



NMP1L 2991  
January 19, 2015

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555-0001

Subject: Nine Mile Point Nuclear Station, Units 1 and 2  
Renewed Facility Operating License Nos. DPR-63 and NPF-69  
Docket Nos. 50-220 and 50-410

Submittal of Site Emergency Plan Revision and Emergency Plan  
Procedure Revisions

In accordance with 10 CFR Part 50.54(q) and 10 CFR Part 50, Appendix E, Section V, attached please find Revision 63 to the Nine Mile Point Nuclear Station (NMPNS) Site Emergency Plan (SEP). The changes made do not decrease the effectiveness of the SEP.

Also, in accordance with 10 CFR Part 50, Appendix E, Section V, attached please find copies of the following emergency plan revised checklists in Attachment (1):

CNG-EP-1.01-1013	Revision 00100	Emergency Classification and PAR
CNG-EP-1.01-1015	Revision 00200	Emergency Notifications
CNG-EP-1.01-1025	Revision 00100	NMP Dose Assessment
EP-AA-112-200-F-19	Revision B	Emergency Special Procedure Form
EP-CE-121-1004	Revision 000	Nine Mile Point Equipment Matrix
EP-CHLST-EOF02	Revision 00200	EOF Manager Checklist
EP-CHLST-EOF05	Revision 00100	EOF Administrative/Logistics Coordinator Checklist
EP-CHLST-TSC15	Revision 00200	TSC Administrative Staff Checklist
EP-CHLST-TSC16	Revision 00100	TSC EIS Operator Checklist
EPIP-EPP-04	Revision 02100	Personnel Injury or Illness

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EPIP-EPP-28	Revision 01900	Firefighting
EPMP-EPP-02	Revision 04900	Emergency Equipment Inventories and Checklists

In addition, please note that following procedures and checklists have been cancelled:

- |                  |   |
|------------------|---|
| CNG-EP-1.01-1001 | Emergency Preparedness Program Responsibilities and Oversight                                   |
| CNG-EP-1.01-1003 | Emergency Preparedness Staff Training   |
| CNG-EP-1.01-1004 | 10 CFR 50.54(q) Effectiveness Review  |
| CNG-EP-1.01-1005 | EP Performance Objective and Demonstration Criteria   |
| CNG-EP-1.01-1006 | Drill and Exercise Scheduling and Preparation   |
| CNG-EP-1.01-1007 | Evaluation and Documentation of Drills, Exercises and Classified Events                         |
| EPMP-EPP-05      | Emergency Planning Program Self Assessment  |
| EPMP-EPP-13      | Equipment Important to Assuring Implementation Capability of the Emergency Preparedness Program |

Copies of 10 CFR 50.54(q) analyses of the changes are provided in Attachments (2) and (3). Please note that 10 CFR 50.54(q) analyses are not performed for administrative procedures since they do not affect the Site Emergency Plan.

Should you have any questions regarding the information in this submittal, please contact Terry F. Syrell, Acting Manager Site Regulatory Assurance, at (315) 349-5245.

Sincerely,



Joseph (Budd) Westermann  
 Site Emergency Preparedness Manager

JW/MHS

Attachments: (1) Site Emergency Plan Revision and Emergency Plan Procedure Revisions  
 (2) Copies of 10 CFR 50.54(q)'s

cc: NRC Regional Administrator, Region I  
 NRC Resident Inspector  
 NRC Project Manager (without attachments)



Attachment 1

Site Emergency Plan Revision and Emergency Plan Procedure Revisions

Nine Mile Point Nuclear Station

Attachment 2

Copies of 10 CFR 50.54(q)'s

Nine Mile Point Nuclear Station

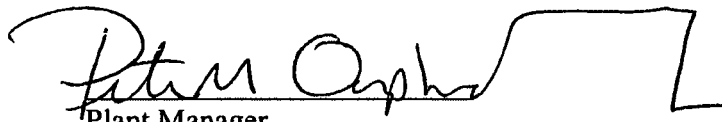
NINE MILE POINT NUCLEAR STATION

SITE EMERGENCY PLAN

REVISION 63

TECHNICAL SPECIFICATION REQUIRED

Approved By:  
P. Orphanos

  
Plant Manager

12/17/2014  
Date

Effective Date:  
12/19/14

SUBJECT TO PERIODIC REVIEW

LIST OF EFFECTIVE PAGES

Page	Rev	Page	Rev	Page	Rev	Page	Rev	Page	Rev
Cvrsh	63	xl	63	5-13	63	6-22	63	B-1	63
i	63	xli	63	5-14	63	6-23	63	C-1	63
ii	63	xlii	63	5-15	63	6-24	63	C-2	63
iii	63	xliii	63	5-16	63	6-25	63	C-3	63
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vii	63	xlvii	63	5-20	63	7-4	63	E-1	63
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ix	63	xlix	63	5-22	63	7-6	63	G-1	63
x	63	l	63	5-23	63	7-7	63	G-2	63
xi	63	1-1	63	5-24	63	7-8	63	G-3	63
xii	63	1-2	63	5-25	63	7-9	63	G-4	63
xiii	63	1-3	63	5-26	63	7-10	63	G-5	63
xiv	63	1-4	63	5-27	63	7-11	63	G-6	63
xv	63	1-5	63	5-28	63	7-12	63	G-7	63
xvi	63	1-6	63	5-29	63	7-13	63	G-8	63
xvii	63	1-7	63	5-30	63	7-14	63	G-9	63
xviii	63	1-8	63	5-31	63	8-1	63	G-10	63
xix	63	1-9	63	6-1	63	8-2	63	G-11	63
xx	63	1-10	63	6-2	63	8-3	63	G-12	63
xxi	63	2-1	63	6-3	63	8-4	63	G-13	63
xxii	63	2-2	63	6-4	63	8-5	63	H-1	63
xxiii	63	3-1	63	6-5	63	8-6	63	H-2	63
xxiv	63	4-1	63	6-6	63	8-7	63	H-3	63
xv	63	4-2	63	6-7	63	8-8	63	H-4	63
xvi	63	4-3	63	6-8	63	8-9	63	I-1	63
xvii	63	4-4	63	6-9	63	8-10	63	I-2	63
xviii	63	5-1	63	6-10	63	8-11	63	J-1	63
xxix	63	5-2	63	6-11	63	9-1	63	J-2	63
xxx	63	5-3	63	6-12	63	9-2	63	J-3	63
xxxi	63	5-4	63	6-13	63	9-3	63	J-4	63
xxxii	63	5-5	63	6-14	63	9-4	63	J-5	63
xxxiii	63	5-6	63	6-15	63	9-5	63	J-6	42
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xxxv	63	5-8	63	6-17	63	9-7	63	J-8	42
xxxvi	63	5-9	63	6-18	63	10-1	63	J-9	42
xxxvii	63	5-10	63	6-19	63	A-1	63	J-10	55
xxxviii	63	5-11	63	6-20	63	A-2	63	K-1	63
xxxix	63	5-12	63	6-21	63	A-3	63		

<b>SUMMARY OF CHANGES INCORPORATED IN REVISION 39</b>			
<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
7.4.4	Offsite Assembly Area (OAA)	7-14	Added reference to establishment and use of an alternate OAA should the normal OAA become unavailable. Included are requirements for this alternate facility and its use.
9.3	ERO Transformations	9-3	Added that the CED/RM notifies the ERO of the transformation to the recovery organization "via the ERF managers/coordinators".
9.4	Emergency Response/Recovery Organization	9-3	1. Clarified the portion of the recovery organization listed as the functional group. 2. Clarified the portion of the recovery organization listed as support.
9.4.1	Recovery Organization Staff	9-4 thru 9-5	1. Provided additional clarification as to the functional group. Listed the key positions and responsibilities. 2. Provided additional clarification as to the support group. Listed the key positions and responsibilities.
Figure 9.1	Emergency Response/ Recovery Organization	9-7	Listed key positions on organization chart.
10	Appendices	10-1	Revised title for Appendix C to Listing of Associated Procedures. This appendix now details procedures associated with the implementation and maintenance of the Site Emergency Plan.
Appendix C	Listing of Associated Procedures	C-1 thru C-13	Split out the procedures that implement the SEP from the procedures that maintain the SEP.

<b>SUMMARY OF CHANGES INCORPORATED IN REVISION 40</b>			
<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
5.1.2	Station Responsibility Off-Normal Working Hours	5-2	Revised statement that Unit 1 SSS will declare the emergency for events affecting both units to: For Events that affect both units, the SSSs at both Units will confer. The SSS at the Unit that: -has the highest level of classification if the classification levels are different will become the SED -or was first notified of the event (if classifications are the same) will become the SED. If unable to determine in an expeditious manner, the Unit 1 SSS will become the SED.
5.2.6.1	Joint News Center Director	5-15	Changed Manager to Director of Nuclear Communications and Public Affairs.

<b>SUMMARY OF CHANGES INCORPORATED IN REVISION 40</b>			
<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
6-1	Initiation of Emergency Actions	6-1	Revised statement that Unit 1 SSS will declare the emergency for events affecting both units to: For Events that affect both units, the SSSs at both Units will confer. The SSS at the Unit that: -has the highest level of classification if the classification levels are different will become the SED -or was first notified of the event (if classifications are the same) will become the SED. If unable to determine in an expeditious manner, the Unit 1 SSS will become the SED.

<b>SUMMARY OF CHANGES INCORPORATED IN REVISION 41</b>			
<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
NA	List of eff. pages	i-v	Updated as necessary to reflect applicable revised pages to rev. 41
NA	Table of Contents	vi-xii	Updated as necessary to reflect changes for revision 41
1	Acronyms and Definitions	1-5	-Added definition of Emergency Plan implementing procedures to reflect that there are other procedures besides EPIPs that are used to implement the SEP. -Revised definition of EPIP to reflect that these procedures are used to respond to an emergency or off-normal event.
5.1	Typical Nuclear Division /Station Organization	5-1, 5-3	Added "and in the USAR" where appropriate to facilitate transition to Improved Technical Specifications (ITS).
5.2.2	Control Room Staff	5-4	Added additional description of control room staffing requirements during emergency plan activation.
7.3.3.d.1	Plant Effluent Monitoring System	7-9	Revised description of the RAGEMS system to accurately depict the system.
8.2.3	Recertification of Plans and Procedures	8-6	Revised to reflect that the Emergency Plan and procedures are reviewed annually in accordance with site admin procedures, and that the emergency plan is recertified annually in accordance with EPMP-EPP-01.
Fig 8-1	EP Department	8-9	Revised Chief Nuclear Officer Title to "a specified corporate officer" as CNO title no longer used.
Fig. 9-1	Emergency Resp/Recovery Org	9-7	Revised Chief Nuclear Officer Title to "a specified corporate officer" as CNO title no longer used.

**SUMMARY OF CHANGES INCORPORATED IN REVISION 41**

Appendix C	Emergency Plan implementing procedures	All	-Revised title to distinguish the fact that these procedures are used to implement actions or activities described within the SEP. -Deleted reference to NDD-EPP, which is a NMPNS procedure used to describe the emergency preparedness program, and not used to implement the SEP.
Appendix I	Commitments	1-1 1-2	Added commitment to identify control room staffing requirements during emergency plan activation

**SUMMARY OF CHANGES INCORPORATED IN REVISION 42**

Section	Section Name	Page #	Change
i	List of effective pages	i-vi	Updated revision number and summary of changes
TOC	Table of Contents	vii-xiii	Updated to reflect changes made as a result of this revision updated page numbers
1	Acronyms and Definitions	1-1 1-2 1-3 1-4 1-5 1-5 1-6 1-6 1-7 1-7 1-8 1-8 1-9 1-10 1-11 1-11	<ol style="list-style-type: none"> <li>1. Added ED/RM, Emergency Director/Recovery Manager</li> <li>2. Deleted SED, Site Emergency Director</li> <li>3. Added TSCM, Technical Support Center Manager</li> <li>4. Deleted CED/RM definition</li> <li>5. Added Emergency Director definition</li> <li>6. Added Emergency Director/Recovery Manager definition</li> <li>7. Revised Evacuation Assembly Area definition</li> <li>8. Added Exclusion Area Evacuation definition</li> <li>9. Revised Offsite Assembly Area definition</li> <li>10. Added Onsite Assembly Area definition</li> <li>11. Revised Personnel Accountability definition</li> <li>12. Added Protected Area Evacuation definition</li> <li>13. Changed page number only</li> <li>14. Deleted Site Emergency Director definition</li> <li>15. Deleted station evacuation definition</li> <li>16. Added TSC Manager definition</li> </ol>
2.0	Scope and Applicability	2-1 2-2	Updated to reflect change to how site events are managed. 2.0.c on page 2-2 now.
5.1.2	Station Responsibility Off-normal work hours	5-2	Deleted Site from Site Emergency Director, revised title from SSS/SED to SSS/ED
5.2.1	SSS/Emergency Director	5-3 5-4	<ol style="list-style-type: none"> <li>1. Revised title from SSS/SED to SSS/ED</li> <li>2. Revised that the SSS/ED is typically relieved by a senior manager (ED/RM)</li> <li>3. Added that the SSS/ED is responsible for the release of information to the media during an emergency</li> <li>4. Deleted reference to "site" evacuation.</li> <li>5. Added reference to EPIP-EPP-23, for functional duties listing</li> <li>6. Moved training requirement to SSS position</li> </ol>

**SUMMARY OF CHANGES INCORPORATED IN REVISION 42**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
5.2.2.a	SSS	5-4	Revised title from SSS/SED to SSS/ED, and added training requirements under SSS position.
5.2.2.d	Shift Chemistry Technician	5-5	1. Revised title from SSS/SED to SSS/ED
5.2.3	Technical Support Center	5-6	1. Revised station evacuation to evacuations 2. Revised title from SSS/SED to SSS/ED
5.2.3.1	TSC Manager	5-6	Added position description and associated responsibilities for TSCM
5.2.3.2	TDC	5-7	Revised title of SED to TSCM
5.2.3.2.a	Other Technical Staff	5-7	Revised title from Technical Support to Technical Staff for consistency of titles
5.2.3.2.b	ENS Communicator	5-7	Added position description and associated responsibilities for ENS Communicator
5.2.3.3	RAM	5-7	Revised that the RAM ensures the TSCM and the ED are kept informed of radiological conditions
5.2.3.4	Security Liaison	5-8	Revised title of SED to TSCM
5.2.3.5	Maintenance Coordinator	5-8	Revised title of SED to TSCM
5.2.3.6	NED Coordinator	5-8	Revised title to eliminate □TSC□ as it was unnecessary to include in the title.
5.2.3.6a	Other staff	5-8 5-9	Revised title of SED to TSCM
5.2.3.7	Rx Analyst	5-9	Updated number (editorial)
5.2.4.1	OSC Coordinator	5-9	Revised SED to TSCM
5.2.4.2	OSC Communicator	5-10	Revised title of SED to TSCM
5.2.4.3	Personnel Accountability Coord.	5-10	Deleted reference to station evacuation as a result of a station evacuation.
5.2.4.5	DCT Coord.	5-10	Revised title of SED to TSCM
5.2.4.6	STOC Coordinator	5-11	Revised title of SED to SSS/ED and CED/RM to ED/RM



**SUMMARY OF CHANGES INCORPORATED IN REVISION 42**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
5.2.5.1	ED/RM	5-11 & 5-12	<ol style="list-style-type: none"> <li>1. Revised title of CED/RM to ED/RM</li> <li>2. Revised title of SED to TSCM</li> <li>3. Revised title of SSS/SED to SSS/ED</li> <li>4. Added that requesting federal assistance and authorizing use of emergency exposure limits may not be delegated</li> <li>5. Added list of functional responsibilities</li> </ol>
5.2.5.2	TLAM	5-12, 5-13	Revised title of CED/RM to ED/RM
5.2.5.4	Security Director	5-14	Revised title of CED/RM to ED/RM
5.2.5.5.a	Technical Staff	5-14	Revised title from Technical Assistants to Technical Staff for consistency Revised duties to ensure all duties are specified.
5.2.5.6	ODAM	5-14	Revised title of CED/RM to ED/RM
5.2.5.8	EOF/JNC Liaison	5-15	Revised title of CED/RM to ED/RM
5.2.6.1	JNC Director	5-16	Revised title of SED to SSS/ED and CED/RM to ED/RM
NA	NA	5-16 thru 5-19	Page numbers changed
5.4.2b	US DOE	5-20	Revised title of SED to ED/RM
5.4.2c	FERC	5-21	Revised to update fact that hydro stations are no longer NMPC, and that the FERC plan is now in place.
Fig 5.1	On-shift Staffing	5-22	Revised title of SSS/SED to SSS/ED
Fig 5.2	EOF Staffing	5-23	Revised title of CED/RM to ED/RM
Fig 5-3	TSC Staffing	5-24	Revised title of SED to TSCM
NA	NA	5-25 thru 5-27	Page numbers changed
6.1	Initiation of Emergency Actions	6-1	<ol style="list-style-type: none"> <li>1. Revised title of SSS/SED to SSS/ED</li> <li>2. Added that the SSS/ED will be relieved by the ED/RM typically a VP</li> <li>3. Added that the SSS/ED in consultation with the TSCM determines when SAP entry is required.</li> </ol>
6.2.2	Offsite Organization	6-2	Revised title of SSS/SED to SSS/ED

**SUMMARY OF CHANGES INCORPORATED IN REVISION 42**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
6.2.3	On-Site Organization	6-3, 6-4	<ol style="list-style-type: none"> <li>1. Revised title of SSS/SED to SSS/ED</li> <li>2. Changed station and site evacuation to Protected Area and Exclusion Area Evacuations respectively, and added Local Area/Building evacuation, and accountability.</li> <li>3. Deleted that the SSS is relieved by the SED</li> </ol>
6.3.2	Alert	6-5	Added description of protected area evacuation as it relates to protection of personnel during an Alert declaration.
6.3.3	SAE	6-5	<ol style="list-style-type: none"> <li>1. Added description of an exclusion area evacuation as it relates to the protection of personnel during a SAE declaration.</li> <li>2. Deleted sentence "personnel required for evacuation ... is called for"</li> </ol>
6.3.4	GE	6-6	Revised will contain to shall contain PARs, and added one purpose of the GE is to evacuate personnel from the exclusion area to either their home or the OAA if decontamination is necessary
NA	NA	6-7 thru 6-10	Page numbers changed
6.7	Protective actions	6-11	Revised title of SED to SSS/ED and CED/RM to ED/RM
6.7.1a	Local Area/Building Evacuation	6-11	<ol style="list-style-type: none"> <li>1. Added description of this process</li> <li>2. Revised title of SED to SSS/ED and CED/RM to ED/RM</li> <li>3. Revised procedure reference.</li> </ol>
6.7.1b	Protected Area Evacuation	6-12	<ol style="list-style-type: none"> <li>1. Revised Station evacuation to Protected Area Evacuation, and revised description accordingly.</li> <li>2. Revised title of SED to SSS/ED and CED/RM to ED/RM</li> <li>3. Initiated at the declaration of an Alert if it is safe to do.</li> <li>4. Revised procedure reference.</li> </ol>
6.7.1c	Exclusion Area Evacuation	6-12, 6-13	<ol style="list-style-type: none"> <li>1. Revised Site Evacuation to Exclusion Area Evacuation, and revised description accordingly.</li> <li>2. Revised title of SED to SSS/ED and CED/RM to ED/RM</li> <li>3. Initiated at the SAE if a release is anticipated or in progress and always at the GE, if it is safe to do.</li> <li>4. Revised procedure reference.</li> </ol>
6.7.1d	Accountability	6-13	<ol style="list-style-type: none"> <li>1. Revised to ensure that accountability is process for accounting for personnel remaining within the protected area and provided brief description of process.</li> <li>2. Revised procedure reference.</li> <li>3. Added that accountability continues throughout the emergency event.</li> </ol>
6.7.1f	Exposure Control	6-14	Revised title of SED to SSS/ED and CED/RM to ED/RM
6.7.1g	Respiratory Protection	6-15	Revised title of SED to SSS/ED and CED/RM to ED/RM

**SUMMARY OF CHANGES INCORPORATED IN REVISION 42**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
NA	NA	6-16 thru 6-19	Page numbers changed
Fig 6.1	Summary of Notifications And Response	6-20 6-21 6-22 6-23	<ol style="list-style-type: none"> <li>1. Added Local Area/Building Evacuation and accountability as a possible response to a UE,</li> <li>2. Added Protected Area Evacuation and accountability as a possible response to an Alert</li> <li>3. Added Protected Area Evacuation and accountability as a response to a SAE, and an Exclusion Area Evacuation as a possible response</li> <li>4. Added Exclusion Area Evacuation and accountability as a response to a GE</li> </ol>
Fig. 6.2	Initial Notification	6-24	Revised title of SED to SSS/ED
Fig 6.3	Notifications After ERFs Staffed	6-25	Revised title of SED to TSCM and CED to ED/RM
7.4.3	Onsite Assembly Areas/Evacuation Assembly Areas	7-13	Provides description of onsite assembly areas/evacuation assembly areas for ERO and non-essential personnel, and describes the processes for which they are used.
7.4.4	Offsite Assembly Areas	7-14	Revised Site Evacuation to Exclusion Area Evacuation
NA	NA	7-15	Page number changed
8.1.1a	Training	8-1	Revised unescorted personnel training description to indicate that training is received on "evacuations" from station evacuation
8.1.1c	Training	8-1	Revised temporary work force personnel training description to indicate that training is received on "evacuations and accountability" from station evacuation
Fig. 8.2	Initial Training and Periodic Retraining	8-10	Revised title of SED to SSS/ED and CED to ED/RM
9.1.1	Re-Entry	9-1	<ol style="list-style-type: none"> <li>1. Deleted station evacuation in first sentence</li> <li>2. Revised title of CED to ED/RM</li> </ol>
9.1.2	Termination of Emergency Phase	9-1	Revised title of SED to SSS/ED and CED to ED/RM
9.2	Recovery Operations	9-2	Revised title of CED to ED/RM
9.3	Emergency Organization Transformation	9-3	Revised title of CED to ED/RM

**SUMMARY OF CHANGES INCORPORATED IN REVISION 42**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
9.4	Emergency Response/Recovery Organization	9-3	Revised title of CED to ED/RM
9.4.1.1	Functional Group	9-4	Revised title of CED to ED/RM
9.4.1.2	Support Group	9-5	Revised title of CED to ED/RM
Fig 9.1	Emergency Response/Recovery Organization	9-7	Revised title of CED to ED/RM Revised for clarity the VP positions as typical
Appendix C	Procedures that Implement the SEP	C-1 thru C-9	<ol style="list-style-type: none"> <li>1. Added EPIP-EPP-05A, Local Area/Building Evacuation</li> <li>2. Added EPIP-EPP-05B, Protected Area Evacuation</li> <li>3. Added EPIP-EPP-05C, Exclusion Area Evacuation</li> <li>4. Added EPIP-EPP-05D, Accountability</li> <li>5. Deleted EPIP-EPP-05, Station Evacuation</li> <li>6. Deleted EPIP-EPP-19, Site Evacuation</li> <li>7. Revised title of SED to SSS/ED</li> </ol>
Appendix F	Evacuation Time Travel Estimates	F-1	Added information for addendum to study
Appendix G	NUREG 0654 Cross Reference	G-1 thru G-13	<ol style="list-style-type: none"> <li>1. Added NUREG 0654 item descriptions</li> <li>2. Revised items as appropriate for cross reference</li> </ol>
Appendix J	TSC Drawing	J-5	Revised title of SED to TSCM
Appendix J	10 Mile EPZ Map	J-6	New Map
Appendix J	Offsite Survey Location Map	J-7	New Map
Appendix J	Siren Location Map	J-8	New Map
Appendix J	Primary Evacuation Route Map	J-9	New Map
Appendix J	Population Estimates Map	J-10	New Map

**SUMMARY OF CHANGES INCORPORATED IN REVISION 43**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
NA	List of Effective pages		
1	Acronyms and Definitions	1-2 1-3 1-5 1-6 1-7 1-9 1-10	<ol style="list-style-type: none"> <li>1. Deleted reference to NMPC in NED acronym.</li> <li>2. Deleted acronym NYPA.</li> <li>3. Deleted reference to Niagara Mohawk Power Corporation in relation to PACC acronym.</li> <li>4. Deleted reference to Niagara Mohawk Power Corporation in relation to Access Control Points and Nuclear Security.</li> <li>5. Deleted reference to Niagara Mohawk Power Corporation in relation to Emergency Director/Recovery Manager senior management representative.</li> <li>6. Revised NMPC to NMP in reference to Offsite and Onsite.</li> <li>7. Revised reference from NYPA to JAFNPP in reference to Offsite and Onsite.</li> <li>8. Revised NMPC to NMP in reference to Exclusion Area</li> <li>10. Revised NMPC to NMP in reference to Restricted Area</li> <li>11. Revised NMPC to NMP in reference to Unrestricted area.</li> </ol>
3.1	Purpose	3-1	Revised NMPC to NMP in reference to establishment and coordination of the SEP.
4.1.1	Unusual Event	4-1	Revised NMPC to NMP in reference to notification of station management.
Fig 4.1	Req'd Actions	4-3	Revised NMPC to NMP in reference to NMP participation.
5.2.3.4	Security Liaison	5-8	Revised NMPC to NMP in reference to providing access and traffic control to facilities.
5.2.5.1	ED/RM	5-12	Revised NMPC to NMP in reference to senior management representative that replaces SSS/ED in charge of the emergency.
5.2.5.2	TLAM	5-12	Revised NMPC to incorporate in reference to advisory group brought in by the TLAM.
5.2.5.4	Security Director	5-14	Revised NMPC to NMP in reference to NMPNS facilities.
5.2.6.1	JNC Admin Manager	5-16	Added description of JNC Administrative Manager
5.3.2	INPO	5-18	Revised NMPC to NMP in reference to whom INPO provides assistance.
Fig.5.5	JNC Staffing	5-26	Added JNC Admin Manager block
6.2.2a	Offsite Authorities	6-2	Revised NMPC to NMP in reference to representative that is sent to NYS EOC and Oswego County EOC.
6.7.1h	Potassium Iodide	6-15	Revised NMPC to NMP in reference to whom KI is available for.
6.9	Emergency Public	6-19	Revised NMPC to NMP in reference to who establishes the programs and

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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
	Information and Rumor Control		who works in conjunction with state and county government.
7.1.4	EOF	7-2	Revised NMPC to NMP in reference to whom the federal evaluation of activities is of during an emergency.
7.1.7	OCEOC	7-3	Revised NMPC to NMP in reference to representative sent to OCEOC.
7.2.2	NRC ENS	7-4	Revised NMPC to NMP in reference to facilities.
7.2.4	NRC HPN	7-5	Revised NMPC to NMP in reference to facilities.
7.2.8	ERDS	7-6	Revised NMPC to NMP in reference to who activates the ERDS.
7.8	Emergency Vehicles	7-15	Revised NMPC to NMP in reference to who has access to vehicles and through which department.
8.1.1	Training	8-1 8-2	<ol style="list-style-type: none"> <li>1. Revised NMPC to NMP in reference to Director of NUCAPA.</li> <li>2. Revised NMPC to NMP in reference to the ERO.</li> <li>3. Revised NMPC to NMP in reference to emergency organization.</li> <li>4. Revised NMPC to NMP in reference to who conducts training.</li> </ol>
8.4.2	Dissemination of Instructional Material	8-8	Revised NMPC to NMP in reference to Director of NUCAPA.
Appendix C	Emergency Plan implementing procedures	C-2 C-6 C-9	<ol style="list-style-type: none"> <li>1. Removed editorial error (strikeout of site).</li> <li>2. Deleted reference to notifying NMPC Headquarters.</li> <li>3. Revised NMPC to NMP in reference to who is responsible for the PNS sirens.</li> </ol>
Appendix J	Resource Material	J-2 J-4	<ol style="list-style-type: none"> <li>1. Revised NMPC to NMP on drawings of EOF and JNC.</li> <li>2. Revised reference from NYPA to JAFNPP on drawings of EOF and JNC.</li> </ol>

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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
NA	List of Effective pages		Updated according to changes as required
I	Acronyms and Definitions	1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8 1-9 1-10	1. Added ETTE acronym 2. Deleted NMP as an acronym, will be using only NMPNS 3. Page adjusted as appropriate 4. Added Constellation Energy Group as the owner of the facility 5. Revised NMP to NMPNS under definition of EPIPs 6. Revised NMP to NMPNS in reference to exclusion area 7. Revised NMP to NMPNS in reference to offsite 8. Revised NMP to NMPNS in reference to onsite 9. Added Nine Mile Point Nuclear Station, L.L.C. to listing 10. Page adjusted as appropriate 11. Revised NMP to NMPNS in reference to restricted area 12. Revised NMP to NMPNS in reference to unrestricted area
3.1	Purpose	3-1	Revised NMP to NMPNS in reference to establishment and coordination of the SEP
4.1.1	Unusual Event	4-1	Revised NMP to NMPNS in reference to notification of station management
Fig 4.1	Req'd Actions	4-3	Revised NMP to NMPNS in reference to NMP participation
5.2	Onsite ERO	5-2	Added Constellation Energy Group as supplying long term emergency condition support
5.2.3.4	Security Liaison	5-8	Revised NMP to NMPNS in reference to providing access and traffic control to facilities
5.2.5.1	ED/RM	5-12	1. Revised NMP to NMPNS in reference to senior management representative that replaces SSS/ED in charge of the emergency 2. Revised NMP to NMPNS in reference to who the ED/RM interfaces with and added CEG managers
5.2.5.2	TLAM	5-12 5-13	1. Revised corporate to NMPNS in reference to advisory group brought in by the TLAM, and added CEG to the personnel included in the advisory group. 2. Revised Niagara Mohawk to CEG in reference to Legal, claims, risk management departments, etc.
5.2.5.3	ALM	5-13	1. Revised where appropriate NMPC to NMPNS 2. Added that Purchase Orders are in place to provide for transportation needs 3. Added that provisions have been established to ensure liaison with CEG Treasury Department
5.2.5.4	Security Director	5-14	1. Revised NMP to NMPNS in reference to NMPNS facilities 2. Added that the Security Director interfaces as necessary with CEG legal on legal implications and authorities
5.2.7.a	Fire Fighting	5-17	Revised NMP to NMPNS in reference to fire brigade
5.3	Augmentation of ERO	5-18	1. Changed NMPC Nuclear Division to NMPNS personnel in reference to the ERO 2. Added that service level agreements and/or contracts with support agencies are listed in Appendix A
5.3.2	INPO	5-18	Revised NMP to NMPNS in reference to whom assistance is provided
5.3.4	Local Support	5-18	1. Added that service level agreements and/or contracts with support

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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
	Services		agencies are listed in Appendix A 2. Added listings and support provided by: <ul style="list-style-type: none"> <li>• transportation provider</li> <li>• Niagara Mohawk</li> <li>• CEG</li> </ul>
6.1	Init. Of Emerg. Actions	6-1	Replaced Vice President title with Senior Manager
6.2.2.a	Offsite Authorities	6-2	Revised NMP to NMPNS in reference to representative that is sent to NYS EOC and Oswego County EOC
6.7.1h	Potassium Iodide	6-15	Revised NMP to NMPNS in reference to whom KI is available for
6.7.2a	Protective Actions within Oswego County	6-16	Corrected title of ETTEs
6.9	Emergency Public Information and Rumor Control	6-19	Revised NMP to NMPNS in reference to who establishes the programs and who works in conjunction with state and county government
Fig 6.2	ERO interfaces	6-24	Changed corp personnel to CEG personnel
7.1.4	EOF	7-2	Revised NMP to NMPNS in reference to whom the federal agencies provide an evaluation of activities during an emergency
7.1.7	OCEOC	7-3	Revised NMP to NMPNS in reference to representative sent to OCEOC
7.1.8	State EOC	7-3	Revised NMP to NMPNS in reference to representative sent to State EOC
7.2.1	Telephone System	7-3	Deleted reference to microwave system
7.2.2	NRC ENS	7-4	1. Revised NMP to NMPNS in reference to facilities 2. Added statement that ENS is part of the federal telephone system
7.2.4	NRC HPN	7-5	1. Revised NMP to NMPNS in reference to facilities 2. Added statement that ENS is part of the federal telephone system
7.2.7	Radio Systems	7-5	Added ERO to indicate that pagers notify ERO personnel
7.2.8	ERDS	7-6	Revised NMP to NMPNS in reference to who activates the ERDS
7.8	Emergency Vehicles	7-15	Revised NMP to NMPNS in reference to who has access to vehicles and through which department
8.1.1	Training	8-1 8-2	1. Revised NMP to NMPNS in reference to Director of NUCAPA 2. Revised NMP to NMPNS in reference to the ERO 3. Revised NMP to NMPNS in reference to emergency organization 4. Revised NMP to NMPNS in reference to who conducts training
Fig 8.2	Initial Training	8-11	Revised NMP to NMPNS in reference to Fire Brigade
9.4	Emergency Response/ Recovery Org.	9-3	Updated titles in accordance with organizational structure
9.4.1.1	Functional Group	9-5	Updated titles in accordance with organizational structure
9.4.2.1	Contract Services	9-6	Revised Niagara Mohawk to NMPNS in reference to administering of contracts
Fig 9.1	ERO	9-7	Updated to reflect appropriate organizations providing corporate services, contracted services or from Nine Mile Point; updated titles in accordance with organizational structure
App. A	Letters of Agreement	A-2 A-3	1. Revised Niagara Mohawk Power Corporation to NMPNS 2. Added reference to the following letters of agreement: <ul style="list-style-type: none"> <li>• Niagara Mohawk Power Corp</li> <li>• Dr. Padma Ram</li> <li>• Local transportation providers</li> <li>• Constellation Energy Group</li> </ul>



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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
NA	List of Effective pages	i, ii, xvi through xxiii	Updated according to changes as required for Rev. 45.
5.1	Typical Nuclear Division/Station Organization	5-2	Clarified the assignment of responsibility for performing the Shift Technical Advisor function.
NA	NA	5-3	Page number changed.
5.2.2	Control Room Staff	5-4	Clarified the assignment of responsibility for the Assistant Station Shift Supervisor to address SRO presence upon emergency plan activation.
NA	NA	5-5 thru 5-21	Page numbers changed.
Figure 5.2	EOF Staffing	5-23	Added Communications Coordinator to EOF organization chart under the EOF Administrator.
Figure 8.1	Emergency Preparedness Department	8-9	Changed organizational reporting for EP Director from Manager Nuclear Training to General Manager Support Services.

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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
NA	List of Effective pages	i, ii, xvii through xxiv	Updated according to changes as required for Rev. 46.
5.1	Typical Nuclear Division/Station Organization	5-1, 5-2	<ol style="list-style-type: none"> <li>1. The section 5.1 listing of shift crew staffing was relabeled as "minimum" (formally labeled as "typical") to reflect the on shift Table B-1 (NUREG-0654) compliment.</li> <li>2. Portions of section 5.1 previously addressing the minimum staffing (NOTES 1 &amp; 3) were deleted with the exception of the NOTE 2, which clarified the fire brigade as being combined total for the site.</li> <li>3. NOTE 2 is renumbered to be NOTE 1.</li> </ol>
5.2	Onsite Emergency Response Organization	5-3	<ol style="list-style-type: none"> <li>1. Revised second sentence in forth paragraph from, "During off-hours, the augmented ERO will staff all emergency facilities within 60 minutes.", to "During off-hours, all emergency facilities will be staffed within 60 minutes."</li> </ol>
5.2.2	Control Room Staff	5-4	<ol style="list-style-type: none"> <li>1. Deleted reference to Figure 5.1 in the first paragraph.</li> <li>2. Added "or support" to the first sentence in the first paragraph. Sentence now reads "The normal complement of site personnel required to staff <i>or support</i> the affected unit Control Room for an emergency classification of an Alert, Site Area Emergency or General Emergency is listed in section 5.1.</li> <li>3. Removed "Nuclear" from the Station Shift Supervisor and Assistant Station Shift Supervisors title.</li> </ol>
5.2.2.c	Shift Technical Advisor	5-5	<ol style="list-style-type: none"> <li>1. Deleted the statement that "The ASSS may fulfill the STA functions if qualified."</li> </ol>
NA	NA	5-2 thru 5-21	<ol style="list-style-type: none"> <li>1. Page number changed</li> </ol>
6.7.1.a	Local/Area/ Building Evacuation	6-12	<ol style="list-style-type: none"> <li>2. Revised <i>station</i> alarm to be <i>evacuation</i> alarm.</li> </ol>

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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change/Reason</b>
NA	Coversheet, List of Effective pages	Coversheet i, ii, iii, xviii through xxvi	Updated according to changes as required for Rev. 47.
1.1	Acronyms And Definitions	1-2	Eliminated definition of PASS since system will no longer be used.
5.1	Typical Nuclear Division/Station Organization	5-16	Included the new pre-designated positions of JNC Spokesperson and Rumor Control Coordinator and a description of their responsibilities. Also included the position of JNC Writer, which was not previously included. Deleted from the Technical/Radiological Briefer the responsibility to amplify, answer, and clarify technical/radiological questions from media personnel. Deleted JNC support staff. Changes are consistent with new implementation plan and are consistent with the requirements listed in this document
5.3.4	Local Services Support	5-19	Removed PASS Cask removal since PASS Cask removal will no longer be required with system elimination.
NA	NA	5-17 thru 5- 26, 5-28	Page number changed.
Figure 5.5	JNC Staffing	5-27	Revised JNC Staffing (typical) organization chart to reflect the changes described above.
6.5.1	Source Term Determination	6-9	Removed PASS as a means to determine source term due to system elimination.
6.7.2	Offsite Protective Actions	6-17	Revised statement to indicate State and Local officials may consider the use of Potassium Iodide. Previous statement indicated that a Thyroid prophylaxis is not provided. This change is indicative of the change in NRC, State and Local protective action planning standards.
7.2.5	Other Dedicated Telephone Line Systems	7-5	Corrected grammatical error in section describing dedicated telephone systems. Also clarified that the system to be used between JAFNPP control room and the NMPNS control room is the RECS line.
7.3.3	Assessment Systems	7-9	Removed discussion of RAGEMS since RAGEMS is no longer required or in service.
7.3.3	Assessment System	7-10	Removed discussion of PASS since PASS will be eliminated.
Figure 8.2	Initial Training and Periodic Retraining	8-11	Removed discussion on training for Post Accident Sampling and Analysis for the PASS sampling since system will be eliminated.
Appendix A	Letters of Agreement	A-3	Removed Pooled Inventory Management agreement under list since there will be no need to provide for withdraw of PASS casks.
Appendix C	Emergency Plan implementing Procedures	C-3	Redefined the purpose of EPIP-EPP-09 to reflect the changes in methodology for performing core damage assessment. Procedure is revised to now include containment radiation and hydrogen concentrations as the primary and secondary means for assessing core damage. Procedure allows for assessment of coolant samples should they be obtained.

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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change/Reason</b>
Appendix G	Cross-Reference Index Between NMPNS Emergency Plan and NUREG 0654/FEMA-REP-1 Rev.1	G-6	Removed reference to NUREG 0578 PASS (I.2) since it is no longer applicable.
Appendix G	Cross-Reference Index Between NMPNS Emergency Plan and NUREG 0654/FEMA-REP-1 Rev.1	G-11	Removed reference to "Health Physics drills – PASS Samples" (N.2.e.2) since this will no longer be applicable.

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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change/Reason</b>
NA	Coversheet, List of Effective pages	Coversheet, i, ii, iii, xx to xxx	Updated according to changes as required for Rev. 48.
1.1	Acronyms And Definitions	1-2	Deleted PACC acronym and added NUCAPR with change in title of the site communications department This is consistent with the Optimize The Organization (OTO) initiative.
Figure 4.2	Sample Emergency Classification Guidelines	4-4	Updated example of an Unusual Event to reflect recent change to the Security event Emergency Action Level.
5.1.1	Station Responsibility During Normal Working Hours	5-1	Revised titles for overall authority for station activities. The “specified corporate officer” was replaced with “Vice President NMP” and “Plant Managers” were replaced with “Plant General Manager”. This is consistent with the Optimize The Organization (OTO) initiative.
5.2.3/ 5.2.3.1	Technical Support Center Staff	5-6	Replaced “A plant or branch Manager” with a “General Manager or manager” for the TSCM position. This is consistent with the Optimize The Organization (OTO) initiative.
5.2.3/ 5.2.3.2	Technical Support Center Staff	5-6	Replaced “Manager or Supervisor Technical Support” with “Supervisor or Principal Engineer” for the TDC position. This is consistent with the Optimize The Organization (OTO) initiative.
5.2.3/ 5.2.3.2.a	Technical Support Center Staff	5-6	Deleted Technical Services which will be a part of Operations Support. This is consistent with the Optimize The Organization (OTO) initiative.
5.2.3/ 5.2.3.4	Technical Support Center Staff	5-7 to 5-8	Replaced “Security Training Department” with “Security Management”. This is consistent with the Optimize The Organization (OTO) initiative and past practices. Also eliminated reference to the PAC coordinating activities with the TSCM this is not the current practice.
5.2.3/ 5.2.3.5	Technical Support Center Staff	5-7	Deleted “Manager” to now be just “General Supervisor”. This is consistent with the Optimize The Organization (OTO) initiative and expectations for staffing this position.
5.2.3/ 5.2.3.6	Technical Support Center Staff	5-8	Added “services” to engineering. This is consistent with the Optimize The Organization (OTO) initiative.
5.2.3/ 5.2.3.6.a	Technical Support Center Staff	5-8	Replaced “NED” with “Engineering Services”. This is consistent with the Optimize The Organization (OTO) initiative.
5.2.3/ 5.2.3.7	Technical Support Center Staff	5-9	Replaced a “Reactor Analyst Supervisor” with a “Supervisor Reactor Engineering or a Generation Engineer”. This is consistent with the Optimize The Organization (OTO) initiative.
5.2.4/ 5.2.4.1	Operations Support Center Staff	5-9	Replaced “Work Control supervisor” with “Work Control/Outage Management General Supervisors or Supervisors”. This is consistent with the Optimize The Organization (OTO) initiative.
5.2.4/ 5.2.4.2	Operations Support Center Staff	5-9	Deleted “Engineer” from Maintenance Department Generation Engineer/Specialist. This is consistent with the Optimize The Organization (OTO) initiative.
5.2.4/ 5.2.4.3	Operations Support Center Staff	5-10	Revised “Security Supervisor” to be “Security Management member”. This is consistent with the Optimize The Organization (OTO) initiative.

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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change/Reason</b>
5.2.4/ 5.2.4.6	Operations Support Center Staff	5-11	Revised "Security Site Supervisor" to be "Security Management member". This is consistent with the Optimize The Organization (OTO) initiative.
5.2.5/ 5.2.5.1	Emergency Operations Facility Center Staff	5-11	Revised "A senior company manager" to be "A senior station manager". This is consistent with the Optimize The Organization (OTO) initiative and past practices.
5.2.5/ 5.2.5.2	Emergency Operations Facility Center Staff	5-12	Revised "A Manager Nuclear Engineering" to be "A General Supervisor of Engineering Services" and replaced "NED" with "Engineering Services". This is consistent with the Optimize The Organization (OTO) initiative.
5.2.5/ 5.2.5.3	Emergency Operations Facility Center Staff	5-13	Revised "An Office Administrator" to be a "Supervisor from one of the station support departments". This is consistent with the Optimize The Organization (OTO) initiative.
5.2.5/ 5.2.5.3	Emergency Operations Facility Center Staff	5-13	Revised "NMPNS Administrative Services" to be "Document and Record Services". Revised "NMPNS Communications" to be "NMPNS Information Technology and Telecommunications Services". Revised "NMPNS Procurement Branch" to be "NMPNS Procurement and Warehouse Services". This is consistent with the Optimize The Organization (OTO) initiative.
5.2.5/ 5.2.5.4	Emergency Operations Facility Center Staff	5-13	Revised "A Manager or Supervisor Nuclear Security" to be "Security Management member". This is consistent with the Optimize The Organization (OTO) initiative.
5.2.5/ 5.2.5.5	Emergency Operations Facility Center Staff	5-14	Added "or Supervisor" to A General Supervisor Training to the typical designee for the position of EOF Administrator. This is consistent with the Optimize The Organization (OTO) initiative.
5.2.5/ 5.2.5.6	Emergency Operations Facility Center Staff	5-14	Removed Training from the ODAM typical designee since Training is not expected to provide resources for this position. This is consistent with the Optimize The Organization (OTO) initiative.
5.2.5/ 5.2.5.6.a	Emergency Operations Facility Center Staff	5-14	Replaced "Environmental protection department staff member" with "Principal Engineer (Environmental) or Environmental Engineer" This is consistent with the Optimize The Organization (OTO) initiative.
5.2.5/ 5.2.5.7	Emergency Operations Facility Center Staff	5-15	Replaced "QA Department" with Quality and Performance Assessment Department". This is consistent with the Optimize The Organization (OTO) initiative.
5.2.5/ 5.2.5.8	Emergency Operations Facility Center Staff	5-15	Replaced "support staff member" with Corporate support staff personnel whose assigned work location is NMP." This is consistent with the Optimize The Organization (OTO) initiative.
5.2.6/ 5.2.6.1	Joint News Center Staff	5-16	Replaced "The Director Nuclear Communications and Public Affairs " with "Nuclear Communications and Public Relations group" This is consistent with the Optimize The Organization (OTO) initiative and recently revised practices.
5.2.6/ 5.2.6.1.c	Joint News Center Staff	5-16	Replaced "Management personnel from the Nuclear Support staff" with "Supervisory personnel from various station departments". This is consistent with the Optimize The Organization (OTO) initiative and recently revised practices.

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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change/Reason</b>
5.2.6/ 5.2.6.1.e	Joint News Center Staff	5-16	Replaced "Nuclear supervisory staff" with "Supervisory personnel from various station departments". This is consistent with the Optimize The Organization (OTO) initiative and recently revised practices.
5.2.6/ 5.2.6.1.f	Emergency Operations Facility Center Staff	5-17	Replaced "Nuclear support staff member" with "Corporate support staff personnel whose assigned work location is NMP." This is consistent with the Optimize The Organization (OTO) initiative.
5.2.6/ 5.2.6.1.g	Emergency Operations Facility Center Staff	5-17	Replaced "Nuclear support staff member" with "Corporate support staff personnel whose assigned work location is NMP." This is consistent with the Optimize The Organization (OTO) initiative.
6.2.3/ 6.2.3.b.4)	On-site Notification and Organization	6-4	Replaced "Plant Manager of the affected unit " with "Plant General Manager". This is consistent with the Optimize The Organization (OTO) initiative.
7.2.1	Telephone Systems	7-3	Deleted reference to NMPC systems since station is no longer a part of Niagara Mohawk and Constellation now has ownership of the system.
7.2.5	Other Dedicated Telephone Line Systems	7-5	The RECS Line is already listed in 7.2.3 and does not need to be listed here.
8.1/8.1.1	Organizational Preparedness/ Training	8-1	Deleted Nuclear from the title of the Training Manager. Revised Nuclear Communications and Public Affairs to be Nuclear Communications and Public Relations. This is consistent with the Optimize The Organization (OTO) initiative.
8.1.2	Exercises and Drills	8-4	Revised title of Supervisor Fire Protection with Supervisor Operations Fire Protection and revised title of Operations Manager-Nuclear to be Manager Unit 1 Operations. Unit 1 Operations now has responsibility for the station fire protection program. Also deleted Nuclear from the Training Managers title. This is consistent with the Optimize The Organization (OTO) initiative.
8.4	Public Education and Information	8-8	Revised Manager Nuclear Communications and Public Affairs to be Manager Nuclear Communications and Public Relations. This is consistent with the Optimize The Organization (OTO) initiative.
Figure 8.1	Emergency Preparedness Department	8-9	Revised organization chart to reflect new reporting for the Emergency Preparedness Department. This is consistent with the Optimize The Organization (OTO) initiative.
Figure 8.2	Initial Training and Periodic Retraining	8-10	Deleted "s" off Plant Managers to reflect new organization of one Plant Manager. Also deleted -Nuclear from the title of the Manager of Operations. This is consistent with the Optimize The Organization (OTO) initiative.

