark including the reading on arrival at the location.
- Report major changes in readings and landmark to the Communicator.
- WHEN the Rate Meter reads about 1000 CPM or more at "X10" AND the Ion Chamber reads 0.2 mR/hr or more on the lowest mR/hr scale, THEN use the Model 9-3 Ion Chamber.

CAUTION:

Review radiological exposure controls (**Attachment 9.8**), prepare equipment and data forms, determine the route to the nearest ALARA location **AND** prepare to implement personal protective measures as directed by the Radiological Assessment Coordinator before approaching and entering a plume.

- Continue with the Ion Chamber.



Attachment 9.5

Perform Field Plume Radiation Measurements

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NOTES:

If traversing the plume, the closed window (CW) readings increase to reach a peak across the plume at the centerline.

Plume boundary is defined as when the open window reading is 1.5 times the closed window reading.

- With the shield closed, read AND record on Form EP-30 each major change of the "CW mR/hr" (i.e., gamma) and the nearest landmark.
- Read AND record "CW mR/hr" (i.e., gamma) on Form 30.
- Continue to adjust the function switch to the appropriate scale for an on-scale reading.
- WHEN the Ion Chamber reads less than 0.2 mR/hr, THEN use the Ludlum 177 Count Rate Meter with Pancake Probe.
- Report the data on Form EP-30 to the Offsite Team Coordinator.
- Arrive on location. Record Team arrival on Form EP-3-ALL Report Team arrival to the Offsite Team Coordinator.



Attachment 9.5

Perform Field Plume Radiation Measurements

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- While proceeding to assigned location:
 - Note where readings reach peak levels (plume centerline).
 - When requested, conduct air sampling on the plume centerline using **Attachment 9.6**.
 - When requested, conduct surface contamination checks using **Attachment 9.7**.
- Monitor radiation fields on location.

Use the Count Rate Meter with Pancake Probe. If it reads more than 1000 cpm on the "X10" scale AND the Ion Chamber reads 0.2 mR/hr or more on the "X1"-scale, **THEN** use the Ion Chamber.

Record the "Team Name:" "Team Member Names:" and "Date:" on Form EP-31.

Record the "Location:" including the details, on Form EP-31.


Record the meter "Serial #:" and the "Time:" on Form EP-31.

Leave the vehicle and proceed to an area that is open overhead.

Measure OW and CW radiation fields at 3 feet and 3 inches above the ground

Record the data on Form EP-31.

- When requested, conduct surface contamination checks using **Attachment 9.7**.
- Keep pertinent current information on Form EP-3-ALL, ERO Log Sheet.
 - Dosimeter readings
 - Plant, radiological and meteorological conditions
 - Monitoring requirements
 - Radiological, exposure controls
 - ALARA locations
 - Landmarks on the route

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Attachment 9.5
Perform Field Plume Radiation Measurements

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NOTE:

For Plume Characterization:

Outside the Plume: the Open Window (OW) readings are approximately equal to the Closed Window (CW) readings (e.g., OW readings are less than 1.5 times CW readings).

Inside the Plume: the Open Window (OW) readings are expected to be about 1.5 times or greater than the Closed Window (CW) readings.

Ion Chamber @ 3 feet:

Read **AND** record "(OW) (mR/hr)" Form EP-31.

Read **AND** record "(CW) (mR/hr)" Form EP-31.


Ion Chamber @ 3 inches:

Read AND record "(OW) (mR/hr)" Form EP-31.

Read AND record "(CW) (mR/hr)" Form EP-31.

Return the Ion Chamber to the vehicle.

Report the data on Form EP-31 to the Offsite Team Coordinator.

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Attachment 9.5

Perform Field Plume Radiation Measurements


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NOTE:

If ground deposition is present:

1. At three inches: the open window reading will be greater than the closed window reading.
2. The three foot open and closed window readings will be less than the three inch readings in (1) above.
3. A sample of surface materials (swipe) taken in the area and counted in a lower background area will indicate contamination.

- When requested, conduct air sampling on the plume centerline. Using **Attachment 9.6**.
- When requested, conduct surface contamination checks using **Attachment 9.7**.

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Attachment 9.6

Perform Field Air Sampling Measurements

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Perform air sampling on the plume centerline:

Set up for Air Sampling:

Place particulate filter in the first inlet filter holder (farthest from the pump with the rough side of the filter out).

Place silver zeolite cartridge in the second inlet filter holder (closest to the pump), as appropriate:

NOTE:

Humidity may affect the silver zeolite cartridge. Use sealed cartridge during an activation.

Use silver zeolite cartridges during an activation (and "drill" silver zeolite cartridges during training or drills).

Align the arrow on the cartridge in the direction of airflow through the holder.

Record the following on Form EP-31)

- Sample ID number
- Sampler Serial #
- Date/Time

Start Air Sampler: as follows:

Place the BLACK "ON/OFF" toggle switch in the "ON" position.


If circuitry is not energized, by the previous step then push the YELLOW "ON/OFF" button to energize the circuitry.

The LED display should read 0.00 cfm and the "flow" LED should be lit.

Press the "RESET" button to start the sample pump. After a few seconds, the LED display should gradually increase to approximately 1.0 cfm (0.8 cfm to 1.2 cfm).

Record the sample start time on Form EP-31.

While the air sampler is running, take at least one 3-ft OW and CW reading to verify that you are still in the plume. Notify the OTC if conditions have significantly changed.

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Attachment 9.6

Perform Field Air Sampling Measurements

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Wait until the sample pump stops automatically (in approximately 10 minutes). The sample volume is preset to 10 cubic feet. This can be verified by pressing the "volume" button after the sampler has stopped. Reset the sample "volume" indicator to zero to allow restart for purging.

The air sampler and Model 9-3 meter may be contaminated. Place these in large clean plastic bags before placing in back of vehicle.

If needed, contact the Offsite Team Coordinator to determine nearest appropriate "clean" location outside the plume to go for sample counting (less than ~100 cpm background).

At a location outside of the plume, with the loaded sample holder in place, PURGE the sample cartridge and filter by pressing the YELLOW On/Off button to "Off" and then "On". Then press the RESET button. Let the sampler run for about 20 seconds.

Press the RESET button again to stop the sample pump. Reset the sample "volume" indicator to zero to allow restart for collecting the next air sample.


- Assemble needed items in back of vehicle – sampler holder, tweezers, sample envelopes, sample bags, trash bag, clean plastic sheeting work surface.
- One team member should handle samples and equipment wearing disposable gloves; the other team member should record and report data (gloves optional if not handling contaminated objects).**

The team member with gloves should open the air sampler bag and remove the filters from their respective holders.

Check hands with frisker and change gloves as noted below when handling and counting samples taken in the radioactive plume.

Count the Air Samples:

- Ensure that the Ludlum 177 meter is on and set to the x1 scale with the HP-210 connected.
- Place the HP-210 probe on the sample holder and check the background reading.
- Record the BACKGROUND CPM on Form EP-31. If contamination on the holder is suspected, wipe the sample holder with a disposable wipe and recheck with frisker.
- Leave the HP-210 probe on its side to allow easy hand frisking. Change gloves as needed.


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Attachment 9.6

Perform Field Air Sampling Measurements

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- Obtain a clean metal planchet from the OMT case. Remove the sample holder from the air sampler, unscrew the filter holder and carefully remove the particulate filter with the tweezers provided.
- Place the particulate filter (FUZZY SIDE UP) in a clean planchet, place the planchet in the sample holder on top of the holder insert ring and check the particulate filter with the HP-210 probe and obtain the GROSS CPM reading.
- The "clean" team member should record the particulate filter GROSS CPM reading on Form EP-31.
- Subtract the BACKGROUND CPM from GROSS CPM to obtain NET CPM, and record on Form EP-31.
- The gloved team member should use tweezers to place filter in marked envelope and place in baggie. Discard planchet by placing in a waste bag provided in the case.
- To count the iodine filter cartridges in the sample holders, modify the holders as follows:
 - Using the SH-4a, pull out the slide.
 - Remove the insert.
 - Push the slide back in.
- Place the HP-210 probe on the sample holder and check the background reading.
- Record the BACKGROUND CPM on Form EP-31. If contamination on the holder is suspected, wipe the sample holder with a disposable wipe and recheck with frisker.
- Change disposable gloves, place the silver zeolite cartridge (INLET SIDE UP – ARROWS FACING DOWN) in the cavity created by removing the sample holder slide.
- Place the HP-210 probe on the sample holder and measure the cartridge reading.
- The "clean" team member should record the iodine cartridge GROSS CPM on Form EP-31.


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Attachment 9.6

Perform Field Air Sampling Measurements

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- Subtract the BACKGROUND CPM from GROSS CPM to obtain NET CPM, and record on Form EP-31.
- Check hands with frisker and change gloves as needed.
- The gloved team member should use tweezers or clean gloves to place cartridge in separate baggie and place baggie inside other baggie containing filled out particulate filter envelope.
- Report the data on Form EP-31 to the Offsite Team Coordinator.
- Load a new iodine cartridge and particulate filter in the air sample holder before moving to a new survey/sampling location.
- Return the sampler and holder, the count rate meter and probe, the counting fixture and tweezers to the vehicle.
- Return packaged samples to the vehicle. Place samples in easily accessible location in the vehicle for easy transfer to RP when returning to the EOF or the Verplanck Fire Department.
- IF at an ALARA location, THEN remain there until directed otherwise. Continue monitoring for radiation fields from the vehicle. Periodically report conditions to the Offsite Team Coordinator. Prepare for reassignment.

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Attachment 9.7

Perform Environmental Surface Contamination Smears

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- When directed by the EOF to perform surface contamination checks, use Form EP-31, Surface Contamination Check, to record information.
 - Use the following equipment:
 - Surgeon's rubber gloves
 - Smear or gauze wipes
 - Small paper envelope or plastic bag
 - Pen or pencil AND magic marker or grease pencil
 - Enter the "**Date**", the name of the Field Team Member and "**LOCATION**" on Form EP-31.

NOTE:

Find a surface to sample for contamination. Avoid unfinished wooden and hard surfaces with sharp edges. Use smears for smoother surfaces and gauze wipes for rougher surfaces.

- Annotate a small paper envelope for a smear or a small plastic bag for a gauze wipe with this information from Form EP-31:
 - "LOCATION"
 - "DATE" and "TIME"
 - "SURFACE SMEARED"
- Find AND smear a surface. Smear a 100-cm² area. Put two fingers on a smear or wipe AND hold it with your thumb. Reach out AND drag it back across the surface in the pattern of an "S".
- Record the "**Time**" and the "**SURFACE SMEARED**" on Form EP-31.
- Place the smear or wipe in the paper envelope or plastic bag.
- Proceed to the ALARA location to count the samples.



Attachment 9.7

Perform Environmental Surface Contamination Smears

Page 2 of 3

NOTE:

Unless otherwise directed, count the samples where background is less than 300 CPM. **IF** samples must be counted in background higher than 300 CPM, **THEN** the gross count rate for the sample must be greater than twice background. If necessary, relocate to a different location.

Measure the surface contamination samples.

- Use the following:

Ludlum 177 Count Rate Meter, with HP-210 pancake probe

Surgeon's rubber gloves

Tweezers

Planchets

Smear or wipe in a small paper envelope or plastic bag

Form EP-31 used to record surface contamination sampling data.


Determine the activity (CPM) on the smear or wipe.

Using either the Ludlum 177 with pancake probe to measure background for the smear or wipe, "**BKGD CPM**".

- Place the probe about one quarter inch above an empty planchet using the SHA4 holder.
- Adjust the function switch to the lowest multiplier without exceeding full scale on the meter.
- Read **AND** record the "**BKGD CPM**" on Form EP-31.

Measure the smear or wipe, "**SMEAR + BKGD CPM**".

- Remove, using tweezers, a smear or wipe from the envelope or plastic bag. Place the smear or wipe on the planchet.

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Attachment 9.7

Perform Environmental Surface Contamination Smears

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- Place the probe about one quarter to one half inch above the smear or wipe.
- Adjust the function switch to the lowest multiplier without exceeding full scale on the meter.
- Read **AND** record "**SMEAR + BKGD CPM**" on Form EP-31.

Calculate **AND** record "**SMEAR CPM**". Subtract "**BKGD CPM**" from "**SMEAR + BKGD CPM**".

Return, using tweezers, the smear or wipe with the planchet to its small paper envelope or plastic bag

- Remove the rubber gloves and place them in the bag designated for radiological trash.
- Repeat above steps for additional smears or wipes.
- Report the data on Form EP-31 to the Offsite Team Coordinator.



Attachment 9.8

Perform Continuous Exposure Reporting and Control Actions


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- Use Form EP-3-ALL, ERO Log Sheet to record movement and activities conducted. Use the 10-Mile Emergency Planning Zone Wind Sector Map, Site Boundary Map, GPS Units and Street Atlases. Take note of any change in the frisker or survey meter that is located in the vehicle.

NOTE:

Attachments 9.10, 9.11, 9.12, 9.13 and 9.14 may be used to identify destination.

- Maintain radio or telephone communications with the Communicator / Offsite Team Coordinator in route between locations. Each Offsite Monitoring Team should contact the Offsite Team Coordinator at approximately thirty (30) minute intervals.
- Verify the Communicator / Offsite Team Coordinator has the position (e.g., "Offsite Team"), the name of the team (e.g., "Mobile One"), the names and the DLR numbers of the team members.
- Keep pertinent current information on Form EP-3-ALL, ERO Log Sheet.
 - Dosimeter readings (Note readings on Form EP-36)
 - Plant, radiological, and meteorological conditions
 - Monitoring requirements
 - Radiological, exposure controls
 - ALARA locations
 - Landmarks on the route shown on the maps and atlases; e.g., DLR sites, Reuter Stokes sites, schools, and intersections
- IF** at an ALARA location, **THEN** remain there until directed otherwise by the Radiological Assessment Coordinator. Continue monitoring for radiation fields from the vehicle. Periodically ensure both the Offsite Team and the Offsite Team Coordinator/Communicator have current information. Note the current information on Form EP-31 and dosimeter readings on Form EP-36.
- IF** directed to another location **THEN** return to the beginning of this Attachment.

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Attachment 9.9

Perform Post-Field Monitoring Actions

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IF directed to deactivate; **THEN** continue below.

Return to the designated EOF or Alternative TSC/OSC parking area or other location as directed by the Radiological Assessment Coordinator.

Survey **AND** decontaminate the vehicle as directed by the Radiological Assessment Coordinator. Document results on Form EP-31. Return samples for additional analysis.

CAUTION:

Ask the Dose Assessor to determine which, if any, samples are radioactive and implement radiological controls for those samples prior to removing them from the vehicle.

Collect together the samples (i.e., filters, cartridges, smears) with the corresponding data forms.

Ensure each sample is packaged, labeled and traceable to a data form.

NOTE:

Samples may be analyzed at the EOF, onsite by Chemistry or other radiological assessment facilities offsite. Non-radioactive samples may be shipped offsite using NEM procedures. Radioactive samples may be shipped offsite using Radiological Waste procedures.

Request a disposition for the samples from the Radiological Assessment Coordinator.

Turn samples over to the Dose Assessor or representatives from the RP, Chemistry, NEM or Radiological Waste organizations as directed by the Radiological Assessment Coordinator.


Return equipment, materials and supplies.

Use the appropriate portions of Form EP-AD-6-1, "EOF Inventory Checklist" and ensure kits are stocked.

Read **AND** record dosimeter exposures on Form EP-3-ALL. Deliver DLRs and completed Forms to the Radiological Assessment Coordinator.

NOTE:

For drill purposes return DLRs to kits.

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Attachment 9.9

Perform Post-Field Monitoring Actions

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Request assistance from the Dose Assessor to check, decontaminate **OR** package contaminated equipment.

Check that the listed equipment is returned to the kit. Report missing equipment to the Radiological Assessment Coordinator **AND** replace missing equipment as directed. Return the kit to the storage location.

Check that the equipment removed earlier is returned to the storage location. Report missing equipment **AND** replace as directed by the Radiological Assessment Coordinator.



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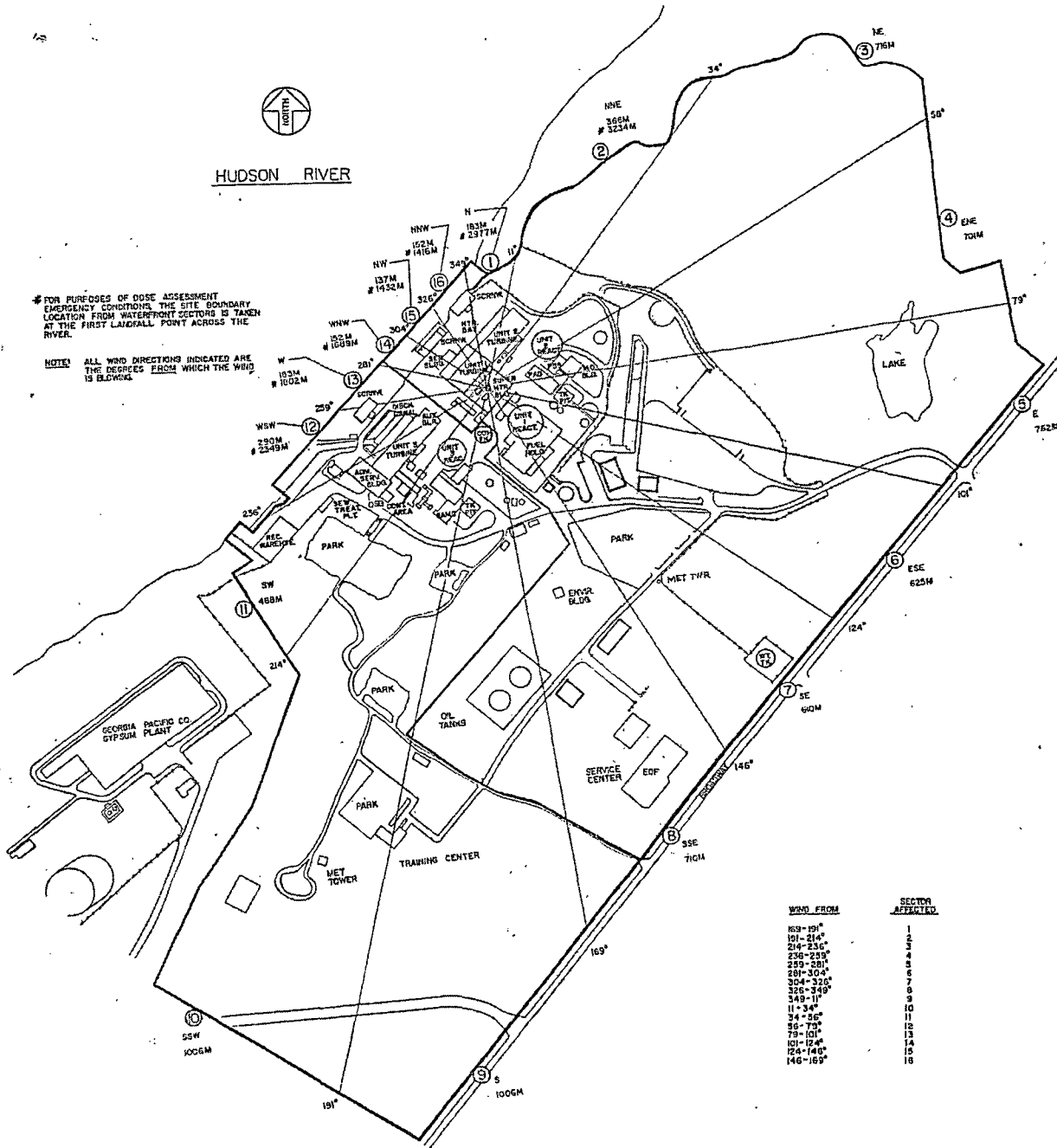
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Attachment 9.10

IPEC Site Map

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Attachment 9.11 Offsite Monitoring Locations

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<u>Sector- Mile</u>	<u>Map Number (Grid) (1)</u>	<u>Location</u>	<u>Directions (off major roads from site)</u>
1-2	W-1 (B-5)	Roa Hook Rd., @ 0.1-0.2 mi. fm Bear Mt. Bridge Rd. (Radiation Monitor Sta. #1)	Rte. 9 North to Annsville Circle to Rtes. 6 & 202, Bear Mt. Bridge Rd. West. Left to Roa Hook Rd.
	* W-14 (G-4)		
1-7	P-3 (B-9)	Route 9D North @ 3.3-3.4 mi. north of Bear Mt. Bridge. [I] (St. Francis Friary)	(See 1-2), Bear Mt. Bridge Rd. West to Bear Mt. Bridge. Right to Rte. 9D North.
	* P-1 (W-5)		
1-10	P-2 (C-7)	Route 9D North @ 0.2-0.3 mi. north of Bridge over Indian Brook. (Derham X Rd.)	Rte. 9 North. Left to Rte. 403. Right to Rte. 9D North.
	* P-5 (R-7)		
2-2	W-1 (C-5)	Old Pemart Ave. along R.R. to dead-end @ fence. (TLD Site).	Rte. 9 North to Rte's 202& 6, Main St. Right to Main St. Exit. Right to Main St. toward river to bottom of hill. Right to Old Pemart Ave.
	* W-14 (G-5)		
2-3	W-1 (C-4)	Highland Ave. @ [r] Sprout Brook Rd. (Truck Sales Room)	Rte. 9 North to Bear Mt. Pkwy. Ext. North, cross overpass, Right to Highland Ave. Exit. Right to Highland Ave.
	* W-17 (F-6)		
2-6	W-1 (D-2) also P-3 (D-10)	Rte. 13 (Sprout Brook Rd.) @ [I] Old Albany Post Rd. / [r] Canopus Hollow Rd.	Rte. 9 North, to Bear Mt. Pkwy Ext. North, Right to Division St. Exit. Left to Division St., to Oregon Rd. North. Left to Gallows Hill Rd. to Rte. 13 (Sprout Brook Rd.).
	* W-17 (D-7)		
2-10	P-6 (E-8)	Canopus Hollow Rd. @ [r] Bell Hollow Rd.	(See 2-6), Rte. 13, Sprout Bk. Rd. / Rte. 15, Canopus Hollow Rd. North. Left to Horton Hollow Rd. North. Left to (again) Canopus Hollow Rd. North.
	* P-2 (T-15)		
3-1	W-2 (C-6)	Louisa St. @ R.R. Bridge.	Rte. 9A North. Left to Welcher Ave. Right to Lower South St. North. Left to Louisa St.
	* W-14 (J-5)		

(1)

Key For County Maps

For each monitoring point's grid locations either the Haggstrom road atlases (top) or the Geographia atlases (bottom with *) may be used which are shown by County map, page number and grid coordinates.