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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change/Reason</b>
9.4	Emergency Response/Recovery Organization	9-3	Revised title of Nuclear Engineering General Manager to now be Manager Engineering Services. Replaced Technical Support with Engineering. Deleted General Supervisor Support Services since the position no longer exists. Revised Manager Business Management to be Director Business Planning, Budgeting and Cost Control. Revised Quality Assurance to be Quality & Performance Assessment. Added in CGG Manager Procurement & Warehouse Services and CGG Manager IT & Telecommunication Services to supplement those functions that were formally under the General Manager Support Services. This is consistent with the Optimize The Organization (OTO) initiative.
9.4/ 9.4.1.1.a	Emergency Response/Recovery Organization	9-4	Deleted "(Affected Unit)" after the title of Plant General Manager. Revised Technical Support to be Reactor Engineering. Revised Outage Coordinator to be Work Control/Outage Management. This is consistent with the Optimize The Organization (OTO) initiative.
9.4/ 9.4.1.1.b	Emergency Response/Recovery Organization	9-4	Revised title of the Nuclear Engineering General Manager to now be Manager Engineering Services. Also removed Reactor Engineering which now reports to the Plant Manager. This is consistent with the Optimize The Organization (OTO) initiative.
9.4/ 9.4.1.2	Emergency Response/Recovery Organization	9-5	Revised title Manager Nuclear Training to be Manager Training. Revised title of Director Human Resources Development to be Director Human Resources, also removed "HRD". Revised title of General Manager Business Management to be Director Business Planning, Budgeting & Cost Control. Revised title of QA Nuclear General Manager to be Manager Quality and Performance Assessment. Revised title of General Manager Support Services to be CGG Managers. Added a description of the various CGG Managers and their responsibilities. This is consistent with the Optimize The Organization (OTO) initiative.
Figure 9.1	Emergency Response/Recovery Organization	9-7	Revised organization chart to include title changes as outlined in the OTO organization chart.
Appendix A	Letters of Agreement	A-3	Replaced Teledyne Isotopes with Proxtronics. Proxtronics is the new service provider.
Appendix A	Letters of Agreement	A-3	Deleted Communications and Public Relations service from Niagara Mohawk. This activity is no longer part of the service level agreement.
Appendix A	Letters of Agreement	A-3	Added treasury and added will provide CGG Support Services.
Appendix J	Resource Materials	J-1	Deleted JNC layout from page. This change was an editorial correction.



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<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change/Reason</b>
NA	Coversheet, List of Effective pages	Coversheet i, ii, iii, xxiv to xxxii	Updated according to changes as required for Rev. 49
1	Acronyms	1-1	Revised ETTE to ETE and Evacuation Travel Time Estimate to Evacuation Time Estimate
5.1	Typical Nuclear Division/ Organization	5-1	Clarified minimum shift staffing requirements to reflect updates made by Improved Technical Specifications, USAR and Technical Resources Manual.
5.2	On-Site ERO	5-2	Added reference to Tables 5.1 and 5.2, NMP to NUREG 0654 Table B1 comparison.
5.2.2	Control Room Staff	5-3	Eliminated reference to Technical Specifications and referenced USAR/UFSAR
5.2.5.4	Security Director	5-13	Eliminated position, tasks performed by Security Director were duplicitous to Security Liaison. Renumbered appropriately
NA		5-14	Re-alignment of pages
5.2.5.6.b	Meteorological Advisor	5-15	Eliminated position. Meteorology and forecasting is provided via computer. Task to obtain this will be assigned to dose assessment staff.
5.2.5.8	EOF/JNC Liaison	5-15	Eliminated position. JNC Writer now performs the function of the EOF/JNC Liaison to assure news release is reviewed and approved.
NA		5-16 to 28	Re-alignment of pages.
5.3.4.j	Local Support Services	5-19	Revised Niagara Mohawk support to providing use of the OAA, and eliminated them providing support for siren and communications maintenance. Constellation Energy, and Entergy Nuclear Northeast will do siren and communications maintenance.
5.3.4.k	Local Support Services	5-19	Added Entergy Nuclear Northeast as they are providing for siren mechanical maintenance.
Figure 5.2	EOF Staffing (Typical)	5-23	Eliminated Security Director, EOF/JNC Liaison, and Meteorological Advisor positions. Tasks have been reassigned where appropriate
Table 5.1 and 5.2	NUREG 0654 TO NMP Staffing Comparison	5-28 5-29	Added Tables that show comparison of NMP Staffing levels to NUREG 0654 Table B-1. To ensure compliance with NUREG 0654.
6.2.1	Offsite Notifications and Follow-up Messages	6-2	Added follow-up notification information as required by NUREG 0654. Provided editorial correction of reference to NUREG 0654, which should have been Section II.E, not Section E.
NA	NA	6-2 to 19	Repagination
6.2.3.b.4	On-site Notification and Organization	6-4	Eliminated reference to Plant General Manager "at affected unit", single Plant General Manager has responsibility for both units.
6.7.1.c	Exclusion Area Evacuation	6-12	Added that warning of personnel within the exclusion area can be accomplished within about 15 minutes, to be consistent with other notifications indicated in the SEP.
6.7.1.h	KI	6-15	Revised to remove wording which provided implementing directions as to when KI was to be administered.
6.7.2.a	Protective Actions Oswego County	6-16	Revised Evacuation Travel Time Estimate ETTE to Evacuation Time Estimates ETE consistent with new title and revised ETES.
6.7.2.b	Oswego County	6-16	Added that the system design and testing requirements are detailed

**SUMMARY OF CHANGES INCORPORATED IN REVISION 49**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change/Reason</b>
	PNS		in Wyle Research Report WR 82-26... To provide details of how the PNS system was design and the testing was accomplished.
7.2.3	RECS	7-4	Lake District Office was removed from list. This location is not normally staffed and therefore the line cannot be tested on a sufficient basis to assure its operation. Other commercial phone lines will be used to provide communications capability.
7.2.7	Radio Systems	7-5	Editorial correction. NMP uses radio channels specific to NMP.
NA	NA	7-10 to 14	Re-pagination
7.8	Emergency Vehicles	7-14	Revised to indicate that the EOF coordinates obtaining and using helicopters and fixed wing aircraft. This is done by prearranged purchase order and is facilitated by the EOF, not by Security.
8.1.1b	Training	8-1	Eliminated reference to Energy Center (EC) full time employees. EC is retired in place.
8.1.2	Exercises and Drills	8-4	Revised title of Manager Unit 1 Operations to Manager Operations. A single position was formed to consolidate the duties of two managers.
8.4.2	Dissemination of Inst. Mat'l	8-8	Revised to indicate that a sample of this material is retained within the EP PPF. Provides for clarification for auditing purposes
Figure 8.1	EP Department	8-9	Revised to provide for general details not specific titles, yet still retain sufficient information for reporting chain to CNO.
9.4	Emergency Response/Recovery Organization	9-3	Added additional details of normal organization at NMP, due to changes in organizational structure at NMP. Provided generalized details with regard to corporate titles.
9.4.1.1	Functional Group	9-4 to 6	Added additional details of normal organization at NMP, due to changes in organizational structure at NMP.
Fig. 9.1	Emergency Response/Recovery Organization	9-7	Added additional details of normal organization at NMP, due to changes in organizational structure at NMP.
Appendix A	Letters of Agreement	A-2	Added that JAF will provide for siren mechanical maintenance
Appendix A	Letters of Agreement	A-3	Revised to eliminate NMPC performing siren maintenance and telecomm services. Siren maintenance to be done by NMP and Entergy Nuclear Northeast. Telecomm services to be done by NMP.
Appendix C	Emergency Plan implementing Procedures	C-5 through C-8	Re-ordered pages to reduce extraneous spacing. Added details of new procedure EPIP-EPP-32, Resource and Communications Contingency Guidelines. Repagination eliminated need for page C-9
Appendix F	Evacuation Travel Time Estimates	F-1	Revised and renamed to ETE. Provides details of updated ETE accomplished August 2003.
Appendix G	Cross Reference Index	G-3	Eliminated 5.2.5.8 as a reference to item B.7.d. Item previously referred to EOF/JNC Liaison position, which has been eliminated. Duties are accomplished by other individuals
Appendix G	Cross Reference Index	G-8	Revised ETTE to ETE.

**SUMMARY OF CHANGES INCORPORATED IN REVISION 50**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change/Reason</b>
NA	Coversheet, List of Effective pages, Table of Contents	Coversheet, i, ii, iii, xxvi to xxxiii	Updated according to changes as required for Rev. 50.
1	Acronyms and Definitions	1-1,2, 3	Title Change only. Changed titles of SSS to Shift Manager (SM) and the Assistant SSS to Control Room Supervisor (CRS), for consistency with Constellation Fleet.
2	Scope and Applicability	2-1	Title Change only. Changed title of SSS to Shift Manager (SM) for consistency with Constellation Fleet.
5	Organization Control Of Emergencies	5-1, 2, 3, 4, 5, 6, 8, 11, 12, 13, 15, 22, 28	Title Change only. Changed titles of SSS to Shift Manager (SM) and the Assistant SSS to Control Room Supervisor (CRS), for consistency with Constellation Fleet. Also, on page 13 revised Constellation Energy Group to Constellation Energy, consistent with name of company.
6	Emergency Measures	6-1, 3, 4, 11, 12, 13, 15, 24	Title Change only. Changed title of SSS to Shift Manager (SM) for consistency with Constellation Fleet.
8.1.2	Exercises and Drills	8-5	Revised evaluation criteria to indicate that drills/exercises are evaluated in accordance with EPMP-EPP-10.
8.2.1	Responsibilities for Reviewing and Updating	8-6	Revised to bring the SEP into conformance with regulatory requirements (i.e. 10CFR50.54(t) and revisions to the QATR to reflect those regulatory requirements
Fig 8.2	Initial and Periodic Retraining	8-10	Title Change only. Changed title of SSS to Shift Manager (SM) for consistency with Constellation Fleet.
9.1.2	Termination of Emergency phase	9-1	Title Change only. Changed title of SSS to Shift Manager (SM), for consistency with Constellation Fleet.
Appendix C	Emergency Plan implementing procedure	C-6	Title Change only. Changed title of SSS to Shift Manager (SM) for consistency with Constellation Fleet.
Appendix C	Emergency Plan implementing procedure	C-8	Added procedure EPMP-EPP-10 and associated description
Appendix J	Maps	J-10	Revised 10 Mile EPZ map to provide 2000 census data.

**SUMMARY OF CHANGES INCORPORATED IN REVISION 51**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change/Reason</b>
NA	Coversheet, List of Effective pages, Table of Contents	Coversheet, i, ii, iii, xxvi to xxxiii	Updated according to changes as required for Rev. 51. Corrected typos
4	Emergency Conditions	4-1, 2, 4	Revised emergency classification level definitions in accordance with NRC Order BL 2005-02, Revised Sample EALs
6.3.1 thru 6.3.4	UE, Alert, SAE, GE	6-5, 6, 7	Revised emergency classification level definitions in accordance with NRC Order BL 2005-02
6.7.2c	PAGs and PARs	6-17	Clarified when sheltering is used.
8	Figure 8.1	8-9	Revised reporting chain to show EP Director has line of communication with Site VP
Appendix C	Emerg Plan imp Procedures	C-7	Revised EPMP-EPP-05 Title to Emergency Planning versus preparedness.

**SUMMARY OF CHANGES INCORPORATED IN REVISION 52**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change/Reason</b>
NA	Coversheet, List of Effective pages, Table of Contents	Coversheet, i, ii, iii, xxvii thru xxxiv	Updated according to changes as required for Rev. 52, corrected typos, re-paginated.
5.2.6.1.b	Technical Briefer	5-15	Deleted requirement for a radiological briefer. Should radiological information be required, the close proximity of the EOF permits obtaining needed radiological information from the radiological staff by the technical briefer.
5.3.4	Local Services Support	5-19	Updated list of local service providers. New providers provide same level of service previously provided
5.4.2.b	U.S. Department of Energy	5-21	Added that assistance provided by DOE could include medical consulting and assistance from REAC/TS in Oak Ridge.
Figure 5.5	JNC Staffing (Typical)	5-26	Eliminated block indicating Radiological Briefer, functions subsumed into technical briefer
7.3.2 b	Offsite Assessment Facility	7-6	Replaced R.E Ginna with Calvert Cliffs Nuclear Plant as providing the service.
7.3.3.b2	Onsite Radiological Monitors	7-7	Revised description of monitors to indicate that the actual locations are described within the ODCM to provide additional clarification
7.3.3.b4	Offsite radiological Monitors	7-8	Revised description of monitors to indicate that the actual locations are described within the ODCM to provide additional clarification
Appendix A	Letters of Agreement	A-2, A-3	<ol style="list-style-type: none"> <li>1. Added specific references to what SEP sections detail the need for each LOA provider</li> <li>2. Substituted REAC/TS reference for RMC. NMP will obtain medical consult and assistance from REAC/TS group</li> <li>3. Added "Provide medical assistance to DOE list of actions"</li> <li>4. Eliminated reference to Proxtronics. Analytical services provided by JAFNPP or Calvert Cliffs laboratories. Radiation Protection provides for analysis of TLDS.</li> <li>5. Added reference to National Grid (formerly Niagara Mohawk) name change only</li> <li>6. Re-numbered LOA listing</li> </ol>
Appendix H	Typical Additional Support Resources	H-3, H-4	Updated references to local telephone companies

**SUMMARY OF CHANGES INCORPORATED IN REVISION 53**

<b>SECTION</b>	<b>SECTION NAME</b>	<b>PAGE #</b>	<b>Change/Reason</b>
NA	Coversheet, List of Effective Pages, Summary of Changes	Cover page, i, ii, xxvii	Revised due to change in revision number, put name of current plant general manager on cover page, added summary of changes for revision 53 of the SEP
6.7.2.c	PAGs and Recommendation of PARs	5-2	Revised wording for incorporation of considerations put forth by NRC RIS 2005-08, Endorsement of NEI Guidance, Range of Protective Actions for Nuclear Power Plant Incidents, specifically addressing shelter-in-place for know evacuation impediments and advising the population in the EPZ to monitor the Emergency Alert System.

**SUMMARY OF CHANGES INCORPORATED IN REVISION 54**

SECTION	SECTION NAME	PAGE #	Change/Reason
NA	Coversheet, List of Effective Pages, Summary of Changes	Cover page, i, ii, xxviii	Revised due to change in revision number, put name of current plant general manager on cover page, added summary of changes for revision 54 of the SEP
NA	Table of Contents	xxix thru xxxv	Addition of page xxvii, for summary of pages incorporated for rev 54 resulted in Table of contents page numbers being re-paginated pages xxxi thru xxxv. Tables 5.1 & 5.2 missing from table of contents.
5.2	On-Site Emergency Response Organization	5-2	Removed the 30 minute reporting requirement for the TSC and OSC during normal working hours. Added requirement for all facilities to be staffed within 60 minutes.
Table 5.2	Comparison of NUREG Staffing Requirements to Augmented NMP ERO Staffing	5-29	Editorial correction, number of RP Techs for downwind should have been 4, value was 3, Total actual of 32 was correct.
7.3.3.b.5	Emergency Radiological Survey Teams	7-8	Revised wording for survey teams to be deployed within approximately 30 minutes of notification to approximately 60 minutes of notification.

**SUMMARY OF CHANGES INCORPORATED IN REVISION 55**

SECTION	SECTION NAME	PAGE #	Change/Reason
NA	Coversheet, List of Effective Pages, Summary of Changes	Cover page, i, ii, ,iii, xxviii, xxix, xxx, xxxi, xxxii, xxxiii, xxxv, xxxvi	Changed revision number for affected pages of SEP; added page xxxvi to accommodate rev 55 summary table
NA	Table of Contents	xxxii, xxxiii	Corrected page number references for several items in Section 6.0
Various	Various SEP sections	xxxii, xxxiii, xxxiv, 1-1, 1-6, 5-15, 5-16, 5-18, 5-26, 6-5, 6-6, 6-7, 7-2, 7-4, 7-5, 9-3, H-3, J-4	Replaced Joint News Center (JNC) with Joint Information Center (JIC) for industry alignment. No change was made to the function or staffing of the facility.
5.2.3	Tech Supp Ctr Staff	5-6	Corrected reference of Figure 5 to Figure 5.3. (CR 2008-7097)
5.2.3.1	TSC Manager	5-6	Added a requirement for a SRO level of knowledge for personnel chosen to fill this position. INPO Assist 2008 recommendation (CR 2008-6351). Revised General Manager and Manager titles to lower case to imply as stated "typical" designee.
5.2.4	Ops Supp Ctr Staff	5-9	Corrected reference of Figure 5 to Figure 5.4. (CR 2008-7097)
5.2.5.1	ED/RM	5-11	Added a requirement for a SRO level of knowledge for personnel chosen to fill this position. INPO Assist 2008 recommendation (CR 2008-6351)
5.3	Augmentation of the Onsite ERO	5-18	Added a statement that implementation of the SEP does not require any onsite augmentation by corporate or headquarters personnel. The referenced CR identified that the SEP was not clear on this fact. (CR 2008-7097).
Figure 5.3	TSC Staffing	5-24	Combining the Fuels and Reactor Analyst positions and adding Ops Coordinator to aid in decision making.
Table 5.2	Comparison of NUREG 0654 Staffing	5-29	Combining Fuels and Reactor Analyst positions to eliminate duplication

**SUMMARY OF CHANGES INCORPORATED IN REVISION 55 (con't)**

SECTION	SECTION NAME	PAGE #	Change/Reason
7.3.3.b.2	Assessment Systems	7-7	Clarify onsite and offsite stations which have radiation monitors. Moved the description of those monitors which are considered offsite, consistent with station procedures, under the Offsite heading in SEP section 7.3.3.b.4. The move does not alter the function of the monitors. (CR 2008-6110)
7.3.3.b.4	Assessment Systems	7-8	Clarify offsite stations which define the site boundary and have radiation monitors. Those monitors which are designated as Offsite by station procedures were moved into this section from SEP section 7.3.3.b.2. The move does not alter the function of the monitors. (CR 2008-6042)
7.3.3.d.1	Sampling Systems	7-9	Revised description of Unit 2 sampling system to reflect WRGMS modification.
8.1.1	Training	8-1	Revised NTP-TQS-202 to EPMP-EPP-11 due to fleet reformat; revised responsibilities of Manager Training and Director of EP to be consistent with EPMP-EPP-11; revised title of the NMP Communications personnel and clarified their relationship with OCEMO regarding arrangement of training for offsite personnel.
8.1.1.c	Training	8-1	Revised NTP-TQS-202 to EPMP-EPP-11 due to fleet reformat.
Figure 8.1	EP Dept.	8-9	Revised organization chart Figure 8.1 to reflect current condition
Appendix C	E-Plan Implementing Procedures	C-2, C-4, C-5, C-7, C-8	Revised NTP-TQS-202 to EPMP-EPP-11, NTP-TQS-202 was superseded by EPMP-EPP-11 due to fleet reformat. Corrected several minor errors in procedure titles (CR 2008-7097)
Appendix J	Resource Material	J-10	Revised population values to be consistent with 2000 Census and Oswego County EMO (AI 2008-1810)

**SUMMARY OF CHANGES INCORPORATED IN REVISION 56**

SECTION	SECTION NAME	PAGE #	Change/Reason
NA	Coversheet, List of Effective Pages, Summary of Changes	Cover page, i, ii, iii, xxix, xxx, xxxi, xxxii, xxxiii, xxxiv, xxxv, xxxvi, xxxvii	Revised due to change in revision number, put name of current plant general manager on cover page, added summary of changes for revision 56 of the SEP
Table of Contents	Table of Contents	xxxvi	Added SM in front of Emergency Director for Section 5.2.1. The position title is represented that way in the body of the SEP. Reference CR 2009-006699
Table of Contents	Table of Contents	xxxv	Revised page numbers for 7.4.1 thru 7.8. Page numbering was off by one. Reference CR 2009-006699
Table of Contents	Table of Contents	xxxvii	Revise title of Appendix F to use the term "emergency planning zone". Consistency with the title of Appendix F. Reference CR 2009-006699
5.3	Augmentation of the On-site ERO	5-18	Added wording to clarify that augmentation by corporate personnel who are not assigned at NMP is not needed for E-Plan implementation. It was unclear regarding corporate personnel (ie reporting chain is corporate but are assigned here at NMP) who are part of the ERO. Reference CR 2009-006699.

**SUMMARY OF CHANGES INCORPORATED IN REVISION 56 (con't)**

<b>SECTION</b>	<b>SECTION NAME</b>	<b>PAGE #</b>	<b>Change/Reason</b>
Table 5-1	Comparison of NUREG 0654 Staffing to NMP Minimum Shift Staffing	5-28	Added line item for Site Access Control and Personnel Accountability. Added for completeness against NUREG 0654 Table B-1. Reference CR 2009-006699. On shift Security was in place fulfilling this requirement per the Site Security Plan
8.1.2	Exercises and Drills	8-5	Replaced reference of EPMP-EPP-04 and EPMP-EPP-10 with new fleet procedures CNG-EP-1.01-1005, 1006, 1007. CNG-EP-1.01-1006, 1007, superseded EPMP-EPP-04, CNG-EP-1.01-1005 superseded EPMP-EPP-10
8.2.3	Recertification of Plans and Procedures	8-6	Replaced reference to EPMP-EPP-01 with new fleet procedure CNG-EP-1.01-1002. CNG-EP-1.01-1002 superseded EPMP-EPP-01
8.4.2	Dissemination of Instructional Material	8-8	Replaced reference to EPMP-EPP-01 with new fleet procedure CNG-EP-1.01-1002. CNG-EP-1.01-1002 superseded EPMP-EPP-01
9.4.2	Augmentation of the/Recovery Organization	9-6	Add "Emergency response" to the title of Section 9.4.2. Consistency with Table of Contents. Reference CR 2009-006699
10	Appendices	10-1	Revise title of Appendix C to read Emergency Plan Implementing Procedures. Consistency with Table of Contents and title of Appendix C. Reference CR 2009-006699.
10	Appendices	10-1	Revise title of Appendix F to use term "emergency planning zone". Consistency with the title of Appendix F. Reference CR 2009-006699.
Appendix C	Emergency Plan Implementing Procedures	C-2	Added EPIP-EPP-01-EAL and EPIP-EPP-02-EAL. Procedures should be referenced as they implement the EAL matrices for each unit
Appendix C	Emergency Plan Implementing Procedures	C-5	Revised EPIP-EPP-18 title from "Activation and Direction of Emergency Plan" to "Activation and Direction of the Emergency Plans". Make SEP consistent with procedure title. Reference CR 2009-006699.
Appendix C	Emergency Plan Implementing Procedures	C-7	Deleted EPMP-EPP-01, EPMP-EPP-04, add new fleet procedure CNG-EP-1.01-1003. EPMP-EPP-01 was superseded by fleet procedure CNG-EP-1.01-1002 and CNG-EP-1.01-1004; CNG-EP-1.01-1003 is new. EPMP-EPP-04 superseded by CNG-EP-1.01-1006, 1007 (see page C-8)
Appendix C	Emergency Plan Implementing Procedures	C-8	Deleted procedure EPMP-EPP-10 and added fleet procedures CNG-EP-1.01-1005, 1006, 1007. CNG-EP-1.01-1006, 1007, replaced EPMP-EPP-04 (on page C-7), CNG-EP-1.01-1005 replaced EPMP-EPP-10
Appendix C	Emergency Plan Implementing Procedures	C-8	Added procedures EPMP-EPP-05 and EPMP-EPP-06. EPMP-EPP-05, 06 moved from page C-7 to C-8 due to addition of fleet procedures.
Appendix C	Emergency Plan Implementing Procedures	C-9	New page, added new EPMP-EPP-13. With addition of fleet procedures on previous pages, an additional page to the Appendix was needed
Appendix E	NYS Rad Emergency Prep Plan/Oswego County Rad Emergency Prep Plan	E-1	Revise order in the title of the Appendix E to show the Oswego County plan first. Consistency with Table of Contents. Reference CR 2009-006699

## SUMMARY OF CHANGES INCORPORATED IN REVISION 57

LDCR S-11-SEP-001R00

SECTION	SECTION NAME	PAGE #	Change/Reason
NA	Coversheet, List of Effective Pages, Summary of Change, Table of Contents	Cover page, i, ii, iii, xxxi through xl	Revised due to change in revision number, added summary of changes for revision 57 of the SEP and extra space for future revisions which moved table of contents pagination by three pages.
1.1	Acronyms	1-1	Deleted ACAD - Automated Card Access Device. These have been replaced by Proximity Card Readers (CR-2011-001251)
1.1	Acronyms	1-2	Deleted SEMO State Emergency Management Office and added OEM Office of Emergency Management (NYS). New NYS naming. (AI-2010-000651-003). Deleted NUCPR, Nuclear Communications and Public Relations. It is a term not used any more. This group is simply referred to as Nine Mile Point Communications. (Annual SEP Recertification per CNG-EP-1.01-1002). Added Optically Stimulated Luminescent Dosimeter (OSLD). Replaces TLD as new technology. The function is the same. (CR-2011-001252). Added PORC, Plant Operations Review Committee. This replaced SORC. Name change only, function remained the same. (Annual SEP Recertification per CNG-EP-1.01-1002; QATR). Deleted SRAB, Safety Review and Audit Board. Acronym no longer used. Function replaced by Nuclear Safety Review Board (NSRB) which was added to list of acronyms. (Annual SEP Recertification per CNG-EP-1.01-1002; QATR)
1.2	Definitions	1-4	Changed Constellation Energy Group to Constellation Energy Nuclear Group. New owner name for Nine Mile Point. (Annual SEP Recertification per CNG-EP-1.01-1002)
1.2	Definitions	1-7	In definition for Offsite Assembly Area (OAA), replaced Niagara Mohawk with National Grid. Niagara Mohawk was bought by National Grid. (Annual SEP Recertification per CNG-EP-1.01-1002). Added NSRB, Nuclear Safety Review Board, replaces SRAB, Safety Review and Audit Board. Board function regarding oversight of SEP is unchanged. (Annual SEP Recertification per CNG-EP-1.01-1002; QATR)
1.2	Definitions	1-8	Revised definition for Personnel Accountability System to reflect use of Proximity Cards which replaced Key Cards. (CR-2011-001251). Added Plant Operations Review Committee (PORC). This replaced SORC, function remains the same. (Annual SEP Recertification per CNG-EP-1.01-1002; QATR)
1.2	Definitions	1-9	Deleted SRAB, Safety Review and Audit Board. It was replaced by NSRB, Nuclear Safety Review Board. (Annual SEP Recertification per CNG-EP-1.01-1002; QATR)
1.2	Definitions	1-10	Deleted SORC, Site Operations Review Committee. Committee was replaced by PORC, Plant Operations Review Committee. Name change only, function remains the same. (Annual SEP Recertification per CNG-EP-1.01-1002; QATR)
4.1	Classification System	4-1	Replaced generic recognition categories with NMP's actual EAL recognition categories to make SEP consistent with current EAL matrix (AI-2010-000651-002)
Figure 4.2	Sample Emergency Classification Guidelines	4-4	Revised 8.1.2, 8.1.3 and 8.1.6 to match current EAL wording. (AI-2010-000651-002)
5.1	Typical Nuclear Division/Station Organization	5-1	Updated title of GAP-POL-01. (Annual SEP Recertification per CNG-EP-1.01-1002). Replaced Chief Shift Operator (CSO) with Chief Reactor Operator (CRO). Title change only. (Annual SEP Recertification per CNG-EP-1.01-1002; GAP-OPS-01). Consolidated the descriptions of Radwaste Operator, Nuclear Operator E, Nuclear Auxiliary Operator B under the title of Control Room Operators. Maintains compliance with Table B-1 of NUREG 0654 and aligns with GAP-OPS-01. (Annual SEP Recertification per CNG-EP-1.01-1002)
5.2.2	Control Room Staff	5-5	Consolidated the descriptions of Radwaste Operator, Nuclear Operator E, Nuclear Auxiliary Operator C and Nuclear Auxiliary Operator B under the title of Control Room Operators. Maintains compliance with Table B-1 of NUREG 0654 and aligns with GAP-OPS-01. (Annual SEP Recertification per CNG-EP-1.01-1002). Replaced CSO with CRO Chief Reactor Operator. Title change only. This did result in re-lettering items on page. (Annual SEP Recertification per CNG-EP-1.01-1002; GAP-OPS-01)
5.3.4	Local Services Support	5-19	Replaced Niagara Mohawk with National Grid. Niagara Mohawk was bought by National Grid. (Annual SEP Recertification per CNG-EP-1.01-1002). Updated Constellation Energy Group to Constellation Energy Nuclear Group. New name of NMP owners. (Annual SEP Recertification per CNG-EP-1.01-1002)
5.4.1.a	State and Local Agencies	5-20	Revised this paragraph to indicate that NYSOEM and not NYSDOH is the lead agency for off-site coordination. Services provided are unchanged. Correction is per NYS Deputy Director OEM. (AI-2010-000651-003). Revised this paragraph to indicate that NYSOEM and not NYSDOH may notify OCEMO. (AI-2010-000651-003)
Figure 5.6	Offsite Interfaces (typical)	5-27	Revised NYSEMO to NYSOEM per NYS direction. They now call themselves the Office of Emergency Management (OEM). No change to their function. (AI-2010-000651-003). Revised typical agency relationship of NYSOEM to NYSDOH as NYSOEM is the lead agency per NYS Deputy Director OEM. (AI-2010-000651-003)
Table 5.1	Comparison of NUREG 0654 Staffing Requirements to Minimum NMP Shift Staffing	5-28	Revised CSO/CR E to CRO/RO's and AO's to NLO's to align with current position designators in GAP-OPS-01. Functions remain the same. (Annual SEP Recertification per CNG-EP-1.01-1002)
6.1	Initiation of Emergency Actions	6-1	Revised CSO to CRO to align with current position designators. (Annual SEP Recertification per CNG-EP-1.01-1002; GAP-OPS-01)



6.2.1	Offsite Notification and Followup Messages	6-2	Added a statement acknowledging a mutual agreement between NMP and NYS regarding the exclusion of event prognosis information from initial notification messages. This agreement had been in place but was not referenced in the SEP. (AI-2010-000651-004)
6.5.4.b	Dose Projection	6-11	Replaced TLD with OSLD. Same function, newer technology and OSLD will make the SEP consistent with S-ENVSP-4.5, Emergency Preparedness OSLD-Preparation, Collection and Analysis. (CR-2011-001252)
6.7.1.c 6.7.1.d	Exclusion Area Evacuation, Personnel Accountability	6-13	Replaced Niagara Mohawk with National Grid. Niagara Mohawk was bought by National Grid. (Annual SEP Recertification per CNG-EP-1.01-1002). The last paragraph has been revised to use Proximity Card Reader and Proximity card instead of ACAD and key cards. ACAD and key cards are old technology having been replaced by Proximity Card Readers and Proximity Cards (CR-2011-001251)
6.7.1.f	Exposure Control	6-15	Replaced TLD with OSLD. Same function but newer technology. (CR-2011-001252)
6.7.2.a	Protective Actions Within Oswego County	6-16	Added NYS OEM to first paragraph as both NYSEOM and NYSDOH play a part in offsite protective action decisions. (AI-2010-000651-003). Deleted SEMO (State Emergency Management Office) and added OEM (Office of Emergency Management (NYS)). New NYS naming. (AI-2010-000651-003)
Figure 6.2	Emergency Organization Interfaces (Initial Notification)	6-24	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Figure 6.3	Emergency Organization Interfaces (After Emergency Facilities Staffed)	6-25	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
7.3.3.b.2	Assessment Systems, Onsite Radiological Monitoring Systems	7-7	For Emergency Preparedness dosimeters, replace TLD with OSLD. OSLD is new technology by but the function remains the same as the TLD. Added reference to 10CFR20 program TLDs as requested by Principle Engineer Environmental (CR-2011-001252)
7.3.3.b.4	Assessment Systems, Offsite Radiological Monitoring Systems	7-8	Added OSLD to the description for consistency with description in 7.3.3.b.2 (CR-2011-001252)
7.4.4 7.6	Off-site Assembly Area Decontamination Facilities for Emergency Personnel	7-13	Replaced Niagara Mohawk with National Grid. Niagara Mohawk was bought by National Grid. (Annual SEP Recertification per CNG-EP-1.01-1002). Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
8.1.1	Training	8-1	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
8.1.1.h	Training	8-3	Added a statement to address Emergency Preparedness Department Staff training fleet procedure CNG-EP-1.01-1003. Rev 56 of the SEP did not contain a reference to the procedure for staff training. (Annual SEP Recertification per CNG-EP-1.01-1002)
9.4.1.1.a	Plant General Mgr	9-4	Revised SORC to PORC and the PGM involvement in PORC. PGM not part of the committee but has oversight of the committee and is approval authority in the event of disagreement. (Annual SEP Recertification per CNG-EP-1.01-1002; QATR)
9.4.1.1.d	Manager Integrated Work Management	9-5	Revised Manager Work Control and Outage Management to Manager Integrated Work Management. Title change only. (Annual SEP Recertification per CNG-EP-1.01-1002)
9.4.1.2.c 9.4.1.2.d	Director Finance and Business Operations Director Quality and Performance Assessment	9-5	Revised Director Business Planning, Budgeting and Cost Control to Director Finance and Business Operations. Title change only. (Annual SEP Recertification per CNG-EP-1.01-1002). Revised Manager Quality and Performance Assessment to Director Quality and Performance Assessment. Title change only. (Annual SEP Recertification per CNG-EP-1.01-1002)
Figure 9.1	Emergency Response / Recovery Organization	9-7	Revised titles for Manager Maintenance, Manager Integrated Work Management, Director Quality Performance and Assessment, Director Finance and Business Operations and Sr. Analyst Corporate Communications. Title changes only. Deleted reference to NUCAPR. No longer a used acronym. Services are provided or obtained through the Sr. Analyst Communications. (Annual SEP Recertification per CNG-EP-1.01-1002). Revised SORC, Site Operations Review Committee to PORC, Plant Operations Review Committee, name change only. (Annual SEP Recertification per CNG-EP-1.01-1002; QATR). Revised Safety Review and Audit Board to Nuclear Safety Review Board. Function regarding SEP remains the same. (Annual SEP Recertification per CNG-EP-1.01-1002; QATR)
Appendix A	Letters of Agreement	A-2	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix A	Letters of Agreement	A-3	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250). Updated Constellation Energy Group to Constellation Energy Nuclear Group with formation of new LLC. (Annual SEP Recertification per CNG-EP-1.01-1002)
Appendix D	Equipment Information	D-1	Added a reference to EPMP-EPP-13, Equipment Important to EP. Newer procedure that seemed appropriate for reference in this appendix. (Annual SEP Recertification per CNG-EP-1.01-1002)
Appendix E	Oswego County/New York State Radiological Emergency Preparedness Plan	E-1	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)

Appendix F	Evacuation Time Estimates	F-1	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix G A.1.c, B.7	Cross Reference Index NMPNS E-Plan and NUREG 0654	G-2	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix G C.1.a, C.2.b, C.4, D.1	Cross Reference Index NMPNS E-Plan and NUREG 0654	G-3	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix G E.1, E.6, E.7, F.1.a, F.1.d, F.1.e	Cross Reference Index NMPNS E-Plan and NUREG 0654	G-4	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix G G.4.a, G.4.b, G.4.c	Cross Reference Index NMPNS E-Plan and NUREG 0654	G-5	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix G I.1	Cross Reference Index NMPNS E-Plan and NUREG 0654	G-6	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix G J.1.a, J.1.b, J.1.c, J.1.d, J.2, J.4, J.5, J.6.a	Cross Reference Index NMPNS E-Plan and NUREG 0654	G-7	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix G J.6.b, J.6.c, J.8, J.10.c	Cross Reference Index NMPNS E-Plan and NUREG 0654	G-8	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix G K.1.a, K.1.b, K.1.c, K.1.d, K.1.e, K.1.f, K.1.g, K.2, K.3.a, K.3.b, K.5.a	Cross Reference Index NMPNS E-Plan and NUREG 0654	G-9	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix G K.6.a, K.6.b, K.6.c, L.4, M.2	Cross Reference Index NMPNS E-Plan and NUREG 0654	G-10	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix G P.1, P.5, P.9	Cross Reference Index NMPNS E-Plan and NUREG 0654	G-13	Amended applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
Appendix H, 1. Airfields	Typical Additional Support Resources	H-2	Updated information for airfields listed. Some information was outdated. (Annual SEP Recertification per CNG-EP-1.01-1002)
Appendix H, 3. Telephone Systems in 10 Mile EPZ	Typical Additional Support Resources	H-3	Updated information for telephone systems. Some information was outdated. (Annual SEP Recertification per CNG-EP-1.01-1002)
Appendix J	Resource Material	J-1	Corrected applicable NUREG 0654 references. A validation of the SEP to applicable NUREG 0654 references was completed. (2010 50.54(t) Audit, CR-2011-001250)
<b>ADDENDUM TO LDCR S-11-SEP-001R00 INCORPORATION OF PORC COMMENTS</b>			
1.2	Definitions	1-4	Deleted the "s" on the word Stations.
1.2	Definitions	1-8	Deleted Technical Specifications and inserted QATR. The SORC/PORC function was removed from Technical Specifications and resides in the QATR. The oversight function with respect to the SEP remains.
5.1	Typical Nuclear Division / Station Organization	5-1	Added to Control Room Operators the clarifying information (min. of one RO). Added to clarify alignment to GAP-OPS-01
Figure 6.3	Emergency Organization Interfaces (After Emergency Facilities Staffed)	6-25	Revised NRC Region 1 to NRC Region I (Roman numeral)
7.3.3.b.2 7.7.7.b.4	Assessment Systems, Onsite Radiological Monitoring Systems	7-7	Changed TLD to TLD's, Changed describe to described

**SUMMARY OF CHANGES INCORPORATED IN REVISION 58**  
**LDCR-12-SEP-001R00**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
NA	Cover page	NA	Revised revision number to 58 and revised PGM name to M. Philippon
NA	List of Effective Pages	i, ii, iii,	Revised effected pages to revision 58.
NA	List of Effective Pages	i	New page number added to Section 4
NA	List of Effective Pages	ii	New page number added to Section 6
NA	Table of Contents	xli to xlvi	Added the summary of changes associated with Revision 58. The insertion of the pages changed the page location for the Table of Contents. In those cases the pages were revised to indicate the new revision number.
NA	Table of Contents	xli	Due to information added to Section 4, a page was added and the Table of Contents revised.
NA	Table of Contents	xliv	Due to information added to Section 6, a page was added and the Table of Contents revised.
NA	Table of Contents	xliv	Due to information added to Section 7, page numbers for various sections changed.
NA	Table of Contents	xlvi	Due to information added to Section 8, page numbers for various sections changed.
1.1	Acronyms	1-1	Added ISFSI, Independent Spent Fuel Storage Installation. Term is new to the Site Emergency Plan due to new ISFSI project.
1.1	Acronyms	1-2	Added QATR, Quality Assurance Topical Report. Term is used in the body of the Site Emergency Plan and was not in Acronym list.
1.2	Definitions	1-3	Revised definition for Access Control Points to match current locations.
1.2	Definitions	1-4	The last two definitions were moved from page 1-5
1.2	Definitions	1-5	The last two definitions were moved from page 1-6
1.2	Definitions	1-5	Revised definition of Emergency Director/Recovery Manager, Station Shift Supervisor was replaced by Shift Manager
1.2	Definitions	1-5	Consolidated the definitions of "Emergency Plan Implementing Procedures" and Emergency Plan Implementing Procedures (EPIP-EPPs) into one definition.
1.2	Definitions	1-6	Added definition for Independent Spent Fuel Storage Installation (ISFSI) which is new to the site.

1.2	Definitions	1-7	Haz Materials definition was moved to page 1-6
1.2	Definitions	1-9	Added the definition of what constitutes the separate safety analysis report specific to the ISFSI. Includes the regulatory compliance for the installation.
1.2	Definitions	1-10	Added definition for Shift Manager/Emergency Director, not previously defined
1.2	Definitions	1-10	Added definition for Station, not previously defined
1.2	Definitions	1-10	Moved definition for SPDS and Security Contingency Event to page 1-10 from page 1-9
4.0	Emergency Conditions	NA	Due to the additional information added, various information is now located on a different page than it was in the previous revision. In those cases the pages were revised to indicate the new revision number. The section increased from 4 pages to 5 pages.
4.1	Classification System	4-1	Added detail to ensure clarity on commitment to classify and declare the emergency within 15 minutes from the time that indications area available to plant operators that an EAL has been exceeded (EP Rule Making)
4.1	Classification System	4-2	Continuation from previous page (EP Rule Making)
4.2	Spectrum of Postulated Accidents	4-3	Added a postulated accident section for the ISFSI and applicable reference to the Sections of the ISFSI UFSAR.
5.0	Organization Control of Emergencies	NA	Due to the additional information added, various information is now located on a different page than it was in the previous revision. In those cases the pages were revised to indicate the new revision number.
5.1	Typical Nuclear Division / Station Organization	5-1	Revised the description of the minimum shift staffing to delete Chief Reactor Operator for Control Room Operator. Title change aligns E-Plan and GAP-OPS-01
5.2	On-Site Emergency Response Organization	5-2	Change Section 5.2 where it states” If an affected Unit declares an Alert or higher emergency classification, the emergency organization for that unit staffs in accordance with established procedures.....”(EP Rule Making)
5.2	On-Site Emergency Response Organization	5-3	Revised reference of Constellation Energy Group to Constellation Energy Nuclear Group
5.2.2	Control Room Staff	5-4	Corrected reference to licensed senior operator to licensed Senior Reactor Operator
5.2.2.f	Control Room Operator	5-5	Revised description of Control Room Operator to align with GAP-OPS-01.
5.2.2.g	Chief Reactor Operator	5-5	Deleted the description of Chief Reactor Operator. Per GAP-OPS-01 the position no longer exists and references to or duties assigned to Chief Reactor Operator may be performed by any qualified licensed reactor operator (RO). The initials CRO now refer to Control Room Operator which is any qualified licensed reactor operator assigned to control room duties.
5.2.2.h	Operators in Training	5-5	Deleted the description of Operators in Training to align with GAP-OPS-01. This is not a used title anymore.

5.2.2.g, h	Fire Brigade, Security	5-5	Due to deletion of descriptions for Chief Reactor Operator and Operators in Training, the titles of Fire Brigade and Security were re-lettered
5.2.3.1	TSC Manager	5-6	Deleted "A general manager or manager is the typical designee for the TSCM position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.3.2	Technical Data Coordinator	5-6	Deleted "A Supervisor of Engineering Services or Principle Engineer is the typical designee for the Technical Data Coordinator." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.3.3	Radiological Assessment Manager	5-7	Deleted "A Manager or Supervisor Radiation Protection is the typical designee for the Radiological Assessment Manager." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.3.4	Security Liaison	5-8	Deleted "A Nuclear Security management staff member is the typical designee for the Security Liaison." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.3.5	Maintenance Coordinator	5-8	Deleted "A General Supervisor of Maintenance is the typical designee for the Maintenance Coordinator." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.3.6	Nuclear Engineering Department(NED) Coordinator and Staff	5-8	Deleted "A Supervisor of Engineering Services or Principle Engineer is the typical designee for the NED Coordinator." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.3.7	Reactor Analyst Coordinator	5-9	Deleted "A Supervisor Reactor Engineering or Generation Engineer is the typical designee for the Reactor Analyst Coordinator position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position. Also revised the position title to Reactor Analyst for consistency within the SEP
5.2.4.1	Operations Support Center Coordinator	5-9	Deleted "Work Control/Outage Management General Supervisors or Supervisors are the typical designees for the OSC Coordinator position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.4.2	Operations Support Center Communicator	5-9	Deleted "A Maintenance Department Generation Specialist is the typical designee for the OSC Communicator." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.4.3	Personnel Accountability Coordinator	5-10	Deleted "A Security management is the typical designee for the Personnel Accountability Coordinator." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.4.4	Radiation Protection Team Coordinator	5-10	Deleted "A Supervisor Radiation Protection is the typical designee for the Radiation Protection Team Coordinator." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.4.5	Damage Control Team Coordinator	5-10	Deleted "A Maintenance Supervisor is the typical designee for the Damage Control Team Coordinator." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.

5.2.4.6	Security Tactical Operations Center (STOC) Coordinator	5-11	Deleted "A Security management member is the typical designee for this position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.5	Emergency Operations Facility Staff	5-11	Second paragraph, middle, "EOF staffing is" changed to " EOF positions are"(grammar); corrected typo in last sentence, "trained" to "training"(EP Rule Making)
5.2.5.1	Emergency Director / Recovery Manager	5-12	Deleted "A senior station manager may be the typical designee for the ED/RM position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.5.1	Emergency Director / Recovery Manager	5-12	Revised "Constellation Energy Group" to "Constellation Energy Nuclear Group". Title of LLC has changed.
5.2.5.2	Technical Liaison Advisory Manager	5-12	Deleted "A GS of Engineering Services is the typical designee for the Technical Liaison Advisory Manger." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position. Revised several references of Constellation Energy to Constellation Energy Nuclear Group.
5.2.5.3	Administrative/Logistics Manager	5-13	Deleted "A management employee from one of the station support departments is the typical designee for the ALM". As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.5.3	Administrative/Logistics Manager	5-13	Revised "NMPNS/CE to NMPNS/CENG", Title of LLC has changed.
5.2.5.4	EOF Administrator	5-13	Deleted "A GS or Supervisor Training is the typical designee for the EOF Administrator". As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.5.4.a	Technical Staff	5-14	Deleted "Instructors from the Nuclear Learning Center are the typical designees for these positions." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.5.4.b	Liaisons	5-14	Deleted "Personnel with unit specific technical knowledge are the typical designees for liaisons. As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.5.4.c	EOF Communicator	5-14	Added position description. This is a normally staffed EOF position that was not described in the Emergency Plan (EP Rule Making)
5.2.5.4.d	Plant Information Coordinator	5-14	Added position description. This is a normally staffed EOF position that was not described in the Emergency Plan (EP Rule Making)
5.2.5.5	Offsite Dose Assessment Manager	5-14	Deleted "An individual from the Radiation Protection Management is the typical designee for the ODAM position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.5.5.a	Environmental Survey / Sample Team Coordinator	5-14	Deleted "A Principle Engineer (Environmental) or Environmental Engineer is the typical designee for this position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.

5.2.5.5.b	Dose Assessment Staff	5-14	Deleted "Personnel familiar with site chemistry and or health physics are the typical designees for the dose assessment staff." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.5.5.c	Radiation Protection Technician	5-14	Added position description. This is a normally staffed EOF position that was not described in the Emergency Plan (EP Rule Making)
5.2.5.6	Communications Coordinator	5-14	Deleted "A member of the Quality and Performance Assessment Department is the typical designee for the Communication Coordinator position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.6.1	Joint Information Center Director	5-15	Deleted "The Manager or a staff member of the NMP Nuclear Communications and Public Relations group is the typical designee for the JIC Director." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.6.1.a	JIC Spokesperson	5-15	Deleted "Station management personnel are the typical designees for this position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.6.1.b	Technical Briefer	5-15	Deleted "Instructors from the Nuclear Learning Center are the typical designees for this position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.6.1.c	JIC Administrative Manager	5-16	Deleted "Supervisory personnel from various station departments are the typical designees for this position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.6.1.d	JIC Writers	5-16	Deleted "Nuclear Licensing personnel are the typical designees for these positions." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position. Revised the position title to JIC Press Release Writer for consistency within the SEP
5.2.6.1.e	Rumor Control Coordinator	5-16	Deleted "Supervisory personnel from various station departments are the typical designees for this position." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.6.1.f	Media Response Staff	5-16	Deleted "Corporate support staff personnel whose assigned work location is NMP are the typical designees for these positions." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
5.2.6.1.g	Rumor Control Staff	5-16	Deleted "Corporate support staff personnel whose assigned work location is NMP are the typical designees for these positions." As with any ERO position, the individual is selected based on the position functional description, trained and qualified to perform their assigned position.
Figure 5.1	On-Shift Staffing (Typical)	5-22	Revised titles for consistency with GAP-OPS-01 and SEP section 5.2.2 Control Room Staff
Figure 5.1	On-Shift Staffing (Typical)	5-22	Removed footnote (C) from Communications Aide block and from bottom of page. Aligns figure with Section 5.2.2

Figure 5.2	EOF Staffing (typical)	5-23	Revised title of Offsite Dose Assessment Advisor to Offsite Dose Assessment Manager and Tech Assistants to Tech Staff to be consistent within the SEP
Figure 5.2	EOF Staffing (typical)	5-23	Added normally staffed positions of Radiation Protection Technician, EOF Communicator and Plant Information Coordinator. Aligns with SEP Section 5.2.5 (EP Rule Making)
Figure 5.3	TSC Staffing (typical)	5-24	Revised title of Reactor Analyst and NED for consistency within the SEP
Figure 5.5	JIC Staffing (typical)	5-26	Revised title of JIC Press Release Writer and added position block for Rumor Control Coordinator for consistency within SEP Section 5.2.6
6.0	Emergency Measures	NA	Due to the additional information added, various information is now located on a different page than it was in the previous revision. In those cases the pages were revised to indicate the new revision number. Also added page 6-25
6.1	Initiation of Emergency Actions	6-1	Added detail regarding the source of information leading to emergency actions and regarding the classification and declaration of an emergency within 15 minutes of the indications of an EAL being exceeded (EP Rule Making). Revise first paragraph to remove reference to Chief Reactor Operator (CRO) in favor of Control Room Operator (CRO) to align with GAP-OPS-01. Removed the words "typically a Senior Manager" when describing the ED/RM to be consistent with other plan changes
6.1	Initiation of Emergency Actions	6-1	Revised first paragraph to remove reference to Chief Reactor Operator (CRO) in favor of Control Room Operator (CRO) to align with earlier sections of the SEP
6.1	Initiation of Emergency Actions	6-1	Removed the words "typically a Senior Manager" when describing the ED/RM to be consistent with SEP Section 5.2.5.1
6.5.1.b	Actual Source Term Determination	6-9	Add grab sample as a method for determination of actual release rates
6.7.1	Onsite Protective Actions	6-11	Added detail for the range of protective actions provided by emergency implementing procedures and as specified in the Site Security Plan (generic descriptors) (EP Rule Making)
6.7.1	Onsite Protective Actions	6-12	Added detail for the range of protective actions provided by emergency implementing procedures and as specified in the Site Security Plan (generic descriptors) (EP Rule Making)
Figure 6.2	Emergency Organization Interfaces	6-24	Revised to remove Community Alert Network (CAN ) and replace with Emergency Response Organization Notification System
7.0	Emergency Facilities and Equipment	NA	Due to the additional information added, various information is now located on a different page than it was in the previous revision. In those cases the pages were revised to indicate the new revision number.
7.1.4	Emergency Operations Facility (EOF)	7-2	Revised description of EOF to include Co-located licensee operation and addition of the facility functions and capabilities. The additional detail comes from the latest revision to NUREG 0696. Deleted the second paragraph as it is redundant to the JIC description(EP Rule Making)
7.3.3.h	The Meteorological / Dose Assessment Computer Program (EDAMS)	7-11	Revised the title to remove the ( ) around EDAMS. We are not defining an acronym in this situation.