Legend:

W = Westchester

P = Putnam

O = Orange

R = Rockland



Attachment 9.11 Offsite Monitoring Locations

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<u>Sector-Mile</u>	<u>Map Number (Grid)</u>	<u>Location</u>	<u>Directions (off major roads from site)</u>
3-3	W-1 (D-5)	Horton Dr. @ Hillcrest Elementary School	Rte. 9 North to Bear Mt. Ext. North. Right to Carhart Ave. Right to Leda Drive. Right to Horton Dr.
	* W - 14 (G-7)		
3-6	W-1 (E-3)	Oregon Rd. @ [r] Rte. 21, Peekskill Hollow Rd.	Rte. 9 North to Bear Mt. Ext. North. Right to Division St. Exit. Left to Division St., to Oregon Rd. North.
	* W - 17 (E-9)		
3-10	P-6 (F-8)	Rte. 21, Peekskill Hollow Rd. @ [l] Tinker Hill Rd.	(See 3-6), Right to Rte. 21, Peekskill Hollow Rd.
	* P - 2 (U-21)		
4-1	W-2 (C-7)	Lower South St. [r] @ 0.1-0.2 mi. fm Welcher Ave. past A&P. (Englehardt Corp. Entrance)	Rte. 9A North. Left to Welcher Ave. Right to Lower South St. North.
	* W - 14 (K-5)		
4-3	W-2 (D-6)	Maple Ave. @ [l] Chapel Hill Dr. (Chapel Hill Estates)	Rte. 9A North. Right to Welcher Ave. Left to Washington St. Right to Hudson Ave. Right to Maple Ave.
	* W - 14 (J-7)		
4-6	W-11 (F-4)	Lexington Ave. @ [r] Townsend Rd.	Rte. 9 North to Bear Mt. Ext. North. Right to Rte. 6 Exit. Left to Rte. 6 East. Right to Lexington Ave.
	* W - 17 (G-10)		
4-10	W-11 (J-3)	Somerton Rd. @ [l] Carol Court	Rte. 9 North to Bear Mt. Ext. Right to Rte. 6 Exit. Left to Rte. 6 East. Right on Curry St. Left on Weskora Rd. Left on Somerton Rd.
	* W - 18 (E-16)		
5-2	W-2 (C-7)	McKinley St. @ [l] (former McKinley School).	Rte. 9A North. Right to Welcher Ave. Left on McKinley St.
	* W - 14 (K-5)		
5-4	W-2 (E-7)	Furnace Woods Rd. @ Maple Ave.	Rte. 9 South. Right to Montrose Exit. Right to Rte. 9A North. Right to Watch Hill Rd. Left to Furnace Woods Rd.
	* W - 14 (K-8)		
5-7	W-12 (G-7)	Hunterbrook Rd @ 0.3-0.4 mi North of Baptist Church Rd. (Coaxial Crossing #571)	Rte. 9 South. Right to Rte. 129 Exit. Left to Municipal Pl. Left to Rte.129, Maple St. North. Left to Hunterbrook Rd.
	* W - 14 (K-12)		
5-10	W-12 (J-7)	Hanover St. @ Moseman Rd. (St. Patrick's School)	Rte. 9 South. Right to Rte. 129 Exit. Left to Municipal Pl. Left to Rte.129, Maple St. North. Left to Underhill Ave. Right to Hanover St.
	* W - 15 (K-16)		



Attachment 9.11 Offsite Monitoring Locations

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<u>Sector- Mile</u>	<u>Map Number (Grid)</u>	<u>Location</u>	<u>Directions (off major roads from site)</u>
6-1	W-2 (C-7)	Rte. 9A @ Tate Ave. Westchester Industrial Park	Rte. 9A South to Tate Ave.
	* W - 14 (K-5)		
6-3	W-2 (D-8)	Watch Hill Rd. @ [I] Mountainside Tr.	Rte. 9A South. Left on Watch Hill Rd.
	* W - 14 (L-8)		
6-7	W-12 (F-9)	Rte. 129 North @ Hunter Brook Bridge	(See 5-10), Rte.129, Maple St. North.
	* W - 14 (N-11)		
6-10	W-13 (J-10)	Rte. 134 @ Rte. 100	Rte. 9 South. Left to Rte. 9A South. Left to Rte. 134, Croton Dam Rd.
	* W - 12 (P-16)		
7-1	W-2 (B-7)	Westchester Ave. @ [I] 1 st St.	Rte. 9A South. Right to Tate Ave. Right to Westchester Ave.
	* W - 14 (L-5)		
7-4	W-2 (D-9)	Watch Hill Rd. @ [I] Westminster Dr.	(See 5-4), Right to Watch Hill Rd.
	* W - 14 (M-7)		
7-6	W-3 (E-11)	Cleveland Dr. @ [r] Hughes St.	(See 5-10), Rte.129, Maple St. North. Right to Old Post Rd. South. Left to Cleveland Dr.
	* W - 11 (P-9)		
7-10	W-4 (G-13)	North State Rd. @ Ryder Ave.	Rte. 9 South. Left to Rte. 9A South. Left to North State Rd.
	* W - 9 (U-13)		
8-1	W-2 (B-7)	Westchester Ave. @ (Buchanan Verplanck Elementary School)	(See 7-1), Westchester Ave. past 1 st St., between 4 th St. and Pheasant Run.
	* W - 14 (L-4)		
8-3	W-3 (C-9)	Crugers Station Rd. @ [r] Ripley Pl.	Rte. 9A South. Right to Crugers Station Rd.
	* W - 11 (N-7)		
8-7	W-3 (D-12)	Croton Pt. Ave. @ Fixed Air Sampling Sta.	Rte. 9 South. Right to Croton Pt. Ave. Exit. Right on Croton Pt. Ave.
	* W - 11 (R-7)		
8-10	W-4 (E-15)	Liberty St. @ Hudson St.	Rte. 9 South. Right to Revolutionary Rd. Right to Rockledge Ave. Left to Liberty St.
	* W - 9 (V-10)		
9-1	W-2 (B-8)	14 th St. @ James St.	(See 8-1), Westchester Ave. to 14 th St. Right to 14 th St.
	* W - 14 (L-4)		
9-3	W-2 (B-8)	Montrose Pt. Road @ End (outside George's Island Park)	Rte. 9A South. Right to Kings Ferry Rd. to Montrose Pt. Rd.
	* W - 14 (M-4)		



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<u>Sector- Mile</u>	<u>Map Number (Grid)</u>	<u>Location</u>	<u>Directions (off major roads from site)</u>
9-7	R-6 (X-12)	Rte. 9W South @ Rte. 90, South Mountain Rd.	Bear Mt. Bridge West to Rte. 9W South.
	*R - 5 (J-13)		
9-10	R-9 (X-16)	Kings Highway North @ Old Mill Rd.	(See 9-7), Rte. 9W South. Right to Rte. 303. Right on Rockland Lake Rd. Right to Rte. 13, Casper Hill Rd. / Kings Highway North.
	*R - 2 (M-13)		
10-1	W-2 (B-8)	11 th St. @ Highland Ave. (Church)	Broadway South. Right to 11 th St
	*W - 14 (L-3)		
10-4	R-3 (W-8)	Grassy Point Rd. @ Beach Rd.	(See 1-2), Bear Mt. Bridge West to Rte. 9W/202 South. Left to Rte. 108, Main St. to Grassy Point Rd.
	*R - 6 (G-12)		
10-7	R-6 (T-12)	Central Highway / Little Tor Rd. @ Rte. 90, South Mountain Rd.	(See 1-2), Bear Mt. Bridge West to Rte. 9W/202 South. Right at Rte. 202 Westside Ave. Left to Rte.33, Central Highway / Little Tor Rd.
	*R - 5 (J-10)		
10-10	R-8 (S-15)	West Clarkstown Rd. @ Palisades Pkwy. Overpass	Palisades Pkwy. South. Right to exit 11. Left to New Hempstead Rd. Right to West Clarkstown Rd.
	*R - 2 (M-10)		
11-1	W-2 (B-8)	9 th St. extension @ Radiation Monitor Sta. #11. (Lock combination required)	Broadway South. Right to 9 th St. past gate, between abandoned bunkers and transmission tower.
	*W - 14 (L-3)		
11-3	R-3 (U-7)	Adams Dr. @ Gilmore Dr.	(See 1-2), Bear Mt. Bridge West to Rte. 9W/202 South. Right to Adams Dr.
	*R - 6 (F-11)		
11-6	R-3 (S-9)	Willow Grove Rd. @ Knapp Rd.	Palisades Pkwy. South. Right to Exit 14. Left to Willow Grove Rd.
	*R - 5 (G-10)		
11-10	R-5 (N-13)	Wilder Rd. @ Rte. 202 (Haverstraw Rd.)	Palisades Pkwy. South. Right to Exit 13. Right to Rte. 202 South, to Rte. 202 (Haverstraw Rd.) Left to Wilder Rd.
	*R - 4 (K-7)		



Attachment 9.11
Offsite Monitoring Locations

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<u>Sector-Mile</u>	<u>Map Number (Grid)</u>	<u>Location</u>	<u>Directions (off major roads from site)</u>
12-2	R-3 (V-6)	Rte. 9W/202 @ south end of West Shore Dr.	(See sector 1-2) Bear Mt. Bridge West to Rte. 9W/202 South. to south end of West Shore Dr. (formerly Gays Hill Rd.)
	* R - 6 (E-12)		
12-4	R-3 (T-7)	Franck Rd. @ Richard C. Brown Dr.	Palisades Pkwy. South. Right to Exit 15. Right on Rte. 106, Old Gate Hill Rd. to Cedar Pond Rd. Left to Bulsontown Rd. Right to Franck Road.
	* R - 6 (E-11)		
12-7	R-3 (Q-7)	Lake Welch Dr. @ Sewage Plant.	Palisades Pkwy. South. Right to Exit 16. Right to Lake Welch Drive (Road closed during winter months).
	* R - 6 (E-9)		
12-10	R-2 (K-9)	Lake Welch Dr. @ Seven Lakes Dr.	(See 12-7) continue on Lake Welch Drive. (Road closed during winter months).
	* R - 3 (Insert B)		
13-2	R-1 (V-5)	Rte. 9W/202 @ north end of West Shore Dr.	(See 1-2) Bear Mt. Bridge West to Rte. 9W/202 South. Left to north end of West Shore Dr. (formerly Gays Hill Rd.)
	* R - 6 (D-12)		
13-3	R-3 (U-5)	Mott Farm Rd @ entrance to Camp Addison Boyce. (Lake Bullowa).	(See 1-2) Bear Mt. Bridge West to Rte. 9W/202 South. Right to Rte. 118A. Right to Rte. 118, Mott Farm Rd.
	* R - 6 (E-12)		
13-9	O-21 (W-16)	Arden Valley Rd. @ Arden Rd./ Bailey Town Rd.	Palisades Pkwy. South. Right to Exit 18 to Seven Lakes Dr. to Lake Tiorati Circle to Arden Valley Rd. West.
	* O - 22 (WW-33)		
14-2	R-1 (W-4)	Thunder Mt. Rd. @ Radiation Monitor Sta. #14	(See 1-2) Bear Mt. Bridge West to Rte. 9W/202 South. Right to Thunder Mt. Rd.
	* R - 6 (D-12)		
14-6	O-18 (Z-14)	Rte. 6 @ 1.0 mi. West of Palisades Pkwy	Palisades Pkwy. South. Right to Exit 18. Continue to Rte. 6 West.
	* O - 21 (BBB-30)		



Attachment 9.11
Offsite Monitoring Locations

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<u>Sector-Mile</u>	<u>Map Number (Grid)</u>	<u>Location</u>	<u>Directions (off major roads from site)</u>
14-10	O-17 (X13)	Rte. 9, Smith Clove Rd. North @ NYS Twy. Overpass.	(See 14-6) Continue on Rte. 6 West. Right to Averill Ave. Continue on Rte. 32 North. Right to Rte. 9, Smith Clove Rd. North.
	* O - 21 (WW-28)		
15-1	R-1 (W-4)	Rte. 9W/202 @ Anchor Monument. (Directly across from Indian Point).	(See 1-2), Bear Mt. Bridge West to Rte. 9W/202 South.
	* R - 6 (D-13)		
15-4	R-1 (U-2)	Rte. 9W/202, 0.5 mi. south of bridge @ Bear Mount Inn.	(See 1-2), Bear Mt. Bridge West to Rte. 9W/202 South. Right to Bear Mountain Inn.
	* R - 3 (Insert A)		
15-6	O-18 (AA-13)	Mine Rd. @ Weyants Pond Rd.	(See 1-2), Bear Mt. Bridge West to Rte. 9W North. Left to Old Rte. 9W (Firefighter's Mem. Dr.). Left to Mine Rd.
	* O - 21 (DDD-28)		
15-10	O-18 (Y-12)	Smith Clove Rd. @ Trout Brook Rd. / Mineral Springs Rd.	(See 14-6), Continue on Rte. 6 West. Right to Averill Ave. Continue on Rte. 32 North. Right to Rte. 9, Smith Clove Rd. North.
	* O - 16 (YY-25)		
16-1	R-1 (X-4)	Ayers Rd @ Radiation Monitor Sta. #16.	(See 1-2), Bear Mt. Bridge West to Rte. 9W/202 South. Left to Ayers Rd (Old Rte. 9W).
	* R - 6 (D-13)		
16-4	R-1 (U-1)	Bear Mt. Bridge @ west end, (traffic circle).	(See 1-2), Bear Mt. Bridge Rd. West to Bear Mt. Bridge West.
	* W-17 (E-1)		
16-6	O-18 (BB-13)	Morgan's Farm Rd. @ 0.7-0.8 Mi. West of Cragston Lakes.	(See 16-4), Bear Mt. Bridge West to Rte. 9W North. Right to Exit. Left to Rte. 218, to Morgan's Farm Rd.
	* O - 16 (FFF-26)		
16-9	O-18 (BB-11)	Rte. 9W @ Rte. 293	(See 16-4), Bear Mt. Bridge West to Rte. 9W North to Rte. 293.
	* O - 16 (EEE-23)		



Attachment 9.12
Reuter Stokes Locations
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Monitor Number	Location	County
1	Roa Hook Road & Cortlandt Town Garage	Westchester
2	Annsville Circle/Intersection of Route 6 and Route 9 Cortlandt	Westchester
3	Hudson Street & Railroad Avenue Peekskill	Westchester
4	Lower South Street. Peekskill	Westchester
5	South Street & Welcher Avenue, Buchanan	Westchester
6	Broadway, Buchanan	Westchester
7	Broadway at Entrance to Service Center, Buchanan	Westchester
8	Broadway across from Unit 3 entrance, Buchanan	Westchester
9	Broadway & St. Patrick's Cemetery, Verplanck	Westchester
10	11 th . Street & Highland Avenue, Verplanck	Westchester
11	End of 9 th . Street/ West side of Quarry, Verplanck	Westchester
12	Route 9W & Gays Hill Road, Stony Point	Rockland
13	Route 9W & Gays Hill Road North, Stony Point	Rockland
14	Route 9W & Thunder Mountain Road, Stony Point	Rockland
15	Route 9W, Jones Point	Rockland
16	Ayers Road, Jones Point	Rockland



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**Attachment 9.13
GPS Monitoring Locations
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<u>Longitude</u>	<u>Latitude</u>	<u>GPS Location Designation</u>	<u>Location</u>
-73.94767	41.29833	S1-M2	Roa Hook Road
-73.95872	41.31253	S1-M3	Military Road
-73.95562	41.32737	S1-M4	Military Road
-73.95732	41.34182	S1-M5	SR-9d/Bear Mountain Beacon Highway
-73.95297	41.35628	S1-M6	SR-9d/Bear Mountain Beacon Highway
-73.96911	41.36984	S1-M7, W	SR-218/Bear Mountain Beacon Highway
-73.94713	41.37072	S1-M7	SR-9d/Bear Mountain Beacon Highway
-73.96509	41.38481	S1-M8, W	Fenton Place
-73.94703	41.38518	S1-M8	Philipse Landing
-73.96291	41.39959	S1-M9	Upton Road
-73.93302	41.39898	S1-M9, E	SR-9d/Bear Mountain Beacon Highway
-73.95708	41.41413	S1-M10, E	Market Street
-73.97219	41.41328	S1-M10, W	SR-218/Storm King Highway
-73.93453	41.29556	S2-M2	Old Pemart Avenue
-73.9309	41.3101	S2-M3	US-9/Albany Post Road/ CR-306
-73.92819	41.32471	S2-M4	US-9/Albany Post Road/CR-306
-73.91506	41.33645	S2-M5	Upland Drive
-73.90688	41.34955	S2-M6	Old Albany Post Road
-73.90214	41.36373	S2-M7	Old Albany Post Road
-73.89566	41.37736	S2-M8	Old Albany Post Road
-73.88383	41.3893	S2-M9	Canopus Hill Road/ Canopus Hill
-73.88109	41.38844	S2-M9	Canopus Hill Road/ Canopus Hill
-73.87298	41.40155	S2-M10	South Highland Road/ Highland Road
-73.93616	41.27838	S3-M1	CR-155/Louisa Street
-73.92418	41.28995	S3-M2	Central Avenue
-73.91147	41.30082	S3-M3	Frost Lane
-73.89579	41.30943	S3-M4	Locust Avenue
-73.88661	41.32299	S3-M5	Oregon Road
-73.87224	41.3326	S3-M6	Peekskill Hollow Turnpike



Attachment 9.13
GPS Monitoring Locations
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<u>Longitude</u>	<u>Latitude</u>	<u>GPS Location Designation</u>	<u>Location</u>
-73.85761	41.34202	S3-M7	Boys Camp Road
-73.84244	41.35102	S3-M8	CR-21/Peekskill Hollow Road
-73.83322	41.36456	S3-M9	CR-21/Peekskill Hollow Road
-73.81264	41.36944	S3-M10	Barger Street
-73.93415	41.27601	S4-M1	Lower South Street
-73.91695	41.28244	S4-M2	Robin Drive
-73.8979	41.2856	S4-M3	Buttonwood Avenue
-73.88088	41.2924	S4-M4	US-202/Crompond Road/SR-35
-73.86359	41.29873	S4-M5	School Road
-73.84664	41.30567	S4-M6	Sylvan Road
-73.83351	41.31804	S4-M7	Stoney Street
-73.81069	41.31579	S4-M8	Strang Boulevard
-73.79165	41.31887	S4-M9	Gomer Street
-73.77506	41.3265	S4-M10	Driveway
-73.93241	41.26946	S5-M1	McGuire Avenue
-73.8938	41.27098	S5-M3	Pleasantide Road
-73.87465	41.26829	S5-M4	Maple Avenue
-73.8555	41.26691	S5-M5	Maple Avenue
-73.83651	41.27619	S5-M6	Hunter Brook Road
-73.81731	41.27687	S5-M7	Taconic State Parkway
-73.79854	41.25862	S5-M8	CR-131/Underhill Avenue/Turkey Mountain Ave.
-73.77973	41.28321	S5-M9	US-202/Saw Mill River Road/SR-35/SR-118
-73.761	41.2868	S5-10	SR-35/Amawalk Road
-73.93321	41.26469	S6-M1	US-9/Briarcliff Peekskill Parkway
-73.91547	41.25922	S6-M2	Washington Street
-73.89935	41.25084	S6-M3	Flanders Lane
-73.86466	41.23849	S6-M5	Colabaugh Pond Road
-73.84433	41.23679	S6-M6	SR-129/Yorktown Road
-73.82415	41.23671	S6-M7	Croton Dam Road



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GPS Monitoring Locations
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<u>Longitude</u>	<u>Latitude</u>	<u>GPS Location Designation</u>	<u>Location</u>
-73.81237	41.22047	S6-M8	Taconic State Parkway
-73.79171	41.22024	S6-M9	SR-134/Kitchawan Road
-73.77188	41.21854	S6-M10	SR-100/RT-100/Somerstown TK/Saw Mill Ri Rd
-73.93918	41.25831	S7-M1	Henry Street
-73.92418	41.24908	S7-M2	US-9/Briarcliff Peekskill Parkway
-73.91014	41.23923	S7-M3	Westminster Drive
-73.90105	41.22569	S7-M4	
-73.88153	41.21991	S7-M5	Glengary Road
-73.85518	41.19892	S7-M7	Glendale Road
-73.84096	41.1892	S7-M8	Grace Lane
-73.83162	41.17585	S7-M9	Brookside Lane
-73.8152	41.16777	S7-M10	SR-100/Saw Mill River Road
-73.94353	41.25629	S8-M1	Tate Avenue
-73.93895	41.24208	S8-M2	Sunset Road
-73.92388	41.23138	S8-M3	Cortlandt Street
-73.91221	41.21975	S8-M4	US-9/Briarcliff Peekskill Parkway
-73.88757	41.19711	S8-M6, E	Half Moon Bay Drive
-73.89637	41.17711	S8-M7	Croton Road
-73.87203	41.17125	S8-M8	Beach Road/Brayton Park
-73.91418	41.14232	S8-M9, W	CR-80/Rockland Lake Road
-73.86092	41.15862	S8-M9	US-9/Highland Avenue
-73.86147	41.14174	S8-M10	US-9/South Highland Avenue/Albany Post Road
-73.95189	41.25505	S9-M1	Westchester Avenue
-73.94829	41.24065	S9-M2	Montrose Point Road
-73.96099	41.19754	S9-M5	Liberty Street
-73.95553	41.18276	S9-M6	US-9W/S 9/Congers Avenue
-73.9569	41.16831	S9-M7	SR-304
-73.95273	41.15383	S9-M8	CR-80/Congers Road/Congers Lake Road
-73.95544	41.13938	S9-M9	Waters Edge