8.0	Maintaining Emergency Preparedness	NA	Due to the additional information added, various information is now located on a different page than it was in the previous revision. In those cases the pages were revised to indicate the new revision number.
8.1.1.d	Training	8-2	Revised NYS Emergency Management Office to NYS Office of Emergency Management. Title change made by NYS
8.1.2	Exercise and Drills	8-4	Revised Supervisor Operations Fire Protection to Fire Marshal as this is the current title.
8.1.2	Exercise and Drills	8-5	Adding detail regarding the conductance of EOF activation drills, the spectrum of radiological and hostile action drills, rapid escalation, severe accident management, 10CRR50.54(hh)(2) Large Area Loss scenarios, integration of offsite resources and events simultaneously involving NMP as well as JAF.(EP Rule making)
Appendix C	Emergency Plan Implementing Procedures	C-9	Correct typo, procedure name had incorrectly started with Unit 1 instead of Unit 2.

**SUMMARY OF CHANGES INCORPORATED IN REVISION 59  
LDCR-12-SEP-002-00**

Section	Section Name	Page #	Change
NA	Coversheet, List of Effective Pages, Summary of Change, Table of Contents	Cover page, i, ii, iii, xl through xlii	Revised due to change in revision number, added summary of changes for revision 59 of the SEP and extra space for future revisions which moved table of contents pagination by three pages.
2.0	SCOPE AND APPLICABILITY	2-2	Added option to provide adequate resources to begin planning mitigative actions. Ref. NRC Rulemaking for ERO Augmentation and Alternative Facilities.
5.1	Typical Nuclear Division / Station Organization	5-1	Provides information that a detailed analysis of on-shift responsibilities is provided in Appendix K.
5.2	On-Site Emergency Response Organization	5-2	Provides information that a detailed analysis of on-shift responsibilities is provided in Appendix K.
5.2.3.4	Security Liaison	5-8	EP Rule Making: Clarified Security Liaison responsibility for ensuring prompt access is available for ORO Responders.
5.2.6.1	Joint Information Center Director (JIC Director)	5-15	EP Rule Making: Added statement that during a HAB Event that JIC Director and ED/RM coordinate all outgoing information with Site Security and law enforcement agencies.
5.3	Augmentation of the On-Site Emergency Response Organization	5-18	EP Rule-Making: Added verbiage to ensure that logistics for prompt access for On-Site ERO is accomplished in accordance with both the Emergency Plan and Site Security.
6.2.3	On-Site Notification and Organization	6-3	Removed Pagers as a method of notification for persons in the ERO and re-numbered next entry from 3 to 2.
6.7.1.f	Exposure Control	6-14 and 6-15	Reorganized the wording in this section by moving a sentence and the emergency dose limit chart to a different location within this section. No information changed, just the order in which the information appears.
6.7.1.f	Exposure Control	6-15	EP Rule-Making: Added a statement that EPIP-EPP-15 provides for the capacity for just-in-time authorization or emergency exposures.

6.7.2.b	Oswego County Prompt Notification System	6-17	EP Rulemaking – Changed backup notification from Mobile public address to Reverse calling system as approved by FEMA in a letter dated December 5, 2012.
6.7.2.c	Protective Action Guides and Recommendation of Protective Action Recommendations	6-17	Added the acronym PAR for the words protective action recommendation and information on review of PARs
Figure 6.2	Emergency Organization Interfaces (Initial Notification)	6-24	Reformatted – Changed font size and centering
7.2.7	Radio Systems	7-6	Changed telephone activated pager system to telephone activated notification system. Pagers are no longer part of the ERO notification system.
8.1.1.f	Training	8-2	EP Rule-Making: Delineated that local organizations, that may provide onsite emergency assistance should become familiar with site access arrangements and procedures.
8.1.1.f.1	Training	8-2	EP Rule-Making: Delineated that training provided to local fire, local law enforcement and ambulance companies may include arrangements and procedures for site access.
8.1.2	Exercises and Drills	8-4	EP Rule-Making: Provided verbiage that: <ol style="list-style-type: none"> <li>1) Stated that Exercise scenarios provide the ERO with the opportunity to demonstrate proficiency in key skills</li> <li>2) Provide a listing of the functional areas included in an Exercise scenario.</li> <li>3) Stated that the NRC may require a remedial exercise if they cannot find that the ERO has maintained the key skills specific to emergency response</li> <li>4) Expanded on the formal critique following the completion of a drill</li> <li>5) Stated that weaknesses or deficiencies indentified in critiques are corrected and tracked through the Corrective Action Program.</li> </ol> Stated that scenarios emphasize coordination among onsite and offsite organizations.
8.1.2	Exercises and Drills	8-5	NRC Rule Making – stated that scenarios will emphasize coordination among onsite and offsite organizations as appropriate
Figure 8.2	Initial Training and Periodic Retraining	8-10, 8-11	EP Rule-Making: Added the following verbiage to the descriptions of the Initial Training for EDs; ERF Coordinators; Personnel responsible for accident assessment and/or accident management; Radiological Monitoring/Analysis personnel, Fire response, First aid/Rescue/Medical Support; Security Personnel/Local Law Enforcement Officials; and Communication Personnel. The verbiage added is that the training includes Incident Command System concepts, position titles and terminology.
Section 10	Appendices	10-1	Added line for On Shift Staffing Analysis, Appendix K
Appendix A	Letters of Agreement	A-2	Deleted the name of one MD, and replaced it with the name of another. The reason for this is that the new individual has replaced the previous.
Appendix C	Emergency Plan Implementing Procedures	C-8	Changed title of ERO notification system to be generic since we no longer use pagers at NMP.

Appendix K	On-Shift Staffing Analysis Report	K-1	NRC Rulemaking - Added reference to the new On-Shift Staffing Analysis Report
<b>SUMMARY OF CHANGES INCORPORATED IN REVISION 60 LDCR-13-JUN-001-00</b>			
<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
Appendix F	Evacuation Time Estimates	F-1	Revised the reference to the new approved ETEs to the November 2012 Final ETEs approved by FEMA in April 2013.
<b>SUMMARY OF CHANGES INCORPORATED IN REVISION 61 LDCR-13-SEP-00200</b>			
<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
Section 1	Acronyms and Definitions	1	Changed ED/RM to Emergency Director
Section 1	Acronyms and Definitions	5	Removed definition of Emergency Director / Recovery Manager
Section 1	Acronyms and Definitions	5	Added "CNG-EP-1.01-xxxx" to possible EPIPs
Section 1	Acronyms and Definitions	6-7	Changed "Exclusion Area Evacuation" to "Owner Controlled Area Evacuation"
Section 1	Acronyms and Definitions	5	Changed references to ED/RM to ED
Section 2	Scope and Applicability	1	Added "Shift Manager for the" to 1st bullet for events common to both units.
Section 2	Scope and Applicability	1	Added "CNG-EP-1.01-xxxx" to possible EPIPs
Section 5	Organization Control of Emergencies	1-20 23-30	Changed description of Emergency Response Organization to implement the Fleet Standard ERO (details below)
Section 5.2	Organization Control of Emergencies	5-2	<ul style="list-style-type: none"> <li>• Changed "All emergency facilities will be staffed within 60 minutes." to "All emergency facilities will have minimum staffing within 60 minutes. Minimum staff positions are defined in Table 5.1."</li> <li>• ERO position titles and responsibilities moved to section 5.6</li> </ul>
Section 5.3	Authority Over the Emergency Response Organization		<p>New section.</p> <p>The old section (Augmentation of the On-Site Emergency Response Organization) was moved as follows:</p> <ul style="list-style-type: none"> <li>• Old section 5.3.1 moved to new section 5.2</li> <li>• Old section 5.3.2 moved to new section 5.9.b</li> <li>• Old section 5.3.3 moved to new section 9.4.2</li> <li>• Old section 5.3.4 moved to new section 5.10</li> <li>• Old section 5.3.5 moved to new section 5.9.a</li> </ul>

Section 5.4	Criteria for Assuming Command and Control (Succession)		New section.  The old section (Coordination with Participating Government Agencies) has been moved as follows: <ul style="list-style-type: none"> <li>• Old section 5.4.1 moved to new section 5.11.2</li> <li>• Old section 5.4.2 moved to new section 5.11.1</li> </ul>
Section 5.5	Non-delegable Responsibilities		New section.
Section 5.6	Emergency Response Organization Positional Responsibilities	5-18	New section. Much of old section 5.2 was moved here. In addition, revised the following for the onsite ERO: (a) most position titles (b) all position responsibilities.
Section 5.7	Emergency Response Organization Block Diagram		New section
Section 5.8	Corporate Emergency Response Organization	18	New section
Section 5.9	Industry/Private Support Organization		New section. Some of old section 5.3 was moved here.
Section 5.10	Supplemental Emergency Assistance to the ERO	20	New section. Some of old section 5.3.4 was moved here.
Section 5.11	Coordination with Participating Government Agencies	20	New section. Old section 5.4 was moved here.
Figure 5.1	Minimum Staffing Requirements for the ERO	23-26	Replaced old Table 5.1, Comparison of NUREG 0654 Staffing Requirements . The new Figure revises ERO position titles, reporting commitments and staffing numbers.  Old Figure 5.1, On-Shift Staffing (Typical) which was moved to Appendix K, On-Shift Staffing Analysis Report.
Figure 5.2	ERO Management Structure	27	New Figure  Old figure (EOF Staffing) was moved to new Figure 5.5
Figure 5.3	TSC Staffing	28	Revised old Figure 5.3, TSC Staffing (Typical)
Figure 5.4	OSC Staffing	29	Revised old Figure 5.4 OSC Staffing (Typical)
Figure 5.5	EOF Staffing	30	Replaced old Figure 5.2, EOF Staffing (Typical)
Figure 5.6	JIC Staffing	31	<ul style="list-style-type: none"> <li>• Replaced old Figure 5.5, JIC Staffing (Typical)</li> <li>• Old Figure 5.6 (Offsite Interfaces) deleted</li> </ul>
Table 5.1	Comparison of NUREG 0654 Staffing Requirements to Minimum NMP Shift Staffing		Old Table 5.1 was deleted and replaced by the new Figure 5.1

Section 6	Activation of the Emergency Organization	all	<ul style="list-style-type: none"> <li>• Changed titles to match new ERO</li> <li>• Changed references to new procedures</li> <li>• Nomenclature change: Exclusion Area to Owner Controlled Area</li> </ul>
Section 6.7.1.d	Personnel Accountability	14	Clarification of when the 30-minute accountability clock begins
Section 9	Recovery	1-3 7	<ul style="list-style-type: none"> <li>• Changed wording to reflect standard Recovery Organization</li> <li>• Changed references to new procedures</li> </ul>
Appendix C	Emergency Plan Implementing Procedures	All	Changed references to new procedures
Appendix G	NUREG 0654 / FEMA REP 1 cross reference index	All	Corrected referenced sections of the Site Emergency Plan due to Rev 61 changes.

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LDCR-14-SEP-00100**

Section	Section Name	Page #	Change
i	LIST OF EFFECTIVE PAGES	i , ii , xlv	Updated revision numbers for document changes
5	ORGANIZATION CONTROL OF EMERGENCIES	All	Re-numbered section to start from 5-1 as opposed to 5-6.
5	ORGANIZATION CONTROL OF EMERGENCIES	20, 22	Added "including a Hostile Action Based event" to 5.10 and 5.11.2 and corrected statement in section 5.10 which referred to Section L to be Appendix A.
6	EMERGENCY MEASURES	19	Added Hostile Action Based event to descriptions in 6.8.3 and 6.8.4.
8	MAINTAINING EMERGENCY PREPAREDNESS	11	Removed words "9. ERO Staff" from bottom of Figure 8-2 (cont).

**SUMMARY OF CHANGES INCORPORATED IN REVISION 63  
LDCR-14-SEP-00200**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
All	Entire Document	All	Updated revision numbers in entire document to reflect current revision of plan. Replaced CENG with Exelon Replaced Director Emergency Preparedness with Site Emergency Preparedness Manager
1.1	Acronyms	1-1	Deleted Acronym for EDAMS
1.2	Definitions	1-7	Changed definition for Offsite Assembly Area from National Grid Service Center to Oswego County Airport Deleted definition for Oswego County Emergency Identification Cards
6.5	Dose Assessment and Techniques	6-9	Deleted reference to EDAMS
6.5.2	Offsite Radiological Dose Assessment Process	6-9 6-10	Removed paragraphs referencing EDAMS and updated to incorporate description of URI/RASCAL process
6.5.3	Onsite Dose Assessment and Protective Actions	6-10	Renumbered from old 6.5.2.b
6.5.4	Environmental Measurements	6-10	Renumbered from old 6.5.3
6.5.5	Dose Projection	6-11	Renumbered from old 6.5.4
6.5.5.a	Dose Projection	6-11	Deleted old 6.5.5.a, removing reference to EDAMS. Renumbered old 6.5.5.b to new 6.5.5.a
6.7.1.c	Owner Controlled Area (OCA) Evacuation	6-13	Changed definition for Offsite Assembly Area from National Grid Service Center to Oswego County Airport
6.7.2.c	Protective Action Guides and Recommendation of Protective Action Recommendations	6-17 6-18	Provided detail aligning with NUREG-0654/FEMA-REP-1, Rev 1, Supplement 3
7.1.7	Alternative Facility	7-3	Incorporated requirements of 10 CFR 50 Appendix E for Alternative Facility
7.1.8	Oswego County Emergency Operations Center	7-3	Former section 7.1.7. Renumbered to incorporate new section 7.1.7
7.1.9	State Emergency Operations Center	7-3	Former section 7.1.8. Renumbered to incorporate new section 7.1.7
7.3.2	Offsite Assessment Facility	7-7	Removed reference to the JAFNPP Chemistry Lab
7.3.3.h	The Meteorological/Dose Assessment Computer Program - EDAMS	7-12	Deleted section to remove references to EDAMS

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LDCR-14-SEP-00200**

<b>Section</b>	<b>Section Name</b>	<b>Page #</b>	<b>Change</b>
7.4.4	Off-site Assembly Area	7-13	Removed reference to Howard Road as Off-site Assembly area and updated to Oswego County Airport
Figure 8.1	Site Emergency Preparedness Department	8-9	Updated figure to reflect new titles
Appendix A	Letters of Agreement	A-3	Changed Letter of Agreement (11) from National Grid to Oswego County Airport
Appendix C	Emergency Plan Implementing Procedures	C-3 C-4 C-4 C-4 C-4 C-5 C-5	Deleted reference to CNG-EP-1.01-1016 Added EPIP-EPP-10 Deleted EPIP-EPP-11 Deleted EPIP-EPP-24 Deleted EPMP-EPP-03 Deleted EPMP-EPP-11 Added CNG-TR-1.01-1031
Appendix J	Emergency Operations Facility	J-2	Updated floor plan layout to reflect new Alternative TSC/OSC

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## 1.0 ACRONYMS AND DEFINITIONS

### 1.1 ACRONYMS

This section contains the acronyms of terms that are used in a special context in this plan and/or are unique to Nine Mile Point Nuclear Station (NMPNS).

- o ALARA - As Low As Reasonably Achievable
- o ARM - Area Radiation Monitor
- o CDE<sub>T</sub> - Committed Dose Equivalent - Thyroid (Child)
- o CRS - Control Room Supervisor
- o CWP - County Warning Point
- o DOE - U.S. Department of Energy
- o EAL - Emergency Action Level
- o EAS - Emergency Alert System
- o ED - Emergency Director
- o EDE - Effective Dose Equivalent
- o ED- Emergency Director
- o ENS - Emergency Notification System
- o EOC - Emergency Operations Center
- o EOF - Emergency Operations Facility
- o EPA - U.S. Environmental Protection Agency
- o EPIP - Emergency Plan Implementing Procedure
- o EPMP - Emergency Plan Maintenance Procedure
- o EPZ - Emergency Planning Zone
- o ERF - Emergency Response Facilities
- o ETE - Evacuation Time Estimate
- o FRMAP - Federal Radiological Monitoring and Assessment Plan
- o FSAR - Final Safety Analysis Report
- o ISFSI - Independent Spent Fuel Storage Installation
- o JAFNPP - James A. Fitzpatrick Nuclear Power Plant
- o JIC - Joint Information Center

- o KI - Potassium Iodide
- o LCO - Limiting Condition for Operation
- o MMS - Meteorological Monitoring System
- o NED - Nuclear Engineering Department
- o NMPNS - Nine Mile Point Nuclear Station
- o NRC - U.S. Nuclear Regulatory Commission
- o NSRB - Nuclear Safety Review Board
- o NSSS - Nuclear Steam Supply System
- o NWS - National Weather Service
- o NYSDOH - New York State Department of Health
- o OCEMO - Oswego County Emergency Management Office
- o OCEOC - Oswego County Emergency Operations Center
- o ODAM - NMPNS Offsite Dose Assessment Manager
- o OEM - Office of Emergency Management (New York State)
- o OSC - Operations Support Center
- o OSLD - Optically Stimulated Luminescent Dosimeter
- o PAG - Protective Action Guide
- o PAR - Protective Action Recommendation
- o PNS - The Oswego County Prompt Notification System
- o PORC - Plant Operations Review Committee
- o QATR - Quality Assurance Topical Report
- o RAM - NMPNS Radiological Assessment Manager
- o RECS - Radiological Emergency Communications System
- o RO - Reactor Operator
- o SEP - NMPNS Site Emergency Plan
- o SEOC - State Emergency Operations Center
- o SM – Shift Manager
- o SOP - Special Operating Procedure
- o SRD - Self-Reading Dosimeters

- o SRO - Senior Reactor Operators
- o STA - Shift Technical Advisor
- o STOC - Security Tactical Operations Center
- o SUNY - State University of New York
- o SWP - State Warning Point
- o TEDE - Total Effective Dose Equivalent
- o TIBL - Thermal Internal Boundary Layer
- o TLD - Thermoluminescent Dosimeter
- o TSC - Technical Support Center
- o TSCM - TSC Manager
- o USAR - Updated Safety Analysis Report
- o WSFO - Weather Service Forecasting Office

## 1.2 DEFINITIONS

This section contains the definitions of terms that are used in a special context in this plan and/or are unique to Nine Mile Point Nuclear Station (NMPNS).

- o ACCESS CONTROL POINTS - Checkpoints for incoming traffic to be stopped and identification verified. These points are established by Nuclear Security at the Alert, or higher emergency classification, or as directed by the Emergency Director. The Access Control Points are pre-designated at two locations:
  - Owner Controlled Area (OCA) Checkpoint, Lake Road
  - NMP/Fitzpatrick Property Line, Lake Road
- o AFFECTED UNIT - The affected unit is NMPNS Unit 1 and/or Unit 2 whichever has declared an emergency.
- o ALTERNATE STATE WARNING POINT - The Alternate SWP is located in the N.Y. State Police Communications Center in the Public Security Building, State Office Building Campus, Albany, N.Y. This facility is manned 24 hours per day and could perform the same functions as the State Warning Point (see State Warning Point).
- o AREA RADIATION MONITOR (ARM) - A fixed instrument which typically measures gross gamma radiation levels in a local area and alarms when the radiation exposure rate reaches the preset alarm level.



- o ASSESSMENT ACTIONS - Those actions taken during or after an accident to obtain and process information that is necessary to make decisions to implement specific emergency measures.
- o ASSESSMENT FACILITY - A facility used for evaluation of information including instrument data, to assess the scope and severity of an emergency condition. Such facilities available to Nine Mile Point include:
  - Onsite
    - Control Rooms
    - Technical Support Center
  - Off-Site
    - Emergency Operations Facility
- o CDE<sub>T</sub> - Represents the dose equivalent to the child thyroid, weighted on the basis of the relative detriment to the individual, for an exposure period of 50 years.
- o CONSTELLATION ENERGY NUCLEAR GROUP - The owner of the Nine Mile Point Nuclear Station.
- o CORRECTIVE ACTIONS - Those emergency measures taken to mitigate or terminate an emergency situation at or near the source of the problem in order to prevent an uncontrolled release of radioactive material or to reduce the magnitude of a release.
- o COUNTY WARNING POINT (CWP) - The communications center at Oswego County 911 Center in Oswego, N.Y. is the County Warning Point. It serves as a 24-hour notification point for messages from the utilities to appropriate officials in the county.
- o DOSE PROJECTION - A calculated estimate of the potential dose to individuals at a given location onsite or offsite. It is determined from the quantity of radioactive material released and the appropriate meteorological transport and diffusion parameters.
- o EMERGENCY - A situation outside of routine operational events or minor equipment malfunction which could lead to a radiological hazard affecting the health and safety of workers or the public, or result in significant damage to property
- o EMERGENCY ACTIONS - A collective term encompassing the assessment, corrective and protective actions taken during the course of an emergency.
- o EMERGENCY ACTION LEVELS (EAL) - Specific indications or conditions used as thresholds for initiating specific emergency actions.

- o EMERGENCY ALERT SYSTEM (EAS) - A system of radio stations organized to permit designated government officials to issue emergency information and instructions in threatened or actual emergencies.
- o EMERGENCY CLASSIFICATION - A condition which falls into one of the following categories: Unusual Event, Alert, Site Area Emergency, or General Emergency.
- o EMERGENCY DIRECTOR - The individual responsible for the implementation and administration of the NMPNS Site Emergency Plan. Directs the emergency response organization and has overall authority for control of the emergency situation and for assuring continuity of resources.
- o EMERGENCY OPERATIONS CENTERS (EOC) - Local and State facilities for assessment of emergency information and direction of local and State emergency response personnel.
- o EMERGENCY PLAN IMPLEMENTING PROCEDURES (EPIP-EPPs or CNG-EP-1.01-xxxx) - A procedure that provides detailed instructions to NMPNS personnel and implements an action or activity described in the Site Emergency Plan. These procedures are considered Technical Specification related and are listed in Appendix C.
- o EMERGENCY PLAN MAINTENANCE PROCEDURES (EPMP-EPPs) - Procedures which provide instructions, checklists, and guidance to maintain the emergency preparedness program, equipment and associated documents.
- o EMERGENCY PLANNING ZONE (EPZ) - A designated area around NMPNS used to facilitate offsite emergency planning. There are two Emergency Planning Zones: the plume exposure pathway and the ingestion exposure pathway.
- o EMERGENCY RESPONSE FACILITY (ERF) - A generic term referring to a facility that is used for emergency purposes. These facilities include the Control Room, Technical Support Center, Emergency Operations Facility, Operations Support Center, Joint Information Center, Oswego County Emergency Operations Center, etc.
- o EMERGENCY RESPONSE/RECOVERY ORGANIZATION - The organization, which consists of Nuclear Division, corporate and outside personnel, that manages the large scale or long-term response to and recovery from an accident.

- o ENVIRONMENTAL MONITORING TEAMS - These teams are characterized by personnel from the station staff (Radiation Protection or Environmental Departments) or contractor staff that collect environmental measurements as part of the Expanded Radiological Environmental Monitoring Program.
- o EVACUATION ASSEMBLY AREAS - Areas outside of the protected area where personnel evacuated from the protected area are assembled. The two primary areas typically designated are the P-Building at Unit 2 for personnel exiting the protected area via the Unit 2 security access, and the Nuclear Learning Center for personnel exiting the protected area via the Unit 1 security access.
- o EXCLUSION AREA - The area controlled by NMPNS surrounding the station, in which the licensee has the authority to determine all activities including exclusion or removal of personnel and property from the area. For emergency preparedness purposes, the NMPNS/JAFNPP exclusion areas are considered to be one exclusion area.
- o EXPANDED RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM - This program is characterized by an increase in the number and frequency of samples collected, plus other additional sampling of critical pathways (such as snow, ground deposition, surface water, etc.)
- o FEDERAL RADIOLOGICAL MONITORING AND ASSESSMENT PLAN (FRMAP) - The Federal government's means of providing in-depth assistance to licensees, States, and local governments in the event of a radiological emergency. The monitoring and assessment teams are normally provided by the Department of Energy (DOE).
- o HAZARDOUS MATERIALS - Any element, compound or combination thereof, which is detonable, flammable, corrosive, toxic, an oxidizer, an etiologic agent, or highly reactive and which because of handling, storage processing, or packaging may have detrimental effects upon operating personnel and emergency personnel, the public, plant equipment, and/or the environment.
- o INDEPENDENT SPENT FUEL STORAGE INSTALLATION (ISFSI) - The ISFSI is a complex designed and constructed for the interim storage of spent fuel, solid reactor-related greater than Class C (GTCC) waste, and other radioactive materials associated with spent nuclear fuel assemblies discharged from NMPNS Unit 1 and Unit 2 reactors.

- o INGESTION EXPOSURE PATHWAY - The principal exposure from this pathway would be from ingestion of contaminated water or foods such as milk or fresh vegetables. The duration of principal exposures could range in length from hours to months.
- o LOCAL AREA EVACUATION - Evacuation of personnel from localized areas within the station with assembly outside the affected local area.
- o NINE MILE POINT NUCLEAR STATION L.L.C (NMPNS) - A limited liability corporation and operator of Nine Mile Point Nuclear Station.
- o NUCLEAR SAFETY REVIEW BOARD (NSRB) - a committee which provides independent review and audit of designated activities affecting the safe operation of the stations.
- o OFFSITE - Any area outside of the joint property controlled by NMPNS and JAFNPP.
- o OFFSITE ASSEMBLY AREA (OAA) - Specific location outside the NMPNS 10 mile EPZ for the assembly of personnel in the event of an exclusion area evacuation. This area is typically the Oswego County Airport, Hanger K; in the town of Volney.
- o ONSITE - The area within the joint property controlled by NMPNS and JAFNPP, the exclusion area.
- o ONSITE ASSEMBLY AREAS - These are areas within the protected area where personnel will gather to allow for continuous accountability of personnel remaining within the protected area.
- o OSWEGO COUNTY EMERGENCY OPERATIONS CENTER (OCEOC) - A facility that serves as the county command post from which emergency operations will be directed and coordinated. The OCEOC is located in the Oswego County Emergency Management Offices in the basement of the Oswego County Branch Building, Route 481, Fulton, N.Y.
- o OWNER CONTROLLED AREA (OCA) EVACUATION - Evacuation of all non-essential personnel from the NMPNS OCA to either the designated Offsite Assembly Area or to their home. This includes, as appropriate, the evacuation of individuals from the NMPNS OCA including the Nuclear Learning Center; Energy Center, Sewage Treatment Facility, all other NMPNS site locations, and a notification to the James A. Fitzpatrick Nuclear Station of the evacuation.

- o PERSONNEL ACCOUNTABILITY SYSTEM - A system of accounting for personnel within the Protected Area. The system was developed in response to NUREG-0654 (Section II.J.5) and uses the Nuclear Security Proximity Cards assigned to personnel entering the Protected Area, Emergency Accountability Card readers located throughout the protected area, and a computerized database. The system provides timely identification of individuals who have NOT reported to Onsite Assembly Areas or exited the protected area and generates a personnel accountability report.
- o PA SYSTEM - A generic term used throughout the Site Emergency Plan referring to a Public Address system where an announcement or alarm can be made and heard throughout the protected area. Other terms used for the PA system are the GAItronics, Plant Paging System, Page Party/Public Address Communications Subsystem (PP/PA), etc.
- o PREVENTIVE PAG - These are projected dose commitment values at which recommendations should be made to responsible offsite officials. These actions should have minimal impact to prevent or reduce the radioactive contamination of human food or animal feed.
- o PLANT OPERATIONS REVIEW COMMITTEE (PORC) - A review group which, in accordance with the QATR, functions by advising the PORC Chairman and the Nuclear Safety Review Board concerning the safety aspects of proposed courses of action.
- o PLUME EXPOSURE PATHWAY - A pathway by which individuals can be exposed to radiation. The principal exposure sources from this pathway are: (a) whole body external exposure to gamma radiation from the plume and from deposited material; and (b) inhalation exposure from the passing radioactive plume.
- o PROTECTED AREA - This is the area within the station security fence designated to implement the security requirements of 10CFR73. It is sometimes referred to in the context of Unit 1 and/or Unit 2 protected area.
- o PROTECTED AREA EVACUATION - Evacuation of nonessential individuals within the stations' protected area, to assembly areas outside of the protected area designated as Evacuation Assembly Areas. These areas are typically the Nuclear Learning Center and the P-Building.
- o PROTECTIVE ACTIONS - Those emergency measures taken before or after a release of radioactive material has occurred for the purpose of preventing or minimizing radiological exposures to persons that would be likely to occur if the actions were not taken. Some of the possible protective actions are:
  - Evacuation
  - Isolation of Ingestion Pathway and Sources
  - Radioprotective Drug Administration

- o PROTECTIVE ACTION GUIDES (PAGs) - Projected radiological dose or dose commitment values to individuals in the general population that warrant protective action before or following a release of radioactive material. Protective actions would be warranted provided that the reduction in individual dose expected to be achieved by carrying out the protective action is not offset by excessive risks to individual safety in taking the protective action. The PAG does not include the dose that has unavoidably occurred prior to the assessment.
- o RADIOLOGICALLY CONTROLLED AREA (RCA) - Major plant areas to which access is limited for the purpose of protecting personnel from exposure to radiation and contamination.
- o RADIOLOGICAL EMERGENCY COMMUNICATIONS SYSTEM (RECS) - A dedicated telephone system used to provide initial notification of an emergency, and continuing emergency information, to the State and to Oswego County.
- o RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM - Characterized by the collection of normal radiological samples required by technical specifications and additional optional samples not covered in technical specifications (such as soil, meat, poultry, etc.)
- o RECOVERY ACTIONS - Those actions taken after an emergency to restore the plant as nearly as possible to its pre-emergency condition.
- o REQUISITE TRAINING - The training specified for an emergency position, and contained within Training Department Procedures for Emergency Preparedness.
- o RESTRICTED AREA - Any area to which access is controlled by NMPNS for purposes of protection of individuals from exposure to radioactive materials.
- o SAFE SHUTDOWN SYSTEM - A descriptive term applying to a combination of systems that can be used to provide a decay heat removal path.
- o SAFETY ANALYSIS REPORT (SAR) - A periodically updated multi volume report describing a nuclear power station's site, design features, safety features and the utility's intended methods of operation. The SAR must be submitted to the U.S. NRC by the utility when applying for an operating license for the nuclear station. The Unit 1 SAR may be referred to as UFSAR and Unit 2 to as USAR.
- o SAFETY ANALYSIS REPORT FOR THE ISFSI - The Standardized NUHOMS® Updated Final Safety Analysis Report (NUHOMS® UFSAR) provides the generic safety analysis for the Standardized NUHOMS® system for storage of light water reactor spent nuclear fuel assemblies (No. NUH-003, Revision 11, NRC Docket No. 72-1004). This system provides for the safe dry storage of spent fuel in a passive ISFSI which fully complies with the requirements of 10CFR72 and ANSI 57.9. This UFSAR formed the basis for generic NRC certification of the standardized NUHOMS® system and is used by 10CFR50/10CFR72 general license holders in accordance with 10CFR72 Subparts K and L.

- o SAFETY PARAMETER DISPLAY SYSTEM (SPDS) - This system provides a display of plant parameters from which the safety status of station operations may be assessed in the Control Rooms and Technical Support Center.
- o SECURITY CONTINGENCY EVENT - A deliberate act or perceived threat of an act which could imperil the station and endanger the public health and safety by exposure to radiation.
- o SECURITY TACTICAL OPERATIONS CENTER (STOC) - A security command center that may be activated during a security contingency event, or activation of the site emergency plan.
- o SHIFT MANAGER/EMERGENCY DIRECTOR - The individual responsible for the implementation and administration of the NMPNS Site Emergency Plan. Directs the emergency response organization and has overall authority for control of the emergency situation and for assuring continuity of resources until relieved by the Emergency Director in the EOF.
- o SITE EMERGENCY PREPAREDNESS MANAGER - The individual responsible for the coordination of emergency planning efforts.
- o SPECIAL OPERATING PROCEDURES (SOP) - These procedures contain instructions for station operators usually attributed to emergency procedures in the regulatory guides and standards.
- o STATE EMERGENCY OPERATIONS CENTER (SEOC) - The State command post from which emergency operations will be directed and coordinated.
- o STATE WARNING POINT (SWP) - Serves as a notification point for messages from the utilities to appropriate officials in the State. The SWP is manned on a 24-hour per day basis.
- o STATION - As used in the Site Emergency plan, Station refers to the site containing the two Nine Mile Point reactors, associated outbuildings and all personnel working to support the operation of the site.
- o TECHNICAL SUPPORT CENTER MANAGER (TSCM) - The individual responsible for implementation of on-site support activities necessary to effectively implement the SEP and mitigate the emergency. The TSCM has the leadership role to ensure on-site emergency activities are carried out in accordance with the SEP and implementing procedures at the direction of the SM/ED or ED.
- o TOTAL EFFECTIVE DOSE EQUIVALENT (TEDE) - Represents the sum of the effective dose equivalent and the committed effective dose equivalent.
- o UNRESTRICTED AREA - Any area to which access is not controlled by NMPNS for purposes of protection of individuals from exposure to radiation and radioactive materials, and any area used for residential quarters.

## 2.0 SCOPE AND APPLICABILITY

The Site Emergency Plan covers the spectrum of emergencies from minor localized incidents to major emergencies involving protective measures by offsite response organizations. Included are guidelines for immediate response, assessment of emergency situations, defined action criteria and delineation of support functions. Emergency Plan Implementing Procedures provide detailed information for individuals who may be involved with specific emergency response functions.

This Site Emergency Plan provides for a graded scale of response to distinct classifications for emergency conditions, action within those classifications, and criteria for escalation to a more severe classification. This classification system is compatible with that used by the State of New York and the Oswego County Emergency Management Office. The plans have four emergency categories: Unusual Event, Alert, Site Area Emergency, and General Emergency. In addition to notifying the offsite agencies of the existing emergency classification, provisions are made in the implementing procedures for the Station to advise the State and County of appropriate protective actions.

For initiating conditions common to both units, both Unit's SMs will confer and determine:

- The Shift Manager for the Unit with the higher emergency classification will become the SM/ED.
- If emergency classification levels are equal, the SM first notified will become the SM/ED
- If there is any question as to who should initiate the Site Emergency Plan, the Unit 1 SM shall assume the SM/ED duties.

Interrelationship of this Site Emergency Plan with other procedures, plans and emergency arrangements is necessary to ensure an effective response organization. These interrelated documents include:

- a. Nine Mile Point Nuclear Station Emergency Plan Implementing Procedures (EPIP-EPPs and CNG-EP-1.01-xxxx) and Emergency Plan Maintenance Procedures (EPMP-EPPs) are designed to detail specific actions required by Station personnel in response to radiological and non-radiological emergency conditions and to maintain emergency preparedness. A listing of these procedures is contained in Appendix C.
- b. Operating Procedures (OP), Emergency Operating Procedures (EOP) Special Operating Procedures (SOP), and Severe Accident Procedures (SAP) detail immediate and subsequent operator actions in response to various system transients. These operating procedures are coordinated with the Site Emergency Plan and its implementing procedures to ensure appropriate actions are taken on a timely basis.



- c. Station Chemistry Department and Radiation Protection Department Procedures define health physics requirements for the control and handling of radioactive materials, personnel decontamination, and respiratory protection, sampling techniques, radiation survey techniques and radiation exposure guidelines. Selected procedures, which are applicable to both normal and emergency conditions, are used in conjunction with the Site Emergency Plan and its implementing procedures.
- d. Station Physical Security and Fire Protection Plans and their implementing procedures, provide overall guidance and specific instructions to Nuclear Security and Station personnel for emergencies involving security or fire. These plans and procedures are coordinated with the Site Emergency Plan and its implementing procedures to ensure compatibility, and with Offsite Plans to ensure prompt access for Offsite Response Organization Responders when necessary.
- e. The Oswego County Radiological Emergency Preparedness Plan and the New York State Radiological Emergency Preparedness Plan, in conjunction with this Site Emergency Plan and its implementing procedures, provide for early and redundant notification schemes, continued assessment and update of radiological conditions, and the coordination of onsite and offsite protective actions.

The concept of operations, and its relationship to the Federal, State, local and private organizations that are part of the overall emergency response organizations, is described in Section 5.0 and 6.0. A block diagram, which illustrates these interrelationships, is included in Site Emergency Plan, Figures 6.1-6.3, Emergency Organizations Interfaces. Illustrations of how the interfaces between various segments of response organizations change during various phases of emergency and recovery operations are shown in Site Emergency Plan, Section 6.

### 3.0 SUMMARY OF EMERGENCY PLAN

#### 3.1 PURPOSE

This NMPNS Site Emergency Plan describes the total preparedness program established, implemented and coordinated by NMPNS to assure the capability and readiness of coping with and mitigating both onsite and offsite consequences of radiological emergencies.

#### 3.2 EMERGENCY ORGANIZATION

The organization for control of emergencies begins with the shift organization of the affected unit(s) and contains provisions for augmentation and extension to include other Division personnel, and outside emergency response organizations. As an incident increases in severity or potential severity, the emergency response and corresponding response organization must necessarily increase in size. Staffing levels have been established to provide appropriate response and are discussed in detail in Section 5.0 of this Site Emergency Plan.

#### 4.0 EMERGENCY CONDITIONS

##### 4.1 CLASSIFICATION SYSTEM (NUREG 0654 II.D.1, II.D.2, II.I.1)

The spectrum of probable and postulated emergency conditions have been categorized into four emergency classes. Emergency Action Level (EAL) criteria have been specified for recognizing, categorizing and declaring emergency classes based, to the extent feasible, on readily available information such as Control Room instrumentation. In many cases the emergency classification is immediately apparent from in-plant instrumentation and is consistent with requirements of USNRC Regulatory Guide 1.101. In other cases more extensive assessment is necessary to determine the applicable emergency classification. In any case, continuing assessment ensures that the emergency classification is commensurate with the severity of the emergency condition.

The information is presented by recognition Category with the associated Unit system/equipment or instrument parameters clearly defined:

- Reactor Fuel
- RPV
- Primary Containment
- Secondary Containment
- Radioactivity Release
- Electrical Failures
- Equipment Failures
- Hazards
- Other

Each EAL Initiating Condition is structured in the following way:

- Recognition Category- as described above
- Emergency Class- Unusual Event, Alert, Site Area Emergency and General Emergency
- Initiating Condition- Symptom- or Event- Based, Identification and Title
- Operating Mode applicability- Power Operation, Hot Standby, Hot Shutdown, Cold Shutdown, Refueling, Defueled or All.

NMP maintains the capability to assess, classify and declare an emergency condition within 15 minutes after the availability of indications to plant operators that an Emergency Action Level (EAL) has been exceeded

The 15 minute criterion does not prevent implementation of response actions to protect the public health and safety provided that any delay in declaration does not deny the State and Local authorities the opportunity to implement emergency response actions.

The 15 minute criterion commences when plant instrumentation, plant alarms, computer displays or incoming verbal reports that correspond to an EAL first become available to any plant operator and encompasses all assessment, classification, verification and declaration actions.

As used here, "plant operator" means any member of the plant staff who, by virtue of training and experience, is qualified to assess the indications or reports for validity and to compare the same to the EALs. A "plant operator" does not encompass plant personnel such as chemists, radiation protection technicians, craft personnel, security personnel, and others

whose positions require they report, rather than assess, abnormal conditions to the control room.

In the case where EALs are related to an analysis, e.g. dose assessment or sampling, the 15 minute declaration period starts with the availability of analysis results, to any plant operator, that show the conditions of the EAL to be exceeded.

Procedures CNG-EP-1.01-1013, Emergency Classification and PAR, provide specific implementation guidance on this classification system. Figure 4.1 provides action and participation by response organizations for the various emergency classifications. EPMP-EPP-0101 and EPMP-EPP-0102 provide the basis by which each of the emergency action levels was determined

#### 4.1.1 Unusual Event

Events are in process or have occurred which indicate a potential degradation of the level of safety of the plant or indicate a security threat to facility protection. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs. Although the emergency situation can be corrected and/or controlled, notification of NMPNS Management may be performed. In addition, appropriate offsite agencies are notified of the nature and extent of the incident, even though no action may be required of them.

#### 4.1.2 Alert

Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant or a security event that involves probable life threatening risk to site personnel or damage to site equipment because of intentional malicious dedicated efforts of a hostile act. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels.

#### 4.1.3 Site Area Emergency

Events are in process or have occurred which involve an actual or likely major failures of plant functions needed for protection of the public or security events that result in intentional damage or malicious acts; (1) toward site personnel or equipment that could lead to the likely failure of or; (2) prevents effective access to equipment needed for the protection of the public. Any releases are not expected to result in exposure levels which exceed EPA Protective Action Guideline exposure levels beyond the site boundary.

#### 4.1.4 General Emergency

Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity or security events that result in an actual loss of physical control of the facility. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area.

#### 4.2 SPECTRUM OF POSTULATED ACCIDENTS (NUREG 0654 II.D.2, II.I.1)

Postulated accidents are described in Chapter XV of the Unit 1 FSAR and Chapter 15 of the Unit 2 USAR.

Postulated accidents for dry fuel storage (ISFSI related) are described in the Transnuclear Inc. Updated Final Safety Analysis Report (NUHOMS<sup>®</sup> UFSAR) for the Standardized NUHOMS<sup>®</sup> Horizontal Modular Storage System for Irradiated Nuclear Fuel. Postulated accidents utilizing the Standardized NUHOMS<sup>®</sup> -61BT dry shielded canisters are described in Section K.11.2 of the NUHOMS<sup>®</sup> UFSAR and Section T. 11.2 of the UFSAR describes the postulated accident utilizing the Standardized NUHOMS<sup>®</sup> -61BTH dry shielded canisters.

**FIGURE 4.1**  
**REQUIRED ACTIONS AND PARTICIPATION BY**  
**RESPONSE ORGANIZATIONS FOR VARIOUS EMERGENCY CLASSES**

Emergency Class	Participation By NMPNS			Plant Staff	Participation By Off-Site Agencies
	Necessity for <u>Protective Action</u>		Necessity for Corrective Action		
	On-Site	Off-Site			
Unusual Event	Possible	Not Required	Possible <sup>1)</sup>	Action Required	No Action Required
Alert	Possible	Not Required	Possible <sup>2)</sup>	Action Required	EOC's On Alert
Site Area Emergency	Probable	Not Required	Probable <sup>3)</sup>	Action Required	EOC Action Required
General Emergency	Probable	Required	Probable <sup>3)</sup>	Action Required	EOC Action Required

- 1) May involve normal organizational response such as ambulance, rescue personnel and use of medical facilities as would occur for any industrial accident.
- 2) May require police, firemen, ambulance, and/or medical facilities to be on alert or to respond.
- 3) May involve police and Coast Guard, firefighters, ambulance and/or use of medical facilities. May involve radiological monitoring teams from NMPNS, local, State and Federal agencies.

## 5.0 ORGANIZATION CONTROL OF EMERGENCIES

This section describes the EXELON Emergency Response Organization (ERO) at Nine Mile Point, its key positions and associated responsibilities. It outlines the staffing requirements which provide initial emergency response actions and provisions for timely augmentation of on-shift personnel when required. It also describes interfaces among emergency response personnel and specifies the offsite support available to respond to the nuclear generating stations.

### 5.1 TYPICAL NUCLEAR DIVISION/STATION ORGANIZATION (NUREG 0654 II.A.1.d, II.A.1.e, II.A.4, II.B.1)

The typical Nuclear Division organization for normal operation is shown in GAP-POL-01, Composition and Responsibility of the Nine Mile Point Nuclear Station LLC Organization.

Personnel in certain categories, principally Operations, Chemistry and Radiation Protection work in shifts so that coverage is provided 24 hours per day. For certain station conditions, such as outages, testing, etc., personnel who do not normally work on shift may work other than normal hours to provide extended coverage.

The minimum staffing at each Unit during normal operation is as follows:

- 1 Shift Manager (SM) (has SRO)
- 1 Control Room Supervisor (CRS)
- 1 Shift Technical Advisor
- 5 Control Room Operators (min. of two RO)
- 1 Chemistry Technician
- 1 Radiation Protection Technician\*
- 5+ Security Personnel
- \*\* Fire Brigade Personnel

\* Personnel assigned to Unit 1 and Unit 2 as required.

\*\* Required Fire Brigade Personnel is detailed in applicable USAR/UFSAR.

A detailed analysis of initial on-shift responsibilities and response to an emergency condition is contained in the NMP On-Shift Staffing Analysis Report, Appendix K.

#### 5.1.1 Station Responsibility During Normal Working Hours (NUREG 0654 II.B.1)

During normal working hours, the Vice President Nine Mile Point has overall responsibility for the site. The Plant General Manager has overall responsibility for Unit 1 and Unit 2 operations. The SM on duty has responsibility for ensuring that the Unit is operated safely and within the respective license and Technical Specification requirements. The SM has the authority and responsibility to order shutdown of the reactor and/or declare an emergency if required. Also, any licensed reactor operator on duty in a Control Room can shutdown (scram) the reactor if it is in an unsafe condition.

### 5.1.2 Station Responsibility During Off-Normal Working Hours (NUREG 0654 II.B.1)

During off-normal working hours, the SM's have overall responsibility for the site and safe operation of their respective units. Selected management personnel are on call and may be reached through the use of an approved notification system if a SM needs to notify them of an event that requires technical consultation or requires additional personnel. However, it is the on-duty SM who has the responsibility and authority to declare an emergency. Upon declaring an emergency, the SM immediately becomes the SM/ED.

In the event of an emergency declaration due to an initiating condition affecting both Unit 1 and Unit 2, both Units' SMs will confer and determine:

- The Shift Manager of the Unit with the higher emergency classification will become the SM/ED.
- If emergency classification levels are equal, the SM first notified will become the SM/ED.
- If there is any question as to who should initiate the Site Emergency Plan, the Unit 1 SM shall assume the SM/ED duties.

### 5.2 ON-SHIFT EMERGENCY RESPONSE ORGANIZATION ASSIGNMENTS (NUREG 0654 II.A.1.e, II.A.4, II.B.1, II.B.5, II.F.1.a, II.H.4)

The initial phases of an emergency situation at a nuclear station will most likely involve a relatively small number of individuals. These individuals must be capable of (1) determining that an emergency exists; (2) providing initial classification and assessment; and (3) promptly notifying other groups and individuals in the emergency organization. The subsequent phases of the emergency situation may require an increasing augmentation of the emergency organization.

All emergency facilities will have minimum staffing within 60 minutes. Minimum staff positions are defined in Table 5.1.

All EXELON Nuclear stations have the capability at all times to perform detection, mitigation, classification, and notification functions required in the early phases of an emergency. The emergency plan responsibilities for shift personnel are:

#### a. Shift Manager (while Emergency Director):

NOTE: \* Indicates Non-Delegable responsibilities when performing Emergency Director duties.

- Coordinate between CR, OSC and TSC to set OSC team task priorities.
- Perform or direct emergency PA announcements.
- Ensure flow of information within and between the emergency response facilities.
- Integrate ERO activities with the Incident Command Post (ICP) response activities.
- Assume overall command and control of emergency response.
- Classify and declare emergencies.\*
- Direct notification and activation of the ERO.



- Direct and approve offsite emergency notifications to state and local authorities\*.
  - Direct ENS communications with the NRC.
  - Oversee the performance and evaluate the results of dose projection activities.
  - Ensure appropriate accountability and search and rescue actions for plant personnel.
  - Ensure appropriate evacuation actions for plant personnel\*.
  - Approve the issuance of KI.
  - Make Protective Action Recommendations to offsite authorities\*.
  - Approve emergency exposures.\*
  - Terminate the emergency event.
- b. Shift Manager (After Transfer of Emergency Director Duties)
- Coordinate between CR, OSC and TSC to set OSC team task priorities.
  - Perform or direct emergency PA announcements.
  - Ensure flow of information within and between the emergency response facilities.
  - Participate in Inter-Facility Briefings to communicate and obtain event and response information.
  - Authorize and prioritize requests for external assistance (police, fire, medical) as necessary.
  - Assist with Emergency Classification.
- c. Shift Technical Advisor (STA), SROs and ROs
- Assist with emergency classification.
- d. Designated Shift Communicator
- Notify the ERO.
  - Perform offsite emergency notifications to state and local authorities.
  - Provide plant data and plant information to the NRC via the ENS.
- e. Designated Shift Dose Assessor
- Perform dose assessments.
- f. Shift Radiation Protection Technician(s)
- Ensure habitability is established and maintained for occupied onsite areas.
  - Monitor in-plant radiological conditions.
  - Coordinate RP support for personnel dispatched into the plant.
- g. Shift Chemistry Technician
- Conduct sampling to assist with emergency assessment activities.
- h. Security Shift Supervisor
- Supervise security force activities.
  - Perform offsite emergency notifications to state and local authorities.
  - Establish and maintain Protected Area accountability.
  - Establish and supervise plant access controls.

- Supervise security actions for site evacuation.
  - Coordinate administration of KI to the security officers.
- i. Other Shift Personnel (Non-licensed Operators, Security Force, Maintenance Personnel)
- Support emergency response as directed.

### 5.3 AUTHORITY OVER THE EMERGENCY RESPONSE ORGANIZATION

The Emergency Director in Command and Control is the designated EXELON individual who has overall authority and responsibility, management ability, and technical knowledge for coordinating all emergency response activities at the nuclear power station. The Emergency Director will immediately and unilaterally initiate any emergency actions, including providing protective action recommendations to authorities responsible for implementing offsite emergency measures.

The Shift Manager is available at all times to assume the responsibilities of Emergency Director. A qualified individual is on-call to respond to the EOF and relieve the Shift Manager of Emergency Director duties.

### 5.4 CRITERIA FOR ASSUMING COMMAND AND CONTROL (SUCCESSION)

The responsibility for initial assessment of and response to an emergency rests with the Shift Manager. Emergency personnel assume responsibility for their positions upon receiving notification to activate when an event has been declared.

The Emergency Director responsibilities are initially assumed by the Shift Manager. If the event is classified at an Alert or Higher level, or the Shift Manager deems it appropriate, the Shift ERO will be augmented by the on-call ERO.

The on-call Emergency Director will report to the EOF and assume the Emergency Director's responsibilities.

The Shift Manager is relieved of Command and Control as soon as possible after the declaration of an Alert or higher classification. Command and Control does not transfer until the following criteria have been met:

- Adequate EOF staff levels are present in support of the non-delegable responsibilities.
- The staff has been fully briefed as to the status of the event and the currently proposed plan of action.
- A formal turnover between the Emergency Director relinquishing Command and Control and the Emergency Director assuming Command and Control has been made.

### 5.5 NON-DELEGABLE RESPONSIBILITIES

Functional responsibilities of the Emergency Director that may not be delegated are:

- Classify and declare emergencies.
- Direct and approve offsite emergency notifications to state and local authorities.
- Make Protective Action Recommendations to offsite authorities.

- Ensure appropriate evacuation actions for plant personnel.
- Approve emergency exposures and/or the issuance of KI.

## 5.6 EMERGENCY RESPONSE ORGANIZATION POSITIONAL RESPONSIBILITIES

Figure 5.1 outlines ERO positions required to meet minimum staffing and full augmentation of the on-shift complement at an Alert or higher classification, and the major tasks assigned to each position. The full augmentation staffing levels are used as a planning basis to cover a wide range of possible events. For extended events (one which lasts for more than 24 hours), actual staffing will be established by the Emergency Director based on the event and personnel availability. However, additional staffing or reduced staffing will only occur after discussion concerning the impact on plant operations and emergency response.

The station's ERO consist of three major sub groups reporting to the Emergency Director:

- Onsite ERO, consisting of Control Room, TSC, OSC and Security staffs. The primary functions of the Onsite ERO is perform mitigative actions and ensure appropriate onsite protective actions are taken.
- Offsite ERO, consisting of EOF staff. The primary functions of the Offsite ERO are to interface with offsite authorities and perform offsite radiological assessment.
- Public Information ERO, consisting of JIC staff. The primary function of the Public information ERO is to provide accurate information to the public through News Media.

Specific responsibilities for members of these sub groups are:

### 5.6.1 Onsite ERO

#### a) Control Room:

Emergency responsibilities for the Control Room, Security and other shift staff are outlined in section 5.2.

#### b) Technical Support Center (TSC):

##### 1) TSC Manager

- Manage all onsite emergency activities in support of plant operations.
- Establish plant/station response priorities.
- Integrate ERO activities with the Incident Command Post (ICP) response activities.
- Authorize and prioritize requests for external assistance (onsite technical support, manpower) as necessary.
- Assist with emergency classification.
- Provide informational updates and recommendations to the ED, regarding plant status and activities.
- Direct ENS communications with the NRC.
- Authorize emergency response facility relocations.

- Evaluate event assessments and mitigative strategies to determine operational and response actions.
- Authorize and direct extreme measures (SAMGs, EDMGs, §50.54(x) or suspend security controls).
- Ensure appropriate accountability and search and rescue actions for plant personnel.
- Ensure accountability, once established, is maintained in all occupied areas of the station.
- Ensure appropriate evacuation actions for plant personnel.
- Coordinate between CR, OSC and TSC to set OSC team task priorities.
- Conduct facility briefs and updates.
- Participate in the Inter-Facility briefing to communicate and obtain event and response information.
- Coordinate integration of the NRC Site Team
- Assist in the development of recovery plans.

2) TSC Director

- Activate the Facility.
- Establish and maintain facility accountability.
- Manage the operation of the facility.
- Review and ensure facility displays are maintained current.
- Coordinate ERO shift relief rosters for the onsite facilities.
- Develop ERO shift relief rosters for the facility.
- Perform or direct emergency PA announcements.
- Coordinate integration of the NRC Site Team.
- Arrange for logistics support.
- Ensure flow of information within and between the emergency response facilities.
- Provide input for facility briefs and updates.
- Coordinate TSC relocation.

3) Engineering Director

- Manage the activities of the TSC engineering / technical staff.
- Ensure additional personnel and/or equipment is arranged for, as necessary.
- Provide engineering support for accident detection and assessment.
- Develop mitigative strategies based on assessment of the event.
- Analyze and develop extreme measures actions (SAMGs, EDMGs, §50.54(x) or suspend security controls).
- Provide input for facility briefs and updates.

- 4) Electrical Engineer
  - Provide engineering support for accident detection and assessment.
  - Provide input into mitigative strategies.
  - Analyze and develop extreme measures actions (SAMGs, EDMGs, §50.54(x) or suspend security controls).
- 5) Mechanical Engineer
  - Provide engineering support for accident detection and assessment.
  - Provide input into mitigative strategies.
  - Analyze and develop extreme measures actions (SAMGs, EDMGs, §50.54(x) or suspend security controls).
- 6) Reactor Engineer
  - Provide engineering support for accident detection and assessment.
  - Provide input into mitigative strategies.
  - Perform core damage estimations.
  - Analyze and develop extreme measures actions (SAMGs, EDMGs, §50.54(x) or suspend security controls).
- 7) Technical Staff
  - Provide input for mitigative strategies
  - Support the setup of systems and equipment within the facility.
- 8) TSC/OSC IT Specialist
  - Support the setup of systems and equipment within the facility.
  - Monitor facility equipment (computer related and communications) to ensure adequate operation.
  - Resolve any IT related malfunctions.
- 9) Operations Director
  - Manage the activities of the TSC Operations staff.
  - Assist with emergency classification.
  - Provide technical assistance communication path to the Shift Manager.
  - Support the establishment of plant/station response priorities.
  - Provide operations support for accident detection and assessment.
  - Recommend operations actions to the Shift Manager in support of restoration and accident mitigation.
  - Analyze and develop extreme measures actions (SAMGs, EDMGs, §50.54(x) or suspend security controls).
  - Coordinate between CR, OSC and TSC to set OSC team task priorities.
  - Coordinate operations activities outside of the Control Room between the Shift Manager and OSC.

- Provide input for facility briefs and updates.
- 10) ENS Communicator
- Provide event data and plant information to the NRC via the ENS.
  - Verify Emergency Response Data System (ERDS) operation.
  - Monitor assigned communication line and provide key information to facility staff.
  - Monitor event information on the facility display systems.
- 11) Ops Communicator (TSC)
- Communicate key information between the facilities over the Technical Information Line.
  - Monitor assigned communication line and provide key information to facility staff.
  - Display, monitor and trend plant data and event information on the facility display systems.
- 12) Ops Communicator (CR)
- Communicate key information between the facilities over the Technical Information Line.
  - Monitor assigned communication line and provide key information to facility staff.
- 13) Maintenance Director
- Provide input into mitigative strategies.
  - Coordinate between CR, OSC and TSC to set OSC team task priorities.
  - Coordinate repair and OSC team task information between the TSC and OSC.
  - Provide input for facility briefs and updates.
- 14) Radiation Protection Director
- Manage and direct the radiological activities of the RP personnel.
  - Ensure additional personnel and/or equipment is arranged for, as necessary.
  - Provide radiological support for accident detection and assessment.
  - Monitor, evaluate and communicate conditions involving any release of radioactivity.
  - Provide support and logistics for site evacuation activities.
  - Evaluate the need for and ensure proper use of KI.
  - Ensure habitability is established and maintained for occupied onsite areas.
  - Ensure proper emergency exposure controls are taken for personnel.

- Provide radiological assistance for planning rescue operations and repair team monitoring.
  - Direct personnel decontamination activities.
  - Provide radiological assistance for the transfer of injured and/or contaminated personnel.
  - Provide input for facility briefs and updates.
- 15) Security Director
- Integrate ERO activities with the ICP response activities.
  - Manage the activities of the site security force.
  - Request and coordinate emergency activities with Local Law Enforcement Agencies (LLEAs).
  - Provide security related communications with the NRC.
  - Direct accountability and search & rescue activities.
  - Direct site evacuation activities.
  - Direct site access controls activities.
  - Coordinate security activities between the SSS and OSC.
  - Determine radiation protection measures for security force personnel and law enforcement agency personnel on site.
  - Provide input for facility briefs and updates.
- 16) TSC Administrative Staff
- Perform administrative and logistic support functions for facility personnel.
  - Establish and maintain facility accountability.
- NOTE: NMP TSC EIS Operator duties may be performed by the TSC/OSC IT specialist.
- 17) TSC EIS Operator
- Collect and input data and maintain EIS displays.
- c) Operations Support Center (OSC):
- 1) OSC Manager
- Activate the Facility.
  - Manage the operation of the facility.
  - Develop ERO shift relief rosters for the facility.
  - Ensure flow of information within and between the emergency response facilities.
  - Support the establishment of plant / station response priorities.
  - Direct accountability and search & rescue activities.
  - Establish and maintain facility accountability.

- Coordinate between CR, OSC and TSC to set OSC team task priorities.
  - Coordinate OSC team dispatch and control.
  - Conduct facility briefs and updates.
  - Participate in the Inter-Facility Briefing to communicate and obtain event and response information.
- 2) OSC Team Coordinator
- Coordinate between CR, OSC and TSC to set OSC team task priorities.
  - Participate with OSC team dispatch and control.
  - Assemble and dispatch OSC and offsite monitoring teams.
  - Provide input for facility briefs and updates.
- 3) OSC Craft, Chemistry and Operations Leads
- Manage OSC manpower needs.
  - Assist with formation of OSC teams.
  - Participate with OSC team dispatch and control.
  - Provide technical support to dispatched OSC teams.
- 4) OSC Craft, Chemistry and Operations Personnel
- Perform job duties as an OSC team member.
- 5) OSC Radiation Protection (RP) Lead
- Manage OSC manpower needs.
  - Brief and dispatch the onsite/offsite radiation monitoring teams.
  - Monitor in-plant radiological conditions.
  - Ensure habitability is established and maintained for occupied onsite areas.
  - Participate with OSC team dispatch and control.
  - Coordinate RP support for OSC teams.
  - Track OSC Team emergency exposure.
  - Implement appropriate protective measures for OSC personnel.
  - Establish OSC and plant access radiological controls.
  - Provide input for facility briefs and updates.
- 6) OSC Radiation Protection Technicians(s)
- Perform habitability monitoring in occupied areas.
  - Perform job duties as an OSC team member.
- 7) OSC Team Tracker
- Maintain Team Tracking Status display.
  - Participate with OSC team dispatch, control and tracking.
  - Track and maintain communications with OSC teams.



- 8) Operations Communicator - OSC
  - Communicate key information between the facilities over the Technical Information Line.
  - Monitor the Technical Information Line and announce key information to facility staff.
  - Display, monitor and trend plant data and event information on the facility display systems.
- 9) OSC Administrative Staff
  - Perform administrative and logistic support functions for facility personnel.

NOTE: EIS tasks may be performed by the Ops Communicator - OSC.
- 10) OSC EIS Operator
  - Collect and input data and maintain EIS displays.

#### 5.6.2 Offsite ERO (EOF Staff)

- 1) Emergency Director
  - Assume overall command and control of emergency response.
  - Ensure all EXELON emergency response facilities are properly staffed and activated.
  - Classify emergencies.
  - Direct and approve offsite emergency notifications to state and local authorities.
  - Make Protective Action Recommendations to offsite authorities.
  - Direct ENS communications with the NRC.
  - Ensure appropriate evacuation actions for plant personnel.
  - Approve the issuance of KI.
  - Approve emergency exposures.
  - Integrate ERO activities with the Incident Command Post (ICP) response activities.
  - Authorize and prioritize requests for external assistance (governmental) as necessary.
  - Authorize and prioritize requests for external assistance (offsite technical support, manpower) as necessary.
  - Ensure other organization's management/decision makers (NRC, State, EXELON, etc.) are kept informed of the emergency situation.
  - Ensure flow of information within and between the emergency response facilities.
  - Approve technical content of media statements.
  - Coordinate integration of the NRC site team.

- Authorize and direct extreme measures (SAMGs, EDMGs, §50.54(x) or suspend security controls).
  - Terminate the emergency event.
  - Establish a recovery plan and organization.
  - Conduct facility briefs and updates.
  - Conduct an Inter-Facility briefings to communicate and obtain event and response information.
- 2) EOF Manager
- Activate the Facility.
  - Manage the operation of the facility.
  - Assist offsite agency personnel responding to the facility.
  - Coordinate integration of the NRC site team.
  - Assist with emergency classification.
  - Support the completion of timely offsite event notifications to State and local authorities.
  - Evaluate conditions and determine recommendations for PARs.
  - Assist in the development of recovery plans.
  - Participate in the Inter-Facility briefing to communicate and obtain event and response information.
  - Provide input for facility briefs and updates.
- 3) EOF Technical Advisor
- Assist with emergency classification.
  - Monitor plant status and Control Room activities.
  - Provide input for facility briefs and updates.
- 4) OPs Communicator - EOF
- Communicate key information between the facilities over the Technical Information Line.
  - Monitor assigned communication line and provide key information to facility staff.
  - Display, monitor and trend plant data and event information on the facility display systems.
- 5) EOF Administrative / Logistics Coordinator
- Ensure ERO personnel have been properly notified and are responding to the facilities.
  - Oversee staffing of EOF and assist with staffing for other facilities.
  - Develop ERO shift relief rosters for the facility.

- Coordinate ERO shift relief rosters for all facilities and the notification of personnel.
  - Manage the administrative support staff.
  - Review and ensure facility displays are maintained current.
  - Manage the procurement and logistical support activities for the onsite and offsite emergency response personnel and facilities.
  - Monitor and maintain access controls for the facility.
  - Communicate with and coordinate support for ERO responders or plant personnel sent offsite to relocation areas.
  - Provide input for facility briefs and updates
- 6) EOF/JIC IT Specialist
- Support the setup of systems and equipment within the facility.
  - Monitor facility equipment (computer related and communications) to ensure adequate operation.
  - Resolve any IT related malfunctions.
  - Assist in operation of JIC audio visual equipment.
  - Perform the duties of EOF EIS Operator.
- 7) EOF Administrative Staff
- Callout ERO relief shift.
  - Set up EOF equipment in preparation for facility activation.
  - Perform administrative and logistic support functions for facility personnel.
- 8) Offsite Agency Coordinator
- Monitor plant conditions and event response activities.
  - Provide information updates to and address questions and support requests from the offsite liaisons.
  - Notify and brief external agencies and groups (INPO, ANI) of the emergency event.
  - Provide input for facility briefs and updates.
- 9) State Liaison
- Communicate EOC / ICP actions and decisions to the EOF.
  - Provide technical support and information to the EOC / ICP.
- 10) County Liaison(s)
- Communicate EOC / ICP actions and decisions to the EOF.
  - Provide technical support and information to the EOC / ICP.

- 11) Radiological Assessment Coordinator
  - Manage and direct the radiological activities of the Offsite RP personnel.
  - Coordinate activities with the external agency field monitoring teams.
  - Coordinate the comparison and exchange of dose assessment results with offsite agency personnel.
  - Assist with emergency classification.
  - Monitor, evaluate and communicate conditions involving any release of radioactivity.
  - Oversee the performance and evaluate the results of dose projection activities.
  - Perform dose assessment.
  - Oversee the performance and evaluate the results of Offsite Monitoring Team (OMT) activities.
  - Provide support and logistics for site evacuation activities.
  - Evaluate the need for and ensure proper use of KI.
  - Evaluate conditions and determine recommendations for PARs.
  - Ensure proper emergency exposure controls are taken for personnel.
  - Provide assistance to state and federal agencies for ingestion pathway radiological activities.
  - Provide input for facility briefs and updates.
- 12) HPN Communicator
  - Provide event data and plant information to the NRC via the HPN.
  - Monitor assigned communication line and provide key information to facility staff.
- 13) Dose Assessor
  - Monitor, evaluate and communicate conditions involving any release of radioactivity.
  - Perform dose assessment.
  - Evaluate conditions and determine recommendations for PARs.
- 14) Offsite Monitoring Team Coordinator
  - Direct and track Offsite Monitoring Team activities.
  - Coordinate activities with the external agency field monitoring teams.
  - Establish and maintain OMT communications.
  - Maintain and update the radiological status displays.
  - Coordinate the receipt, analysis, storage and transfer of field monitoring samples.

- Record and report field monitoring survey, sample and exposure information.
- 15) Offsite Monitoring Teams
    - Establish and maintain OMT communications.
    - Perform equipment checks and inventories in preparation of deployment.
    - Track radiological plumes.
    - Perform and report results of radiation surveys and environmental sampling.
    - Coordinate the receipt, analysis, storage and transfer of field monitoring samples.
    - Communicate exposure status to the OMT Coordinator.
  - 16) State/Local Communicator
    - Perform offsite emergency notifications to state and local authorities.
  - 17) EIS Operator
    - Collect and input data and maintain EIS displays.

#### 5.6.3 Public Information ERO (JIC Staff)

- 1) JIC Manager
  - Activate the Facility.
  - Manage the operation of the facility.
  - Assist offsite agency personnel responding to the facility.
  - Coordinate integration of the NRC Site Team.
  - Provide liaison to the NRC Site Team.
  - Arrange for support for Emergency Alert System (EAS) information.
  - Ensure flow of information within and between the emergency response facilities.
  - Interface with offsite agency Public Information Officers (PIOs) to coordinate overall information flow to the media and public.
  - Coordinate facilitation of the media briefing schedule.
  - Ensure news media briefings are held regularly during the course of the emergency.
  - Oversee conduct of media briefings.
  - Integrate ERO activities with the Incident Command Post (ICP) response activities
  - Assist in the development of recovery plans.
  - Conduct facility briefs and updates.

- Participate in the Inter-Facility Briefing to communicate and obtain event and response information.
- 2) Company Spokesperson
- Establish periodic contact with the communications personnel in the corporate office.
  - Interface with offsite agency PIOs to coordinate overall information flow to the media and public.
  - Provide interviews to the media.
  - Serve as Company Spokesperson during press conferences at the JIC.
  - Participate in the Inter-Facility Briefing to communicate and obtain event and response information.
  - Provide input for facility briefs and updates.
- 3) JIC Admin / Logistics Coordinator
- Manage the administrative support staff.
  - Develop ERO shift relief rosters for the facility.
  - Arrange for logistics support.
  - Oversee set-up and testing of JIC equipment.
  - Maintain access control to the JIC.
  - Provide input for facility briefs and updates.
  - Oversee collection of technical data and station activities for drafting Media Statements and answering JIC questions.
  - Coordinate preparation, review and distribution of Media Statements.
  - Obtain ED approval for the technical content of Media Statements.
  - Keep JIC staff informed of plant status and EXELON emergency response activities.
- 4) News Writer
- Prepare draft Media Statements.
  - Develop public information materials (bulletins, backgrounders and chronologies).
- 5) JIC Technical Advisor
- Provide technical expertise to the JIC staff.
  - Assist the News Writer with development of technically accurate media statements.
  - Provide answers to technical questions from the news media regarding the emergency situation.

- Periodically monitor EOF/TSC briefings and Technical Information Line to obtain information.
  - Provide technical information support to the Company Spokesperson.
  - Monitor event information on the facility display systems.
  - Provide input for facility briefs and updates.
- 6) Media Liaison
- Ensures media is informed of protocol and schedules established for media briefings.
  - Coordinate preparations for media briefings.
  - Distribute media statements to the media in the media briefing area.
  - Coordinate media relations in JIC and update media between press conferences.
  - Coordinate special interviews and facility tours for the media.
  - Coordinate JIC briefing area preparation and establish briefing protocol.
- 7) JIC Administrative Staff
- Assist in badging and direction of members of the media to proper work locations.
  - Perform administrative and logistic support functions for facility personnel.
  - Distribute media materials to the press.
- 8) Media Monitoring / Rumor Control Coordinator
- Supervise media monitoring and Inquiry Phone Team personnel.
  - Review Media Monitoring team information for trends, misinformation and rumors.
  - Review Phone Team information for trends, misinformation and rumors.
  - Ensure adequate staff is available to perform media monitoring and phone team functions.
  - Provide input for facility briefs and updates.
- 9) Inquiry Phone Team
- Respond to and log phone inquiries from the media and the public.
  - Monitor telephone lines for trends, misinformation and rumors.
- 10) Media Monitoring Team
- Monitor media coverage of the event for trends
- 11) JIC Security
- Provide badging and access controls for the facility.

## 12) JIC EIS Operator

- Collect and input data and maintain EIS displays.

In addition to the position specific responsibilities listed above all ERO members have the following general responsibilities:

- Perform position turnover for protracted events
- Respond as directed when notified of a declared event
- Maintain personal event logs and records in support of the after action report
- Restore area and materials upon event termination
- Apply fundamental ERO knowledge in the performance of your ERO duties
- Properly use ERO procedures and checklists in the performance of your ERO duties
- Acquire & maintain qualification in your assigned ERO position
- Apply human performance error reduction techniques in the performance of you ERO duties

### 5.7 Emergency Response Organization Block Diagram

Figures 5.2 through 5.6 show the reporting chains and interfaces of the ERO.

### 5.8 Corporate Emergency Response Organization

In the event of a declared emergency at one of EXELON's Nuclear Stations, a Corporate Duty Officer is notified. The Duty Officer will notify senior company management personnel of the event. The Emergency Director will keep senior management informed of events and any need for assistance.

Specific departments of the company may be called on to assist as necessary to provide support for logistics, public information, finance, technical issues, etc.. Senior management may assist with interfacing government authorities and other outside organizations.

### 5.9 Industry/Private Support Organizations

EXELON retains contractors to provide supporting services to the company's nuclear generating stations. For station specific support, copies of current contracts and letters of agreement with these groups are maintained by the Emergency Planning Department.

Current contracts and letters of agreement are maintained in the Emergency Planning Department's files.

- a. Support from Other Nuclear Power Plants: The Nine Mile Point Nuclear Station is a co-signator to a Letter of Agreement (see Appendix A) between the James A. Fitzpatrick Nuclear Power Plant, R. E. Ginna Power Station and the NMPNS. In the event of a radiological emergency or other situations resulting in the need for additional equipment and/or personnel assistance, these plants have agreed to provide assistance as requested.
- b. Institute of Nuclear Power Operations (INPO): One of the roles of the Institute of Nuclear Power Operations (INPO) is to assist affected utilities by quickly applying the resources of the nuclear industry to meet the needs of an emergency. INPO has an emergency response plan that enables it to provide the following emergency support functions:



- Assistance to the affected utility in locating sources of emergency personnel, equipment and operational analysis.
- INPO, Electric Power Research Institute (EPRI) and Nuclear Energy Institute (NEI) maintain a coordination agreement on emergency information with their member utilities.
- INPO provides the "Nuclear Network", or its replacement, electronic communications system to its members, participants, NEI, and EPRI to coordinate the flow of media and technical information about the emergency.
- Stations may obtain utility industry information and assistance from any party to this agreement through the coordination of INPO.

To support these functions, INPO maintains the following emergency support capabilities:

- A dedicated emergency call number.
- Designated INPO representative(s) who can be quickly dispatched to the utility emergency response organization to coordinate INPO support activities and information flow.
- The 24-hour per day operation of an Emergency Response Center at INPO headquarters.

Stations will notify INPO (via the designated emergency call number) for all situations involving an Alert, Site Area Emergency, or General Emergency declaration.

- c. American Nuclear Insurers (ANI): In early 1982, ANI issued Bulletin #5B (1981) "Accident Notification Procedures for Liability Insurers" which provides revised criteria for the notification of the Pools in the event of a nuclear emergency at one of the liability insured nuclear power reactor sites. This revision brings the ANI/MAELU (Mutual Atomic Energy Liability Underwriters) notification criteria into alignment with the standard emergency classification system adopted by the nuclear industry. This document also identifies a suitable channel for follow-up communication by ANI after initial notification.
- ANI/MAELU Emergency Assistance: In the event of an extraordinary nuclear occurrence (as defined in the Price-Anderson Law) ANI and MAELU (the insurance pools) have plans prepared to provide prompt emergency funding to affected members of the public.
  - ANI/MAELU Emergency Assistance (Claims Handling Procedures): The pools' emergency assistance arrangements contemplate the mobilization and dispatch of emergency claims teams to directly dispense emergency assistance funds to affected members of the public.

The pools should be notified in the event of a nuclear emergency requiring notification of State or Federal governmental agencies, or if the insured believes that offsite persons may be affected and financial assistance of a nature discussed may be required. In these instances, ANI expects notification as soon as possible after the initiation of the emergency.

Even if it appears to be remote that offsite persons will be affected, the pools should be notified in order that response plans can be initiated to the point of alerting teams of adjusters to stand by. Response activity can be discontinued if it proves less severe and does not require pool response.

- Emergency Notification and Follow-up Procedures: Pre-established lines of communication exist between each utility and ANI in order to exchange all required information during a developing emergency situation.

ANI maintains 24-hour coverage of an emergency notification number. During normal office hours (8:00 am - 4:00 pm) their number will be answered by the receptionist who will transfer an incoming emergency call to an appropriate individual in the office. Outside of normal office hours, this telephone line is covered by an answering service. The answering service will intercept the call and obtain the name, affiliation and telephone number of the caller. They will then notify a designated ANI staff member who will in turn call back the utility to obtain appropriate information regarding the nuclear accident.

#### 5.10 Supplemental Emergency Assistance to the ERO

Agreements are maintained (for each nuclear station) with outside support agencies who do not take part in the organizational control of the emergency that provide assistance when called on during an emergency, including a Hostile Action Based event, or during the recovery phase. These agreements identify the emergency measures to be provided, the mutually accepted criteria for implementation, and the arrangements for exchange of information. These support agencies provide services of:

- a. Law enforcement;
- b. Fire protection;
- c. Ambulance services;
- d. Medical and hospital support

Support groups providing transportation and treatment of injured station personnel are described in Appendix A of this plan.

Copies of current contracts and letters of agreement with these groups are maintained by the Emergency Planning Department.

#### 5.11 COORDINATION WITH PARTICIPATING GOVERNMENT AGENCIES

(NUREG 0654 II.A.1.a, b, II.A.4)

##### 5.11.1 Federal Agencies (NUREG 0654 II.C.1.b, c)

The principal Federal government agencies having emergency responsibilities relative to the NMPNS, and a summary of those responsibilities, are:

- a. U.S. Nuclear Regulatory Commission (NRC)

The NRC will respond to requests for assistance from NMPNS. The NRC Incident Response Plan (NUREG-0845) describes the functions of the NRC during an incident and the kinds of actions that comprise an NRC response. The primary method of

notification to NRC is by the NRC Emergency Notification System (ENS) hotline to the Bethesda, MD. Headquarters Operations Center. A secondary method is by commercial telephone. Expected arrival time for the NRC is approximately five (5) hours from notification.

b. U.S. Department of Energy (DOE)

The DOE, Brookhaven Area Office, will respond to requests from NMPNS for assistance. This assistance is limited to advice and emergency action(s) essential for the control of the immediate hazards to public health and safety.

The primary method of notification to DOE is by commercial telephone. Notification may also be made through NRC. Assistance can be requested by the NMPNS ED/RM, the Oswego County Emergency Management Director or the Commissioner of the New York State Department of Health. Medical Assistance provided by DOE could also include medical assistance by the Radiation Emergency Assistance Center/Training Site (REAC/TS) Support from Oak Ridge.

When notified of an emergency the FRMAP team would request a Coast Guard helicopter pick up a six person team at Brookhaven and fly them to the Nine Mile Point area with their equipment. Approximate arrival time of five (5) hours from notification is expected. This team would provide initial radiation surveys, obtain airborne samples and analyze these samples with the equipment available. The team would also act as an advance party to establish an initial base of operations for follow-on personnel. A possible location for the FRMAP team to set up operations is the Oswego County Airport, which is about ten (10) miles from the NMPNS and in close proximity to the Emergency Response Facilities yet still outside of the 10 mile EPZ. Use of this airport facility would also allow for equipment to be flown in on fixed wing aircraft close to the facilities that would be used for staging and dispatch.

c. Federal Energy Regulatory Commission (FERC)

Two (2) licensed hydroelectric developments are situated within a ten (10) mile radius of the Nine Mile Point Nuclear Station and the James A. Fitzpatrick Nuclear Power Plant. The Minetto and Varick Hydroelectric Stations are part of Project Number 2474 licensed with the Federal Energy Regulatory Commission. A plan has been developed to implement a response plan to safely shutdown and evacuate these hydroelectric facilities. This would be done in the event of a radiological emergency at either nuclear station. In addition, this plan addresses the means to minimize the impact to the public as a result of this emergency shutdown of the hydroelectric stations.

5.11.2 State and Local Agencies (NUREG 0654 II.F.1.a)

This section identifies the principal State and local government agencies having action responsibilities in the event of a radiological emergency, including a Hostile Action Based

event, in the vicinity of the NMPNS. The radiological emergency response plans of these agencies: describe their respective responsibilities, authorities, capabilities and emergency functions; contain provisions for preparedness and response to radiological emergencies by each organization; and contain the primary and alternate methods of emergency notifications.

a. New York State Office of Emergency Management (NYSOEM)

The NYSOEM is the lead government agency for off-site coordination and response at the State level. The New York State Radiological Emergency Preparedness Plan contains provisions for:

- Planning and coordination with local, State and Federal authorities
- Initial response to notification by NMPNS
- Alert and warning of local political subdivisions
- Evacuation and other protective measures for local populations
- Emergency services
- Situational analysis

The NYS plan also contains emergency procedures to notify the local organizations which have action and/or support responsibilities under that plan.

b. Oswego County Emergency Management Office (OCEMO)

The OCEMO is the lead government agency for coordination and response at the local level. The Oswego County Radiological Emergency Preparedness Plan contains provisions for:

- Planning and coordination with local, State and Federal authorities
- Initial response to notification by NMPNS
- Alert and warning of local political subdivision
- Notification of other emergency response personnel
- Public information concerning the incident
- Evacuation and other protective measures for local populations

Normally the OCEMO is notified by NMPNS via the County Warning Point. It may, however, be notified by the NYSOEM. A secondary method of notification is via radio from the NMPNS to the County EOC or County Warning Point.

Figure 5.1: Minimum Staffing Requirements for the ERO

Functional Area	Major Tasks	Emergency Positions	Minimum Staff (1)	Full Augmentation
1. Plant Ops and Assessment	Control Room Staff	Shift Manager (Shift)	1*	
		Senior Reactor Operator (SRO) (Shift)	1*	
		Reactor Operator (RO) (Shift)	2*	
		Equipment Operator (EO) (Shift)	2*	
		RP Technician (Shift)	1*	
2. Emergency Direction and Control	Command and Control	Chemistry Technician (Shift)	1*	
		Shift Manager (Shift)	See above	
	Emergency Director (EOF)	1		
	TSC Manager (TSC)	1		
Facility Control	TSC Director (TSC)	1		
	EOF Manager (EOF)	1		
3. Notification & Comm.	Emergency Communications	Shift Communicator (Shift)	1*	
		State/Local Communicator (EOF)	1	
		ENS Communicator (TSC)	1	1
		HPN Communicator (EOF)		
	Plant Status & Technical Activities	All ERFs: Operations Communicators (one for TSC, EOF, OSC and each CR)		5
		EIS Operators (all facilities)		4 (Note 2)
	In-Plant Team Control	Team Tracker (OSC)		1
	Governmental	Offsite Agency Coordinator (EOF)		1
State Liaison (EOF)			1	
County Liaison (EOF)			1	
Incident Command Post Liaison			(Note 8)	

Functional Area	Major Tasks	Emergency Positions	Minimum Staff (1)	Full Augmentation
4. Radiological Assessment	Offsite Dose Assessment	Dose Assessor (EOF)		2
	Offsite Surveys	Offsite Monitoring Team Coordinator (EOF) Offsite Monitoring Team (EOF)	4	1
	Onsite Surveys	RP Technician (OSC)	2	
	In-plant Surveys	RP Technician (OSC)	2	
	Chemistry	Chemistry Technician (OSC)	1	1
	RP Supervisory	Radiation Protection Director (TSC) Radiological Assessment Coordinator (EOF)	1 1	
5. Plant System Engineering, Repair, and Corrective Actions	Technical Support / Accident Analysis	Shift Technical Advisor (Shift) Engineering Director (TSC) Electrical Engineer (TSC) Mechanical Engineer (TSC) Reactor Engineer (TSC) Operations Director (TSC) Technical Advisor (EOF) TSC Technical Staff	1*  1 1 1 1 1 1	1       Note 3
	Repair and Corrective Actions	Maintenance Director (TSC) OSC Manager (OSC) OSC Team Coordinator (OSC) Electrical Technicians (OSC) Mechanical Technicians (OSC) I&C Technicians (OSC)  Operations Personnel (OSC) Leads (Ops, Elec, Main, I&C, & RP)	 1 1 2 2 2   2	1   Note 3 Note 3 Note 3  Note 3 5 (Note 4)
6. In-Plant Protective Actions	Radiation Protection	RP Technician (OSC)	4	
7. Fire Fighting	--	Fire Brigade (Shift)	Note 5	

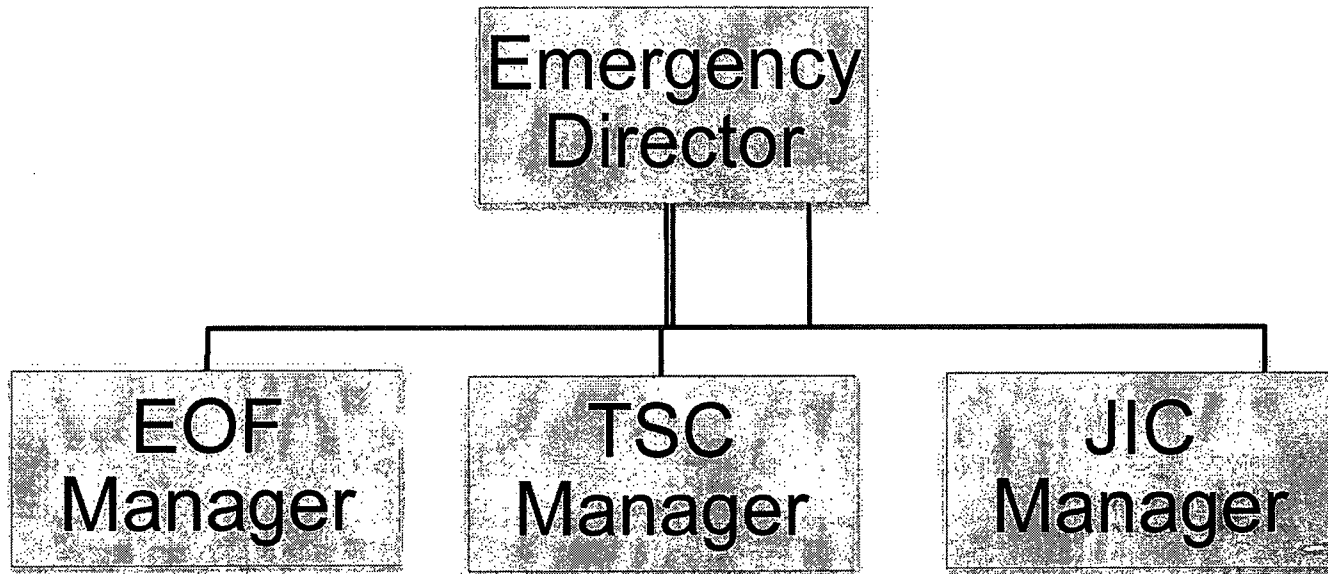
Functional Area	Major Tasks	Emergency Positions	Minimum Staff (1)	Full Augmentation
8. First Aid / Rescue	--	First Aid provided by trained Shift Personnel Rescue support provided by shift personnel or OSC personnel.		
9. Site Access Control	Security & Accountability	Security Shift Supervisor (Shift) Security Personnel Security Director (TSC)	Note 6	1
10. Resource Allocation and Admin Support	Logistics	Admin / Logistics Coordinator (EOF) Admin / Logistics Coordinator (JIC)	1	1
	Administration	Administrative Staff (TSC) Administrative Staff (OSC) Administrative Staff (EOF) Administrative Staff (JIC)		2 1 2 (Note 7) 2 (Note 7)
	Facility Operations	IT Specialist (TSC / OSC) IT Specialist (EOF / JIC)		1 1
11. Public Information	Media Interface	Company Spokesperson (JIC) Media Liaison (JIC)	1	1
	Information Development	News Writer (JIC) Technical Advisor (JIC)	1	1
	Media Monitoring and Rumor Control	MM/RC Coordinator (JIC) Inquiry Phone Team (JIC) Media Monitoring Team (JIC)	1	2 (Note 3) 2 (Note 3)
	Facility Operation and Control	JIC Manager (JIC) JIC Security (JIC)	1	1
<b>TOTALS:</b>			<b>Shift staff: 10 Augmented Min Staff: 40</b>	<b>513</b>

Notes:

- (1) Provided by On-Shift personnel, denoted by an asterisk.
- (2) IT Specialist may perform EIS Operator duties.
- (3) Personnel numbers depend on the type and extent of the emergency.
- (4) Craft Lead positions can be filled by senior technicians or craft supervisors.
- (5) Fire Brigade per FSAR/Technical Specifications, as applicable. May be a collateral duty.
- (6) Per Station Security Plan.
- (7) EOF/JIC or TSC/OSC may share Administrative Staffs
- (8) Up to 3 Incident Command Post (ICP) Liaisons may be called based on event when a near site ICP is established.



Figure 5.2: ERO Management Structure



**Offsite ERO**

Interface with Offsite Response Organizations (Federal, State and Local) to coordinate Protective Actions for the public

**Onsite ERO**

Onsite (OCA) Protective Response and Mitigative Actions.

**Public Information ERO**

Provides information to the Public through the News Media, addresses phone inquiries, conducts Rumor Control operations.

Figure 5.3: TSC Staffing

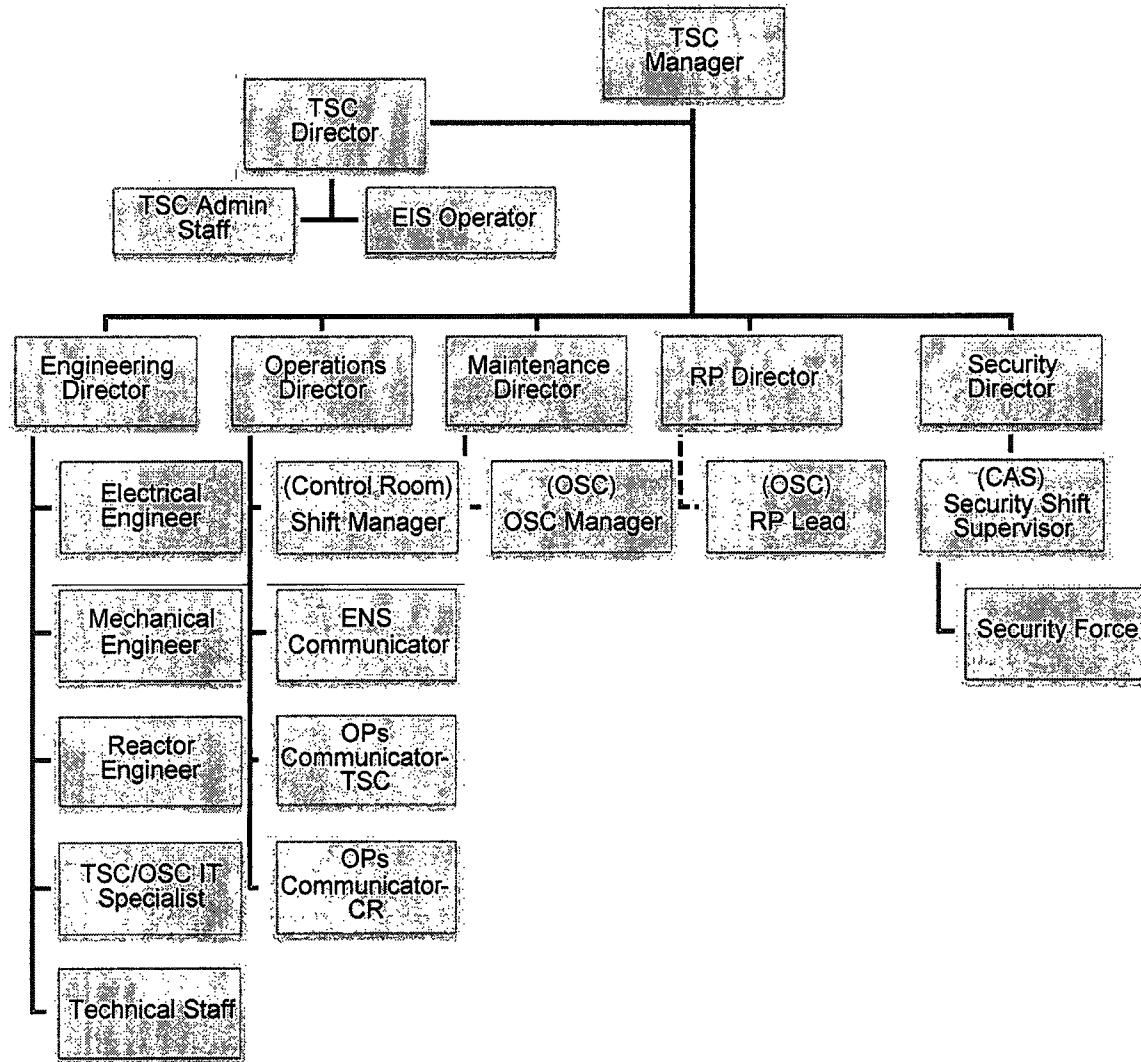


Figure 5.4: OSC Staffing

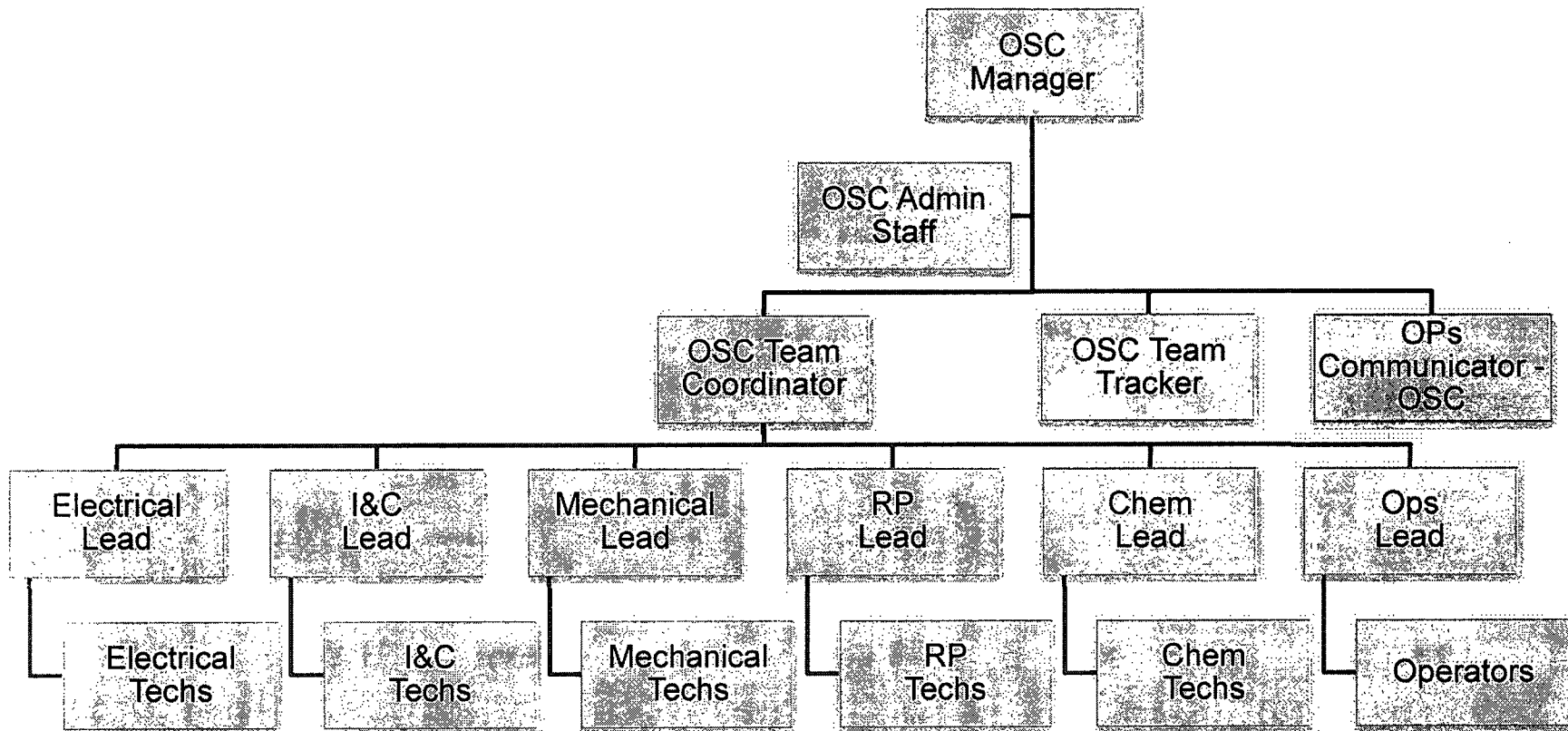


Figure 5.5 EOF Staffing

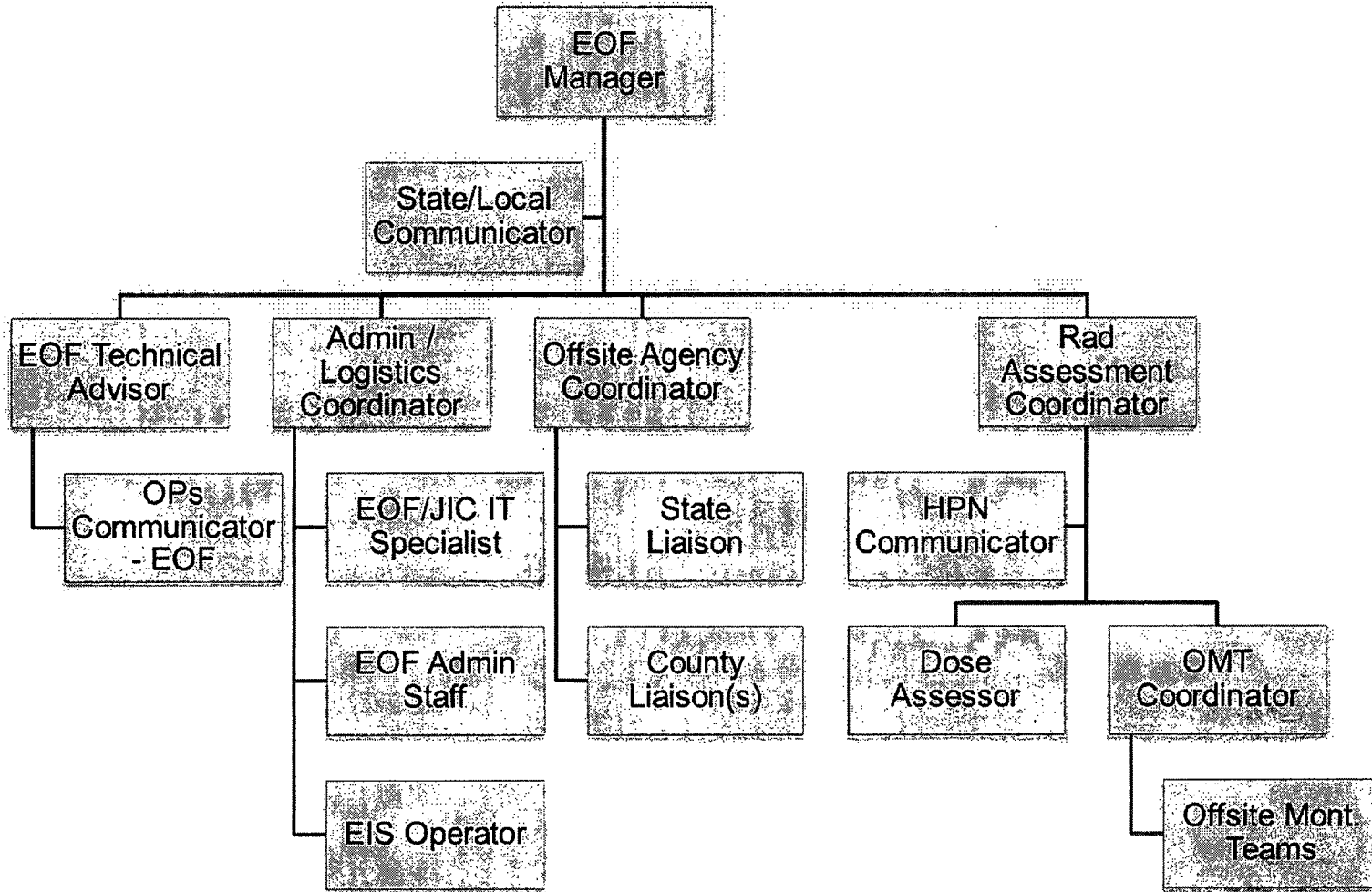
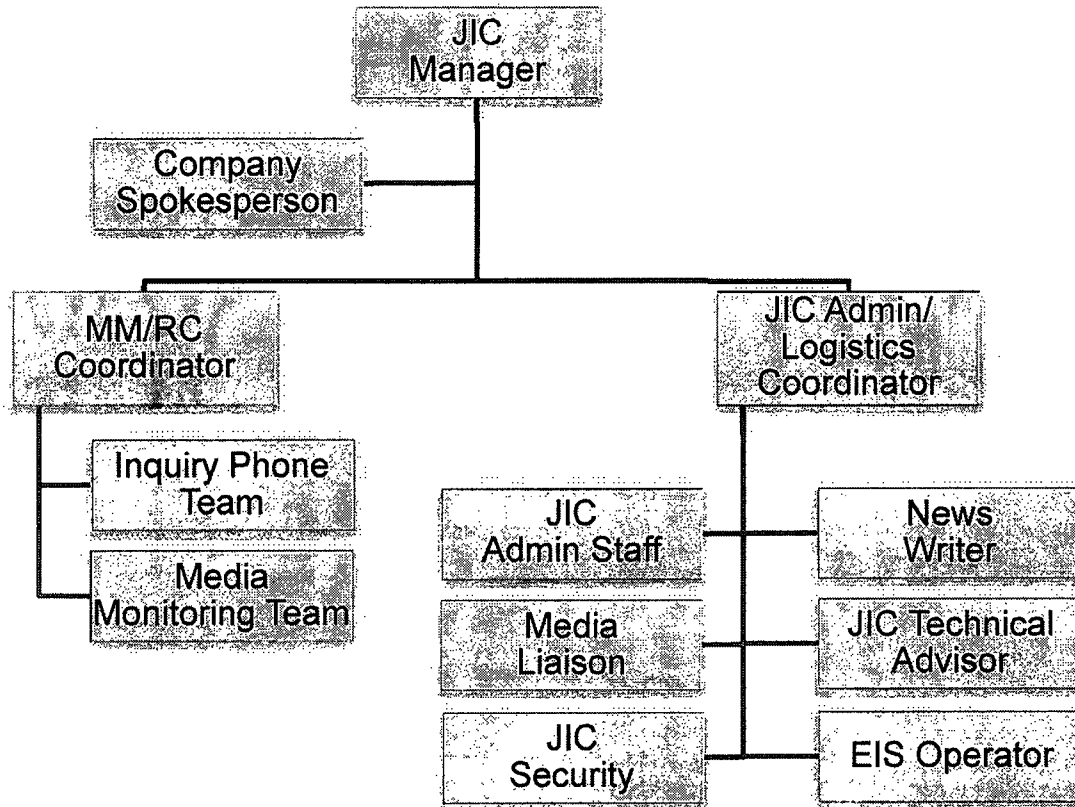


Figure 5.6 JIC Staffing



## 6.0 EMERGENCY MEASURES

Emergency Measures are actions taken to ensure that an emergency situation is assessed and that proper corrective and/or protective actions are taken. These actions include activation of the appropriate components of the emergency organizations, both on-site and off-site; assessment of plant systems status and radiological conditions; corrective actions to mitigate or terminate an emergency situation; protective actions to minimize the consequences of the emergency to Station personnel and to the general public in the Station environs; decontamination and medical treatment for Station personnel; and other supporting actions such as timely and accurate emergency news releases to the public media.