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GPS Monitoring Locations
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<u>Longitude</u>	<u>Latitude</u>	<u>GPS Location Designation</u>	<u>Location</u>
-73.95863	41.12493	S9-M10	Old Mill Road
-73.95779	41.25588	S10-M1	11 th Street & Broadway
-73.97662	41.23048	S10-M3	CR-110/Beach Road
-73.98644	41.21802	S10-M4	US-9W/S Liberty Drive/US-202
-73.98357	41.20132	S10-M5	US-9W/S (W/Conger Avenue/US-202
-73.98863	41.18726	S10-M6	South Mountain Road/South Mountain Road
-74.00396	41.17642	S10-M7	CR-33/North Little Tor Road
-74.00504	41.16108	S10-M8	CR-33/North Little Tor Road
-74.01475	41.14848	S10-M9	CR-80/New Hempstead Road
-74.03562	41.1394	S10-M10	SR-45/North Main Street
-73.99196	41.23884	S11-M3	Miller Drive
-74.00488	41.22814	S11-M4	CR-47/Thiells Road
-74.02051	41.21951	S11-M5	CR-98/Willow Grove Road
-74.03122	41.20712	S11-M6	Wilbur Avenue
-74.04548	41.19745	S11-M7	Tamarack Lane
-74.05223	41.1822	S11-M8	US-202/Haverstraw Road
-74.07514	41.17897	S11-M9	US-202/Haverstraw Road
-74.08944	41.16932	S11-M10	US-202/Haverstraw Road
-73.98469	41.2553	S12-M2	US-9W/ North Liberty Drive/US-202
-74.00733	41.25968	S12-M3	Skahen Drive/Fowler Drive
-74.02295	41.24891	S12-M4	CR-69/Cedar Flats Road
-74.03566	41.23519	S12-M5	CR-106/Gate Hill Road
-74.05344	41.22952	S12-M6	CR-106/Gate Hill Road
-74.0735	41.22762	S12-M7	CR-106/Gate Hill Road
-74.0981	41.23595	S12-M8	CR-106/Kanawauke Road
-74.1173	41.23417	S12-M9	CR-106
-74.136	41.231	S12-M10	CR-106
-73.98964	41.26845	S13-M2	Maple Place
-74.00825	41.2635	S13-M3	CR-118/Mott Farm Road



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GPS Monitoring Locations
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<u>Longitude</u>	<u>Latitude</u>	<u>GPS Location Designation</u>	<u>Location</u>
-74.04471	41.25577	S13-M5	Palisades Interstate Parkway
-74.08545	41.27404	S13-M7	Tiorati Brook road
-74.10461	41.27443	S13-M8	Arden Valley Road
-74.12367	41.27902	S13-M9	Arden Road
-74.14296	41.27104	S13-M10	Clove Furnace Drive
-74.03501	41.30476	S14-M5	US-6/Seven Lakes Drive
-74.05109	41.31268	S14-M6	US-6
-74.06732	41.32041	S14-M7	US-6
-74.08917	41.32071	S14-M8	US-6
-74.11484	41.31188	S14-M9	US-6
-74.12351	41.33378	S14-M10	SR-32/Albany Turnpike
-73.96343	41.28072	S15-M1	US-9W/North Liberty Drive/US-202
-73.97286	41.29348	S15-M2	US-9W/North Liberty Drive/US-202
-73.9917	41.30039	S15-M3	Lemon Road
-74.00798	41.30858	S15-M4	7 Lakes Drive
-74.01565	41.32322	S15-M5	West Point
-74.01702	41.32219	S15-M5	West Point
-74.01854	41.32106	S15-M5	West Point
-74.02024	41.33898	S15-M6	Mine Road
-74.04863	41.33928	S15-M7	Stillwell Lake Trail
-74.07387	41.3391	S15-M8	Bull Pond Road
-74.07616	41.35944	S15-M9	West Point
-74.08834	41.37071	S15-M10	CR-34/Trout Brook Road
-73.96003	41.28241	S16-M1	Old Route 9W/Old Ayers Road
-73.97065	41.29449	S16-M2	Old Route 9W
-73.96536	41.31158	S16-M3	US-6/US-202/Bear Mountain Bridge Road
-73.97207	41.3252	S16-M4, E	SR-9D/Bear Mountain Beacon Highway
-73.97801	41.33898	S16-M5	US-9W/SR-218
-74.00757	41.3452	S16-M6	North Deep Hollow Road



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GPS Monitoring Locations
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<u>Longitude</u>	<u>Latitude</u>	<u>GPS Location Designation</u>	<u>Location</u>
-73.99979	41.36392	S16-M7	North Deep Hollow Road
-74.00351	41.3784	S16-M8	North Deep Hollow Road
-74.01507	41.39046	S16-M9	Bog Meadow Road
-74.0134	41.4066	S16-M10	Bog Meadow Road




Attachment 9.14

Sampling Point – Distance and Locations

Page 1 of 1

Sector	Wind Direction from (DEG)	Site Boundary Distance	Verify. Point Distance	CLs From True #	Verify. Point Location	Reuter Stokes Distance	Reuter Stokes Location
1N	169-190	2977m	3749m	0	Rt.202 & Rt. 6	3226	Bear Mt. Rd. near Old Stone on Hudson
2NNE	191-213	3234m	3331m	22	Rt. 202 & Rt. 6	3379	Annsville Circle Texaco Station
3NE	214-235	716m	1158m	45	West. Co Power Plant	2574	Hudson Street & Railroad Station
4ENE	236-258	701m	1094m	67	Broadway	1448	Lower South St Near West Iron
5E	259-280	762m	724m	90	Broadway	1287	Lower South St By Bypass Diner
6ESE	281-303	625m	609m	110	Broadway	643	Broadway
7SE	304-325	610m	617m	135	Broadway	643	Broadway
8SSE	326-348	701m	716m	157	Broadway	804	Broadway
9S	349-101	006m	949m	180	Service Rd to Georgia Pacific	1126	Broadway
10SSW	11-33	1006m	1030m	202	Service Rd to Georgia Pacific	1287	11 th . Street and Highland
11W	34-55	488m	611m	225	Georgia Pacific Corp. Prop.	1287	Trap Rock at end of 9 th . Avenue
12WSW	56-78	2349m	2494m	247	Rt. 9W	2494	Gays Hill Rd.
13W	79-100	1802m	1834m	270	Gays Hill Road	1870	Gays Hill Rd.
14WNW	101-123	1689m	1786m	292	Rt. 9W	1870	Rt. 9W
15NW	124-145	1432m	1529m	315	Rt. 9W	1648	Rts.9W & 202
16NNW	146-168	1416	1512m	337	Ayers Road	1770	Ayers Road

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Attachment 9.15

Radiological Field Monitoring Discussion


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DISCUSSION

- ❑ The purpose of radiological monitoring is to find and define a plume of radioactive airborne contamination and any surface contamination left in the wake of a plume.
- ❑ Monitoring activities include detecting beta radiation, measuring gamma radiation and sampling airborne and surface contamination.
- ❑ Monitoring data is reported to the EOF and may be used by the ERO to determine emergency action levels, emergency classifications, radiological exposure controls, protection for on-site personnel and emergency workers, and protective action recommendations for the general public.
- ❑ Offsite Monitoring Team Members will be notified of a declared emergency at either Unit 2 or Unit 3 and directed to report to the Emergency Operations Facility (EOF). They are expected at the EOF within the 60 minutes following the declaration.
- ❑ At the EOF, Offsite Monitoring Team Members report to the Radiological Assessment Coordinator for assignment to the 1st or 2nd shift teams.

PRECAUTIONS AND LIMITATIONS

- ❑ Continually review and practice the prescribed radiological exposure controls.
- ❑ Avoid cross contamination of samples and equipment.
- ❑ When Open window vs Closed window is ≥ 1.5 you are in the plume.
- ❑ Each Offsite Monitoring Team is composed of members from those whose names are listed in the Emergency Telephone Directory.
- ❑ Onsite Teams from the OSC monitor inside the Protected Area fence within and around the Site Boundary. Offsite Monitoring Teams monitor outside this boundary.
- ❑ Emergency Sampling Point locations are listed in Attachments 9.11, 9.13 and 9.14 of this procedure.
- ❑ Vehicles are checked and decontaminated as prescribed in this procedure.
- ❑ The Dose Assessor (DA) in the EOF assures radiological controls are implemented for samples, equipment, materials, supplies and personnel in the EOF.
- ❑ Qualified Nuclear Environmental Monitoring (NEM) Technicians change DLRs and air sampling station filters at fixed sites within the 10 Mile EPZ, submit the DLRs and filters for analysis, sample soil and water and perform other activities prescribed in the station NEM Procedures.

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Attachment 9.15

Radiological Field Monitoring Discussion

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EQUIPMENT AND MATERIALS

- Equipment and material for the Offsite Monitoring Teams are at the EOF in the Field Team Room.
- A key for the storage location is inside the key locker on the west wall of the Emergency Operations Facility (EOF) near the EOF Information Liaison station. Another key is inside the red key box outside, near the entry door to the ECC, on the east wall.
- Equipment and material include three complete sets of monitoring kits. Each set has two sealed cases, A and B. Case A is for plume survey/sampling; Case B is for REMP sampling only.
- Three vehicles, with mobile radio and cellular phone, are available for the Offsite Monitoring Teams. The keys are inside the storage location in the stairwell. Two of these vehicles are at the Buchanan Service Center (EOF parking lot), and one is located at the Verplanck Fire Department, 238 8th Street, Verplanck, along with a set of FMT Kits.
- Vehicles are equipped with 12 VDC/125 VAC inverters.
- Additional equipment is also available in the EOF storage location:
 1. Potassium Iodide (KI)
 2. Batteries, "D" size
- Offsite Monitoring Team Position Binders with procedures and forms are available in the Equipment Room.
- The cellular phones and GPS Units for use in the vehicles are available in the Equipment room.
- Numbers for telephone extensions in the EOF and cellular phones in the vehicles are listed in the Emergency Telephone Directory.

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Attachment 9.15

Radiological Field Monitoring Discussion

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- The IPEC Radio Service has 16 modes of operation. The service includes two radio repeaters with fixed, mobile and portable radio control stations. Seven (4, 5, and 9 -13) modes are available with the mobile radios in the vehicles.
 1. Mode 4, "Onsite": Repeater coverage for the IPEC to 2-3 miles around the Site. Stations: EOF, U2CCR, U3CCR, and vehicles.