This section describes the emergency measures which may be performed and applicable criteria, guidelines and methodology for performing those measures.

### 6.1 INITIATION OF EMERGENCY ACTIONS

Emergency actions are initiated primarily in response to alarmed instrumentation, but may be initiated through notification to the Control Rooms by individual(s) at the Nine Mile Point Nuclear Station who become aware of an apparent emergency situation or by persons outside of the plant in the case of severe weather warnings or hostile actions. The affected unit Control Room Operator (CRO) performs the necessary immediate actions to contend with the off-normal situation in accordance with instrument alarm response procedures (which are contained in the Operating Procedures), Special Operating Procedures, Emergency Operating Procedures and/or other appropriate procedures. The CRO promptly notifies the affected unit SM of the potential emergency situation. This SM assesses the situation and, if necessary, declares the emergency.

As delineated in Section 4.1 of this Emergency Plan, NMPNS maintains the capability to assess, classify and declare an emergency within 15 minutes after the availability of indications to plant operators that an Emergency Action Level (EAL) has been exceeded.

The affected unit SM assumes the role of NMPNS SM/ED until relieved of that responsibility by the Emergency Director in the EOF. In the event of an emergency declaration due to an initiating condition affecting both Unit 1 and Unit 2, both Units' SMs will confer and determine:

- The Unit with the higher emergency classification will become the SM/ED.
- If emergency classification levels are equal, the SM first notified will become the SM/ED.
- If there is any question as to who should initiate the Site Emergency Plan, the Unit 1 SM shall assume the SM/ED duties.

The SM/ED continues to assess and classify the condition and initiates the appropriate corrective and protective actions and ensures activation of the necessary segments of the total emergency organization.

The Operating Procedures contain appropriate action statements which refer the operator to the Emergency Plan Implementing Procedures when specified plant parameter values are exceeded or equipment status warrants such response. Severe Accident Procedure (SAP) entry conditions are defined in the station Emergency Operating Procedures. The Emergency Director, in consultation with the TSC Manager, determines when SAP entry is required.

## 6.2 ACTIVATION OF EMERGENCY ORGANIZATION

This section describes the provisions for notifying and/or activating groups and organizations within the emergency organization in response to potential or actual emergency events at the station. Procedures for notifying, alerting and mobilizing emergency response organizations, including message authentication, are contained in procedure CNG-EP-1.01-1015, Emergency Notifications. Figure 6.1 summarizes the notification/activation of both the onsite and the offsite emergency organization and designates potential action requirements for each emergency classification. A diagram identifying the major emergency facilities and their interfaces during various stages is shown in Figures 6.2 and 6.3.

### 6.2.1 Offsite Notification and Followup Messages (NUREG 0654 II.E.1, II.E.3, II.E.4.a-n, II.F.1.a, II.F.1.d)

The contents of initial emergency notification messages which would be sent from the affected unit to New York State and Oswego County is contained in CNG-EP-1.01-1015. Notification Fact Sheets were developed in conjunction with New York State and Oswego County, and serve as the means of initial emergency notification. The contents of the Notification Fact Sheets are consistent with the guidance outlined in Section II.E of NUREG-0654. As a minimum, the following information is provided:

- o Facility name, communicator name and call back telephone number
- o Date/time of incident
- o Class of emergency
- o Brief description of event
- o Radioactive material release information
- o Protective action recommendations
- o Event prognosis
- o Meteorological information

Follow-up notifications are made at regular intervals as detailed in CNG-EP-1.01-1015 and contain information consistent with the guidance detailed in Section II.E of NUREG-0654. As a minimum the follow-up information contains the above information and the following:

- o Actual or projected dose rates and projected integrated dose rates at site boundary
- o Projected dose rates and integrated dose at projected peak and at 2, 5 and 10 miles
- o Surface contamination estimates

A mutual agreement has been reached between New York State Licensees and New York State excluding event prognosis information from initial notification messages.

## 6.2.2 Offsite Emergency Organization

- a. Offsite Authorities  
(NUREG 0654 II.C.1.a, II.C.2.b, II.E.2, II.E.6, II.E.7, II.F.1.a, II.F.1.e)

The Emergency Director ensures that offsite authorities are notified and apprised of potential or actual emergency events at the NMPNS. Notifications are made to the Oswego County and New York State Warning Points using methods described in CNG-EP-1.01-1015. Notification to these authorities of an Unusual Event, an Alert, a Site Area Emergency or a General Emergency commences within 15 minutes following the declaration of an emergency classification. A representative from NMPNS may be sent to the State Emergency Operations Center (SEOC) and to the Oswego County Emergency Operations Center (OCEOC) for a Site Area or General Emergency when the SEOC and the OCEOC, respectively, is fully activated. These representatives aid and assist the New York State Disaster Preparedness Commissioner and the Chairman of the Oswego County Legislature, or their representatives, in defining the extent of the emergency and mitigating measures being taken.

Backup radiological emergency assistance may be provided by the U.S. Department of Energy in Brookhaven, N.Y. Notifications for assistance may be made by the NMPNS Emergency Director, by the Oswego County Emergency Management Director or by the New York State Commissioner of Health.

## 6.2.3 On-Site Notification and Organization (NUREG 0654 II.C.1a, II.E.1, II.E.2, II.F.1.a, II.F.1.d, II.F.1.e)

- a. Notification of NMPNS personnel takes place through the following methods:
- 1) PA System (GAItronics). This system is capable of sending voice messages and signals indicating a fire, station alarm, or evacuation alarm to all areas within the protected area. It is used to alert personnel onsite of emergency conditions.
  - 2) Telephone. The telephone can be used to contact any needed personnel during emergency conditions.

CNG-EP-1.01-1015 contains the implementing procedures for making appropriate notifications.



- b. Upon being informed of a potential or actual emergency condition, the affected unit SM immediately assesses the condition. The SM ensures that appropriate actions have been initiated to maintain the safe and proper operation of the plant. This SM then classifies the condition as an Unusual Event, Alert, Site Area Emergency or General Emergency. If the event is classified as an emergency (as defined in CNG-EP-1.01-1013) that requires implementation of this Plan, the SM assumes the role of SM/ED and takes the following actions:
- 1) Implement immediate actions in accordance with this Plan and the applicable Emergency Plan Implementing Procedures.
  - 2) Ensure that on-site emergency response individuals and groups are notified (and off-site groups, if conditions require), using the PA system and/or direct communications.
  - 3) Notify on-site individuals to implement a Local Area/Building, Protected Area or Exclusion Area Evacuation, if appropriate, which may include accountability. These notifications are made by sounding the appropriate alarm followed by an announcement of supplementary information over the PA system. Notification is also made to the JAFNPP Control Room (who then activates their notification system).
  - 4) May notify the Plant General Manager or their designated alternate to apprise them of the situation. Because of the probable short duration and/or low severity of the condition, the role of Emergency Director is likely to remain with the SM through termination of Unusual Event classifications.
  - 5) Ensure that off-duty station personnel are notified to provide assistance with emergency activities as necessary. This notification process is described in CNG-EP-1.01-1015. Off-duty personnel are called in as required.
  - 6) Notify appropriate TSC, OSC and EOF personnel if the condition is classified as an Alert or higher.

### 6.3 ASSESSMENT ACTIONS (NUREG 0654 II.D.1, II.D.2)

Provisions are made for assessment and continuing re-assessment throughout the course of an emergency to ensure the effective coordination, direction and upgrading of emergency activities in a timely manner. The assessment actions are described in detail in the Emergency Plan Implementing Procedures.

### 6.3.1 Unusual Event

The purpose of the Unusual Event classification is to provide early warning of minor events which could lead to more serious consequences. The Unusual Event conditions represent potential degradation of the level of safety of the plant or indicate a security threat to facility protection. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs. Declaring an Unusual Event assures that the first step for any response later found to be needed, has been carried out by bringing onsite staff and offsite organizations to a state of readiness, thus providing a system for handling information and decision making.

The NRC, State, and Oswego County authorities will be promptly notified to assure that the first step of any necessary response can quickly be initiated. Offsite organizations will standby for further information or termination. On-shift resources can be augmented to assess and respond as needed.

### 6.3.2 Alert

Events of the Alert classification involve actual or potential degradation of the level of safety of the plant or a security event that involves probable life threatening risk to site personnel or damage to site equipment because of intentional malicious dedicated efforts of a hostile act. Any radioactivity released would result in exposures of only a small fraction of the guidelines for required offsite action. By assuring that emergency personnel are available, protective actions, such as performing confirmatory radiation monitoring and providing offsite authorities with current status information, will be ensured.

For events which fall into the Alert classification, the Emergency Response Organization will promptly notify the NRC, State and County authorities of the Alert Classification and the reasons for the classification. The TSC and EOF will be staffed to assist in the assessment of the incident and determination of proper responses. Periodic plant status updates will be given to offsite authorities who will also be advised of any change in the classification of the event.

Non-essential personnel will normally be evacuated from the protected area (provided it is safe) to designated locations outside of the protected area at this level. All ERO personnel will assemble at their designated emergency facilities, and accountability may also be initiated. This ensures that:

- Appropriate staff is available to mitigate the event,
- The potential to over-expose non-essential personnel is minimized,
- Non-essential personnel are prepared for possible exclusion area evacuation by pre-staging these personnel outside of the protected area.

The JIC will be staffed in order to coordinate public information activities warranted by the emergency. Offsite agencies may activate their resources and facilities and may alert other emergency personnel, such as monitoring teams, communication centers, the Emergency

Alert System (EAS), and law enforcement. They will be ready to escalate to a more severe classification, if appropriate.

### 6.3.3 Site Area Emergency

A Site Area Emergency (SAE) is declared when events are in progress or have occurred which involve actual or likely major failures of plant functions needed for the protection of the public or security events that result in intentional damage or malicious acts; (1) toward site personnel or equipment that could lead to the likely failure of or; (2) prevents effective access to equipment needed for the protection of the public. Any releases are not expected to exceed EPA Protective Action Guideline exposure levels except near the site boundary.

In the event that a SAE is declared, the actions to be taken by various plant groups are detailed in the implementing procedures for the plant. The Emergency Response Organization will make the initial notification to the County authorities, State, and NRC.

The purpose of declaring a SAE is to assure that non-essential personnel are protected in the event of a release of radioactive materials. Should a release be anticipated or in progress, non-essential personnel will normally be directed to evacuate to the either the Offsite Assembly Area (provided it is safe) for monitoring and if necessary decontamination, or home if there was no release of contamination from the station. If no release is anticipated or in progress, non-essential personnel will normally remain at designated locations within the exclusion area, to permit more rapid return of personnel to normal duties. Accountability of personnel remaining within the protected area, as a minimum will commence at this level, and continues until event termination or de-escalation. Also, offsite agency authorities will be available at primary response centers for consultation and updates on the situation, and to provide information to the public.

For events which fall into the SAE classification, the County, State, and NRC will be promptly notified of the SAE classification, and the reasons for the SAE classification. The TSC and EOF will be staffed to assist in the assessment of the incident and determination of proper responses. Periodic plant status updates will be given to offsite authorities who will also be advised of any change in the classification of the event.

The JIC will be staffed in order to coordinate public information activities warranted by the emergency.

Offsite agencies may activate their resources and facilities and may alert other emergency personnel, such as monitoring teams, communication centers, EAS, and law enforcement. They will be ready to escalate to a more severe classification, if appropriate.

#### 6.3.4 General Emergency

A General Emergency (GE) is declared when events are in progress or have occurred which involve actual or imminent substantial core damage or melting with potential loss of containment integrity or security events that result in an actual loss of physical control of the facility. Releases of radioactive material can be expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area.

In the event that a GE is declared, the actions to be taken by the various plant groups are detailed in the implementing procedures for the plant. The Emergency Response Organization will make the initial notification to the County authorities, State, and NRC. Initial notification of a GE shall contain initial Protective Action Recommendations. The purposes for declaring the GE are:

- To initiate protective actions for the public and site personnel as predetermined by projected, or by actual releases.
- To provide continuous assessment of information from the affected unit.
- To provide for consultation with offsite authorities.
- To keep the public informed through the JIC.
- To evacuate non-essential personnel from the exclusion area (provided it is safe) to either the Offsite Assembly Area (OAA) for monitoring and if necessary decontamination, or home if there has been no release of contamination from the station.

The TSC and EOF will be staffed to assist in the assessment of the incident and proper determination of responses. Periodic plant status updates will be given to offsite authorities who will also be advised of any change in the classification of the incident. The JIC will be staffed in order to coordinate public information activities warranted by the emergency. Offsite agencies will activate all needed resources and facilities.

#### 6.4 ASSESSMENT CAPABILITIES (NUREG 0654 II.I.8, II.I.10)

##### 6.4.1 Field Radiological Assessment (NUREG 0654 II.H.12, II.I.7)

Field radiological data is collected by onsite and offsite survey teams. The teams may be deployed for any emergency classification involving projected or actual releases of radioactive materials. The survey teams use emergency/company vehicles (or personal vehicles, if needed) for transportation and maintain contact with the EOF or TSC.

Downwind Survey equipment is maintained for emergency use by onsite and offsite survey teams. This equipment includes portable instrumentation for performing direct radiation surveys, performing contamination surveys and collecting and analyzing airborne samples for gross and iodine radioactivity.

Rapid assessment of any radiological hazards resulting from the gaseous effluents are made in the field using the environmental samples taken. Radiation Protection Procedures will be used to implement the required radiological surveys/samples and analyze of the results of these surveys/samples taken from within the NMPNS. Procedure CNG-EP-1.01-1012, NMP Offsite Monitoring Team Guidance, will be used to analyze the offsite survey and sample results to provide an initial estimate of the offsite radiological consequences.

Rapid field assessment of liquid samples is not considered essential because the nearest drinking water supply is far enough away to provide ample time for warning the appropriate State and local authorities in the event protective measures are required. When field liquid samples are required, they will be taken and transported back to the appropriate facility for assessment.

#### 6.4.2 Field Airborne Radioiodine Assessment (NUREG 0654 II.H.12, II.I.7, II.I.9)

Monitoring for radioiodine is accomplished by the use of portable sampling pumps equipped with a particulate filter and silver zeolite cartridges. The particulate filter and silver zeolite cartridges can be field counted in a low background area for immediate determination of total radioiodine concentration. Cartridges and filters can be further analyzed using gamma spectrometry in either the NMPNS counting laboratory, the environmental laboratory or the adjacent JAFNPP counting laboratory. The lower limit of detection for radioiodine is less than  $1.0E-7$   $\mu\text{Ci}/\text{cc}$  under all weather conditions.

#### 6.4.3 Field Contamination Assessment (NUREG 0654 II.H.12, II.I.7)

A second type of radiological data which the onsite and offsite survey teams collect is surface contamination levels for the radionuclides listed in NUREG-0654, Table 3 (Radionuclides with Significant Contribution to Dominant Exposure Modes). The data obtained from these sample measurements assist in protective action decisions affecting the general public during the emergency and post-emergency recovery/re-entry phase. This data can be used to determine 10CFR140 applicability.

Surface contamination may be estimated using procedure CNG-EP-1.01-1012 during the emergency and actual values are determined by sampling snow, grass, soil, leafy vegetation, surface water as deemed appropriate during emergency recovery activities. CNG-EP-1.01-1012 describes in detail the emergency radiological environmental sampling program.

#### 6.5 DOSE ASSESSMENT METHODS AND TECHNIQUES (NUREG 0654 II.I.6, II.I.8, II.I.10)

The NMPNS has established a method for relating various measured environmental media activity levels to dose rates for key isotopes and gross radioactivity measurements. NMPNS has formulated provisions for estimating integrated dose from the projected and actual dose rates (refer to CNG-EP-1.01-1025). The results of these calculations can then be tabulated and compared with applicable protective action guides.

The information most important in determining offsite consequences is source term, dose assessment, environmental measurements and dose projections. The following paragraphs describe these dose assessment terms and techniques.

#### 6.5.1 Source Term Determination (NUREG 0654 II.I.1, II.I.2, II.I.3a, II.I.3b, II.I.4)

##### a. Projected Source Term Determination

The release rate and/or source term from NMPNS during a nuclear emergency can be projected as described in CNG-EP-1.01-1025, and are listed as follows:

- 1) Containment High Range Monitors (CHRM) (relate CHRM to a radioactivity concentration in the drywell, then assume a flowrate from the drywell to the atmosphere).
- 2) Grab samples.
- 3) Back calculation from downwind gamma dose rate measurements.
- 4) UFSAR/USAR postulated accident release rates.

##### b. Actual Source Term Determination

The method for determining actual release rate for source term determination from NMPNS during a nuclear emergency are described in CNG-EP-1.01-1025, and are listed as follows:

- 1) Effluent monitors
- 2) Stack teletector (Unit 1 only)
- 3) Grab samples

#### 6.5.2 Offsite Radiological Dose Assessment Process (NUREG 0654 II.I.4, II.I.5, II.I.6)

Dose assessment or projection represents the calculation of an accumulated dose at some time in the future if current or projected conditions continue. During an accident, the Plant Parameter Display System and personal computers will provide the ERO with the timely information required to make decisions. Radiological and meteorological instrumentation readings are used to project dose rates at predetermined distances from the station, and to determine the integrated dose received. Dose assessment methods used by Exelon personnel to project offsite doses include:

- a. Monitored Release Points - This method utilizes the plant's effluent radiation monitors and system flow rates. Effluent release points are used to directly calculate a release rate. The point of the release determines the way the source term is affected and is adjusted by the dose assessment process.

- b. Containment Leakage/Failure - This method uses a variety of containment failures or leak rates in conjunction with available source term estimations to develop a release rate to the environment. A direct vent of containment can be modeled as a failure to isolate.
- c. Release Point Samples - This method uses a sample at the release point and an estimated flow rate to develop a release rate at the point of release.
- d. Field Monitoring Team Data - This method uses a field survey or sample and the atmospheric model to back calculate a release rate and ratio concentrations of radioactive material at various points up and downwind of plume centerline.

The computer applications used to provide dose calculations are evaluated against the EPA-400 plume exposure Protective Action Guides (PAGs) applicable for the early phase of an accident. These evaluations place an emphasis on determining the necessity for offsite protective action recommendations. Dose assessment actions will be performed in the following sequence:

- a. First, onset of a release to 1 hour post-accident:
  - 1) Shift personnel will rely on a simplified computerized dose model to assist them in developing offsite dose projections using real time data from effluent monitors and site meteorology.
- b. Second, 1 hour post-accident to event termination:
  - 1) Estimates of off-site doses based on more sophisticated techniques are provided. Dedicated ERO personnel will analyze the offsite consequences of a release using more complex computerized dose modeling. These additional methods are able to analyze more offsite conditions than the simplified quick method, as well account for more specific source term considerations

### 6.5.3 Onsite Dose Assessment and Protective Actions

Health Physics procedures provides procedures for assessing the radiological conditions onsite, and protective actions needed in response to those actual or projected conditions. CNG-EP-1.01-1014, Emergency Exposures and KI provides for control of emergency exposures.

### 6.5.4 Environmental Measurements (NUREG 0654 II.H.12)

The second method available to assess dose is based on measured activity in environmental media. Dose can also be determined on the basis of plant and environmental measurements collected per CNG-EP-1.01-1012 and the post-accident sampling procedures.

Environmental samples collected by the downwind survey teams and environmental survey teams are returned for laboratory analysis. Environmental media such as milk, human food products and water are analyzed in a laboratory environment to determine the concentrations of key isotopes which would then be converted (either by hand calculation or computer using appropriate formulas) to dose.

#### 6.5.5 Dose Projection (NUREG 0654 II.I.6, II.M.4)

- a. Preliminary estimates of total population exposure are made using the method in CNG-EP-1.01-1025, and CNG-EP-1.01-1012. These preliminary estimates are based on projected or actual field measurements made during the course of the emergency. During the recovery phase of the emergency, these estimates are refined based upon actual emergency and environmental OSLD results, information obtained from the Oswego County Emergency Management Office on evacuated and sheltered population, and evacuation time estimates for various Emergency Response Planning Areas (ERPA's).

### 6.6 CORRECTIVE ACTIONS

Detailed Emergency Operating Procedures, Special Operating Procedures, and Severe Accident Procedures as appropriate are used by the station operating personnel to assist them in recognizing potential or actual emergency events and responding to emergency and severe accident conditions. These procedures describe the corrective actions necessary to place the plant in a safe condition. Additionally, Emergency Plan Implementing Procedures, as listed in this Site Emergency Plan, Appendix C, describe subsequent and/or supplemental corrective actions for the scope of potential situations within each of the emergency classifications. These Emergency Plan Implementing Procedures are designed to guide the actions of personnel to correct or mitigate a condition as early and as near to the source of the problem as feasible.

### 6.7 PROTECTIVE ACTIONS

Protective actions are measures which are implemented to prevent or mitigate consequences to individuals during or after a radiological incident. Protective actions within the NMPNS site boundary are the responsibility of the NMPNS Emergency Director, but may include assistance by off-site organizations. Protective actions outside the NMPNS site boundary are primarily the responsibility of State and local emergency organizations, but may include coordination of activities, dissemination of appropriate data and recommendations by the NMPNS Emergency Director.

#### 6.7.1 Onsite Protective Actions

Onsite protective actions are directed by the Emergency Director and are reviewed to consider the possible impact on the activities of offsite response personnel prior to being ordered.



The primary protective measure for onsite personnel in an emergency is prompt evacuation from areas which may be affected by significant radiation, contamination or airborne radioactivity. For personnel who must stay onsite as part of the on-site emergency response team other protective measures may be used as discussed in the following sections.

In addition, a range of protective actions to protect onsite personnel during hostile action events has been developed. This range of protective actions ensures the continued ability to safely shut down the reactors and perform emergency response functions. The response functions include:

- Evacuation of personnel from target buildings
- Site evacuation by opening gates, while continuing to defend them
- Dispersal of Licensed Operators
- Sheltering personnel away from potential site targets
- Accounting for personnel after the attack

The following are the primary onsite protective actions:

a. Local Area/Building Evacuation (NUREG 0654 II.J.1.a, b, c)

A local area/building evacuation is confined to local areas or buildings within the protected area. This evacuation requires all personnel within the designated area or building to rapidly exit the area/building and remain clear of the area/building until further notice. The decision to implement a local area/building evacuation is the responsibility of the Emergency Director. This decision is based largely on evaluation and judgment of the magnitude and severity of the situation on a case by case basis. Factors to be considered may include:

- the safety of personnel within the area/building
- smoke/heat or other hazards
- actual or estimated levels of radiation and/or airborne radioactivity involved, as well as the potential exposure to personnel that would result from both evacuating and not evacuating specific station areas/buildings.

The warning of personnel in the station can be accomplished in less than 15 minutes. (This includes visitors, contractor and construction personnel). Notification is made by sounding the evacuation alarm, followed by an announcement over the plant PA system. (Refer to CNG-EP-1.01-1009, Assembly, Accountability and Evacuation)

b. Protected Area Evacuation (NUREG 0654 II.J.1.a, b, c)

A Protected Area Evacuation is confined to areas within the protected area. This evacuation requires that ERO members assemble at their designated ERF, and non-essential personnel leave the protected area and assemble at designated locations outside of the protected area. (refer to CNG-EP-1.01-1009).

The decision to implement a protected area evacuation is the responsibility of the Emergency Director (as appropriate). A protected area evacuation is automatically implemented at an Alert or Site Area Emergency provided it is safe to perform. The warning of personnel in the protected area can be accomplished in less than 15 minutes. (This includes visitors, contractor and construction personnel)

Notification of a protected area evacuation is made by sounding the evacuation alarm, followed by an announcement over the plant PA system.

c. Owner Controlled Area (OCA) Evacuation  
(NUREG 0654 II.J.1.a, b, c, II.J.1.d, II.J.2, II.J.4)

CNG-EP-1.01-1009 describes the evacuation of non-essential personnel from the NMPNS protected area via the Security Buildings to the Offsite Assembly Area. It also includes, as appropriate, the evacuation of individuals from the NMPNS OCA, including the Nuclear Learning Center, Energy Center, Sewage Treatment Facility and all other NMPNS site locations to their homes or Offsite Assembly Area

The Off-site Assembly Area is normally the Oswego County Airport, Hanger K, in Volney (Fulton). The Emergency Director may specify alternate routes or alternate locations, if appropriate. Personnel will use privately owned vehicles to evacuate. Security personnel help ensure that personnel proceed to the Offsite Assembly Area. JAFNPP is advised of the NMPNS OCA evacuation and the projected dose rates which could affect their personnel. The decision to implement an OCA evacuation is the responsibility of the Emergency Director. The decision is based on the declaration of a Site Area Emergency in which a radioactive release is anticipated or in progress, the declaration of a General Emergency, or upon declaration of a site evacuation by JAFNPP.

Notification of an OCA evacuation is made by sounding the evacuation alarm, followed by an announcement over the station PA system..

Other persons who may be in public access areas, passing through the site, or within a NMPNS controlled location, will be notified by methods outlined in CNG-EP-1.01-1009. The warning of personnel in the OCA can be accomplished in less than 15 minutes. (This includes visitors, contractors and construction personnel)

d. Personnel Accountability (NUREG 0654 II.J.1.a, b, c, d, II.J.5)

To ensure that station personnel present in affected areas have been accounted for and to determine the whereabouts of personnel who have not been accounted for within the protected area, measures have been established to provide for personnel accountability. Accountability for personnel remaining within the protected area following an accountability order is performed in accordance with CNG-EP-1.01-1009.

Initial accountability results in the generation of a list of missing persons within 30 minutes of an announcement to evacuate non-essential personnel or an announcement to perform accountability and/or identifying any individuals not accounted for..

**NOTE:** The personnel accountability process is considered initiated when the announcement has been completed.

The accountability system works as follows: Personnel enter the protected area through security access points. Upon entering the area personnel position their security identification proximity card (Owner Controlled Area Card) near the entrance Proximity Card Readers. Their access is tracked by the security department computer. In the event of an emergency, personnel within the protected area report to onsite assembly areas, or exit the protected area activating a Proximity Card Reader at the accountability area or at the protected area exit. After a number of personnel have

completed this process (about 20 minutes after the announcement), a report is produced. The information on the report yields the names of individuals who are present in the protected area, but who have not activated a Proximity Card Reader (activations are subtracted from the overall database). The personnel accountability process continues throughout the event. Search and rescue efforts begin at the completion of the initial accountability process, and are performed in accordance with CNG-EP-1.01-1021.

e. Contamination Control (NUREG 0654 II.J.6.b, II.K.5.a, II.K.6.a, b, c)

The NMPNS Radiation Protection Procedures contain provisions governing the control of contamination including access control, use of protective clothing, contamination monitoring, and the release of potentially contaminated items from Restricted Areas.

The requirements and guidelines of these procedures apply to contamination control during emergency conditions.

Specific onsite contamination control measures for food supplies is not necessary since no agricultural products for consumption are grown within the NMPNS exclusion area. Also, no drinking water supplies originate onsite. Drinking water is obtained from City of Oswego water supplies or bottled water suppliers.

f. Exposure Control (NUREG 0654 II.K.1.a, b, c, d, e, f, g, II.K.2, II.K.3.a, b)

The radiation exposure of station personnel during emergency operations is maintained As Low As Reasonably Achievable (ALARA), and should be maintained less than the administrative guides established in the NMPNS Radiation Protection Procedures and/or less than the Federal radiation exposure standards established in 10CFR20. In order to accomplish this objective, administrative means used during normal operations to minimize personnel exposure, such as Radiation Work Permits, Authorization to Exceed Radiation Exposure Guides, and ALARA measures should remain in force to the extent consistent with timely implementation of emergency measures.

If necessary actions require personnel exposures to exceed normal limits, or if normal access control and radiological work practices results in unacceptable delays, the established exposure control criteria and methods may be waived or modified at the discretion of the SM/ED or ED/RM (as appropriate). In the event of a declared emergency, the emergency dose limits outlined in EPA-400 have been proceduralized in CNG-EP-1.01-1014, Emergency Exposures and KI, and may be used. CNG-EP-1.01-1014 also provides procedures for expeditious decision making, a reasonable consideration of relative risks, and the capacity for just-in-time authorization or emergency exposures.

Emergency dose limits are as follows:

TEDE Limit (rem)	Activity
5	All activities during the emergency
10	Protecting valuable property
25	Lifesaving or protection of large populations
>25	Lifesaving or protection of large populations, only if individuals receiving exposure is a volunteer, and fully aware of risks involved.

Dosimetry equipment is provided at the station as part of the normal Radiation Protection Program, and such dosimetry continues to be used during emergency situations. Dosimetry consists of OSLDs (or equivalent) and Self-Reading Dosimeters (SRD) (or equivalent, e.g. electronic dosimeters), also known as Pocket Direct-Reading Dosimeters. A limited number of such dosimetry are also available in emergency supplies. Personnel are available 24 hours a day during an emergency to issue and/or process dosimetry devices.

The NMPNS Radiation Protection Procedures contain provisions for administration of the Facility Bioassay Program. CNG-EP-1.01-1014 provides guidance for accelerated or additional bioassays in the event there are individuals who are suspected of being exposed to elevated levels of airborne activity as a result of the emergency. Radiation Protection Procedures provide for issuing, using, and reading/processing dosimetry devices and provisions for exposure record keeping. During an emergency the processing frequency is based upon the exposure rates and/or the exposure received by emergency personnel.

g. Respiratory Protection (NUREG 0654 II.J.6.a)

The NMPNS Radiation Protection Procedures contain provisions governing the use of respiratory protection equipment and administration of the NMPNS Respiratory Protection Program.

Exceptions to normal respiratory protection practices may be instituted by the SM/ED or ED (as appropriate), with the advice of the RP Director.

h. Potassium Iodide (KI) (NUREG 0654 II.J.6.c)

Potassium iodide (KI) is available for use by NMPNS employees in the event of an emergency. Indications and when KI should be used are contained with CNG-EP-1.01-1014.

6.7.2 Offsite Protective Actions (NUREG 0654 II.E.6, II.E.7, II.J.8)

a. Protective Actions Within Oswego County (NUREG 0654 II.J.8)

The responsibility for actions to protect offsite individuals rests with the County of Oswego, New York State Office of Emergency Management and New York State Department of Health as described in the New York State Radiological Emergency Preparedness Plan.

The NYS Department of Health is responsible for evaluating information obtained from the NMPNS and/or other sources and recommending appropriate offsite protective actions to the OEM/OCEMO.

The principal offsite local coordinating agency for providing response to radiological emergencies in the vicinity of the NMPNS is the OCEMO. The entire 10-mile Emergency Planning Zone is contained within Oswego County.

A detailed study has been conducted of the status and capacities of roads, traffic patterns and demography within the 10-mile radius Emergency Planning Zone. This study includes the estimated times to evacuate all or specific segments of the population, identifies potential problem areas and provides contingencies for dealing with adverse conditions. The time estimates for various scenarios were performed: 1) Nighttime, normal weather; 2) Nighttime, adverse weather; 3) School in session, normal weather; 4) School in session, adverse weather. This study, "Evacuation Travel Estimates (ETE) for the James A. Fitzpatrick/Nine Mile Point Emergency Planning Zone" is referenced in this Site Emergency Plan, Appendix F and was used in the development of detailed evacuation plans by the OCEMO. The ETE meets the criteria established in NUREG-0654.

b. Oswego County Prompt Notification System (NUREG 0654 II.J.10.c)

The physical and administrative means for alerting and warning the population of an incident at the Nine Mile Point Nuclear Station is described in detail in CNG-EP-1.01-1013 and the Oswego County Radiological Emergency Response Plan.

The responsibility for activation of the Prompt Notification System (PNS) rests with the Chairman of the Oswego County Legislature or designee. The Oswego County Emergency Management Office administratively activates the warning system and supplies appropriate emergency messages to the Emergency Alert System (EAS) station serving the jurisdiction in accordance with the provisions of their emergency response plans. Siren activation equipment is located at the OCEMO and the Oswego County 911 Center.

The PNS consists of:

- Outdoor sirens (for heavily populated areas).
- Tone-alert radios (for less populated areas) activated by the National Weather Service.
- Reverse calling system (as back-up to the above).
- Emergency Alert System.

This system meets NUREG-0654 and FEMA-REP-10 design and testing criteria. System design and testing requirements are detailed in Wyle Research Report WR 82-26 "Qualification of the Oswego County Prompt Notification System".

c. Protective Action Guides and Recommendation of Protective Action Recommendations (NUREG 0654 II.J.7, II.J.10.m)

Protective Action Guides (PAG's) identify protective actions to be taken prior to or following a significant release of radioactive material. They are based on NUREG-0654/FEMA-REP-1, Rev 1, Supplement 3, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" and Frequently Asked Questions (FAQ) documented in "EPFAQ 2013-004 Final Response". PAGs for the "plume phase" have been established by the US Environmental Protection Agency.

The numerical guides for TEDE and  $CDE_{\text{Thyroid}}$  (child) dose to the general public are listed below. The procedure used by NMPNS personnel in determining the appropriate protective action recommendation (PAR) is detailed in CNG-EP-1.01-1013. PARs are reviewed prior to issuance to assess their potential impact on offsite response organization activities.

Protective Action Guidelines Early or Plume Phase		
	TEDE (rem)	$CDE_T$ (rem)
Evacuate	>1	>5

The following principles guide the formulation of PARs for the NMPNS:

- Evacuation is the preferred method of protecting the public in the event of a significant radiological release. EPA 400 Protective Action Guidelines are used.

- NMPNS does consider sheltering due to Controlled Containment Venting with release durations of < 1 hour and dose assessments do not exceed the EPA PAGs.
- If determined to be appropriate by New York State or Oswego County Officials, thyroid prophylaxis may be provided to the general public. NMPNS recommendations include implementation of the KI Plan in order to be consistent with offsite plans.

#### 6.8 AID TO AFFECTED PERSONNEL (NUREG 0654 II.B.9)

Procedures are established which provide for control of radiation exposure, including emergency exposure, personnel contamination, assistance to injured persons, and situations involving complications due to the presence of radiation or radioactive contamination.

##### 6.8.1 Decontamination (NUREG 0654 II.C.4, II.K.5.a, II.K.5.b)

Personnel contamination in emergency situations is controlled to the extent feasible by the normal methods of using protective clothing and surveying for contamination following the removal of such clothing. Designated personnel decontamination areas consisting of showers and sinks which drain to the radwaste system, are available for either routine or emergency use at the NMPNS. Similar facilities are available at the JAFNPP. Station radiation protection personnel are instructed in the proper methods of removing minor contamination from skin surfaces. Efforts involving significant amounts of contamination, particularly in the vicinity of facial openings, will normally be performed under the direction of Radiation Protection personnel. Detailed methods for personnel decontamination are described in Radiation Protection Procedures. Decontamination limits are detailed in station Radiation Protection Procedures.

##### 6.8.2 First Aid (NUREG 0654 II.L.2)

Individuals are onsite who can administer first-aid. First aid to injured personnel is normally performed in conjunction with any necessary decontamination methods. However, if immediate treatment of the injury is vital, that treatment shall take precedence over decontamination. This philosophy also extends to offsite emergency assistance involving radioactive contamination. For that purpose, measures are established to ensure timely offsite medical treatment and limiting the spread of contamination, as described in Site Emergency Plan Sections 6.8.3 and 6.8.4.

### 6.8.3 Medical Transportation (NUREG 0654 II.C.4, ILL.4)

Arrangements have been made with the Oswego County 911 Center to transport from the NMPNS to a medical treatment facility any injured personnel, including radioactively contaminated personnel and those involved in radiation exposure incidents, or a Hostile Action Based event.

Copies of the agreements from facilities/organizations which provide emergency services are contained in Site Emergency Plan Appendix A. Ambulance emergency supplies are available for use and are stored at designated points of access to the NMPNS.

### 6.8.4 Medical Treatment (NUREG 0654 II.C.4, ILL.1)

Arrangements have been made with the Oswego Hospital (Oswego, N.Y.) for the medical treatment of patients from the NMPNS who may have a radiation exposure injury or injuries complicated by radioactive contamination, or been involved in a Hostile Action Based event. The Oswego Hospital has developed a detailed procedure for handling radioactively contaminated patients or those involved in radiation exposure incidents at the NMPNS. Similar arrangements have been made with the State University of New York University Hospital at Syracuse (Syracuse, N.Y.) for medical treatment of contaminated injuries and significant overexposures to radiation or been involved in a Hostile Action Based event. University Hospital has developed detailed procedures for handling radioactively contaminated or those patients involved in radiation exposure incidents at the NMPNS.

Medical treatment facilities and on-site personnel may also contact a radiation management expert who is contracted to provide radiological treatment advice upon request. Radiation Protection Procedures describe actions necessary for decontamination of emergency worker wounds, and waste disposal. EPMP-EPP-02, lists decontamination equipment available at Oswego Hospital. This service is available 24 hours per day year-round as specified in the Letter of Agreement in Appendix A.

## 6.9 EMERGENCY PUBLIC INFORMATION AND RUMOR CONTROL (NUREG 0654 II.G.4.c)

A telephone inquiry response program and a rumor control program has been established by NMPNS. NMPNS in conjunction with state and county governments cooperate on responses to inquiries which may occur as a result of an emergency situation at the NMPNS. Implementing procedures are contained in CNG-EP-1.01-1017.



FIGURE 6.1  
 ACTIVATION OF EMERGENCY ORGANIZATION  
SUMMARY OF NOTIFICATION AND RESPONSE  
 NUREG 0654 II.E.1

Class	Criteria	Notifications		Response	
		Onsite	Offsite	Onsite Personnel	Offsite Personnel
UNUSUAL EVENT	Off-normal events which could indicate a potential degradation in the level of plant safety	1) The following notifications are made on an as-needed basis: <ul style="list-style-type: none"> <li>• Nine Mile Point Fire Brigade</li> <li>• Damage Control Teams</li> <li>• Control Room Advisory Staff</li> <li>• Security Force</li> <li>• Survey Teams</li> <li>• Other Personnel</li> </ul>	1) The following shall be notified: <ul style="list-style-type: none"> <li>• Oswego County</li> <li>• State of New York</li> <li>• NRC Hdqtrs</li> </ul> 2) The following notifications are made on an as-needed basis: <ul style="list-style-type: none"> <li>• Fire units</li> <li>• Rescue units</li> <li>• Ambulance service</li> <li>• Hospital</li> <li>• Local Area/Building Evacuation</li> </ul>	1) Make prompt offsite notifications 2) Perform continuing assessment 3) The following actions are performed on an as-needed basis: <ul style="list-style-type: none"> <li>• Emergency Repairs</li> <li>• Administer First Aid, and</li> <li>• Other medical treatment</li> <li>• Accountability</li> </ul>	1) The following are performed on an as-needed basis: <ul style="list-style-type: none"> <li>• Provide fire fighting assistance</li> <li>• Assist in rescue operations</li> <li>• Provide medical transportation</li> <li>• Provide medical treatment</li> <li>• Assist in damage control</li> <li>• Perform onsite monitoring</li> <li>• Institute security measures</li> </ul>

FIGURE 6.1 (Cont)  
 ACTIVATION OF EMERGENCY ORGANIZATION  
SUMMARY OF NOTIFICATION AND RESPONSE  
 NUREG 0654 II.E.1

Class	Criteria	Notifications		Response	
		Onsite	Offsite	Onsite Personnel	Offsite Personnel
ALERT	Events which indicate an actual degradation in the level of plant safety	1) The following notifications are made on an as-needed basis: <ul style="list-style-type: none"> <li>• Nine Mile Point Fire Brigade</li> <li>• Damage Control Teams</li> <li>• Control Room Advisory Staff</li> <li>• Security Force</li> <li>• Survey Teams</li> <li>• Dose Projection Personnel</li> <li>• Other Personnel (as necessary)</li> <li>• Notify TSC, OSC, and EOF personnel</li> </ul>	1) The following shall be notified: <ul style="list-style-type: none"> <li>• Oswego County</li> <li>• State of New York</li> <li>• NRC Hdqtrs</li> </ul> 2) The following notifications are made on an as-needed basis: <ul style="list-style-type: none"> <li>• Fire units</li> <li>• Ambulance service</li> <li>• Hospital</li> </ul>	1) Make prompt offsite notifications 2) Perform continuing assessment 3) Staff TSC, OSC, EOF 4) The following actions are performed on an as-needed basis: <ul style="list-style-type: none"> <li>• Administer first aid</li> <li>• Conduct rescue operations</li> <li>• Perform onsite and offsite monitoring</li> <li>• Perform offsite dose projections</li> <li>• Institute security measures</li> <li>• Fight fire</li> <li>• Perform emergency repairs</li> <li>• Protected Area Evacuation</li> <li>• Accountability</li> </ul>	1) The following are performed on an as-needed basis: <ul style="list-style-type: none"> <li>• Provide fire fighting assistance</li> <li>• Assist in rescue operations</li> <li>• Provide medical transportation</li> <li>• Provide medical treatment</li> <li>• Assist in damage control</li> <li>• Provide onsite assistance as required</li> <li>• Activate primary response centers</li> <li>• Alert key personnel</li> <li>• Conduct confirmatory dose projections</li> <li>• Maintain emergency communications</li> </ul>

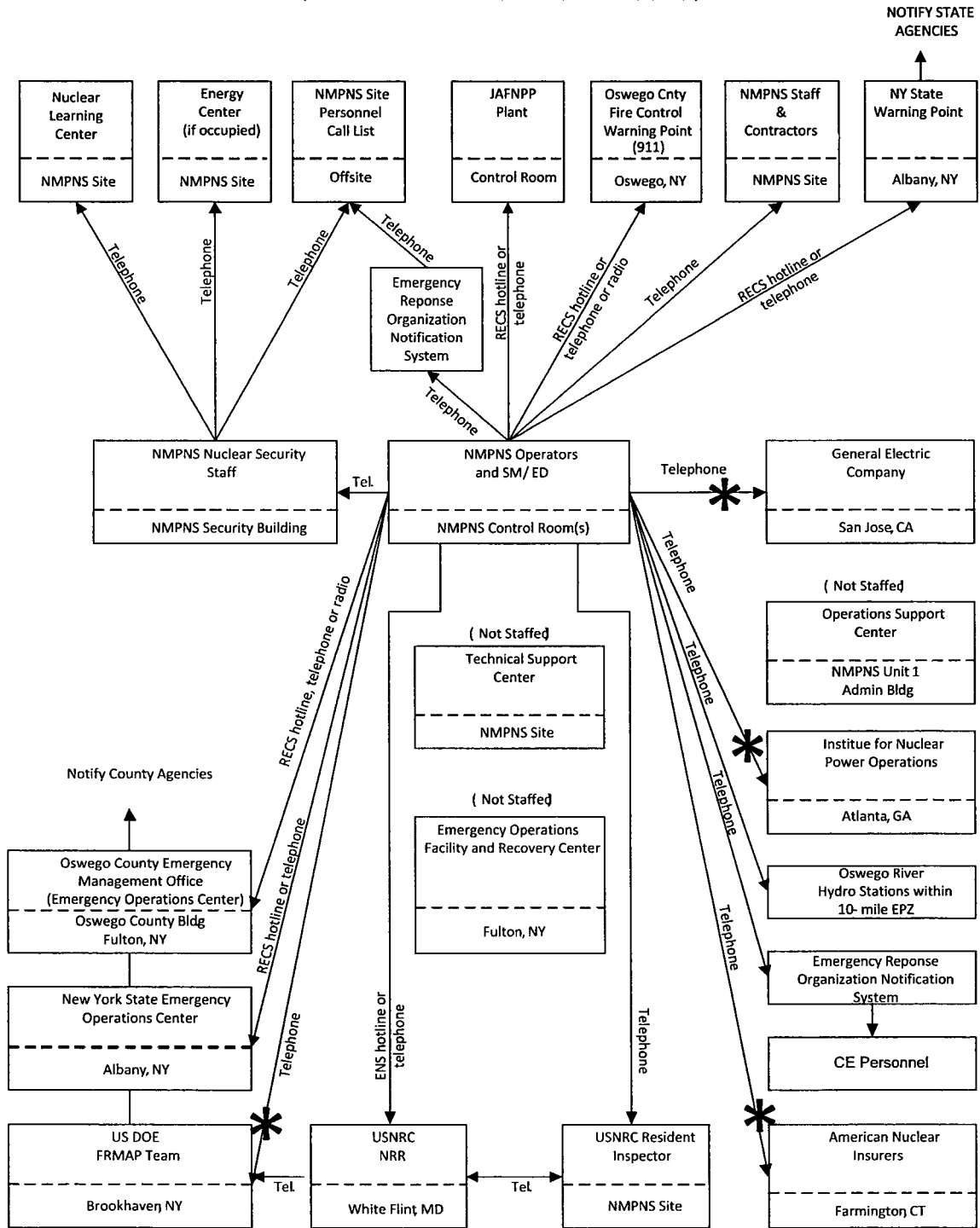
FIGURE 6.1 (Cont)  
 ACTIVATION OF EMERGENCY ORGANIZATION  
SUMMARY OF NOTIFICATION AND RESPONSE  
 NUREG 0654 II.E.1

Class	Criteria	Notifications		Response	
		Onsite	Offsite	Onsite Personnel	Offsite Personnel
SITE AREA EMERGENCY	Events which involve actual or likely major failures of plant functions needed for protection of the public	1) The following notifications are made on an as-needed basis: <ul style="list-style-type: none"> <li>• Nine Mile Point Fire Brigade</li> <li>• Damage Control Teams</li> <li>• Control Room Advisory Staff</li> <li>• Security Force</li> <li>• Survey Teams</li> <li>• Dose Projection Personnel</li> <li>• Other Personnel (as necessary)</li> <li>• Notify TSC, OSC, and EOF personnel</li> </ul>	1) The following shall be notified: <ul style="list-style-type: none"> <li>• Oswego County</li> <li>• State of New York</li> <li>• NRC Hdqtrs</li> </ul> 2) The following notifications are made on an as-needed basis: <ul style="list-style-type: none"> <li>• Fire units</li> <li>• Rescue units</li> <li>• Ambulance service</li> <li>• Hospital</li> </ul>	1) Make prompt offsite notifications 2) Perform continuing assessment 3) Staff TSC, OSC, and EOF 4) Accountability 5) The following actions are performed on an as-needed basis: <ul style="list-style-type: none"> <li>• Administer first aid</li> <li>• Conduct rescue operations</li> <li>• Perform onsite and offsite monitoring</li> <li>• Perform offsite dose projections</li> <li>• Institute security measures</li> <li>• Firefighting</li> <li>• Emergency Repairs</li> <li>• Recommend offsite protective actions</li> <li>• Augment resources</li> <li>• Protected Area Evacuation</li> <li>• Implement Exclusion Area Evacuation</li> </ul>	1) The following are performed on an as-needed basis: <ul style="list-style-type: none"> <li>• Provide firefighting assistance</li> <li>• Assist in rescue operations</li> <li>• Provide medical transportation</li> <li>• Provide medical treatment</li> <li>• Assist in damage control</li> <li>• Provide onsite assistance as required</li> <li>• Activate primary response centers</li> <li>• Alert key personnel to standby</li> <li>• Conduct confirmatory dose projections</li> <li>• Maintain emergency communications</li> <li>• Place public notification system in standby status</li> <li>• Implement appropriate near site protective measures</li> </ul>

FIGURE 6.1 (Cont)  
 ACTIVATION OF EMERGENCY ORGANIZATION  
 SUMMARY OF NOTIFICATION AND RESPONSE  
 NUREG 0654 II.E.1

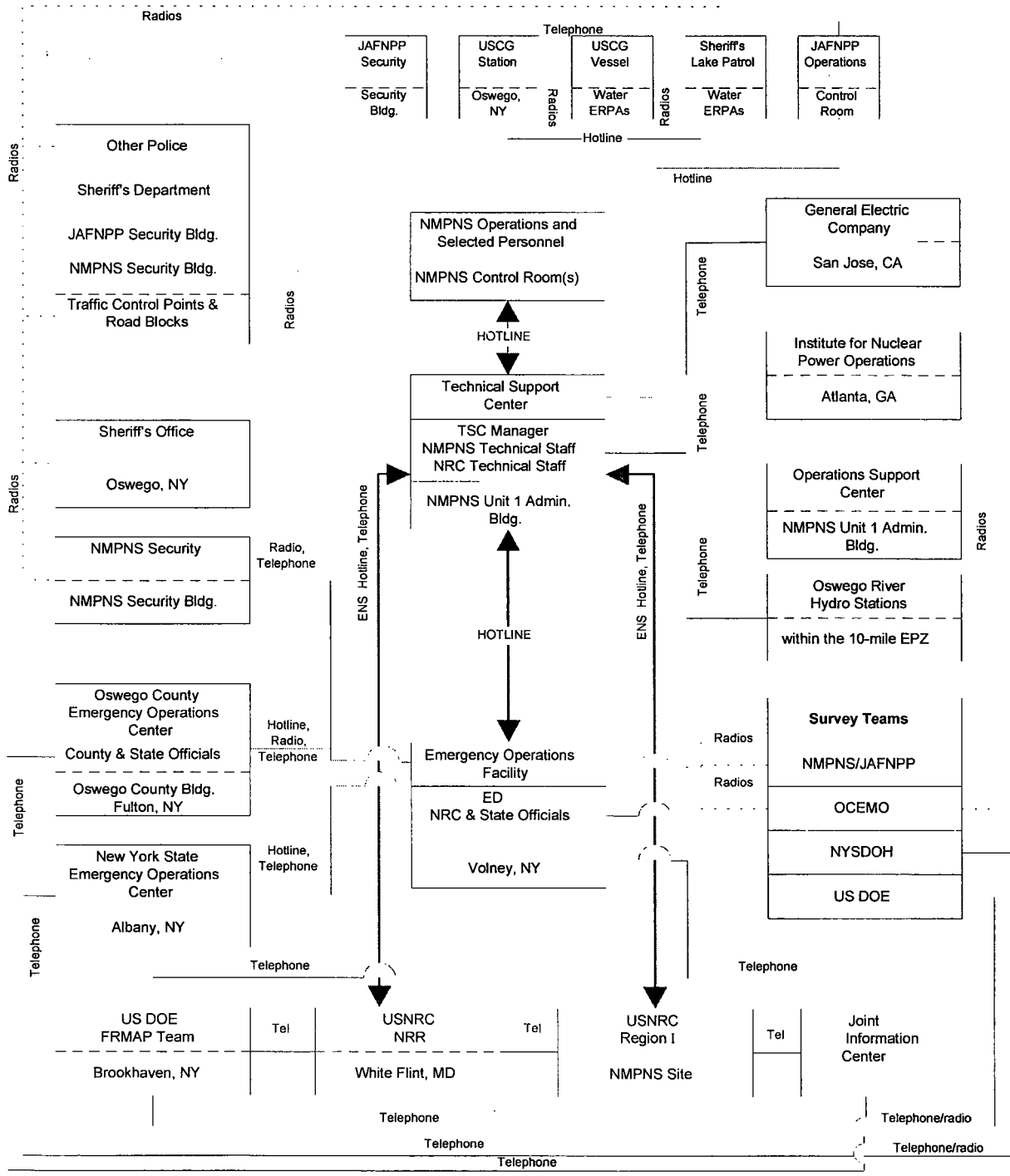
Class	Criteria	Notifications		Response	
		Onsite	Offsite	Onsite Personnel	Offsite Personnel
GENERAL EMERGENCY	Events which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity	1) The following notifications are made on an as-needed basis: <ul style="list-style-type: none"> <li>• Nine Mile Point Fire Brigade</li> <li>• Damage Control Teams</li> <li>• Control Room Advisory Staff</li> <li>• Security Force</li> <li>• Survey Teams</li> <li>• Dose Projection Personnel</li> <li>• Other Personnel (as necessary)</li> <li>• Notify TSC, OSC and EOF personnel</li> </ul>	1) The following shall be notified: <ul style="list-style-type: none"> <li>• Oswego County</li> <li>• State of New York</li> <li>• NRC Hdqtrs</li> </ul> 2) The following notifications are made on an as-needed basis: <ul style="list-style-type: none"> <li>• Fire units</li> <li>• Rescue units</li> <li>• Ambulance service</li> <li>• Hospital</li> </ul>	1) Make prompt offsite notifications 2) Perform continuing assessment 3) Staff TSC, OSC, and EOF 4) Exclusion Area Evacuation 5) Accountability 6) Recommend offsite protective actions 7) The following actions are performed on an as-needed basis: <ul style="list-style-type: none"> <li>• Administer first aid</li> <li>• Conduct rescue operations</li> <li>• Perform onsite and offsite monitoring</li> <li>• Perform offsite dose projections</li> <li>• Institute security measures</li> <li>• Firefighting</li> <li>• Emergency Repairs</li> <li>• Augment resources</li> </ul>	1) The following are performed on an as-needed basis: <ul style="list-style-type: none"> <li>• Provide firefighting assistance</li> <li>• Assist in rescue operations</li> <li>• Provide medical transportation</li> <li>• Provide medical treatment</li> <li>• Assist in damage control</li> <li>• Provide onsite assistance as required</li> <li>• Activate primary response centers</li> <li>• Alert key personnel to standby</li> <li>• Conduct confirmatory dose projections</li> <li>• Maintain emergency communications</li> <li>• Implement appropriate protective measures</li> <li>• Mobilize emergency response personnel</li> <li>• Continuously evaluate dose projections</li> <li>• Place public notification system in standby status</li> </ul>

FIGURE 6.2 - EMERGENCY ORGANIZATION INTERFACES  
 (INITIAL NOTIFICATION)  
 (NUREG 0654 II.A.1.c; II.B.6; II.F.1.b,c,d,e,f)



\* Active at the Alert, SAE, and/or GE

**FIGURE 6.3**  
**EMERGENCY ORGANIZATION INTERFACES**  
**(AFTER EMERGENCY FACILITIES STAFFED)**  
**(NUREG 0654 II.A.1.c; II.B.6; II.F.1.b,c,d,e,f)**



## 7.0 EMERGENCY FACILITIES AND EQUIPMENT

Emergency facilities, equipment and communications are provided to ensure the capabilities for the prompt, efficient assessment and control of situations exists. Access to emergency facilities and equipment is governed by EPIP-EPP-14.

### 7.1 EMERGENCY RESPONSE FACILITIES

#### 7.1.1 Control Room(s)

The Unit 1 and Unit 2 Control Rooms are equipped with indications and controls for major plant systems. A portion of the indications for each Unit is the Safety Parameter Display System (SPDS). The purpose of SPDS is to display plant parameters in the Control Room(s) and TSC. The type and number of indications may be changed if future requirements change. Indications and assessment aids interrelated with meteorological and radiological dose calculation data are also provided, as well as access to emergency communications systems. The Control Rooms are designed for continuous occupancy following the most limiting accident.

#### 7.1.2 Technical Support Center (TSC) (NUREG 0654 II.C.1.c, II.H.1)

The NMPNS TSC is a facility located in the Unit 1 Administration Building at floor elevation 248. This is where station management and technical personnel can access technical data and displays necessary to assist Control Room personnel during emergency conditions. As part of their assistance, TSC personnel monitor station parameters to ensure prompt corrective and mitigating actions are taken.

The TSC is in close proximity to the Unit 1 and Unit 2 Control Rooms and has similar radiological habitability as the Control Rooms under accident conditions. The TSC provides access to site document control computer files which can provide any permanent plant record, as described in ANSI N45.2.9-1974, including as-built drawings. In addition, the TSC document control facility has copies of the NMPNS Emergency Plan and Implementing Procedures, Final Safety Analysis Reports, Technical Specifications, Administrative Procedures, Operating Procedures and other documents which may be used during an emergency. Space has been provided for five (5) NRC personnel.

#### 7.1.3 Operations Support Center (OSC) (NUREG 0654 II.H.1, II.H.9)

The OSC is an on-site assembly area at NMPNS to which designated station personnel report for accountability and special assignment. It is located in the Unit 1 Administration Building and includes the 261' Maintenance and Electrical Shops, Locker Rooms, Storeroom, and 248' Radiation Protection offices, and the Contractor staging area. The OSC Core Area is located adjacent to the TSC Core Area and within the TSC envelope on elevation 248'.

The OSC has sufficient space to assemble station ERO personnel, and maintain them immediately available for assignment. After activation, the ERO personnel may be instructed to resume duties or may be assigned new duties in support of emergency operations.

The OSC has installed and readily available communications equipment with which to control OSC related activities. Emergency cabinets with supplies and equipment for various teams (e.g., survey equipment, protective clothing, respiratory protection equipment, radios etc.) are located near the OSC. The First Aid Room and a personnel decontamination room are located nearby with appropriate supplies. In addition, the Maintenance Shops can be used to obtain necessary equipment and tools for damage control teams. A listing of OSC emergency equipment is included in EPMP-EPP-02 and is representative of equipment specified in NUREG 0654 to support OSC operations.

#### 7.1.4 Emergency Operations Facility (EOF) (NUREG 0654 II.C.1.c, II.G.3.b, II.H.2)

The EOF is a Co-located Licensee (NMP and JAF) controlled and operated emergency response facility located approximately 12 miles from the reactor site on County Route 176, just outside Fulton, NY, adjacent to the Oswego County Airport. The purpose of the EOF is to provide continuous coordination with local, State and Federal agencies and to provide evaluation of NMPNS activities during an emergency. Space is provided so that Federal, State and local response agencies can monitor and coordinate with the utility response activities from this location. Utility recovery operations are also handled at this facility. It is expected that manufacturer and vendor representatives may require twenty-four (24) hours to arrive following notification. Federal, State and County Officials could arrive at any time following notification.

The EOF has facilities and capabilities for the following:

- Management of the overall NMP emergency response
- Coordination of radiological and environmental assessment
- Determination of Protective Action Recommendations (PAR)
- Notification of offsite agencies
- Coordination of event, plant and response information provided to public information staff for dissemination to the media and public
- Staffing within 60 minutes and activating the facility within the same time requirement or as soon as possible thereafter
- Coordination of emergency response activities with Federal, State and local agencies
- Obtaining and displaying key plant data and radiological information for NMP Units 1 and 2
- Analyzing plant technical information and providing technical briefings on event conditions and prognosis to staff and offsite agency responders for NMP Units 1 and 2
- Effectively responding to and coordinating response efforts for events occurring simultaneously at more than one site for Co-located licensees



#### 7.1.5 Security Tactical Operations Center (STOC)

The STOC is a security command center that may be activated during a safeguards contingency or site emergency to ensure effective nuclear security program direction under unusual conditions. The STOC is located on the second floor of the west security annex building.

#### 7.1.6 Joint Information Center (JIC) (NUREG 0654 II.G.3.a, II.H.4)

The JIC is located near the Oswego County Airport, on County Route 176 in the Town of Volney, New York approximately 12 miles from the site. The function of this facility is to provide a single point of contact for disseminating information to the public. This dedicated facility has a large open area, used for briefings, and numerous small offices with telephones which can be used by news media personnel. A listing of equipment necessary to perform this function is in EPMP-EPP-02. The JIC is activated for an Alert, Site Area, or General Emergency.

#### 7.1.7 Alternative Facility

The Alternative Facility maintains the capability for staging the TSC/OSC emergency response organization personnel in the event of a hostile action. This alternative facility has the capability for communications with the emergency operations facility, control room, and plant security and the capability for engineering assessment activities, including damage control team planning and preparation. Consistent with NRC EPFAQ No. 2013-005, the EOF will satisfy the offsite notification responsibilities for the Alternative Facility. The Alternative Facility is located at the Nine Mile/Fitzpatrick EOF on County Route 176, just outside Fulton, NY, adjacent to the Oswego County Airport.

#### 7.1.8 Oswego County Emergency Operations Center (OCEOC) (NUREG 0654 II.F.1.a, II.H.4)

The OCEOC is located in the Emergency Management Office, County Branch Building, Fulton, N.Y. The County Warning Point is located at Oswego County 911 Center. Communications are available 24 hours per day at this warning point. Upon activation by the Oswego County Emergency Management Office, communications, planning, and coordination personnel become available at the OCEOC. A representative from NMPNS may be dispatched to this facility to act as liaison between the County and the site for a Site Area Emergency or General Emergency.

#### 7.1.9 State Emergency Operations Center (SEOC) (NUREG 0654 II.F.1.a, II.H.4)

The SEOC is located in the substructure of the Public Security Building, State Office Building Campus, Albany, New York. The State Warning Point communication systems and the State Emergency Management Office are also located in this center. Communication systems operate on an around the clock basis. State direction and control of emergency operations is conducted from the SEOC. Field operations are implemented through the State Emergency Management Office, Lake District Office, in Newark, N.Y. Upon activation, planning and coordination personnel become available at the SEOC. A representative from

NMPNS may be dispatched to this facility to act as liaison between the State and the site for a Site Area Emergency or General Emergency.

7.2 COMMUNICATIONS SYSTEMS  
(NUREG 0654 II.C.1.c, II.F.1.b, II.F.1.c, II.F.1.d, II.F.1.e, II.F.1.f, II.I.8)

The Nine Mile Point communication capabilities include multiple systems and redundancies which ensure the performance of vital functions in transmitting and receiving information throughout the course of an emergency. Multiple modes and paths are available for necessary emergency communications. Typical communications capabilities and the interfaces between expected supporting agencies are provided in Figure 6.2 and Figure 6.3. Systems available at the various emergency facility locations or available for use by response organizations are:

7.2.1 Telephone Systems (NUREG 0654 II.F.1.a, II.F.1.c, II.F.1.d, II.F.2)

The telephone system at NMPNS consists of an in plant dial system with connections to the local telephone system. The main emergency response facilities or organizations which have telephones are listed below:

- Control Rooms
- Technical Support Center
- Operations Support Center
- Emergency Operations Facility
- Security Tactical Operations Center
- Joint Information Center
- Oswego County Emergency Operations Center
- Oswego County Warning Point (Oswego County 911 Center)
- Oswego Hospital
- University Hospital
- New York State Warning Point
- New York State Emergency Operations Center
- NRC
- Other Emergency Response Organizations

7.2.2 NRC Emergency Notification System (ENS) Hotline (NUREG II.F.1.c, II.F.1.f)

The ENS is a separate and completely independent telephone system which is part of the Federal Telephone System from the local telephone system. It is used to provide initial notification of an emergency and continuing emergency information. NMPNS facilities at which these telephones are located include:

- Control Rooms
- Technical Support Center
- Emergency Operations Facility

7.2.3 Radiological Emergency Communications System (RECS)  
(NUREG 0654 II.F.1.a, II.F.1.b, II.F.1.d)

The RECS is a separate and completely independent system from the local telephone system and is similar to the ENS. This system is used to provide initial notification of an emergency and continuing emergency information to New York State and Oswego County Authorities. Facilities at which these telephones are located include:

- Control Rooms
- Technical Support Center
- Emergency Operations Facility
- JAFNPP Control Room, TSC
- Oswego County Warning Point (Oswego County 911 Center)
- Oswego County Emergency Operations Center
- NYS Warning Point
- NYS Alternate Warning Point (State Police Communications Center)
- NYS Emergency Operations Center
- NYS Department of Health (Headquarters in Albany)

7.2.4 NRC Health Physics Network (HPN) (NUREG 0654 II.F.1.c, II.F.1.f)

The HPN telephone system is also a part of the Federal Telephone System. It is primarily used to transmit health physics (radiological) data to the NRC during an emergency. NMPNS facilities at which these HPN telephones are located include:

- Technical Support Center
- Emergency Operations Facility

7.2.5 Other Dedicated Telephone Line Systems (NUREG 0654 II.F.1.d)

Dedicated telephone systems provide direct communication between the points shown. As appropriate these points are linked by one or more dedicated lines. They can be used in any situation but are primarily for emergency use. These systems include:

- Control Rooms to Technical Support Center
- Technical Support Center to Operations Support Center
- Emergency Operations Facility to Technical Support Center

#### 7.2.6 Public Address and Page System (NUREG 0654 II.F.1.d)

This system (commonly referred to as the GAItronics) is located in the various NMPNS facilities and includes outdoor speakers. It is a communications system which can be used by all station personnel.

Public Address Systems (other than GAItronics) are also located in the TSC, JIC, OSC and EOF. The system in the TSC allows announcements to be heard throughout the TSC and the OSC Core Area. The EOF and JIC systems allow announcements to be heard throughout the EOF or JIC. The OSC PA System permits announcements to be made throughout the OSC.

#### 7.2.7 Radio Systems (NUREG 0654 II.F.1.d, II.F.2)

NMPNS has various radio frequencies assigned for use. These frequencies include off-site and in-plant repeater channels, NMPNS channels and Oswego County public safety frequencies. All radio systems used for emergencies have significant redundancies (that is, separate power sources, antennas, feed lines, and consoles) that preclude loss of radio capability during emergencies. All NMPNS emergency facilities are equipped with consoles that allow use of all frequencies that may be used for emergencies. Thus, all emergency facilities (including the Control Rooms) are capable of contacting radio-equipped personnel within the plant and the 10-mile EPZ, and with Oswego County 911 Center and County emergency facilities. Additionally, all ambulances that service NMPNS have direct communication with Oswego and University Hospitals. NMPNS utilizes a telephone activated notification system to notify ERO personnel.

#### 7.2.8 Emergency Response Data System (ERDS) (NUREG 0654 II.F.1.a, II.F.1.f, II.I.5)

A computer system that collects a variety of information regarding plant operating parameters, meteorological data, effluent information and other data, and transmits it to the NRC. The system is activated by NMPNS in response to an emergency declaration.

### 7.3 ASSESSMENT FACILITIES AND SYSTEMS

#### 7.3.1 Onsite Assessment Facilities (NUREG 0654 II.C.3, II.H.12)

- a. Initially following an emergency, the primary on-site emergency assessment facility is the affected unit Control Room. This assessment function is transferred to the TSC after that on-site facility has been activated. These facilities are described in the Site Emergency Plan Section 7.1.1 and 7.1.2.
- b. If background radiation levels permit, post-accident radiological samples may be analyzed on-site in the NMPNS Chemistry laboratory located at Unit 1 or the Unit 2 Chemistry Counting Room located at Unit 2. These in-plant laboratories have full computer/gamma isotopic, gross beta and gross alpha analysis capabilities. These facilities are available 24 hours per day seven days per week as needed.

7.3.2 Offsite Assessment Facility (NUREG 0654 II.C.3, II.C.4, II.H.6.c; II.H.12)

- a. The offsite emergency assessment facility is the EOF. This facility is described in Site Emergency Plan, Section 7.1.4.
- b. NMPNS maintains an agreement with JAFNPP to have environmental samples evaluated by a vendor maintained by JAFNPP. Post-accident radiological samples can be sent off-site to the JAFNPP vendor in the event that the NMPNS in-plant laboratory is unavailable for any reason. If the JAFNPP vendor cannot perform the analyses or cannot handle the number of analyses required, samples can be sent to the Calvert Cliffs Nuclear Plant laboratory, located in Lusby Maryland. This laboratory also has similar capabilities to the NMPNS Health Physics laboratory. These facilities are available 24 hours per day seven days per week as needed.

7.3.3 Assessment Systems (NUREG 0654 II.D.1, II.I.1, II.I.2, II.I.3.a, II.I.3.b)

- a. Plant Process Computer (PPC) and Safety Parameter Display System (SPDS)  
(NUREG 0654 II.H.5.c)

The PPC and SPDS provide historical and real time plant data via displays and hard-copy devices that are located in the Control Rooms, TSC, and EOF. Both systems are designed to assist emergency response staff and Control Room operators in the decision making process during normal and abnormal plant conditions. These systems are described in greater detail in the Unit 1 UFSAR and Unit 2 USAR.

- b. Radiological Monitoring (NUREG 0654 II.H.5.b, II.H.6.b)

- 1) Plant Radiation Monitoring Systems

These systems, consisting of process and area radiation monitors, provide accident assessment by measuring and recording radiation levels and radioactivity concentrations at strategically selected locations throughout the plant. Local alarm functions associated with the monitors provide for plant personnel protection. A listing of these monitors is contained in Volume 3 Section XII Unit 1 UFSAR and Unit 2 USAR Chapter 12.3.

- 2) Onsite Radiological Monitoring System

There are 6 environmental radiological monitoring stations which surround the site or are located within the site boundary. Onsite monitoring stations surround the plant as specified in the Offsite Dose Calculation Manual (ODCM) and are designed to continuously collect particulate and iodine air samples. The capability to collect precipitation samples is also available.

Environmental Thermoluminescent Dosimeters (TLD), are located at approximately 70 stations, both onsite and offsite. The TLD's are collected, and evaluated quarterly. The TLD stations (on-site and off-site) exceed the NRC Radiological Assessment Branch Technical Position in total number and quality of monitors. In addition to the environmental TLD monitoring, a group of Optically Stimulated Luminescent Dosimeters (OSLD) called Emergency Preparedness OSLD's and 10CFR20 OSLD's have been placed in various locations around the site and the county. These OSLD's are evaluated during or after an emergency situation has occurred and as part of the facilities 10CFR20 program. The emergency OSLD's and 10CFR20 OSLD's are also renewed quarterly.

3) Containment High-Range Radiation Monitor

Unit 1 is equipped with two, containment high-range radiation monitors with a gamma detection range of  $10^0$  to  $10^8$  R/hr. Unit 2 is equipped with four high range gamma detectors capable of monitoring radiation in the range of  $10^0$  to  $10^7$  R/hr. The purpose of these monitors is to detect gross fuel failure.

4) Offsite Radiological Monitoring Systems (NUREG 0654 II.H.7)

There are approximately nine offsite radiological monitoring stations. These stations surround the plant and are described in the ODCM. Each of these monitoring stations is designed to continuously collect particulate and iodine air samples, and each has the capability for collecting precipitation samples, if required. Four (4) of the monitoring stations are along the site boundary and have radiation monitors. The radiation monitors are used to measure dose rates resulting from possible plume releases of radioactive material from the plant.

Environmental Thermoluminescent Dosimeters (TLD) and Optically Stimulated Luminescent Dosimeters (OSLD) are as described in Section b.2 above.

5) Emergency Radiological Survey Teams (NUREG 0654 II.H.12, II.I.8)

In addition to the monitoring capabilities provided by the fixed assessment systems, survey teams may be dispatched on-site and off-site to take direct radiation readings and collect samples for field or laboratory evaluation in the field. Survey team members are notified through normal station communications systems, the standard call-out procedure by telephone or radio activated beepers. Survey teams can be deployed within approximately 60 minutes of notification.

Direction of the survey teams may be initiated by the affected control room, but is normally transferred to the TSC when it is activated. Following activation of the EOF, direction of the teams, including receipt and analysis of data is transferred to this facility. Monitoring information from the State and/or County may also be available and would be used.

c. Containment Monitors (NUREG 0654 II.H.5.c)

Containment monitor data may be used to determine the extent of core damage. EPIP-EPP-09 provides the required implementation steps to determine the extent of core damage, using information obtained from these monitors.

1) Containment High-Range Radiation Monitor

See Site Emergency Plan, Section 7.3.3.b.3.

2) Containment Pressure Monitor

Continuous indication and recording of containment pressure from - 5 psig to 250 psig is provided in the Unit 1 Control Room for each pressure transmitter.

The Unit 2 drywell pressure monitors provide continuous indication and recording of containment pressure from -5 psig to 150 psig in the Unit 2 Control Room.

3) Containment Water Level Monitor

Continuous indication and recording of the torus pool water level from 15 inches above the bottom of the torus to 3 feet, 8.5 inches above the normal water level of the torus pool is provided in the Unit 1 Control Room for each transmitter.

The Unit 2 suppression pool water level from the 192' level to the 217' level is continuously indicated and recorded in the Unit 2 Control Room.

4) Containment Hydrogen Monitor

Redundant continuous indication of hydrogen concentration in the containment is provided in the control room over the range from 0 to 20% for Unit 1 and over the range from 0 to 30% for Unit 2 by the H<sub>2</sub>-O<sub>2</sub> Sampling System.

d. Sampling Systems (NUREG 0654 II.H.5.b, II.H.6.b)

Data obtained from sampling systems may be used to determine the extent of core damage. EPIP-EPP-09 provides the required implementation steps to determine the extent of core damage, using information obtained from these systems.

1) Plant Effluent Monitoring System

The Unit 1 OffGas Effluent Stack Monitoring Systems (OGESMS) performs a continuous analysis of stack gross radioactivity via an isokinetic probe. Particulate and iodine samples are collected by standard cartridges which are manually inserted into the main sample lines, allowed to collect samples for a specified period of time, removed from the lines and analyzed.

The Unit 2 Wide Range Gaseous Monitoring Systems (WRGMS) performs a continuous analysis of stack and vent gross radioactivity via isokinetic probes. Particulate and iodine samples are collected by standard cartridges which are manually inserted into the stack and vent main sample lines, allowed to collect samples for a specified period of time, removed from the lines and analyzed.

2) In-Plant Iodine Instrumentation

Portable instrumentation is used for the sampling of in-plant iodine levels. Samples are taken on silver zeolite or TEDA impregnated charcoal sampling cartridges. The charcoal sample cartridges are then taken to the Station Laboratory where they are purged to remove entrapped noble gases and then analyzed. The silver zeolite cartridges have an iodine retention efficiency in excess of 99% while retaining only trace amounts of noble gases and thus do not have to be purged prior to analysis.

3) Grab Samples

A grab sample can be taken for determination of liquid or gaseous activity.

e. Fire Protection Systems (NUREG 0654 II.H.5.d)

Fire protection at each Unit is provided by a complete network of fire detection, suppression and extinguishing systems. These systems are activated by a variety of thermal and products of combustion fire detection devices located throughout the station. At present the fire zones cover the turbine generator unit, vital areas and general station areas. Station Operating Procedures identify fire detectors and their locations.

f. Geophysical Phenomena Monitoring System  
(NUREG 0654 II.C.4, II.H.5.a, II.H.6.a)

Monitors are provided to detect and record natural phenomena events which could result in plant damage due to ground motion or structural vibration and stress. Backup information can be obtained from: the other NMPNS Unit, the JAFNPP which also has seismic detectors; a contracted weather service; a local National Weather Service station, etc.

Hydrologic conditions (e.g., floods, low water, hurricanes) would be observed by the shift operating crew and/or information would be provided by the U.S. Coast Guard, a contracted weather service or a local National Weather Service station.



g. Meteorological Measuring System  
(NUREG 0654 II.C.4, II.H.5.a, II.H.6.a, II.H.8, II.I.5)

Wind speed, wind direction and temperature sensors are installed on a suitably isolated tower at elevations of approximately 30, 100 and 200 feet above plant grade. The data collected by these sensors are telemetered to the NMPNS Unit 1 and Unit 2 Control Rooms and are designed to be continuously recorded on strip charts in the Control Rooms and the TSC (wind speed/direction only). In addition to this primary tower, a single level, 90-foot tall, backup tower and a single level, 30-foot tall inland tower are maintained as alternate sources of meteorological data. This data is also available in the TSC and the EOF. Meteorological data can also be supplied by local weather stations. Regional National Weather Service offices may provide access to their meteorological data, as required. Other sources include several supplemental towers located in the general area outside the 10-mile EPZ.

#### 7.4 PROTECTIVE FACILITIES

Onsite facilities and designated assembly locations are provided which ensure adequate radiological protection for personnel assigned to emergency duties in the plant, and for the accommodation of other personnel evacuated from areas that may be affected by radiation and/or airborne radioactivity.

##### 7.4.1 Control Rooms

In addition to serving as the first line control for emergency situations, each Unit Control Room has the following features which provide protection for personnel who have control room duties throughout the course of any emergency:

- a. Adequate shielding by concrete walls to permit continuous occupancy under severe accident conditions.
- b. An independent emergency air supply system, equipped with absolute and activated charcoal filters.
- c. Continuous monitoring of radiation levels in the Control Room and throughout the plant by the Area Radiation Monitors (ARM) system, with readout in the Control Rooms.
- d. Emergency lighting and power, supplied by a 125 V dc System.
- e. Communications systems, as described in Site Emergency Plan Section 7.2.

Additional details regarding the design and inherent protective capabilities of each Unit's Control Room are discussed in the respective Nine Mile Point Nuclear Station UFSAR/USAR as appropriate.

##### 7.4.2 Technical Support Center (TSC)

The TSC serves as the long range emergency control facility for the station. To allow for long-term human occupancy during an emergency situation, the following personnel protective features have been incorporated into the design:

- a. Adequate shielding to permit continuous long term occupancy under severe accident conditions.
- b. An independent emergency air supply system, equipped with absolute and activated charcoal filters.
- c. Emergency lighting and reliable power supplies.
- d. Communications systems as described in Site Emergency Plan Section 7.2.
- e. Continuous monitoring of radiation and airborne activity levels in the TSC.

7.4.3 Onsite Assembly Areas/ Evacuation Assembly Areas  
(NUREG 0654 II.J.1.a, II.J.1.b, II.J.1.c, II.J.1.d)

Specific locations at the station are designated for assembly of personnel in the event of the need to account for all personnel within the protected area. These areas provide space to accommodate personnel who may be at the station. They are located on the basis of logical access routes and physical separation from likely areas of radiation and/or airborne radioactivity. Other areas outside of the protected area but within the exclusion area are designated locations (evacuation assembly areas) to which non-essential personnel are required to report during a Protected Area Evacuation. The purpose of these locations is to provide a location close to the protected area to allow for rapid return of personnel following termination of the emergency, yet outside of the protected area and away from any potential unnecessary exposure.

Upon announcement of a Protected Area Evacuation, personnel in the protected area, including office personnel and visitors, evacuate immediately to the designated Evacuation Assembly Areas. As they exit through the security access, they card out. The Control Room Operators remain in the Control Rooms and other operators on-site (on-shift, relief or operators in training) report to the OSC. TSC and OSC staff card in and remain in their respective emergency facilities, which are designated as assembly areas. Designated security personnel assemble at the Main Security Building, and the Alternate Access Point.

Adequate shelter from inclement weather is provided. Onsite Assembly Areas are described in procedure CNG-EP-1.01-1009. The responsibility to ensure that a visitor evacuates to the proper area rests with the individual accompanying the visitor at the time evacuation occurs.

#### 7.4.4 Off-site Assembly Area (NUREG 0654 II.J.3, II.J.4, II.K.5.b, II.K.7)

The purpose of the Off-site Assembly Area (OAA) is to provide a location for the assembly, monitoring, and, if necessary, decontamination of the personnel who leave the site following an Exclusion Area Evacuation.

The Oswego County Airport, Hanger K; in Volney, New York, is designated as the Off-site Assembly Area. This facility is located approximately 12 miles from the site.

Personnel may be monitored for contamination upon arrival at the OAA. Decontamination will be done in accordance with normal station procedures. Supplies are available at the OAA such as: protective clothing and decontamination supplies. Detailed personnel and equipment decontamination methods, and techniques for removal of radioiodine and other particulates are contained in station Radiation Protection procedures.

#### 7.5 ON-SITE FIRST AID AND MEDICAL FACILITIES

A first aid treatment facility, equipped with industrial first aid supplies, is located near the Locker Rooms in the Unit 1 Administration Building. The Site Medical Facility is also equipped with industrial first aid supplies and is located in the P Building at Unit 2. A listing of first aid equipment that is located within the Protected Area is contained in EPMP-EPP-02.

Additional medical equipment is provided at designated locations throughout the station.

#### 7.6 DECONTAMINATION FACILITIES FOR EMERGENCY PERSONNEL (NUREG 0654 II.C.4; II.K.5.b)

Personnel decontamination rooms are located in the Unit 1 Administration Building and the Unit 2 Control Building. These are the primary facilities for decontaminating emergency personnel. If these facilities are unavailable for any reason, emergency personnel may be decontaminated at the JAFNPP facility.

The liquid waste from each of these decontamination facilities is disposed of via the respective plants liquid radwaste system. Solid waste is disposed of in containers provided for this purpose located at each decontamination facility. If additional decontamination facilities are necessary, the station locker room shower facilities can be used on an interim basis for performing decontamination, even though they do not drain to radwaste.

## 7.7 DAMAGE CONTROL EQUIPMENT

Damage control equipment consists of normal and special purpose tools and devices used for emergency maintenance functions throughout the station. Personnel assigned to damage control teams are cognizant of the locations of specific equipment which may be required in an emergency. The Rescue Cabinet inventory, Damage Control Tool Box inventory and shoring materials, including scaffolding (stored in the Unit 1 Turbine Building), and various shapes of angle iron, plate and bar stock are available through the warehouse. Heavy duty and specialized equipment, and trained equipment operators, can be provided if necessary.

## 7.8 EMERGENCY VEHICLES

NMPNS has access to helicopters and fixed wing aircraft. Their use can be requested to assist in an emergency response effort through the Emergency Operations Facility (EOF). The EOF also coordinates the use of helicopters operated by the New York State Police, Oswego County and Onondaga County. Also, keys for selected site vehicles are maintained in Control Rooms, and the OSC.

## 8.0 MAINTAINING EMERGENCY PREPAREDNESS

A concept of in-depth preparedness is employed regarding the Nine Mile Point Nuclear Station Emergency Preparedness Program. This concept is accomplished through training, emergency drills and exercises. Personnel are trained to provide an in-depth response capability for required actions in an emergency situation. Similarly, members of the population within the emergency planning zone are informed as to their expected response to an emergency at the Nine Mile Point Nuclear Station. This section of the Site Emergency Plan includes the means to achieve and maintain emergency preparedness and to ensure maintenance of an effective emergency program.

### 8.1 ORGANIZATIONAL PREPAREDNESS

#### 8.1.1 Training (NUREG 0654 II.G.5; II.O.1.a & b; II.O.4.d, g, h; II.P.1)

The Manager Training is responsible for the Emergency Preparedness Training and Qualification Program provided to ERO personnel in accredited programs (Operations, Maintenance, Radiation Protection, Engineering and Chemistry).

The Director of Emergency Preparedness is responsible for maintenance of all non-accredited ERO personnel position specific qualifications. Training requirements for ERO personnel are detailed in EPMP-EPP-11, Emergency Preparedness Training Program

The NMP Senior Communications Consultant coordinates with the Oswego County Emergency Management Office to schedule public news organization training, administer the training and provide records of the activities to the Emergency Preparedness Department for record retention. The Director, Oswego County Emergency Management Office is responsible for planning and conducting emergency preparedness training for emergency response personnel in Oswego County.

Emergency training includes, as appropriate:

- a. Unescorted personnel entering or working within the Nine Mile Point Nuclear Station Protected Area receive, as a minimum, orientation regarding individual employee responsibilities, response to station alarms, the use of applicable station communications systems and requirements associated with personnel accountability and evacuations.
- b. Temporary work force personnel onsite are informed of their emergency response in accordance with applicable procedures for evacuations, and accountability.
- c. Personnel assigned to the NMPNS ERO with specific emergency preparedness duties and responsibilities receive specialized training for their respective assignments. Site Emergency Plan Figure 8.2 delineates which personnel receive specialized training, the type of training and the required frequency of such training. This table is a summary of the requirements specified in EPMP-EPP-11, Emergency Preparedness Training Program.

- d. The New York State Office of Emergency Management develops, conducts, and coordinates a training program for State personnel and may assist the County in developing training policy for disaster operational readiness. The Oswego County Emergency Management Director is responsible for planning and conducting emergency preparedness training of county emergency response personnel. The New York State Division of Military and Naval Affairs, has the responsibility for a statewide warning and communication system and may be requested to assist State and local agencies in specific disasters.
- e. The key personnel from the emergency/disaster services organizations listed below are invited, on an annual basis, to participate in a training program. The program, as appropriate, identifies interfaces between the NMPNS emergency organizations and the offsite (i.e., State, County and Federal) emergency organizations.

The program shall include a review of appropriate sections of the NMPNS Site Emergency Plan and appropriate Emergency Plan Implementing Procedures including: classification of emergencies; emergency action levels; reporting requirements; assessment, protective and corrective actions; and communications networks. The organizations invited include but are not limited to:

- 1) New York State Office of Emergency Management
- 2) New York State Department of Health
- 3) Oswego County Emergency Management Office

- f. NMPNS provides for training to local offsite support organizations as specified in respective letters of agreement and as required to ensure a high state of emergency preparedness and response capability of these organizations. The local organizations that may provide onsite emergency assistance are encouraged to become familiar with the Nine Mile Point Nuclear Station (including the physical plant layout, site access arrangements and procedures, and key station personnel), and are invited to attend emergency preparedness training conducted by NMPNS. Such training is provided annually to the appropriate organizations and individuals:

- 1) The local fire, local law enforcement and ambulance companies are invited to participate in a training program that may include but is not limited to:
  - i. Interface with the NMPNS Security Force during emergencies
  - ii. Basic health physics training
  - iii. Nine Mile Point Nuclear Station facility layout including arrangements and procedures for site access for Offsite Response Organization Responders
  - iv. Onsite fire protection system equipment (permanent and portable)
  - v. Differences between onsite firefighting equipment and fire company supplied equipment

- vi. Communications system
  - vii. Review of appropriate sections of the NMPNS Emergency Plan and Emergency Implementing Procedures
  - viii. The onsite emergency organization including the interface with the Nine Mile Point Nuclear Station Fire Brigade
- 2) The local medical support organizations and individuals are invited to participate in a training program that may include but is not limited to:
- i. Communications systems
  - ii. The onsite emergency organization including the interface between NMPNS Radiation Protection personnel, the local medical support personnel, and the radiation medicine consultants (Oswego Hospital, University Hospital or others)
  - iii. Radiological aspects of emergency medical treatment
  - iv. Nine Mile Point Nuclear Station Emergency Plan Implementing Procedures and Radiation Protection Procedures for decontamination
  - v. Review of appropriate sections of the radiation emergency plans and/or procedures of the Oswego Hospital and University Hospital
- g. Annually, a program to acquaint the news media (that is, major public news organizations serving the NMPNS area, such as local radio/TV stations, newspapers, local wire service offices and local correspondents to national news media) with the NMPNS emergency plan, information concerning radiation, the emergency classification scheme and points of contact for release of public information during an emergency, will be conducted.
- h. Personnel responsible for the Nine Mile Point emergency preparedness effort receive appropriate training to maintain their level of competency. The Director, Emergency Preparedness and staff attend relevant seminars and meetings on emergency preparedness issues, such as those held by the NRC/FEMA and Nuclear Energy Institute. In addition, appropriate technical literature (such as any information received from NEI, FEMA, NRC, etc.) is reviewed to assist in maintaining this competency. Training requirements for NMP personnel responsible for the emergency planning effort are contained in CNG-EP-1.01-1003.

8.1.2 Exercises and Drills (10CFR50 Appendix E, NUREG 0654 II.N.1a,b, II.N.2a-e, II.N.3a-f, II. N.4, II.N.5, II.O.2)

Exercises are realistic, pre-planned simulations of accidents, designed and conducted so that the response of the emergency organization closely approximates their response to an actual incident. Drills are pre-planned simulations in which the participants are "walked" or "talked" through one or more procedures, or aspects of the Site Emergency Plan. The primary purpose of drills is to provide individuals with hands-on training in a controlled situation. During practical drills on-the-spot correction of erroneous performance may be made and a demonstration of the proper performance offered by the instructor/controller. Drills are evaluated by drill controllers and observers. The response of Division personnel to an actual emergency condition may be allowed to satisfy a particular drill requirement, provided that a critique is performed and documented in the manner specified for a drill. In addition, selected training sessions can satisfy drill requirements as allowed by procedure.

Biennial exercises and annual drills are conducted in order to test the state of emergency preparedness of participating individuals, organizations, and agencies. An exercise or drill may be conducted that simulates an emergency that results in offsite radiological releases requiring response by offsite authorities to: 1) ensure that the participants are familiar with their respective duties and responsibilities; 2) verify the adequacy of both the NMPNS Emergency Plan and the methods used in the appropriate Implementing Procedures; 3) test communications networks and systems; 4) check the availability of emergency supplies and equipment; 5) verify the operability of emergency equipment; and 6) verify adequate interrelationships with offsite agency plans. Exercise scenarios provide the ERO with the opportunity to demonstrate proficiency in the key skills necessary to implement the principal functional areas of emergency response. Principal functional areas include: Management and coordination of the emergency response, Accident assessment, Event Classification, Notification of Offsite authorities, Assessment of the Onsite/offsite impact of radiological releases, Protective Action Recommendation development, Protective Action decision making, Plant system repair and mitigative action implementation, Public Notification /Information processes. Biennial Exercise scenarios are submitted to the NRC for review and approval. Biennial Exercises are evaluated and graded by the NRC and FEMA to determine that there is "reasonable assurance" that adequate protective measures will be taken in the event of an emergency. The NRC may require a remedial exercise if they cannot find reasonable assurance or determine that the ERO has maintained the key skills specific to emergency response. All Drills and exercises that provide performance opportunities to develop, maintain or demonstrate key skills, provide for a formal critique with controllers and players following the completion of the drill. The critiques are to identify weak or deficient areas that need correction. During the critique, comments are gathered which are used to improve the emergency preparedness program, and a final assessment of the drill or exercise is made. Weaknesses or deficiencies identified in critiques are corrected and tracked through the Corrective Action Program.

The Site Emergency Preparedness Manager is responsible for planning, scheduling, and coordinating emergency planning related exercises and drills. The Fire Marshal, in conjunction with the Manager Operations and the Manager Training, is responsible for



planning, scheduling, and coordinating Fire Brigade related drills. Drills are subject to management review. The Site Emergency Preparedness Manager is responsible for reviewing pre-exercise information to ensure only appropriate information is provided to the participants. In addition, participants are not permitted to review or otherwise view exercise scenarios.

Exercises and drills are conducted to simulate actual emergency conditions as closely as possible and may be scheduled such that more than one drill or exercise can be conducted simultaneously. Scenarios are prepared that emphasize coordination among onsite and offsite organizations as appropriate and may involve participation by the Nine Mile Point Fire Brigade; monitoring teams; varying degrees of participation of county, state, and Federal agencies and organizations and local offsite support personnel and organizations.

Scenarios are varied and include a wide spectrum of radiological releases and events. These events include hostile actions, no or minimal radiological release, initial or rapid Site Area or General Emergency declarations, Severe Accident Management and Large Area Loss (10CFR50.54(hh)(2)), integration of offsite resource and events that simultaneously involve both NMP and JAF.

Emergency Preparedness Drills and Exercises may include: communications drills, fire drills, medical emergency drills, radiological monitoring drills, and health physics drills. EOF activation drills are periodically conducted to maintain the proficiency of the EOF staff. Drills/Exercises are planned and scheduled in accordance with CNG-EP-1.01-1005 and CNG-EP-1.01-1006. They are evaluated in accordance with CNG-EP-1.01-1007.

### 8.1.3 Site Emergency Preparedness Manager (NUREG 0654 II.P.2, II.P.3)

The Site Emergency Preparedness Manager is the individual with overall responsibility and authority for radiological emergency response preparedness for the NMPNS. See Figure 8.1 for Emergency Preparedness organization.

The primary duties of the Site Emergency Preparedness Manager include, but are not limited to:

- a. Ensuring the coordination of the NMPNS Emergency Plans with:
  - 1) Federal Plans
  - 2) State Plans
  - 3) County Plans
  - 4) NMPNS Physical Security Plan
  - 5) NMPNS Fire Protection Plan
- b. Ensuring that the information, in the Emergency Plan Implementing Procedures are consistent with the NMPNS Site Emergency Plan.