Note:

Use the Goosetown Radio System for Offsite as Primary method

2. Mode 5, "Offsite": Repeater coverage for the IPEC to 5-10 miles around the Site. Stations: AEOF, EOF, U2CCR, U3CCR, portables and vehicles.
3. Modes 9 -13, "Talk-around": Line-of-sight coverage between fixed, mobile and portable radios. Stations: portables and vehicles.



Attachment 9.16
Offsite Team Coordinator Checklist
Sheet 1 of 5

1.0 Initial Responsibility/Activity

NOTES

1.1 Follow Responsibility/Activities in EN-EP-609 Attachment 9.9 and the following:

1.2 Assume the position of Offsite Team Coordinator.


A. **IF** it is the initial activation of position **THEN**:

1. Inform the Radiological Assessment Coordinator and Dose Assessor(s) that you are now Offsite Team Coordinator.
2. **WHEN** there are 4 Offsite Monitoring Team members present, establish two Offsite Monitoring Teams. **WHEN** two additional Offsite Monitoring Team members arrive, form an Onsite Monitoring Team or another Offsite Monitoring Team at a location designated by the Radiological Assessment Coordinator.

NOTE

If for any reason the Entergy Offsite Monitoring Teams cannot be dispatched, contact Westchester County to assess status of their teams. Coordinate monitoring strategy with the county if possible. Contact with Westchester County can be accomplished through the Dose Assessment Conference Bridge or through the Westchester County representative at the EOF.

3. **IF** additional personnel are needed **THEN** inform the Radiological Assessment Coordinator and request additional personnel.
4. Conduct a briefing with the Offsite Monitoring Teams. If available, consider using an adjacent room for the briefing, using the guidance in **Attachment 9.4 of this procedure.**

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Attachment 9.16
Offsite Team Coordinator Checklist
 Sheet 2 of 5

Initial Responsibility/Activity (cont.)

NOTES

NOTE:

Offsite Monitoring Teams (OMTs) play a key role in the coordination of the State and local Counties Emergency Plans/Actions. It is an IPEC EXPECTATION to have the OMTs briefed and in the field as-soon-as-possible (i.e. within ~ 30- 45 minutes of their arrival at the EOF).

1.3 Initial Offsite Team Briefing

- A. Prior to dispatching teams into the field, brief them using **Attachment 9.4 of this procedure.**
- B. **IF manned, THEN** Contact the ICP to inform them of the OMT departure.

1.4 Use of the Offsite Radio Using the Radio Headset or Phone Handset

- A. Can be used with either the stationary radio handset or a headset.
- B. Headset is in the desk drawer near the console.
- C. Unplug the handset cord from the phone unit and plug into the jack-box to the left of the radio handset. Remove handset from cradle (refer to job aid provided on OTC desk and in position binder).
- D. Transmission can be completed using the "Transmit" button on the headset Push to talk (PTT); release to listen.
- E. IF the headset is used, it is advised that the console microphone be moved out of the way to avoid any interference.



Attachment 9.16
Offsite Team Coordinator Checklist
Sheet 3 of 5

Initial Responsibility/Activity (cont.)

- F. If using the handset, replace the handset in the phone cradle, unplug the cord from the jack-box and plug into the handset.
- G. Transmission can be completed with the handset by using the "Transmit" button on the Push to talk (PTT); release to listen.

2.0 Continuous Responsibility/Activity

2.1 Transmit directions to the Offsite Monitoring Teams

NOTE

Teams should be designated as Mobile 1, 2 etc. and Site Perimeter Team


- A. Use the Vehicle radio or cell phones to communicate with teams.
- B. Confer with the Radiological Assessment Coordinator and/or Dose Assessors to determine the sample points and the expected whole body exposure rates based on dose projections.

NOTE

Be sure to dispatch Offsite Monitoring Teams to monitor the plume centerline and both sides of anticipated plume if practical.

- C. Enter selected sample point(s) and assigned team on Monitoring Team Radiation Field Survey Data (Form EP-30).
- D. Contact each team and direct them to the designated sample point providing following information:
 - 1. The expected dose rates.
 - 2. Methods of traversing the plume to keep their exposure as low as possible, such as going around plume or traveling through low field areas.

NOTES

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E. Have teams verify instructions by repeating them back.

Attachment 9.16
Offsite Team Coordinator Checklist
 Sheet 4 of 5

Continuous Responsibility/Activity (cont.)

NOTES

2.2 Receive and Record Offsite Monitoring Team Data

- A. Have teams state sample point for which data is being transmitted.
- B. Record survey data on Monitoring Team Radiation Field Survey Data and Monitoring Team Sample Data (Form EP-30 and Form EP-31).
- C. Verify numbers by repeating values back to the team.
- D. Inform the Radiological Assessment Coordinator or Dose Assessor immediately of survey and sample results.

2.3 Determine Radioactive Airborne Concentrations

WHEN Offsite Monitoring Teams report air sample results
THEN determine airborne concentrations as follows:


- A. Use (Form EP-32), Determination of Radioactive Airborne Concentrations to calculate $\mu\text{Ci/cc}$.
- B. Report concentration to Dose Assessor or Radiological Assessment Coordinator.

2.4 Maintain Offsite Monitoring Team Exposure Records.

- A. **IF** any exposure rates are above background **THEN** obtain team member whole body exposure (dosimetry readings).
- B. **IF** any team members are receiving radiological exposures **THEN** record exposures on Individual Exposure Tracking Log (Form EP-36) periodically.

2.5 Keep Offsite Monitoring Teams informed of major changes in emergency status:

- Changes in emergency classification
 - Start or stop of any offsite releases of radioactive materials.
- A. Communications **SHOULD** be within 30 minutes of a

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change in conditions.

Attachment 9.16
Offsite Team Coordinator Checklist
 Sheet 5 of 5

Continuous Responsibility/Activity (cont.)

NOTES

B. Routinely contact Offsite Monitoring Teams approximately every thirty minutes.

2.6 Obtain new sample locations and points from Radiological Assessment Coordinator or Dose Assessor

A. Repeat above steps to continue plume tracking until Radiological Assessment Coordinator determines surveys and sampling are no longer necessary.

2.7 To ensure continuous Offsite Monitoring capabilities, Coordinate the relief of Offsite Monitoring Team personnel, if required.

A. **IF** Offsite Monitoring Teams are deployed **AND** "In-Field" turnover of team personnel is required **THEN** utilize a spare vehicle, if available, or call the Offsite Monitoring Teams back to the EOF, Alternative TSC/OSC or AEOF, one team at a time, to facilitate turnover. The replacement team **SHOULD** be pre-briefed i.a.w step 1.3 and ready to immediately deploy when the off going team returns to the EOF, Alternative TSC/OSC or AEOF.

IPEC IMPLEMENTING PROCEDURE PREPARATION, REVIEW, AND APPROVAL

IP-SMM-AD-102 Rev: 17

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ATTACHMENT 10.2

IPEC PROCEDURE REVIEW AND APPROVAL

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Procedure Title: Airborne Sample Analysis

Procedure No. IP-EP-330 Existing Rev: 11 New Rev: 12 DRN/EC No: DRN-21-00132

Procedure Activity (MARK Applicable)	<input type="checkbox"/> Converted To IPEC, Replaces:	Temporary Procedure Change (MARK Applicable)
<input type="checkbox"/> NEW PROCEDURE <input type="checkbox"/> GENERAL REVISION <input type="checkbox"/> PARTIAL REVISION <input checked="" type="checkbox"/> EDITORIAL REVISION <input type="checkbox"/> VOID PROCEDURE <input type="checkbox"/> SUPERSEDED	Unit 1 Procedure No. _____ Unit 2 Procedure No. _____ Unit 3 Procedure No. _____	<input type="checkbox"/> EDITORIAL Temporary Procedure Change <input type="checkbox"/> ADVANCE Temporary Procedure Change <input type="checkbox"/> CONDITIONAL Temporary Procedure Change Terminating Condition: _____ _____
<input type="checkbox"/> RAPID REVISION	Document in Microsoft Word: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> VOID DRN/TPC No(s): _____

Revision Summary N/A – see Revision Summary page. – editorial change only... Two fleet interface procedure numberings were updated.

Implementation Requirements

Implementation Plan? Yes No Formal Training? Yes No Special Handling? Yes No
 Quality Related? Yes No If Yes, then ensure the procedure cover page is marked "Quality Related"
 RPO Dept: Emergency Planning Writer: (Print Name/Ext/Sign): Rebecca Martin x7106/Rebecca Martin

Review and Approval (Per Attachment 10.1, IPEC Review And Approval Requirements)

1. Technical Reviewer: Chris Delamater / CD 4/16/2021
 (Print Name/ Signature/ Date)

2. Cross-Disciplinary Reviewers:
 Dept: _____ Reviewer: _____
 (Print Name/ Signature/ Date)
 Dept: _____ Reviewer: _____
 (Print Name/ Signature/ Date)

3. RPO- Responsibilities/Checklist: Frank J Mitchell / FL Mitchell 4/20/21
 (Print Name/ Signature/ Date)

- PAD required and is complete (PAD Approver and Reviewer qualifications have been verified)
- Previous exclusion from further LI-100 Review is still valid
- PAD not required due to type of change as defined in 4.6

4. Non-Intent Determination Complete: _____
 (Print Name/ Signature/ Date)

- NO change of purpose or scope
- NO reduction in the level of nuclear safety
- NO voiding or canceling of a procedure, unless requirement are incorporated into another procedure or the need for t procedure was eliminated
- NO change to less restrictive acceptance criteria
- NO change to steps previously identified as commitment steps
- NO deviation from the Quality Assurance Program Manual
- NO change that may result in deviations from Technical Specifica FSAR, plant design requirements,

5. On-Shift Shift Manager/CRS: RPO per SMM-AD-102 F. MITCHELL FL Mitchell 4/20/21
 (Print Name/ Signature/ Date)

6. User Validation: User: _____

7. Special Handling Requirements Understood: _____
 (Print Name/ Signature/ Date)

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-330	Revision: 12
Equipment/Facility/Other: Indian Point Energy Center	
Title: Airborne Sample Analysis	

Part I. Description of Activity Being Reviewed (event or action, or series of actions that have the potential to affect the emergency plan or have the potential to affect the implementation of the emergency plan):

Administrative change to update two fleet procedure numbers to reflect as decommissioning procedures for IPEC.

Procedure will be effective on May 17, 2021.

Part II. Emergency Plan Sections Reviewed (List all emergency plan sections that were reviewed for this activity by number and title. IF THE ACTIVITY IN ITS ENTIRETY IS AN EMERGENCY PLAN CHANGE, EAL CHANGE OR EAL BASIS CHANGE, ENTER THE SCREENING PROCESS. NO 10CFR50.54(q)(2) DOCUMENTATION IS REQUIRED.