- c. Ensuring that the Emergency Plan Implementing Procedures interface properly with the Administrative Procedures, Security Procedures, Chemistry Procedures, Radiation Protection Procedures, Special Operating Procedures, Emergency Operating Procedures, Severe Accident Procedures, and Training Procedures.
- d. Assisting the Manager Training in coordinating emergency planning related specialty training.
- e. Coordinating emergency preparedness related drills and exercises.
- f. Coordinating the review and update of the NMPNS Emergency Plan and Emergency Plan Implementing Procedures.
- g. Ensuring the maintenance and inventory of emergency equipment and supplies by scheduling inventory surveillances.
- h. Keeping abreast of changes in Federal regulations and guidance that may affect emergency planning.
- i. Ensuring qualified review of exercise materials and scenarios.

## 8.2 REVIEWING AND UPDATING OF PLANS AND PROCEDURES (NUREG 0654 II.P.4, II.P.5)

### 8.2.1 Responsibility for Reviewing and Updating (NUREG 0654 II.P.9)

Reviewing and updating of the NMPNS Emergency Plan and Emergency Plan Implementing Procedures are the responsibilities of the Site Emergency Preparedness Manager. Reviews of the plan and procedures are performed annually by the Site Emergency Preparedness Manager and/or the Emergency Preparedness staff. Recommended changes are reviewed and approved in accordance with NMPNS Administrative Procedures. An independent review of the emergency preparedness program and implementing procedures shall be conducted, in accordance with 10CFR50.54(t), at least every 24 months or as necessary based on an assessment by the licensee against performance indicators, and as soon as reasonably practicable after a change occurs in personnel, procedures, equipment, or facilities that potentially could adversely affect emergency preparedness, but no longer than 12 months after the change. This review will be conducted by Quality and Performance Assessment as part of the QA Audit program, under the cognizance of the Nuclear Safety Review Board (NSRB).

### 8.2.2 Changes to the Plans or Procedures (NUREG 0654 II.P.10)

Any recommendation for corrective actions or revisions to the NMPNS Emergency Plans and the Emergency Plan Implementing Procedures shall be forwarded to the Site Emergency Preparedness Manager. These recommendations may result from audits, exercises, drills, changes in operating procedures or conditions, or changes in organization, equipment,

personnel, phone numbers or methods of communication or operation. The Site Emergency Preparedness Manager shall implement approved recommendations for changes in accordance with station procedures. Review and approval of these recommended changes shall be conducted in accordance with Technical Specifications and Administrative Procedures. The letters of agreement will be updated at least every 2 years. Verification of the telephone numbers found in the Site Emergency Plan and Implementing Procedures occurs quarterly in accordance with EPMP-EPP-02.

#### 8.2.3 Recertification of Plans and Procedures (NUREG 0654 II.P.5)

The Emergency Plan and procedures are reviewed annually in accordance with site administrative procedures. The Emergency Plan is recertified annually in accordance with CNG-EP-1.01-1002. Emergency plans and procedures are written to comply with the guidance in the Procedure Writers Manual. Changes will be submitted for approval in accordance with Technical Specifications and Administrative procedures and distributed to official copy holders.

#### 8.2.4 Distribution

Holders of official copies of the Nine Mile Point Nuclear Station Site Emergency Plan (SEP) receive approved changes to the SEP so that they can maintain their copies current.

### 8.3 MAINTENANCE AND INVENTORY OF EMERGENCY EQUIPMENT AND SUPPLIES

#### 8.3.1 Responsibility for Maintenance and Inventory

The Site Emergency Preparedness Manager is responsible for ensuring the maintenance and inventory of emergency equipment and supplies. The authority for planning, scheduling, and performing the quarterly inventory and inspection of designated emergency equipment and supplies has been delegated as outlined in EPMP-EPP-02.

#### 8.3.2 Maintenance and Inventory (NUREG 0654 II.F.3, II.H.10)

Emergency supplies are inspected and inventoried as specified in EPMP-EPP-02. Instruments will be inspected for operability and calibration status in accordance with station calibration procedures. Instruments with expired calibrations or instruments with calibrations which will expire prior to the next inspection/inventory will be removed and calibrated, or replaced with calibrated equipment prior to their expiration date. Sufficient instruments are available to replace those removed from service for calibration or repair. Procedures for instrument calibration are contained in the station procedures. Calibration intervals meet or exceed any written recommendations of the manufacturers of the equipment. In addition, emergency communications systems involving dedicated telephone lines, base station, portable and console radios are tested periodically in accordance with EPMP-EPP-02.

#### 8.3.3 Discrepancies

Any discrepancies found during inventory and inspection will be corrected as detailed in EPMP-EPP-02

#### 8.4 PUBLIC EDUCATION AND INFORMATION

##### 8.4.1 Instructional Material (NUREG 0654 II.E.7, II.G.1, II.G.2)

The NMPNS, in cooperation with the James A. Fitzpatrick Nuclear Power Plant and with state and county authorities, develop and periodically disseminate emergency planning instructional material to residents and transient populations in the Emergency Planning Zone (EPZ). This ensures that the permanent and transient adult population is provided an adequate opportunity to become aware of this information. This instructional material includes basic education information on:

- Basic educational information on radiation
- Public notification system
- Public response to warning signals
- Protective measures
- Sheltering procedures
- Evacuation routes and procedures
- Special needs of the handicapped
- Contact for additional information

##### 8.4.2 Dissemination of Instructional Material (NUREG 0654 II.G.1, II.G.2)

The following methods may be used to ensure that emergency planning information is transmitted to residents and transients in the EPZ:

- Advertisements summarizing the actions to be taken by residents are published annually in the local newspapers
- Printed instructions and evacuation maps are distributed to EPZ residents
- Printed instructions are included in the local telephone directory
- Printed instructions and evacuation maps are distributed to motels, hotels and recreation areas

A sample of this material is retained in the Emergency Preparedness Permanent Plant File. This material is developed and distributed periodically as required by CNG-EP-1.01-1002.

FIGURE 8.1  
EMERGENCY PREPAREDNESS DEPARTMENT  
NUREG 0654 II.P.2

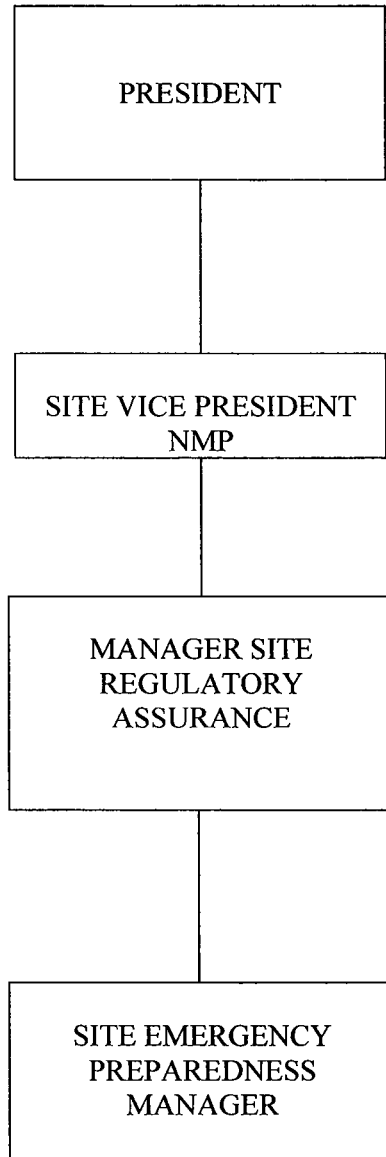


FIGURE 8.2  
INITIAL TRAINING AND PERIODIC RETRAINING  
 NUREG 0654 II.O.3, II.O.4, II.O.5

Emergency Response Category	Involved Personnel (Typical)	Initial Training and Periodic Retraining
1. <u>Emergency Plan Indoctrination</u>	Persons granted unescorted access to the Protected Area	<u>Initial</u> - Emergency Plan content and implementation; specifically: personal actions, warnings, assembly areas, use of station communications, personnel accountability and evacuation to an offsite assembly area.
2. <u>Emergency Directors/ ERF Coordinators</u>	Plant Manager; Managers of Operations, SMs, Initial responders, and others as designated	<u>Initial</u> - Instruction on the scope, responsibilities, and function of the Emergency Plan and Implementing Procedures, including Incident Command System (ICS) concepts, position titles and terminology.  <u>Periodic</u> - On an annual basis. Review of any changes made since the last training period.
3. Personnel responsible for <u>accident assessment</u> and/or <u>accident management</u>	SM/Emergency Director and the Emergency Director at EOF, TSC, OSC and EOF Managers; and Alternates	<u>Initial</u> - Instruction on the NMPNS Emergency Plan and Implementing Procedures and Technical Support Guidelines germane to their particular assessment/management function, including Incident Command System (ICS) concepts, position titles and terminology.  <u>Periodic</u> - Retraining will be on an annual basis and will include a review of the above material and any changes made since the last training period.
4. <u>Radiological Monitoring /Analysis personnel</u>	Radiation Management Supervisors, Radiation Protection Technicians, and others as designated	Selected Radiation Protection personnel receive substantial training in radiation monitoring.  <u>Initial</u> - Training for personnel performing radiation monitoring and analysis duties will consist of instruction in the downwind and/or inplant radiation monitoring and sampling Implementing Procedures, including Incident Command System (ICS) concepts, position titles and terminology.  <u>Periodic</u> - Retraining will be on an annual basis with hands-on instrumentation usage including interpretation of results.

FIGURE 8.2 (Cont)  
INITIAL TRAINING AND PERIODIC RETRAINING  
 NUREG 0654 II.O.3, II.O.4, II.O.5

Emergency Response Category	Involved Personnel (Typical)	Initial Training and Periodic Retraining
5. <u>Fire Response /First Aid/Rescue/Medical Support</u>	NMPNS Fire Brigade/Offsite Fire Departments Ambulance and Hospital Personnel	Designated members will receive training as appropriate in basic patient care and treatment. Members will also be instructed on the availability of onsite medical treatment supplies and equipment; communication systems; access controls radiological hazards; and roles, interfaces and responsibilities with local fire/ medical support personnel, including Incident Command System (ICS) concepts, position titles and terminology.
6. <u>Damage Control/Repair Teams personnel</u>	Nuclear Operators, Nuclear Auxiliary Operators, Maintenance Supervision, I&C Supervision, Radiation Protection Supervision Selected Maintenance, I&C and Radiation Protection Personnel, and others as designated	Repair and Damage Control are considered a normal part of the job functions of the listed personnel and, as such, special training in these functions, other than appropriate emergency plan and procedures training, is not required.
7. <u>Security Personnel/Local Law Enforcement Officials</u>	Security personnel assigned responsibilities for Emergency Plan function, and Local Law Enforcement Officials.	Training and retraining requirements are outlined in the Nine Mile Point Nuclear Security Training and Qualification Plan, including Incident Command System (ICS) concepts, position titles and terminology.
8. <u>Communication Personnel</u>	As designated	<u>Initial</u> - Training shall consist of a review of appropriate Implementing Procedures, communications equipment and messages, including Incident Command System (ICS) concepts, position titles and terminology.  <u>Periodic</u> - Retraining will be conducted annually.

## 9.0 RECOVERY

Actions taken during an emergency situation fall into two general categories; response and recovery. Response actions are those taken to manage the consequences of an emergency and to bring the emergency under control. Recovery actions are those longer term actions taken to restore the station, as nearly as possible, to its pre-emergency condition.

This section describes recovery actions and establishes typical criteria for declaring that an emergency has entered the recovery phase.

### 9.1 PROGRESSION FROM EMERGENCY RESPONSE TO RECOVERY

The two general action categories, response and recovery, are directed by separate organizations: the On-Site Emergency Organization is responsible for initial response while the Recovery Organization is responsible for long term response and recovery.

#### 9.1.1 Re-entry Phase (NUREG 0654 II.M.1)

The Re-entry Phase is the period following evacuation during which access to the station is restricted. This period can commence with the start of the emergency, or can develop as the emergency progresses, and may last into the recovery phase. Re-entry may be made to perform essential tasks such as saving human life, controlling release of radioactive materials, and preventing additional damage to plant and equipment.

Additional actions to be taken during the Re-entry Phase are controlled by implementing procedures and will be directed by the Emergency Director or the Recovery Manager (RM). Planning for re-entry will include evaluation of available survey data, review of exposures incurred, projection of manpower and equipment needs, and re-entry survey team activation. Upon re-entry a comprehensive survey of the plant will be made to define radiological problem areas. Data gathered during the re-entry operation and additional information developed by the various technical support groups will be assessed and used in developing subsequent recovery plans.

The planned radiation exposure limits for re-entry should be consistent with 10 CFR 20. If the need arises for exposures in excess of the limits of 10 CFR 20, the ED may institute the higher limits identified in Section 6.0 of the NMPNS Site Emergency Plan.

#### 9.1.2 Termination of Emergency Phase

The Emergency Director will periodically evaluate and assess the status of the emergency, the effectiveness of emergency actions, and the need to update the emergency class. The Emergency Director, in consultation with the TSC Manager and offsite authorities, will determine when the emergency phase has ended. Notification of the appropriate authorities (e.g., county, state, and federal agencies, etc.) and the Emergency Response Organization will then take place. Criteria for declaring an emergency situation resolved is dependent on the emergency classification declared but may include:



- Radiation levels in all in-plant areas are stable or are decreasing with time.
- Reactor and associated systems are in a safe, stable condition, a reactor cool-down is in progress and it has been determined that the plant has the ability to achieve and maintain a cold shutdown condition.
- Releases of radioactive materials to the environment are under control or have ceased.
- Any fire, flooding or similar emergency conditions are under control or have ceased.
- Drywell pressure is at normal levels.

Emergency Plan Implementing Procedure CNG-EP-1.01-1022 provides the specific guidance on termination of the emergency phase and commencement of the recovery phase.

### 9.1.3 Recovery Phase

During the initial stage of the Recovery Phase, data gathered from re-entry operations and additional information developed by the various technical support groups will be assessed. A plan of action for returning the plant to a condition within Technical Specifications limits will be developed using the guidance provided in CNG-EP-1.01-1022.

## 9.2 RECOVERY OPERATIONS (NUREG 0654 II.B.7.b, II.M.1)

Recovery operations necessary to restore the plant to an operational condition will be conducted within the framework of the Recovery Organization. From the EOF, the ED or RM and EOF staff will direct entry into recovery operations.

Specific recovery tasks and the sequence in which they are performed will be at the direction of the Recovery Manager. The Recovery Manager will be responsible for deactivating the Recovery Organization. Activities for which the Recovery Organization is responsible during the recovery phase include, but are not necessarily limited to, the following:

- a. Logistical
- b. Corrective Actions
- c. Engineering
- d. Radiological
- e. Administrative

Procedures detailing performance of the above tasks will be developed if required, during the recovery phase.

During recovery operations, the radiation exposure limits of 10 CFR 20 apply. Compliance with those limits will be the responsibility of the Recovery Manager via the applicable Health Physics organization.

Recovery actions that plan for or may result in radioactive releases will be evaluated by the Recovery Manager and EOF staff as far in advance of the action as possible. These actions and data pertaining to the release will be reported to the appropriate off-site emergency response organizations and agencies.

### 9.3 EMERGENCY ORGANIZATION TRANSFORMATIONS (NUREG 0654 II.M.3)

The emergency response organization may go through a series of transformations depending upon the time of initiation, type, severity and duration of the emergency condition.

A long-term recovery organization that is general in nature has been defined. The transition to the Recovery Organization will be communicated to concerned parties by the Recovery Manager, via the ERF managers/coordinators.

### 9.4 RECOVERY ORGANIZATION (NUREG 0654 II.B.8)

The Recovery Organization is comprised of two major groups: Functional and Support. (See Figure 9-1)

The Functional Group is essentially comprised of the normal station organization and would be responsible for the development and implementation of plans and procedures necessary for the long-term emergency response and recovery operations. The Functional Group is directed and coordinated by the RM through the Plant General Manager, the Manager Engineering Services, the Manager of Maintenance and the Manager of Work Control and Outage Management. The Functional Group utilizes personnel performing duties they normally perform, such as; Operations, Maintenance, Engineering, Chemistry, Radiation Protection and Outage Management.

The Support Group is comprised essentially of those positions established in the augmentation of the initial on shift emergency response at the Emergency Operations Facility with the addition of the following managers/directors providing support functions as required/needed: Director Human Resources, Manager Training, Director Business Planning, Budgeting, and Cost Control, JIC Director, Manager Quality and Performance Assessment, Manager Security and Emergency Preparedness (Corporate), Manager Procurement and Warehouse Services (Corporate), Manager IT and Telecommunications Services (Corporate). The Support Group would assist the Functional Group in areas such as plant modification, design, construction, recovery engineering, quality assurance/control, and administrative support functions such as purchasing, transportation, treasury, materials management, communications, legal, claims, and risk management, etc.

Other personnel may be called upon to enable the Recovery Organization to function on a 24 hour per day basis for extended periods or to provide special expertise in specific areas as dictated by the type and severity of the particular emergency.

#### 9.4.1 Recovery Organization Staff

As stated above, the recovery organization is comprised of positions already in place during the emergency, and other staff performing normal functions. Examples of additional staff that may be called on to support the recovery operations are described below. It is expected that the additional staff will be performing duties similar to those they are normally expected to perform on a day to day basis, thus additional training for these positions is not required.

##### 9.4.1.1 Functional Group

###### a. Plant General Manager

The Plant General Manager is the typical designee for this position. The Plant General Manager reports to the Recovery Manager during the recovery phase of an emergency and is responsible for obtaining and coordinating services from the various departments that are the normal direct reports to this position. Additionally, the Plant General Manager has responsibility for oversight of the Plant Operations Review Committee (PORC). These services/departments may include:

- Operations
- Radiation Protection
- Chemistry
- Reactor Engineering

The Plant General Manager will be expected to ensure that staffing and work schedules are setup as required to support the recovery organization.

###### b. Manager Engineering Services

The Manager Engineering Services is the typical designee for this position. This position reports to the Recovery Manager during the recovery phase of an emergency and is responsible for obtaining and coordinating services from the various departments that are the normal direct reports to this position. These services/departments may include:

- Electrical Engineering
- Mechanical Engineering
- Thermo-hydraulic Engineering
- Structural Engineering
- Systems Engineering

The Manager Engineering Services will be expected to ensure that staffing and work schedules are setup as required to support the recovery organization.

###### c. Manager Maintenance

The Manager Maintenance is the typical designee for this position. This position reports to the Recovery Manager during the recovery phase of an emergency and is responsible for obtaining and coordinating services from the various departments that are the normal direct reports to this position. These services/departments may include any of the maintenance disciplines (electrical, mechanical, I & C).

The Maintenance Manager will be expected to ensure that staffing and work schedules are setup as required to support the recovery organization.

d. Manager Integrated Work Management

The Manager Integrated Work Management is the typical designee for this position. This position reports to the Recovery Manager during the recovery phase of an emergency and is responsible for obtaining and coordinating services from the various departments that are the normal direct reports to this position. These services/departments may include: work control, outage planning and scheduling, project management and onsite material procurement services.

The Manager Integrated Work Management will be expected to ensure that staffing and work schedules are setup as required to support the recovery organization.

9.4.1.2 Support Group

a. Manager Training

The Manager Training is the typical designee for this position. This position reports to the Recovery Manager during the recovery phase of an emergency and is responsible for providing whatever training services are required.

b. Director Human Resources

The Director Human Resources is the typical designee for this position. This position reports to the Recovery Manager during the recovery phase of an emergency and is responsible for providing all necessary aspects of human resources, including occupational health and safety aspects as required.

c. Director Finance and Business Operations

The Director Finance and Business Operations is the typical designee for this position. This position reports to the Recovery Manager during the recovery phase of an emergency and is responsible for ensuring all necessary business management aspects of the emergency recovery are provided for as required.

d. Director Quality & Performance Assessment

The Director Quality and Performance Assessment is the typical designee for this position. This position reports to the Recovery Manager during the recovery phase of an emergency and is responsible for ensuring all quality aspects of the emergency recovery as required.

e. Managers (Corporate)

The Managers of Security and Emergency Preparedness, Procurement and Warehouse Services, and Information Technology and Telecommunications are the typical designees for these positions. These positions, as requested, report to the ALM during the recovery phase of an emergency and are responsible for obtaining and coordinating services from their departments. These services may include:

- Nuclear Security
- Emergency Preparedness
- Technical Services
- Procurement
- Site Services

The Managers (Corporate) will be expected to ensure that staffing and work schedules are setup as required to support the recovery organization.

9.4.2 Augmentation of the Emergency Response/ Recovery Organization  
(NUREG 0654 II.C.4)

Additional augmentation may be necessary, as the situation dictates, by the Institute for Nuclear Power Operations (technical personnel and equipment), by the NSSS vendor (technical personnel, equipment and replacement parts as needed) and by other local nuclear power plants (survey teams and laboratory facilities).

9.4.2.1 Contract Services

Long-term emergency response and recovery activities may require additional personnel and equipment.

When contracted services are required, the normal practice of assigning a NMPNS employee to administer the contracted service, i.e., provide overall technical direction, coordination, and review, will be employed to ensure the actions of the contractor support the needs of the recovery operation.

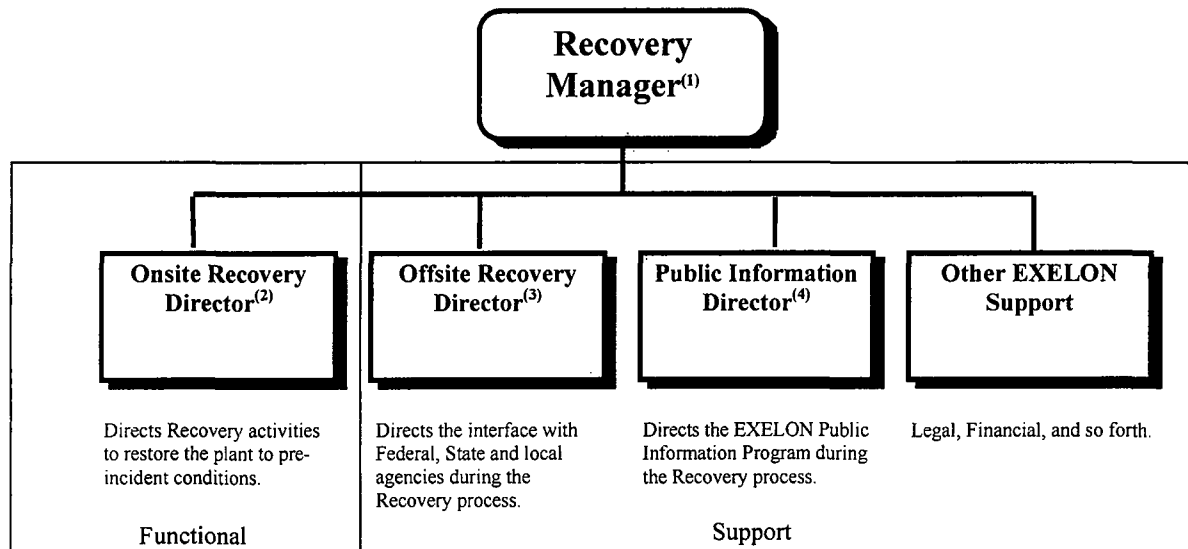
9.4.2.2 Local Support Services

Local support services necessary to support a large influx of personnel from the contractors, vendors and government support organizations may be required. These services include items such as:

- Lodging
- Food
- Transportation

There are sufficient facilities in the vicinity of the station to supply these basic services. Individual contracts will be negotiated for these facilities as necessary.

Figure 9.1: Typical Recovery Organization (for Site Area or General Emergency)



**NOTES:**

- (1) The Recovery Manager position will normally be filled by a Vice President- or designee. IF the station VP does not fill position the Recovery Manger reports to the VP.
- (2) The Onsite Recovery Director position will normally be filled by the Plant Manager or designee. The normal plant staff will support recovery activities as required. A special Radiological Controls Manager and/or Administrative and Logistics Manager may need to be appointed for events which involving severe plant damage or large releases of radioactive materials inside or outside the plant.
- (3) The Offsite Recovery Director position will normally be filled by the Site Emergency Preparedness Manager or designee. Radiological support positions should be designated to support offsite recovery activities if there was a significant release of radioactive materials.
- (4) The Public Information Director position will normally be filled by the Communications Department personnel.
- (5) Other positions may be designated to support completion of the Recovery Plan as needed.

SECTION 10

APPENDICES

- A. LETTERS OF AGREEMENT
- B. WIND ROSES
- C. EMERGENCY PLAN IMPLEMENTING PROCEDURES
- D. EQUIPMENT INFORMATION
- E. OSWEGO COUNTY RADIOLOGICAL EMERGENCY RESPONSE PLAN AND  
NEW YORK STATE RADIOLOGICAL EMERGENCY RESPONSE PLAN
- F. EVACUATION TIME ESTIMATES FOR THE JAMES A. FITZPATRICK/NINE MILE  
EMERGENCY PLANNING ZONE
- G. NUREG-0654/FEMA-REP-1 CROSS REFERENCE INDEX
- H. TYPICAL ADDITIONAL SUPPORT RESOURCES
- I. COMMITMENTS
- J. RESOURCE MATERIAL
- K. ON SHIFT STAFFING ANALYSIS

APPENDIX A

LETTERS OF AGREEMENT



APPENDIX A

LETTERS OF AGREEMENT

(NUREG 0654 II.A.3; II.B.9; II.C.4; II.F.1.a; II.I.1.a; II.L.1; II.L.4)

The up-to-date Letters of Agreement are maintained under separate cover in the Emergency Preparedness Group's file but are considered to be incorporated as part of this document by reference.		
<b>Current Letters of Agreement exist between NMPNS and:</b>	<b>In regards to</b>	<b>SEP SECTION</b>
1) EA Engineering, Science, and Technology	Provides technical assistance	1.2, 5.2.5.5.a, 5.2.7.c, 5.3.4
2) James A. Fitzpatrick Nuclear Plant R. E. Ginna Nuclear Plant	Each provides personnel, equipment, and facilities as required. JAF provides for siren mechanical maintenance, and laboratory services	5.3, 5.3.4, 5.3.5, 6.4.2, 6.4.3, 6.5.3, 6.8.1, 7.3.2, 7.3.3.f & h, 7.6, 8.4.1
3) General Electric	Provide assistance per SIL #324	5.3.3,
4) INPO	Provide information on the availability of personnel and equipment able to assist	5.4.1, 5.4.1.a, 9.4.2,
5) New York State	Provide assistance as per the New York State Radiological Emergency Preparedness Plan	5.3, 5.4.1.a, 6.2.2.a, 6.7.2.c, 6.9, Fig 6.2 & 6.3, 7.1.8, 7.2.1, 7.2.3, 7.3.3.b5, 8.1.1d & e
6) Derek R. Cooney, MD, FF/NREMT-P. FACEP	Provide emergency medical care	5.3.4, 6.8.4
7) County of Oswego		
a) Oswego County Emergency Management Office	Provide assistance as per the Oswego County Radiological Emergency Preparedness Plan	5.3.4, 5.4.1, 6.5.4b, 6.7.2a, b, & c, 6.9, Fig 6.2 & 6.3, 7.1.7, 7.2.3, 7.2.7, 7.3.3.b5, 8.1.1, 8.1.1f, 8.4.1
b) Oswego County 911 Center	Provides 24 hour, 7 day a week contact point for local fire and ambulance service.	5.3.4, 6.8.3, Fig 6.2 & 6.3, 7.2.1, 7.2.3, 7.2.7
c) Oswego County Sheriff's Department	Provides for support from all local law enforcement agencies.	5.3.4, Fig. 6.2 & 6.3, 8.1.1f

**LETTERS OF AGREEMENT**  
(NUREG 0654 II.A.3; II.B.9; II.C.4; II.F.1.a; II.I.1.a; II.L.1; II.L.4)

The up-to-date Letters of Agreement are maintained under separate cover in the Emergency Preparedness Group's file but are considered to be incorporated as part of this document by reference.		
<b>Current Letters of Agreement exist between NMPNS and:</b>	<b>In regards to</b>	<b>SEP SECTION</b>
8) Oswego Hospital	Provide medical care of radioactivity contaminated patients	5.3.4, 6.8.3, 6.8.4, 7.2.1, 7.2.7, 8.1.1f
9) State University of New York, University Hospital	Provide emergency medical care for radioactively contaminated patients	5.3.4, 6.8.3, 6.8.4, 7.2.1, 7.2.7, 8.1.1f
10) Department of Energy	Provide radiological assistance Provide emergency medical assistance (REAC/TS)	5.3.4, 5.4.2b, 6.2.2a, 6.8.3
11) Oswego County Airport	Provide support for the following via service level agreement: <ul style="list-style-type: none"> <li>• Use of Hanger K for Alternate and Alternative facilities for NMPNS</li> </ul>	5.3.4, 6.7.1c, 7.4.4
12) Dr. Padma Ram, MD	Provide emergency medical care	5.3.4, 6.8.4
13) Local transportation providers	Provide for fixed wing and helicopter air service and ground transport equipment/service	5.3.4, 7.8
14) Constellation Energy Nuclear Group	Provide for assistance related to legal, treasury, claims, risk management and technical advisory group and corporate resources and services related to emergency preparedness, security, procurement, information technology and telecommunications. Provides for radiological analytical services through use of the laboratory at Calvert Cliffs	5.3.1, 5.3.4, 6.5.3, 7.3.2.b, 9.4, 9.4.1.2e,

APPENDIX B

WIND ROSES

Wind Roses may be obtained from Unit 1 UFSAR or Unit 2 USAR.

APPENDIX C

Emergency Plan Implementing Procedures

APPENDIX C

Emergency Plan Implementing Procedures  
(NUREG 0654 II.P.7)

Number	Title	Plan Section Implemented
CNG-EP-1.01-1002	Control of Emergency Preparedness Program Activities  Emergency preparedness program maintenance.	8.0
CNG-EP-1.01-1003	EP Staff Training  Requirements for training and qualification of EP staff	8.0
CNG-EP-1.01-1004	10CFR50.54Q Effectiveness Review  Process to determine whether NRC approval of changes is required prior to implementation.	8.0
CNG-EP-1.01-1005	Site Emergency Plan Demonstration Criteria  Objectives and demonstration criteria for assessing implementation of the Site Emergency Plan during drills, exercises and actual events.	8.0
CNG-EP-1.01-1006	Drill and Exercise Scheduling and Preparation  Guidance for scheduling and preparation of emergency preparedness drills and exercises	8.0
CNG-EP-1.01-1007	Evaluation and Documentation of Drills, Exercises and Classified Events  Guidance for the use of objectives and demonstration criteria to evaluate drills, exercises and events and the associated reports.	8.0
CNG-EP-1.01-1009	Assembly, Evacuation and Accountability  Methods used to conduct evacuations including protected area, exclusion area and accountability for those remaining in the protected area.	5.0, 6.0, 7.0
CNG-EP-1.01-1012	Offsite Monitoring Team Guidance  Responsibilities and actions for performing onsite and offsite emergency and environmental surveys.	6.0, 7.0
CNG-EP-1.01-1013	Emergency Classification and PARs  Criteria to classify emergencies.	4.0, 6.0
CNG-EP-1.01-1014	Emergency Exposures and KI  Actions to provide radiological controls for emergency exposure, use of KI and emergency respiratory protection	5.0, 6.0, 7.0

## APPENDIX C

### Emergency Plan Implementing Procedures (NUREG 0654 II.P.7)

Number	Title	Plan Section Implemented
CNG-EP-1.01-1015	Emergency Notifications  Instructions for prompt notification to offsite authorities, emergency response agencies and selected NMP personnel.	4.0, 5.0, 6.0, 7.0, 8.0
CNG-EP-1.01-1017	JIC Operations  Guidance for dissemination of emergency information	5.0, 6.0, 7.0
CNG-EP-1.01-1018	EOF Operations  Emergency responsibilities and duties of the EOF ERO members.	5.0, 6.0, 7.0
CNG-EP-1.01-1019	Shift Emergency Operations  Responsibilities and duties of on-shift ERO in the event of Emergency Plan activation.	5.0, 6.0, 7.0
CNG-EP-1.01-1020	TSC Operations  Emergency responsibilities and duties of the TSC ERO members.	5.0, 6.0, 7.0
CNG-EP-1.01-1021	OSC Operations  Emergency responsibilities and duties of the OSC ERO members.	5.0, 6.0, 7.0
CNG-EP-1.01-1022	Termination and Recovery  Transition into and conduct of operations during termination phase of a classified event.	9.0
CNG-EP-1.01-1025	Dose Assessment  Method to perform dose assessment and projections	5.0, 6.0, 7.0, 8.0
EPIP-EPP-01-EAL EPIP-EPP-02-EAL	Emergency Action Level Matrix Unit 1 Emergency Action Level Matrix Unit 2  Multi-colored matrices used to evaluate initiating conditions for entry into an emergency classification.	4.0, 6.0
EPIP-EPP-04	Personnel Injury or Illness  Ensuring prompt medical attention to ill or injured personnel and to prevent unnecessary spread of radioactive contamination to ambulance or hospital.	5.0, 6.0, 7.0

## APPENDIX C

### Emergency Plan Implementing Procedures (NUREG 0654 II.P.7)

Number	Title	Plan Section Implemented
EPIP-EPP-09	Determination of Core Damage Under Accident Conditions  Method to determine the degree of reactor core damage utilizing sampling and calculations based on core inventory.	6.0
EPIP-EPP-10	Security Contingency Actions  Process to establish and maintain interface during Security Contingency Events.	2.0, 5.0, 6.0
EPIP-EPP-14	Emergency Access Control  Access control for the 10 mile EPZ and the Emergency Response Facilities during an emergency.	6.0
EPIP-EPP-21	Radiation Emergencies  Handling radiation emergencies with consequences limited to the Nine Mile Point Site.	5.0, 6.0, 7.0
EPIP-EPP-26	Natural Hazard Preparation and Recovery  Preparation for and response to natural hazards and post event assessments.	8.0
EPIP-EPP-28	Fire Fighting  Prompt, efficient handling of fires on site.	5.0, 7.0
EPIP-EPP-30	Prompt Notification System Problem Response  Evaluation, notification, and corrective actions required in response to problems associated with any component of the Oswego County Prompt Notification System (PNS).	6.0
EPMP-EPP-02	Emergency Equipment Inventories and Checklists  Maintenance of emergency equipment necessary to implement the Site Emergency Plan.	8.0
EPMP-EPP-05	Emergency Preparedness Program Self Assessment  Activities to be performed to implement an effective emergency planning self-assessment/corrective action program.	8.0
EPMP-EPP-06	Emergency Response Organization Notification Maintenance and Surveillance  Guidance on maintenance and surveillance of methods used to notify the ERO for drills, exercises and emergencies.	6.0

APPENDIX C

Emergency Plan Implementing Procedures  
(NUREG 0654 II.P.7)

Number	Title	Plan Section Implemented
EPMP-EPP-08	Maintenance, Testing and Operation of the Oswego County Prompt Notification System.  Operation, testing and maintenance of Oswego County Prompt Notification System (PNS)	6.0, 8.0
EPMP-EPP-13	Equipment Important to Assuring Implementation Capability of the Emergency Preparedness Program.  Guideline to assure equipment and facilities integral to implementing the Site Emergency Plan.	
EPMP-EPP-0101 EPMP-EPP-0102	Unit 1 Emergency Classification Technical Bases Unit 2 Emergency Classification Technical Bases  Explanation and rationale for each Emergency Action Level (EAL).	4.0, 6.0
NIP-EPP-01	Emergency Response Organization Expectations and Responsibilities	5.0, 6.0
CNG-TR-1.01-1031	Composition, structure, expectation Emergency Preparedness Training Program  Initial and continuing training requirements for the ERO.	8.0



## APPENDIX D

### EQUIPMENT INFORMATION (NUREG 0654 II.H.11)

1. Equipment available for use during emergencies is described in EPMP-EPP-02 and the following statement.
2. Equipment/Facilities important to maintaining Emergency Preparedness is detailed in EPMP-EPP-13.

### **CATEGORIES OF EMERGENCY EQUIPMENT**

Equipment for use in coping with a radiation emergency which would necessitate site evacuation is stored in a number of strategic locations: the Technical Support Center, the Control Room, the Operational Support Center, and the EOF. Sufficient variety and quantities of equipment are stored in each location. Dedicated equipment is inventoried to insure it is available, using the equipment list in EPMP-EPP-02. Equipment includes radiation monitors, protective breathing equipment, communications and data retrieval capability, dosimetry and protective clothing.

The Operations Support Center contains equipment for general use, as well as equipment for specific survey team use. The general use equipment includes communications equipment, reference material, survey instruments, dosimeters, counting equipment, sampling equipment, protective clothing, and decontamination equipment.

APPENDIX E

**OSWEGO COUNTY RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN  
NEW YORK STATE RADIOLOGICAL EMERGENCY PREPAREDNESS PLAN**

(NUREG 0654 II.A.2.a,b, II.C.2.a, II.D.3, II.D.4, II.E.5, II.E.7, II.H.3,  
II.I.11, II.J.9, II.J.10.a,b,c,d,e,f,g,h,i,j,k,l,m, II.J.11,  
II.J.12, II.K.4, II.L.3, II.O.1.6, II.P.6)

The Oswego County Radiological Emergency Preparedness Plan and the New York State Radiological Emergency Preparedness Plan are submitted under separate cover but are considered to be incorporated as part of this document by reference. Locations of maps to relocation centers in host areas as required by NUREG 0654 II.J.10a are contained within the Host County Plan and is included by reference to the Oswego County Radiological Emergency Preparedness Plan.

APPENDIX F

**EVACUATION TIME ESTIMATES**

for the

James A. Fitzpatrick/Nine Mile Point

Emergency Planning Zone

(NUREG 0654 II.J.8, II.J.10a,l,m)

The Evacuation Time Estimates (ETEs) for the James A. Fitzpatrick/Nine Mile Point Emergency Planning Zone, dated November 2012, prepared by KLD Engineering, P.C. have been submitted under separate cover but is considered to be incorporated as part of this document by reference. The NRC approved this on 3/14/13 in a letter to FEMA. Further, FEMA acknowledged this approval in a letter dated 4/16/13. Additionally, the requirements of NUREG 0654 II.J.10a, for maps of evacuation routes are included within the context of the ETEs.

APPENDIX G

**NUREG-0654/FEMA-REP-1 CROSS-REFERENCE INDEX**

APPENDIX G

CROSS-REFERENCE INDEX  
BETWEEN NMPNS EMERGENCY PLAN  
AND NUREG-0654/FEMA-REP-1 REV 1  
(NUREG 0654 II.P.8)

<u>NUREG 0654</u>	<u>CRITERIA</u>	<u>NMPNS SITE EMERGENCY PLAN SECTION</u>
A.1.a	Identification of Response Organizations	5.1, 5.2, 5.9, 5.10, 5.11
A.1.b	Organization of Concept of Operations	5.1, 5.2, 5.9, 5.10, 5.11
A.1.c	Organizational Inter-Relationships- Block Diagram	Fig. 5.1, Fig. 5.2, Fig. 5.6, Fig. 5.3, Fig 5.4, Fig 5.5, Fig. 6.2, Fig. 6.3
A.1.d	Designation of Organization Director	5.1, 5.3, 5.4
A.1.e	24 Hour Response/Communication	5.1, 5.2,
A.2.a	Organization Authority	Appendix E
A.2.b	Legal Basis for Organization Authority	Appendix E
A.3	Formal Intra-Government/Organization Agreements	Appendix A
A.4	Designated Authority for Organization Resource Continuity	5.6
B.1	Provision for Onsite Shift Emergency Organization	5.1, 5.1.1, 5.1.2, 5.2 Appendix K
B.2	Designation of Onsite Emergency Coordinator	5.1, 5.2
B.3	Line of succession for the Emergency Coordinator	5.2.1, 5.2.2b, 5.2, 5.1, 5.3, 5.4
B.4	Functional Responsibilities of the Emergency Coordinator	5.2, 5.5
B.5	Qualification of Onsite Emergency Personnel	5.2, Fig. 5.1
B.6	Onsite Emergency Organization Interface	Fig. 5.1-5.6, Fig. 6.2, Fig. 6.3
B.7	Corporate level support and Table B-1	5.1, 5.8

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BETWEEN NMPNS EMERGENCY PLAN  
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(NUREG 0654 II.P.8)

<u>NUREG 0654</u>	<u>CRITERIA</u>	<u>NMPNS SITE EMERGENCY PLAN SECTION</u>
B.7.a	Logistical Support for Emergency Personnel	5.6
B.7.b	Technical Support Planning/Reentry/Recovery	9.4
B.7.c	Management level Interface with Governmental Authorities	5.6, Fig. 5.1
B.7.d	Augmentation of Media Release personnel	5.6, Fig. 5.1
B.8	Augmentation by Private Contractors/Organizations	9.4.2, 5.9, 5.10
B.9	Local Agency Support Services and Agreements	6.8, Appendix A, 5.10
C.1.a	Authority to request Federal Resources	5.2.b, 5.3, 5.6.2.a
C.1.b	Resources expected and Arrival Times	5.11
C.1.c	Support Available for Federal Response	7.1.4, 7.2, 5.11
C.2.a	Representative of State/County to EOF	Appendix E
C.2.b	NMPNS Representative to State/County EOCs	5.6.2.i, 5.6.2.j
C.3	Radiological Laboratory Capabilities	7.3.1, 7.3.2
C.4	Sources for Nuclear Assistance	7.6, 9.4.2, Appendix A, 5.9, 5.10, 6.8, 7.1.7, 7.1.8, 7.3
D.1	Facility Emergency Classification Methodology	4.1, 6.3, Fig4.1
D.2	Initiating Conditions	4.1, 6.3, Fig. 4.1
D.3	State Emergency Classification System	Appendix E
D.4	State and Local Procedures	Appendix E

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BETWEEN NMPNS EMERGENCY PLAN  
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(NUREG 0654 II.P.8)

<u>NUREG 0654</u>	<u>CRITERIA</u>	<u>NMPNS SITE EMERGENCY PLAN SECTION</u>
E.1	Bases for Notification/Verification	6.2.1, 6.2.2, 6.2.3, Fig. 6.1
E.2	Personnel Notification/Alerting/Mobilization	6.2.2, 6.2.3
E.3	Initial Emergency Message Content	6.2.1
E.4 & 4.a-n	Provisions for Content of Plant Follow up Messages	6.2.1
E.5	Dissemination of Information from Plant to Public via EAS	Appendix E
E.6	Means for Population Notification	6.2.2.a, 6.7.2, Appendix E
E.7	Provisions for Written Public Instruction Messages	6.7.2, 8.4.1, Appendix E
F.1.a	24 Hour Notification/Activation of State and County Emergency Response	5.1,5.2, 5.5,6.2.1, 6.2.2, , 7.1.7, 7.1.8, 7.2.1, 7.2.3, 7.2.8, Appendix A, Appendix E
F.1.b	Communications with State/County	Fig. 6.2, Fig. 6.3, 7.2, 7.2.3
F.1.c	Communications with Federal Emergency Response Organizations	Fig. 6.2, Fig. 6.3, 7.2, 7.2.1, 7.2.2, 7.2.4
F.1.d	Communications between Plant and EOF/State and County and monitoring teams	6.2.1, 6.2.3, Fig. 6.2, Fig. 6.3, 7.2, 7.2.1, 7.2.3, 7.2.4, 7.2.6, 7.2.7
F.1.e	Provisions for alerting each Response Organization	Fig. 6.2, Fig. 6.3, 6.2.2, 7.2
F.1.f	Communications between Plant/ NRC HQ and Regional Office/ the EOF/ and monitoring team assembly areas	Fig. 6.2, Fig. 6.3, 7.2, 7.2.2, 7.2.4, 7.2.8
F.2	Communications for fixed and mobile medical facilities	7.2.1, 7.2.7
F.3	Periodic Communications testing	8.3.2

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BETWEEN NMPNS EMERGENCY PLAN  
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(NUREG 0654 II.P.8)

<u>NUREG 0654</u>	<u>CRITERIA</u>	<u>NMPNS SITE EMERGENCY PLAN SECTION</u>
G.1	Public Emergency Education/Information	8.4.1, 8.4.2
G.2	Public Emergency Education Program	8.4.1, 8.4.2
G.3.a	Media Contacts and Locations	7.1.6, 5.6.3
G.3.b	Media at the EOF	7.1.6
G.4.a	Designated Public Information Spokesperson	5.6.3.b
G.4.b	Timely Exchange Among Spokespersons	5.6.3.b
G.4.c	Arrangements for Rumor Control	6.9, 5.6.3.h
G.5	News Media Education Program	8.1.1g
H.1	NUREG 0696 TSC and OSC Requirements	7.1.2, 7.1.3
H.2	Near Site EOF	7.1.4
H.3	State and County EOCs	Appendix E
H.4	Timely Activation/Staffing of ERFs/EOCs	5.2,
H.5.a	Onsite Monitoring Systems - Geophysical	7.3.3.f, 7.3.3.g, 7.3.3.h.
H.5.b	Onsite Monitoring Systems - Radiological	7.3.3.b, 7.3.3.d.
H.5.c	Onsite Monitoring Systems - Process	7.3.3.a, 7.3.3.c.
H.5.d	Onsite Monitoring Systems - Fire	7.3.3.e.
H.6.a	Offsite Monitoring Systems/Equipment - Geophysical	7.3.3.f, 7.3.3.g., 7.3.3.h.