Part 2 Planning Standards and Criteria:

Section H: Emergency Facilities and Equipment

Section I: Accident Assessment

Section J: Protective Response

Section K: Radiological Exposure Control

Part III. Ability to Maintain the Emergency Plan (Answer the following questions related to impact on the ability to maintain the emergency plan):

- Do any elements of the activity change information contained in the emergency plan (Section 3.0 Step 6)?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change an emergency classification Initiating Condition, Emergency Action Level (EAL), associated EAL note or associated EAL basis information or their underlying calculations or assumptions?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the process or capability for alerting and notifying the public as described in the FEMA-approved Alert and Notification System design report?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the Evacuation Time Estimate results or documentation?
YES NO IF YES, enter screening process for that element
- Do any elements of the activity change the Onshift Staffing Analysis results or documentation?
YES NO IF YES, enter screening process for that element

10CFR50.54(Q)(2) Review

Procedure/Document Number: IP-EP-330	Revision: 12
Equipment/Facility/Other: Indian Point Energy Center	
Title: Airborne Sample Analysis	

Part IV. Maintaining the Emergency Plan Conclusion The questions in Part III do not represent the sum total of all conditions that may cause a change to or impact the ability to maintain the emergency plan. Originator and reviewer signatures in Part V document that a review of all elements of the proposed change have been considered for their impact on the ability to maintain the emergency plan and their potential to change the emergency plan.

1. Provide a brief conclusion that describes how the conditions as described in the emergency plan are maintained with this activity.
2. Check the box below when the 10CFR50.54(q)(2) review completes all actions for all elements of the activity – no 10CFR50.54(q)(3) screening or evaluation is required for any element. Otherwise, leave the checkbox blank.
 I have completed a review of this activity in accordance with 10CFR50.54(q)(2) and determined that the effectiveness of the emergency plan is maintained. This activity does not make any changes to the emergency plan. No further actions are required to screen or evaluate this activity under 10CFR50.54(q)(3).

Administrative change only, updated the number for two fleet procedures to reflect new procedure number post U3 shutdown.

A review of this activity in accordance with 10 CFR 50.54(q)(2) has been completed and determined that the effectiveness of the PSEP is maintained. This revision is administrative in nature and does not affect the ability to perform classifications, notifications, or PARs, it does not affect activation or staffing of the ERO as described in the Unit 3 PSEP, and all planning standard requirements are maintained, including the ability to alert the public. The change made does not require a change to the Emergency Action Level scheme, On-shift Staffing study, the siren design report or the PSEP.

No further actions are required to screen or evaluate this activity under 10 CFR 50.54(q)(3).

Part V. Signatures:

Preparer Name (Print) Rebecca A. Martin	Preparer Signature <i>Rebecca A. Martin</i>	Date: 4/15/2021
(Optional) Reviewer Name (Print)	Reviewer Signature	Date:
Reviewer Name (Print) Timothy Garvey Nuclear EP Project Manager	Reviewer Signature <i>Rebecca A. Martin for Tim Garvey</i> Approved via telecom	Date: 4/16/2021
Approver Name (Print) Frank Mitchell Emergency Planning Manager or designee	Approver Signature <i>FM</i>	Date: 4/20/21

Attachment 9.1

Emergency Planning Document Change Checklist Form

(All sections must be completed, N/A or place a check on the line where applicable)

Section 1

Doc/Procedure Type:	Administrative <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> EPLAN <input type="checkbox"/> N/A <input type="checkbox"/>
Doc/Procedure No:	IP-EP-330
Doc/Procedure Title:	Airborne Sample Analysis
New revision number:	12
Corrective Action:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> CR#: <u>OL-OLI-2018-00090 CA 19</u>
Effective date:	May 17, 2021

Section 2

Change Description

1. Ensure the following are completed, or are not applicable and are so marked:

- a. 50.54q N/A
- b. EN-FAP-OM-023 N/A
- c. IP-SMM- AD-102 N/A
- d. OSRC N/A
- e. NRC Transmittal N/A
(within 30 days)

2. List any other documents affected by this change: N/A

3. Transmittals are completed: N/A Date: 4/29/21

4. Ensure the proper revision is active in eB Ref. Lib.: N/A

5. Approved doc/procedure delivered to Doc. Control for distribution: N/A Date: 4/29/21


6. Position Binders updated: N/A Date: 4/29/21

7. Copy of EPDCC placed in EP file: N/A Date: 4/29/21

8. Supporting documentation is submitted as a general record in eB Ref. Lib.: N/A Date: 4/29/21

9. Word files are moved from working drafts folder to current revision folder in the EP drive:

N/A Date: 5/17/21

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CONTROLLED

Airborne Sample Analysis

Prepared by:

Rebecca A. Martin
Print Name

Rebecca A Martin
Signature

4/15/21
Date

Approval:

Frank Mitchell
Print Name

Frank Mitchell
Signature

4/20/21
Date

Effective Date: May 17, 2021

This procedure excluded from further LI-100 reviews.



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Airborne Activity Determination

1.0 PURPOSE

- 1.1 To describe the procedure for air monitoring, air sampling and filter counting during a declared emergency at Indian Point Station.
- 1.2 To describe the process for analysis when counting is performed with other than a multi-channel analyzer or an offsite laboratory.
- 1.3 To describe operations of counting equipment normally located at the EOF.

NOTE

This procedure is primarily used for airborne determination outside the Protected Area. Normal air sampling procedures may be used where possible to perform air sampling.

2.0 REFERENCES


- 2.1 Indian Point Energy Center Emergency Plan
- 2.2 Instruction Manual for the Eberline Model SPA-3 scintillation probe
- 2.3 Instruction Manual for the Eberline Model MS-2 Scaler
- 2.4 EN-RP-131, Air Sampling
- 2.5 EN-RP-310, Operation and Initial Setup of the Eberline AMS-4 Continuous Air Monitor

3.0 DEFINITIONS

None

4.0 RESPONSIBILITIES

- 4.1 The Radiological Assessment Coordinator is responsible for requesting a qualified Radiation Protection Technician to analyze air samples taken by the Offsite Monitoring teams. This is normally performed at the EOF.
 - A. Normally samples are counted by teams in the field and retained for further analysis at a later time.
 - B. Air samples may be sent to the Units' counting rooms or an offsite location for analysis. In this case existing procedures will be used at the counting location.


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4.2 The Radiation Protection Technician assigned to count air samples for the EOF or alternate location (if the EOF is not accessible) is responsible for counting samples and documenting results in accordance with this procedure. Any Radiation Protection Technicians who may be assigned as Offsite Team Monitors may analyze samples either in the field or at the EOF/alternate location.

5.0 DETAILS

5.1 Verify Instrument Operability

- A. Verify instrument has a current calibration sticker valid for the SPA-3 probe.
- B. Verify the high voltage, threshold and window setting match values listed on the unit.
- C. Ensure "Test" is *off* and "window is *in*.
- D. Ensure probe is set up (and shielding if necessary) as shown in Attachments 9.2 and 9.3 of this procedure. The sample tray shall be on the middle shelf.
- E. Perform 10 minute background.
- F. Perform 1 minute source check
- G. Ensure background and source check values are within the acceptance criteria and record on form EP-15.
- H. If the criteria is not met repeat steps 5.1.E through 5.1.G.
- I. If the criteria is not met a second time, remove the unit from service IAW EN-RP-301.

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5.2 Air Sampling:

- A. Refer to IP-EP-320 for equipment check and air sample collection instructions using the F&J Model DF-AB-40L or equivalent air sampler.
- B. Operate the AMS-4

NOTE

AMS-4 SHALL be started during EOF staffing


1. Initial AMS-4 Start Up

- **OPEN** filter-housing cover, remove any existing filter media **AND** install a new charcoal filter paper (#508 Carbon Impreg or equivalent). The "lined" side should face down.
- **CLOSE** and latch the filter housing cover.
- **PLUG** the AMS-4 in and turn on SW1 (power) and SW2 (pump) switches located in the back of the monitor

NOTE

IF beeping continues, THEN readjust filter paper and restart.

- **AFTER** the AMS-4 has gone through the initial self test cycle (approximately 5 minutes), **THEN** **VERIFY** the "READY" light is on **AND** activity is displayed.
- **PRESS "2"** on the keypad **AND** **VERIFY** that indicated flow rate is near the posted reference flow rate for charcoal filter. A low flow rate may indicate a flow blockage **OR** loaded filter paper.
- **PRESS "1"** on keypad to display airborne concentration. Negative numbers indicate the current activity is less than the historical data.


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2. Normal AMS-4 Operation

NOTE

This instrument is calibrated to monitor gas and particles.

- CHECK periodically the AMS-4 flow rate by pressing "2" on the keypad. **IF** desired return to activity monitoring by pressing "1" on the keypad.
- **IF** the flow rate approaches 28320 cm³/min OR the "MIN FLOW FAIL" alarm activates **THEN** CHANGE the filter paper as per Section 3.
- **IF** the AMS-4 "DAC HOUR ALARM DETECTED" alarm activates **THEN** NOTIFY the Radiological Assessment Coordinator. The alarm set point is 60 DAC hrs, which is equivalent to 150 mRem.
- **IF** the "FILTER DOOR, OPEN OUT OF SERVICE" alarm activates **THEN** VERIFY that the filter housing is closed and latched.
- **IF** the gamma background in the area changes substantially **THEN** GO to Section 4 to set the Gamma Factor.
- **WHEN** finished monitoring with the AMS-4 **THEN** turn off SW1 (power), SW2 (pump).

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3. Changing AMS-4 Filter Paper

- TURN SW2 (pump) OFF
- **WHEN** the audible alarm activates **THEN** PRESS "ALARM ACK".
- OPEN the filter housing cover **AND WHEN** the audible alarm activates PRESS "ALARM ACK".
- REMOVE any existing filter media **AND** install a new charcoal filter paper (#508 Carbon Impreg or equivalent). The "lined" side should face down.
- CLOSE and latch the filter housing cover.
- TURN on SW2 (pump) switch.
- **WHEN** the audible alarm activates **THEN** PRESS "ALARM ACK".
- PRESS "2" on the keypad **AND** verify that indicated flow rate is near the posted reference flow rate for charcoal filter. The low flow rate alarm set point is 28320 cm³/min. A low flow rate may indicate a flow blockage OR loaded filter paper.
- RETURN to 5.2.B.2 for normal operations.

4. Gamma Factor Set

- VERIFY "READY" light is on. The AMS-4 front panel will NOT respond as expected if an alarm condition exists.
- Turn off SW2 (pump)
- **WHEN** the audible alarm activates **THEN** PRESS "ALARM ACK".
- REMOVE any existing filter media
- PRESS "MENU"



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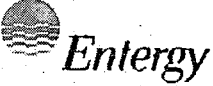
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- AT the prompt "password" type in "0000" **THEN** press "ENTER"
- Scroll through the menu using the "-" button until "Calibrate" appears in display.
- PRESS "ENTER"
- Scroll through the menu using the "-" button until "Gamma Factor Count" is displayed then press the "Enter" key
- Press the "Enter" key again to start count.
- When the gamma factor count is complete, it will be displayed on the LED display.
- Press any key to continue.
- PRESS "ENTER" to accept and update Gamma Factor value.
- Install a new charcoal filter paper (#508 Carbon Impreg or equivalent). The "lined" side should face down.
- Turn on SW2 (pump).
- PRESS "MENU" key twice.

NOTE

WHEN "READY" light appears AND airborne concentrations appears on top line of display THEN go to 5.2.B.2 for normal operation. (IF the flow rate appears THEN press "1" to display activity).


- Periodically check readings of AMS-4 and ensure proper instrument operation.
 - a. **IF** there is a release **THEN** monitor the AMS-4 to identify any increase in the radiological levels in the EOF.
 - b. Follow directions in 5.2.B.2 of this checklist to maintain AMS-4 operations.

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5.3 Sample Count Using the MS-2/SPA-3:


- A. Enclose the cartridge (e.g., in plastic wrap).
- B. Place the enclosed sample in the detector shield on the shelf closest to the detector.
- C. Set the controls on the MS-2 as follows:
 1. POWER switch - "ON"
 2. CPM RANGE switch - appropriate multiplier setting to register expected sample count rate
 3. COUNTING TIME IN MINUTES control - set to desired counting time (normally one minute)
 4. Window IN/OUT switch - "IN"
 5. TEST switch - "OFF"
 6. TIMED/STOP/MAN switch - "TIMED"
 7. WINDOW, THRESHOLD AND HV ADJUST dials - set to values posted on the instrument.
- D. Momentarily depress the RESET-START push-button.
 1. Set to count the sample for ten (10) minutes. **WHEN** the sample has finished counting, **THEN** record the digital display value on Form EP-16.
 2. Use Form EP-16 to calculate the sample activity using the appropriate correction factor, using the following formula: Record results on Form EP-16.
 - EFF - Efficiency (as given on the instrument or as directed by Radiological Assessment Coordinator or Radiation Protection Supervisor).
 - CCF - Charcoal Correction Factor (.95 or as directed by Radiological Assessment Coordinator or Radiation Protection Supervisor).

$$uCi/cc = \frac{(SampleCPM - BkgdCPM) \times (1E - 9)}{2.2 \times EFF \times Volume(L) \times CCF}$$

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$$Volume(L) = (28.32(\frac{L}{ft^3}))X (Volume(ft^3))$$

- E. Remove the cartridge from the detector chamber and store or dispose as appropriate.
 - F. Do a one-minute background verification count to verify it has not changed and the counter is not contaminated. **IF** contaminated, **THEN** take appropriate measures to decontaminate.
 - G. Insert new filter.
- 5.4 Sample Count Using the Ludlum Model 177 OR RM-14/HP-210 or equivalent: This count may be performed for Offsite Monitoring Team air samples returned to the EOF or alternate location.
- A. Connect the HP-210 detector, using the coaxial cable, to the terminal on the front of the instrument (marked "detector" if using the RM-14; if using the Ludlum Model 177 the cable is located in the bottom right-hand corner).
 - B. **IF** using the RM-14 on AC, **THEN** do the following:
 1. Connect it to a 120 VAC supply using the power cord, which connects at the back of the instrument chassis.
 2. Place the rotary switch in the X10 position.
 3. Operate the toggle "Test on" switch at the chassis rear **AND** check that the indication on the meter is **APPROXIMATELY** 3600 CPM (\pm 10%).
 4. Turn the toggle switch off.
 5. Record data on Form EP-16.
 - C. **IF** using the instrument on battery, **THEN** check the battery condition by placing the rotary switch in "Batt" position **AND** record data on Form EP-16.
 - D. Energize the instrument by turning the five position rotary switch from "off" to one of the counting ranges: (e.g., X1, X10, X100 or X1K).
 - E. Place the detector on the sample holder (SH-4, -4a or equivalent) and check the background.
 1. Record the background CPM on DETERMINATION OF RADIOACTIVE AIRBORNE CONCENTRATION (FORM EP-16).

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2. Use lead bricks as shielding to reduce the background CPM to read on the X1 scale (if possible).
- F. Check the operability of the counter:
1. Place the detector in contact with the Ba-133 check source (located in the kit next to the meter).
 2. Read source CPM above background **AND** record result on appropriate HP survey form.
 3. Compare to count rate range labeled on the source. If not within the acceptable range use another meter.
- G. Place particulate filters to be counted, one at a time, rough side up in the counting chamber.
- H. Read sample CPM and record results on DETERMINATION OF RADIOACTIVE AIRBORNE CONCENTRATION (FORM EP-16).
- I. **IF** necessary, calculate the filter activity as follows:

$$\mu\text{Ci/cc} = \frac{(\text{Sample CPM} - \text{Bkgd CPM}) \times 1.6 \text{ E-11}}{\text{Volume (Cu Ft.)} \times \text{Eff.}}$$


Above calculation uses:

$$\text{EFF (Efficiency)} = 0.1$$

NOTE

Should sample holders be unavailable, the filters may be counted by placing the detectors within half inch of the filter.

- J. To count the iodine filter cartridges in the sample holders, modify the holders as follows:
1. **IF** using the SH-4, **THEN** do the following:
 - a. Remove the sample holder slide.
 - b. Place the silver zeolite cartridge (face up) in the cavity created by removing the sample holder slide.
 - c. Place the detector on the cartridge.
 - d. Determine the count rate.
 2. **IF** using the SH-4a, **THEN** pull out the slide.
 - a. Remove the insert.
 - b. Push the slide back in.

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- c. Place the silver zeolite cartridge (face up) in the cavity created by removing the sample holder slide.
- d. Place the detector on the cartridge.
- e. Determine the count rate.

K. Calculate the cartridge activity as follows:

$$\mu\text{Ci/cc} = \frac{(\text{SampleCPM} - \text{BkgdCPM}) \times (4.6E - 9)}{\text{Volume(Cu Ft.)}}$$

Above calculation based upon use of:

$$\text{EFF (Efficiency)} = 0.0034 \text{ and}$$

$$\text{CCF} = 1.0 \text{ for AgZe}$$

L. Perform background and source checks:

1. APPROXIMATELY every hour:

OR

2. As specified by the Radiological Assessment Coordinator (frequency may be adjusted, either more or less often, in consideration of current radiological condition)

5.5 Label filters:


- A. Use a label, tag or grease pencil.
- B. Identify filters with the following information:
 - Date
 - Time
 - Volume
 - Location

5.6 Save filters for later isotopic determination.

- A. Place in an appropriate container or bag. Work practices are to prevent any cross contamination of the samples.
- B. Determine appropriate storage location and save for future analysis.

5.7 Record Retention

Turn in all completed forms to the Radiological Assessment Coordinator.

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6.0 INTERFACES

- 6.1 IP-EP-320, Radiological Field Monitoring
- 6.2 EN-EP-609-DP, Emergency Operations Facility Operations
- 6.3 EN-EP-611-DP, Operations Support Center Operations
- 6.4 Memorandum IPI-91MAC-240, Chaubard to LaVera, July 1, 1991

7.0 RECORDS

All Logs, Completed Forms and other records generated during an actual emergency shall be considered Quality Records and maintained for the life of the plant.

8.0 REQUIREMENTS AND COMMITMENTS

None

9.0 ATTACHMENTS

- 9.1 SPA-3 Detector/Sample Holder Setup
- 9.2 Use of Lead Bricks to Shield Detector



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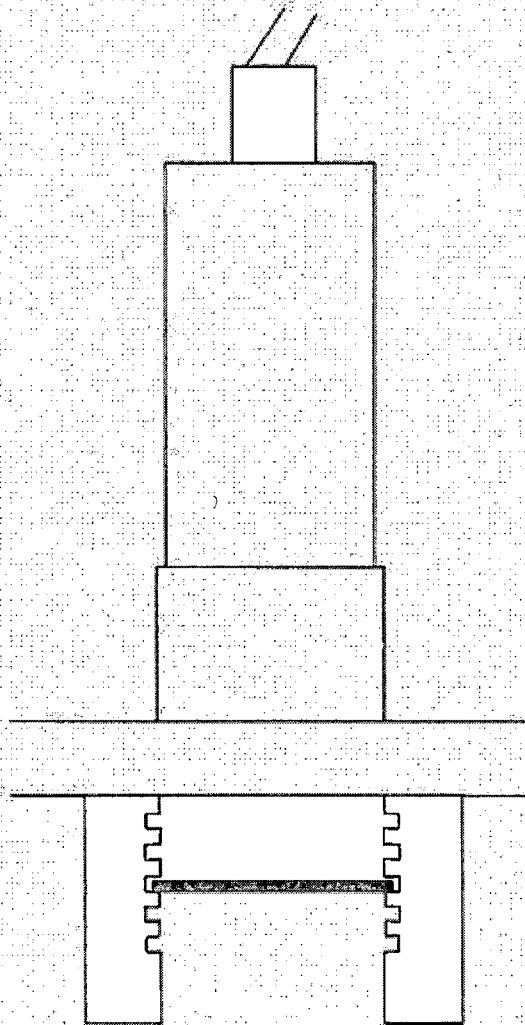
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ATTACHMENT 9.1

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SPA-3 DETECTOR/SAMPLE HOLDER SETUP



Place Sample Tray in middle position.



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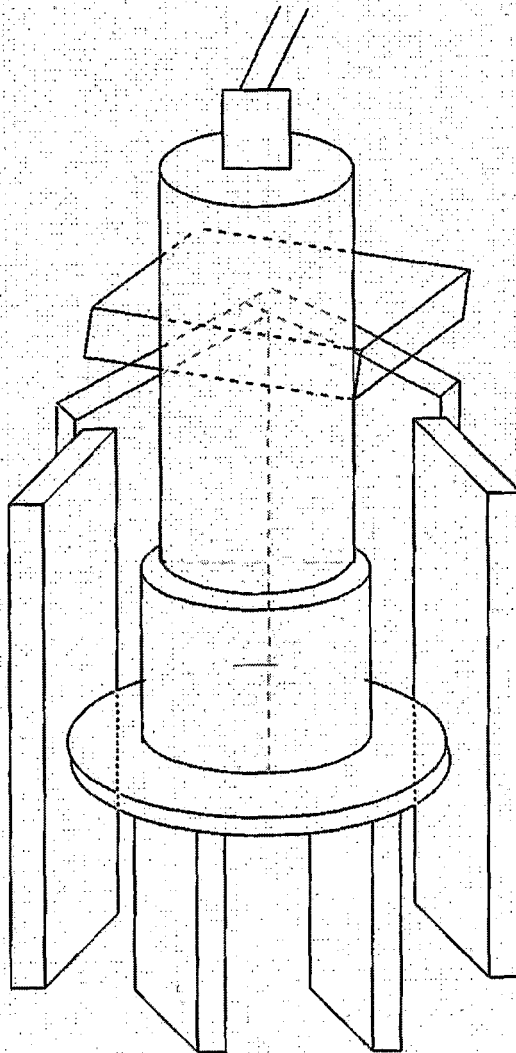
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USE OF LEAD BRICKS TO SHIELD DETECTOR

NOTE

Detectors are normally placed in lead pig. If lead bricks must be used, bricks must be obtained from radiological personnel within the Protected Area.



Use 6-7 blocks to construct the wall

Use 3-4 blocks to construct the roof

Place Blocks on all sides of detector