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<u>NUREG 0654</u>	<u>CRITERIA</u>	<u>NMPNS SITE EMERGENCY PLAN SECTION</u>
H.6.b	Offsite Monitoring Systems/Equipment - Radiological Sampling/Rate meters/Dosimetry	7.3.3.b
H.6.c	Offsite Monitoring Systems/Equipment -Laboratories	7.3.2
H.7	Offsite Radiological Monitoring Equipment	7.3.3.b.4
H.8	Meteorological Monitoring Instrumentation/Procedures	7.3.3.g, 7.3.3.h
H.9	Provision for the OSC	7.1.3
H.10	Inspection/Inventory/Calibration of Emergency Equipment/Instruments	8.3.2
H.11	Identification of Emergency Equipment	Appendix D
H.12	Central Point for Collection/Analysis of Field Data	7.3.3.b.5
I.1	Identification of Plant Condition Parameters and Corresponding Emergency Classes	4.1, 4.2, 6.5.1, 7.3.3
I.2	Monitoring Capabilities	6.5.1, 7.3.3
I.3.a	Methods/Techniques for Source term Determination	6.5.1, 7.3.3
I.3.b	Methods/Techniques to determine Release Magnitude	6.5.1, 7.3.3
I.4	Onsite/Offsite Exposures/Contamination for Effluent Monitor Readings	6.5.1, 6.5.2, 7.3.3.h
I.5	Acquisition of Meteorological Information	6.5.2, 7.2.8, 7.3.3.g, 7.3.3.h
I.6	Determination of Release Rate/Projected Doses given Inoperable Instrumentation	6.5, 6.5.2, 6.5.4

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(NUREG 0654 II.P.8)

<u>NUREG 0654</u>	<u>CRITERIA</u>	<u>NMPNS SITE EMERGENCY PLAN SECTION</u>
I.7	Capabilities for Field Monitoring within the Plume Exposure EPZ	6.4.1, 6.4.2, 6.4.3
I.8	Capability for Assessment of Actual/Potential Magnitude and Location of Radiological Hazards	6.4, 6.5, 7.2, 7.3.3.b.5
I.9	Capability to Detect Airborne Radioiodine Concentrations as low as 5e-08 microcuries	6.4.2
I.10	Estimation of Integrated Doses; Comparison with PAGs	6.4, 6.5
I.11	Arrangements to Locate and Track the Plume	Appendix E
J.1.a	Capability to warn personnel - Employees with Emergency Assignments	6.7.1.a, b, c, d, 7.4.3
J.1.b	Capability to warn personnel - Visitors	6.7.1.a, b, c, d, 7.4.3
J.1.c	Capability to warn personnel - Contractor and Construction	6.7.1.a, b, c, d, 7.4.3
J.1.d	Capability to warn personnel - Others in the Exclusion Area	6.7.1.c, d, 7.4.3
J.2	Offsite Sheltering/Evacuation of Onsite Personnel	6.7.1.c
J.3	Radiological Monitoring of Personnel Evacuated from Site	7.4.4
J.4	Onsite Non-essential Personnel Evacuation/Decontamination at Offsite Facility	6.7.1.c, 7.4.4
J.5	Accountability for Onsite Personnel	6.7.1.d.
J.6.a	Onsite Personnel Protection - Respiratory	6.7.1.g

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<u>NUREG 0654</u>	<u>CRITERIA</u>	<u>NMPNS SITE EMERGENCY PLAN SECTION</u>
J.6.b	Onsite Personnel Protection - Protective Clothing	6.7.1.e
J.6.c	Onsite Personnel Protection - KI	6.7.1.h
J.7	Prompt Notification of Offsite Authorities - PARs	6.7.2.c
J.8	Onsite Plan Contains Plume Exposure EPZ ETes	6.7.2, 6.7.2.a, Appendix F
J.9	Protective Action Guides (Personnel Exposure and Food Stuffs)	Appendix E
J.10.a	Maps - Evacuation Routes/Areas/Pre-selected Sampling Points/Relocation Centers/Shelter Areas	Appendix E, F, J
J.10.b	Maps - Population Distribution By ERPA	Appendix E, J
J.10.c	Means for Notifying Resident and Transient Population	6.7.2.b, Appendix E, J
J.10.d	Means to Protect Mobility Impaired	Appendix E
J.10.e	KI Distribution	Appendix E
J.10.f	KI Administration	Appendix E
J.10.g	Means for Relocation	Appendix E
J.10.h	Relocation to Reception centers in Host Areas	Appendix E
J.10.I	Traffic Capabilities of Evacuation Routes	Appendix E
J.10.j	Evacuated Area Access Control	Appendix E
J.10.k	Contingencies for Impediments on Evacuation Routes	Appendix E
J.10.l	ETes for EPZ	Appendix E, F

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<u>NUREG 0654</u>	<u>CRITERIA</u>	<u>NMPNS SITE EMERGENCY PLAN SECTION</u>
J.10.m	Basis for PARs During Emergencies	6.7.2.c, Appendix E & F
J.11	Protective Measures for Ingestion Pathway	Appendix E
J.12	Registration and Monitoring of Evacuees	Appendix E
K.1.a	Onsite Exposure Guidelines - Removal of Injured Persons	6.7.1.f
K.1.b	Onsite Exposure Guidelines - Corrective Actions	6.7.1.f
K.1.c	Onsite Exposure Guidelines - Performing Assessment	6.7.1.f
K.1.d	Onsite Exposure Guidelines - Performing First Aid	6.7.1.f
K.1.e	Onsite Exposure Guidelines - Performing Personnel Decontamination	6.7.1.f
K.1.f	Onsite Exposure Guidelines - Providing Ambulance Services	6.7.1.f
K.1.g	Onsite Exposure Guidelines - Providing Medical Treatment	6.7.1.f
K.2	Onsite Radiation Protection Program	6.7.1.f
K.3.a	Provide for 24 Hour/Day Dosimetry	6.7.1.f
K.3.b	Provide for Reading Dosimetry 24 Hour/Day	6.7.1.f
K.4	Authorizations for Personnel Exposure in Excess of PAGs	Appendix E
K.5.a	Determining Need for Decontamination	6.7.1.e, 6.8.1
K.5.b	Means for Decontamination of Emergency Workers	6.8.1, 7.4.4, 7.6

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(NUREG 0654 II.P.8)

<u>NUREG 0654</u>	<u>CRITERIA</u>	<u>NMPNS SITE EMERGENCY PLAN SECTION</u>
K.6.a	Onsite Contamination Controls - Area Access	6.7.1.e
K.6.b	Onsite Contamination Controls - Drinking Water and Food Stuffs	6.7.1.e
K.6.c	Onsite Contamination Controls - Criteria for return to normal use	6.7.1.e
K.7	Capability for Decontamination of Relocated Onsite Personnel	7.4.4
L.1	Ability of Medical/Health Services to Evaluate Radiation Exposure/Handle Contaminated Personnel	6.8.4, Appendix A
L.2	Onsite First Aid Capability	6.8.2
L.3	Identification of Medical Services Facilities Equipped/ Trained to Treat Radiological Accident Victims	Appendix E
L.4	Transportation to Medical Facilities	6.8.3, Appendix A
M.1	General Plans for Re-Entry/Recovery and Relaxation of PARs	9.1.1, 9.2
M.2	Designation of Facility Recovery Organization	Fig. 9.1
M.3	Notification of Recovery Organization	9.3
M.4	Methodology for Estimating Total Population Dose	6.5.4
N.1.a	Drill Simulating Offsite Releases	8.1.2
N.1.b	Exercise Tests all Elements, Times, & Weather Conditions, Some Unannounced	8.1.2
N.2.a	Communications Drills	8.1.2

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BETWEEN NMPNS EMERGENCY PLAN  
AND NUREG-0654/FEMA-REP-1 REV 1  
(NUREG 0654 II.P.8)

<u>NUREG 0654</u>	<u>CRITERIA</u>	<u>NMPNS SITE EMERGENCY PLAN SECTION</u>
N.2.b	Fire Drills	8.1.2
N.2.c	Medical Emergency Drills	8.1.2
N.2.d	Radiological Monitoring Drills	8.1.2
N.2.e.1	Health Physics Drills - Response/Analysis of Airborne & Liquid Samples/ Direct Radiation Readings in the Environment	8.1.2
N.3.a	Drill Scenarios - Objectives/Evaluations	8.1.2
N.3.b	Drill Scenarios - Date/Time/Place/Participants	8.1.2
N.3.c	Drill Scenarios - Simulated Events	8.1.2
N.3.d	Drill Scenarios - Time Schedule	8.1.2
N.3.e	Drill Scenarios - Narrative Summary	8.1.2
N.3.f	Drill Scenarios - Arrangements for Official Observations	8.1.2
N.4	Official Observers Critique Exercises with Formal Evaluation	8.1.2
N.5	Improvements and Corrective Actions based upon comments received	8.1.2
O.1.a	Training Requirements - Site Specific Training for Offsite Organizations	8.1.1
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APPENDIX G

CROSS-REFERENCE INDEX  
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AND NUREG-0654/FEMA-REP-1 REV 1  
(NUREG 0654 II.P.8)

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O.2	Onsite ERO Training/Practicals/Drills with on the spot correction	8.1.2
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O.4.e	Initial and Continuing Training Requirements - Damage and Repair Teams	Fig. 8.2
O.4.f	Initial and Continuing Training Requirements - First Aid and Rescue Personnel	Fig. 8.2
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APPENDIX G

CROSS-REFERENCE INDEX  
BETWEEN NMPNS EMERGENCY PLAN  
AND NUREG-0654/FEMA-REP-1 REV 1  
(NUREG 0654 II.P.8)

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APPENDIX H

TYPICAL ADDITIONAL SUPPORT RESOURCES

APPENDIX H  
TYPICAL ADDITIONAL SUPPORT RESOURCES

1. AIRFIELDS

- a. Greater Rochester International  
1200 Brooks Avenue  
Rochester, NY 14624  
Tel. (585) 753-7020
- b. Oswego County Airport  
40 Airport Dr.  
Fulton, NY 13069  
Tel. (315) 591-9130, (315) 591-9132
- c. Griffiss International Airport  
592 Hangar Rd  
Rome, NY 13342  
Tel. (315) 736-4171 - Airport Manager
- d. Syracuse Hancock International Airport  
Hancock Field  
Syracuse, NY 13212  
Tel. (315) 374-4629 Director of Operations,  
Operations Department (315) 374-4403, 4405  
(315) 455-6218 (Air Traffic Control)
- e. Watertown International Airport  
22529 Airport Dr.  
Dexter, NY 13634  
Tel. (315) 639-3809

2. COMMAND POSTS

- a. NMPNS Emergency Operations Facility  
County Route 176 & Airport Rd.  
R.D.#2 Box 656  
Fulton, NY 13069

APPENDIX H  
TYPICAL ADDITIONAL SUPPORT RESOURCES

2. COMMAND POSTS (Con't).

- b. NMPNS Technical Support Center  
NMPNS  
Lake Road P.O. Box 63  
Lycoming, NY 13093  
Tel. (315) 349-2487
- c. Joint Information Center  
Oswego County Airport  
County Route 176  
Volney, NY 13069  
Tel. (315) 592-3700
- d. New York State Emergency Operations Center  
Emergency Management Office  
Public Security Building, State Campus  
Albany, NY 12232  
Tel. (518) 457-9997
- e. Oswego County Emergency Operations Center  
200 North Second Street  
Fulton, NY 13069  
Tel. (315) 591-9150

3. TELEPHONE SYSTEMS IN 10-MILE EPZ

- a. Windstream  
108 S. 2nd St.  
Fulton, NY 13069  
(800) 800-6609, (315) 592-8246
- b. Verizon  
1095 Avenue of the Americas  
New York, NY 10036  
(800) 579-8702, (800) 890-6611 (Repair No.)

APPENDIX H  
TYPICAL ADDITIONAL SUPPORT RESOURCES

4. NINE MILE POINT UHF RADIO SYSTEM
  - a. Base, mobile, and portable transceivers
  - b. Inplant and off-site repeaters

APPENDIX I

COMMITMENTS

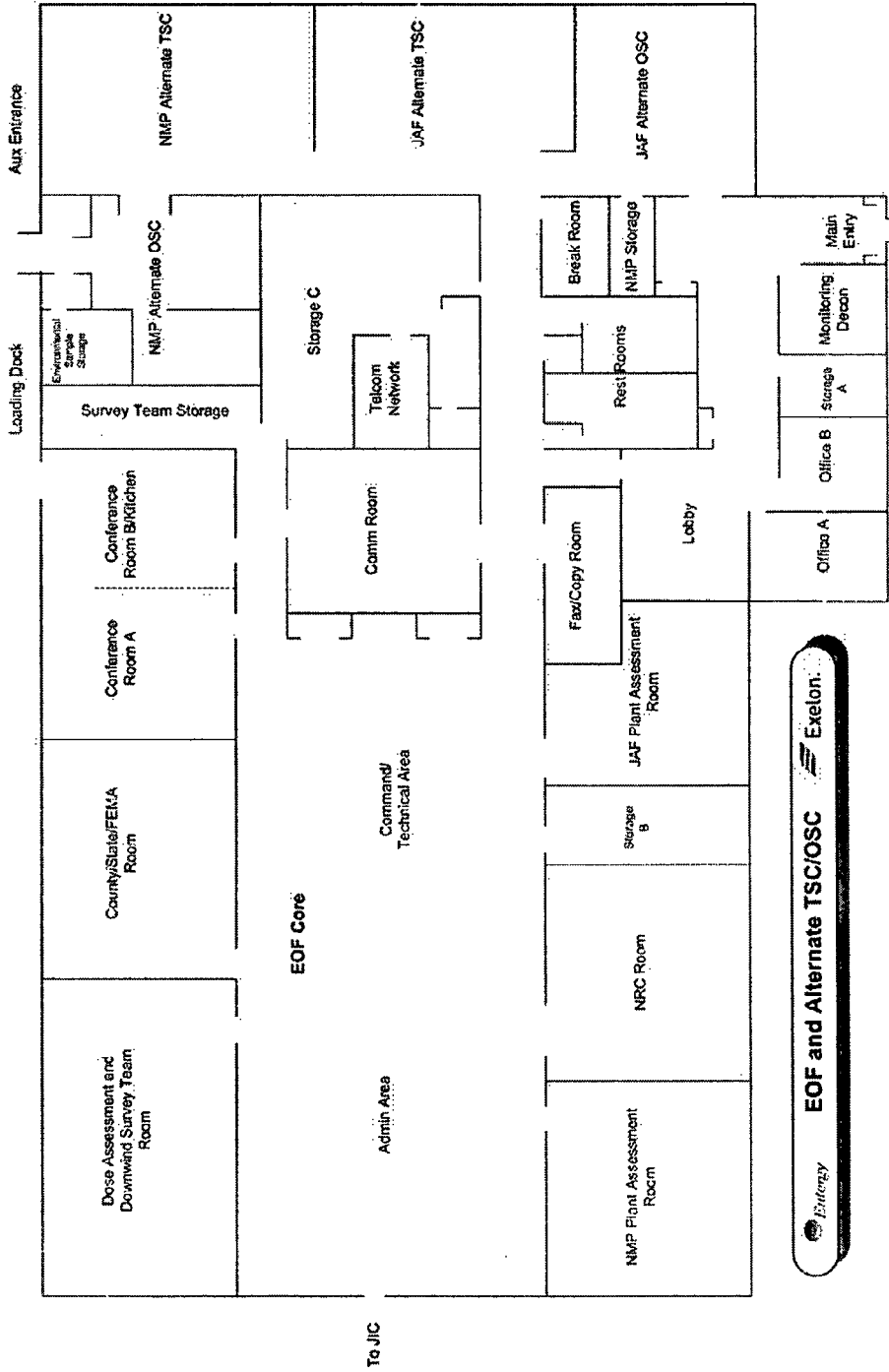
APPENDIX I  
COMMITMENTS

<u>Section(s)/Step Number</u>	<u>NCTS Number</u>	<u>Description</u>
3.2.1, 4.1.3 5.2, 5.4, 7.1.4	NCTS #503441-02	Revise SEP and procedures to more clearly follow the intent of the NRC rule. Delete Sympathetic Alert.
5.2.2	NCTS #504223-26	Identify the control room staffing requirements during Modes 1, 2, 3 and when the emergency plan is activated

APPENDIX J

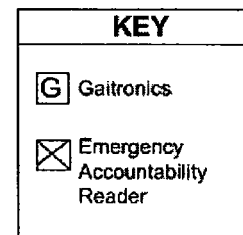
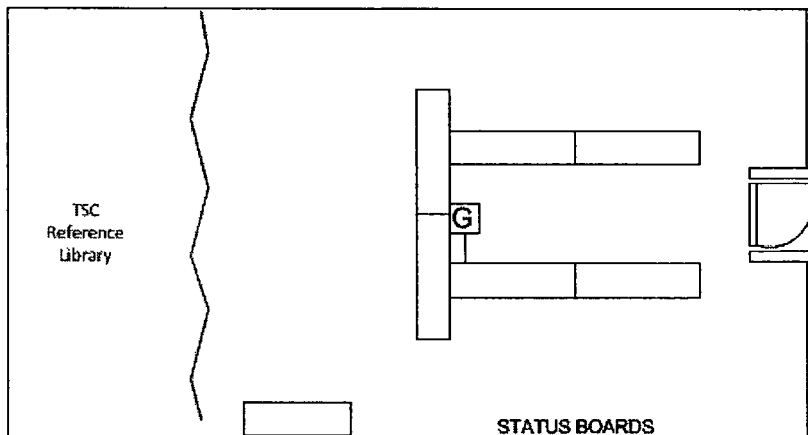
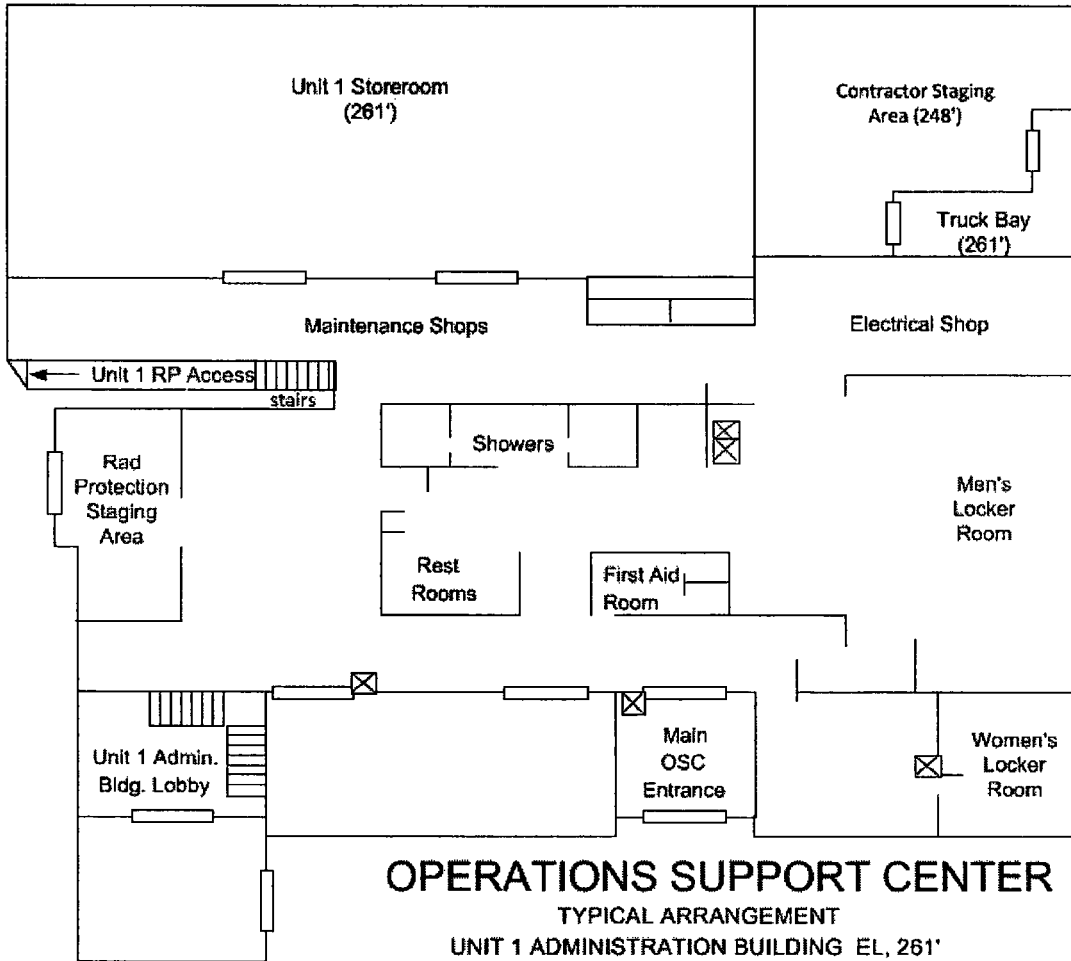
RESOURCE MATERIAL  
(NUREG 0654 II.J.10.a,b)

# EMERGENCY OPERATIONS FACILITY (Typical Arrangement)



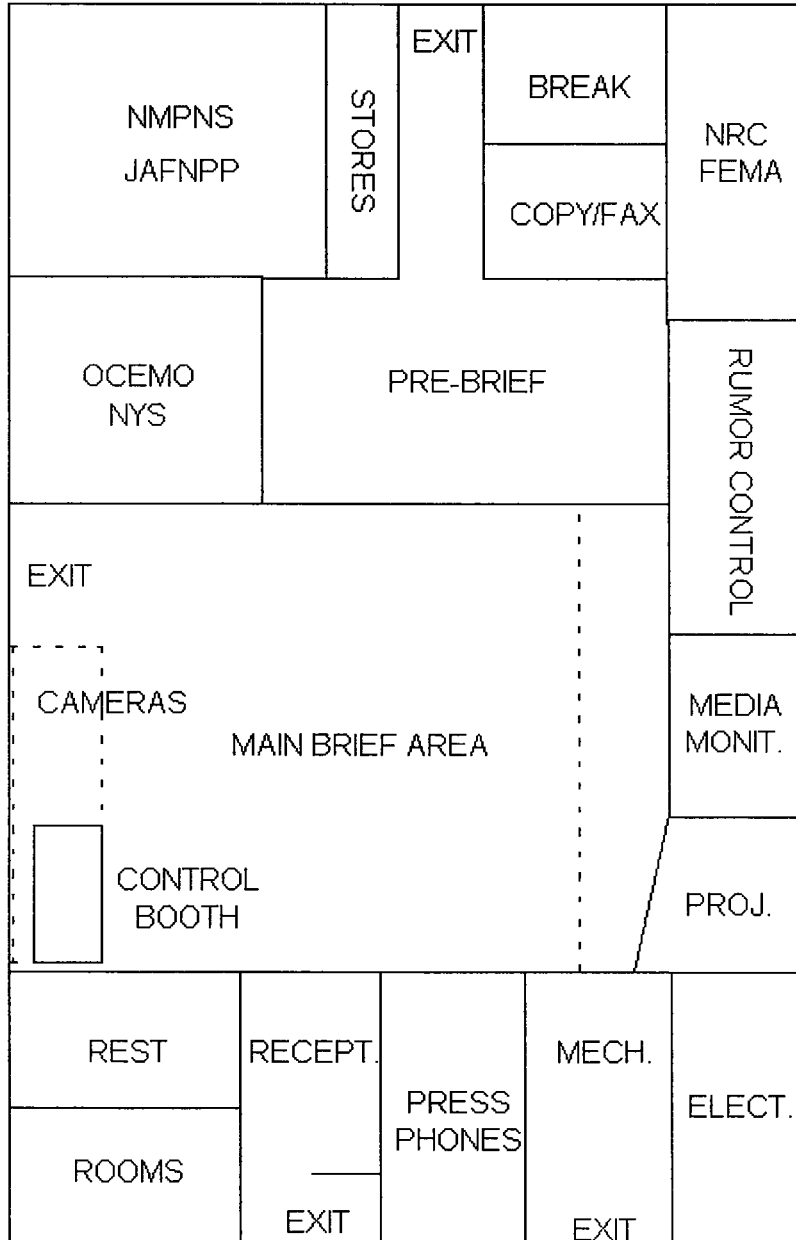


**OPERATIONS SUPPORT CENTER  
(Typical Arrangement)**

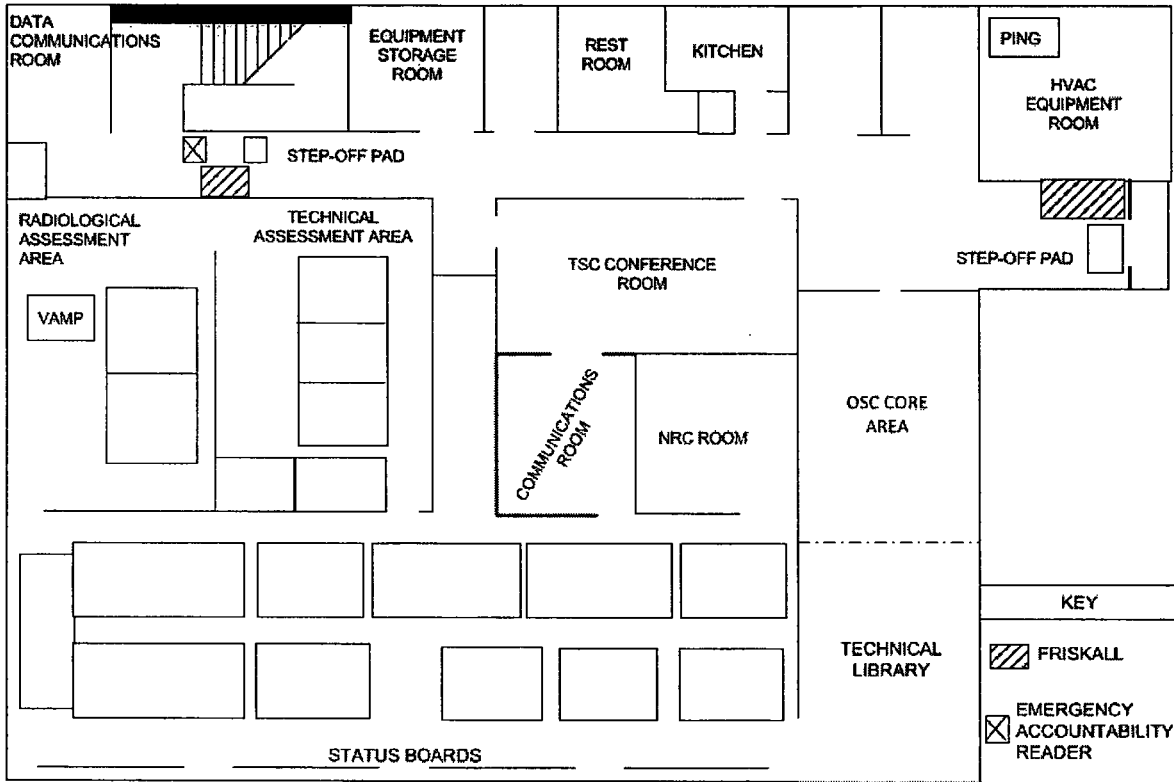


**DETAIL OF THE  
OPERATIONS SUPPORT  
CENTER  
CORE AREA EL. 248'  
TYPICAL  
ARRANGEMENT**

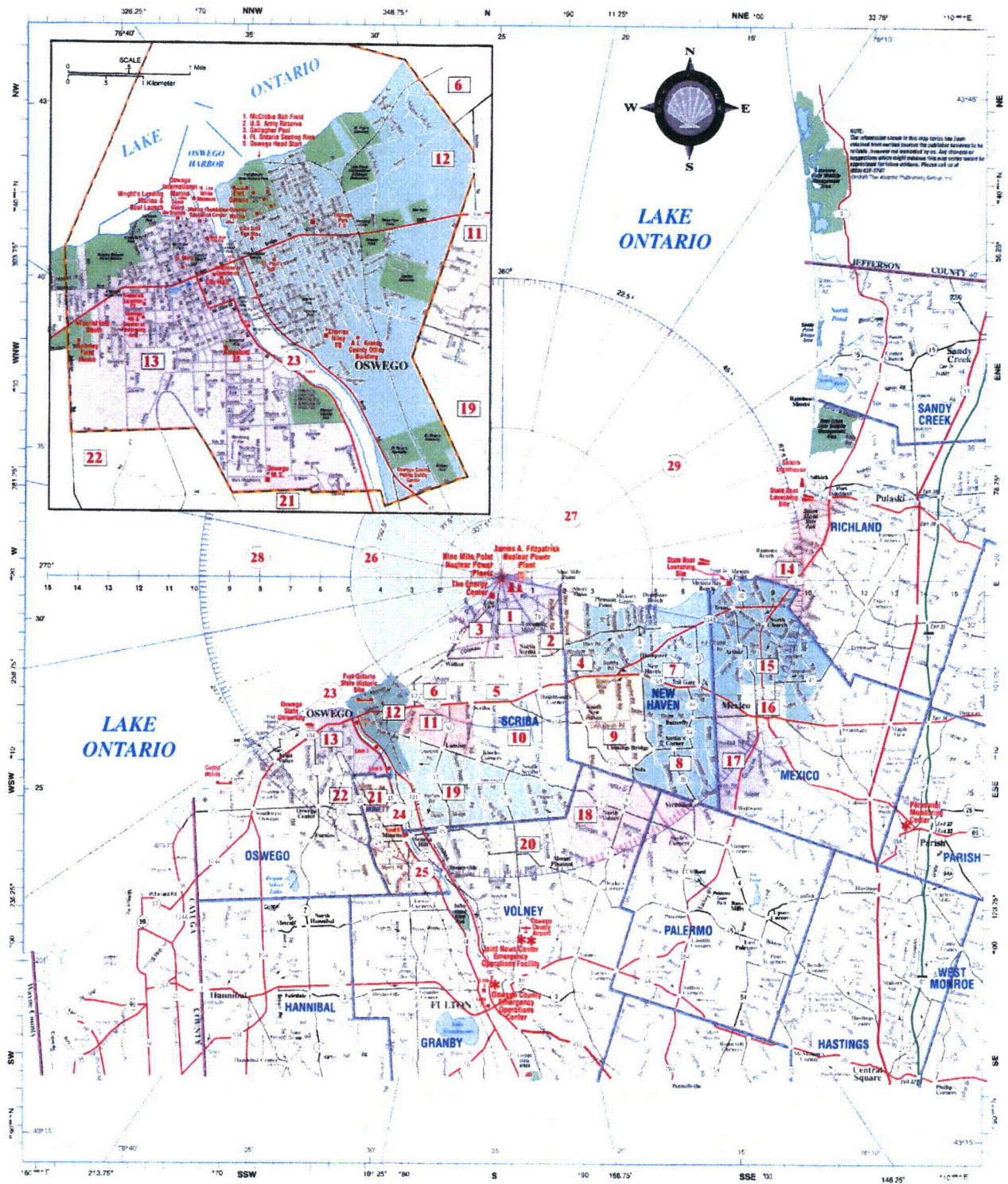
JOINT INFORMATION CENTER  
(Typical Arrangement)



TECHNICAL SUPPORT CENTER  
(Typical Arrangement)



TECHNICAL SUPPORT CENTER  
TYPICAL ARRANGEMENT  
UNIT 1 ADMINISTRATION BUILDING EL.248'



**Ten Mile Emergency Planning Zone (Plume Exposure Pathway)**

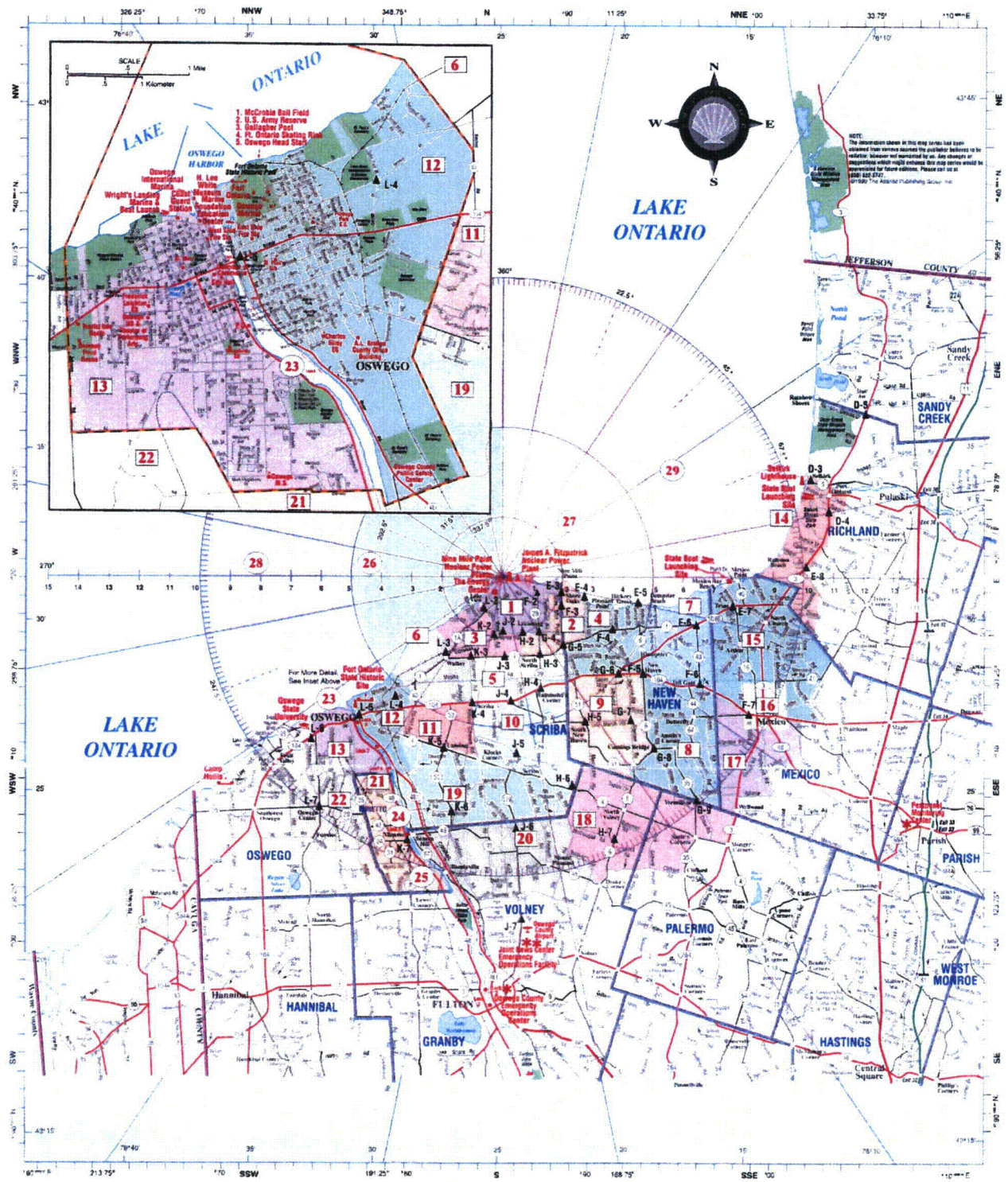
- Interstate Highways
- U.S. & State Highways
- County Roads
- Town Roads
- County Boundaries
- Township Boundaries
- City and Villages
- Railroads
- Emergency Response Planning Area (ERPA) & Number
- ERPA Water Area Numbers
- Emergency Facility



**Nine Mile Point / James A. Fitzpatrick Radiological Emergency Plans and Procedures**







**Offsite Survey Locations**

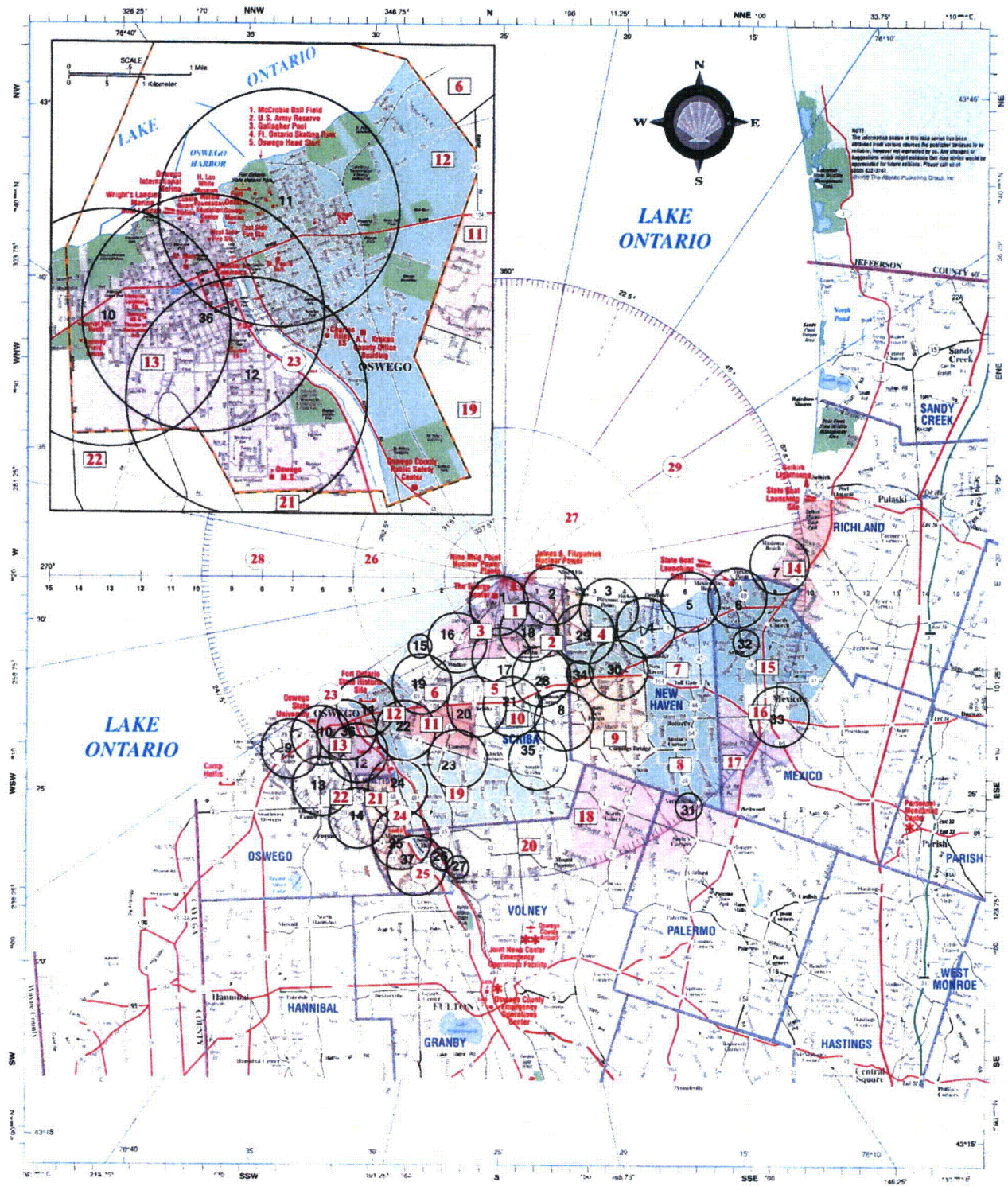
**Nine Mile Point / James A. Fitzpatrick  
Radiological Emergency Plans  
and Procedures**

- Interstate Highways
- U.S. & State Highways
- County Roads
- Town Roads
- County Boundaries
- Township Boundaries
- City and Villages
- Railroads
- Emergency Response Planning Area (ERPA) & Number
- ERPA Water Area Numbers
- Offsite Survey Locations
- Emergency Facility

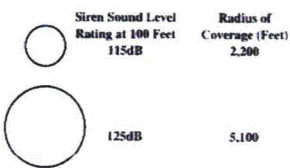
**NINE MILE POINT  
EMERGENCY PREPAREDNESS**







**Siren Locations**

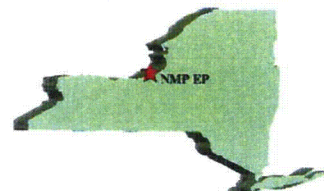


- Interstate Highways
- U.S. & State Highways
- County Roads
- Town Roads
- County Boundaries
- Township Boundaries
- City and Villages
- Railroads
- Emergency Response Planning Area (ERPA) & Number
- ERPA- Water Area Numbers
- Siren Locations
- Emergency Facility

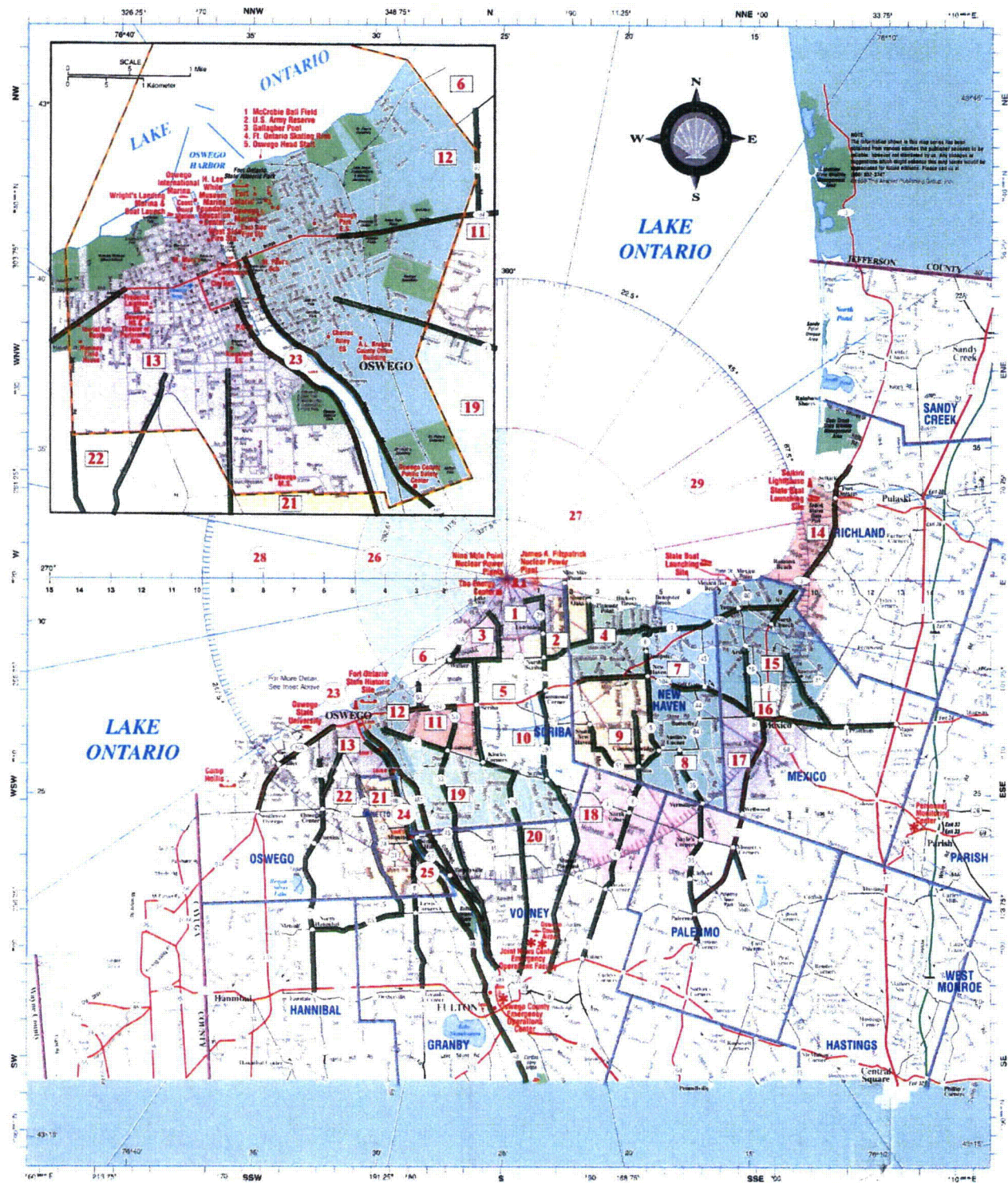


**Nine Mile Point / James A. Fitzpatrick  
Radiological Emergency Plans  
and Procedures**

NINE MILE POINT  
EMERGENCY PREPAREDNESS







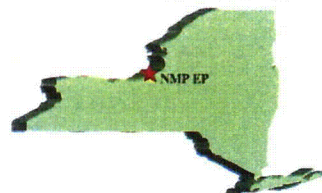
**Primary Evacuation Routes**

- Interstate Highways
- U.S. & State Highways
- County Roads
- Town Roads
- County Boundaries
- Township Boundaries
- City and Villages
- Railroads
- Emergency Response Planning Area (ERPA) & Number
- ERPA-Water Area Numbers
- Primary Evacuation Routes
- Emergency Facility



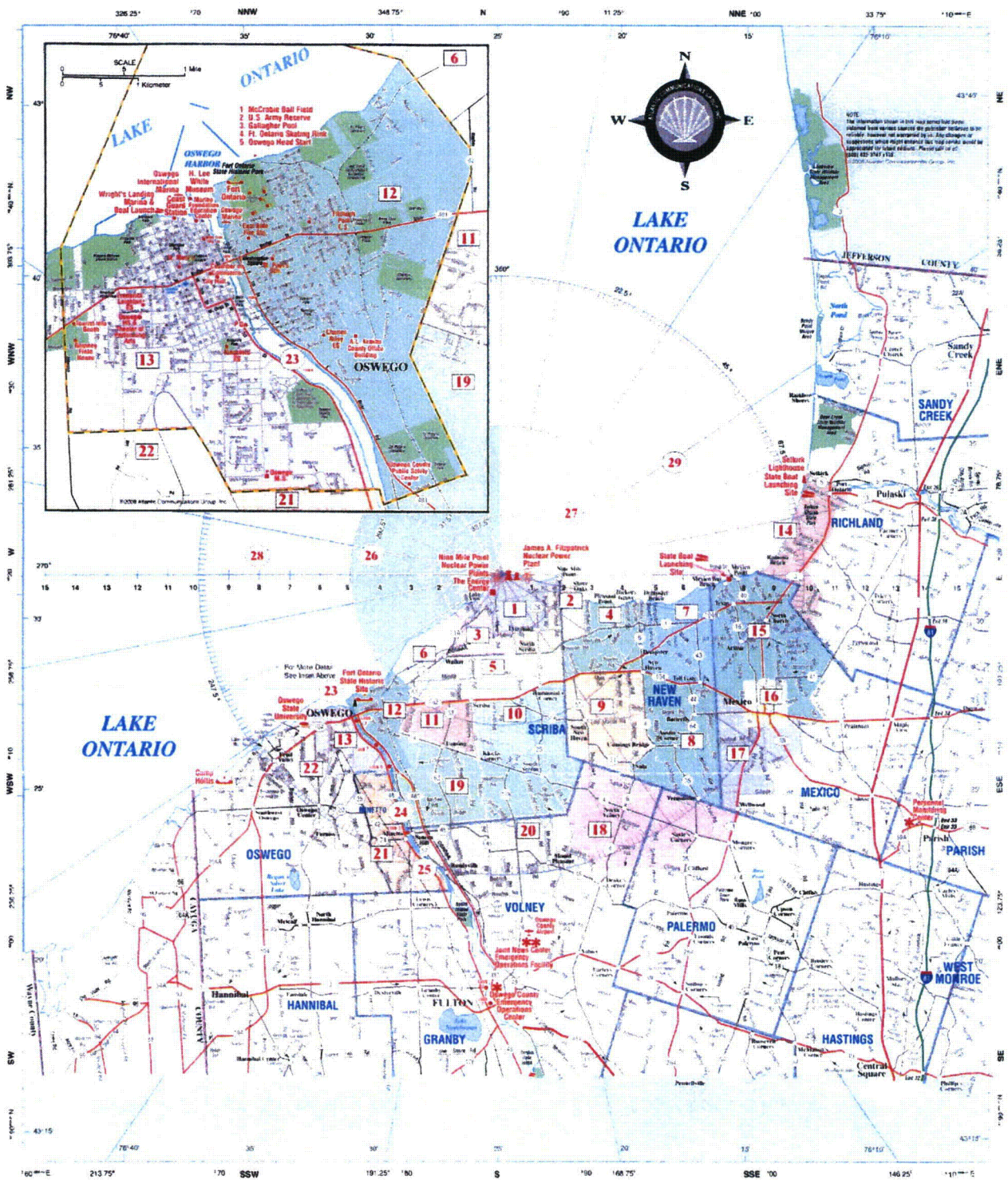
**Nine Mile Point / James A. Fitzpatrick Radiological Emergency Plans and Procedures**

**NINE MILE POINT EMERGENCY PREPAREDNESS**



**SEP Rev. 42**





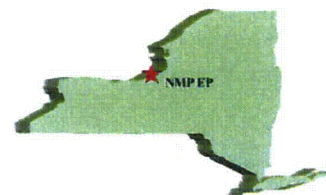
1000 Population Estimates - Emergency Response Planning Areas

Area	Permanent Residents	Transients
1	236	0
2	469	0
3	370	0
4	655	117
5	836	0
6	943	600
7	734	0
8	788	0
9	625	0
10	1119	0
11	2008	0
12	7695	1626
13	10361	2568
14	239	805
15	1182	3357
16	1592	0
17	519	0
18	1138	0
19	1513	0
20	1697	0
21	1798	0
22	4776	2647

- Interstate Highways
- U.S. & State Highways
- County Roads
- Town Roads
- County Boundaries
- Township Boundaries
- City and Villages
- Railroads
- Emergency Response Planning Area (ERPA) & Number
- Emergency Facility

## Nine Mile Point / James A. Fitzpatrick Radiological Emergency Plans and Procedures

NINE MILE POINT  
EMERGENCY PREPAREDNESS





APPENDIX K

**ON-SHIFT STAFFING ANALYSIS REPORT**  
(10CFR50 Appendix E.IV.A.9)

The On-Shift Staffing Analysis Report, December 2012, prepared by EP Consulting, LLC; is considered to be incorporated as part of this document by reference.

# CENG

a joint venture of



**Constellation  
Energy**



**EDF**

## **Constellation Energy Nuclear Group Fleet Administrative Procedure**

### **CNG-EP-1.01-1013**

**EMERGENCY CLASSIFICATION AND PAR**

**Revision 00100**

This Procedure is EXEMPT from 10 CFR 50.59 / 10 CFR 72.48 Reviews

**Management Related**

**INFORMATION USE**

**Applicable To:**

- Calvert Cliffs Nuclear Power Plant, Units 1 and 2**
- Nine Mile Point Nuclear Station, Units 1 and 2**
- R.E. Ginna Nuclear Power Plant**

**Procedure Owner Group: Emergency Preparedness**

SUMMARY OF ALTERATIONS

<b>Revision</b>	<b>Change</b>	<b>Summary of Revision or Change</b>
001	00	Revised to incorporate Supplement 3 PARs Revision Bars were not used.

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## 1.0 INTRODUCTION

### 1.1 Purpose

- A. To provide guidance to personnel in evaluating situations which may require activation of the station's emergency plan and direct them to appropriate implementing procedures. Prompt recognition and classification is necessary to ensure the timely activation of support functions and notification of offsite organizations.
- B. Provide instructions to determine appropriate Protective Action Recommendation (PAR) to provide to offsite authorities.

### 1.2 Scope/Applicability

- A. This procedure is applicable to the following stations:
  - Calvert Cliffs Nuclear Power Plant (CCNPP)
  - R.E. Ginna Nuclear Power Plant (Ginna)
  - Nine Mile Point Nuclear Station (NMP)

## 2.0 REFERENCES

### 2.1 Performance References

- A. EP-Form-ALL39, CCNPP PAR Update

### 2.2 Developmental References

- A. Calvert Cliffs Nuclear Power Plant Emergency Response Plan
- B. Ginna Station Nuclear Emergency Response Plan
- C. Nine Mile Point Site Emergency Plan

## 3.0 DEFINITIONS

### 3.1 Alert

*Second highest classification level of four*

Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant or a security event that involves probable life threatening risk to site personnel or damage to site equipment because of hostile action. Any releases from these events are expected to be limited to small fractions of the Environmental Protection Agency (EPA) Protective Action Guideline (PAG) exposure levels.

### 3.2 $CDE_T$

Committed Dose Equivalent to the thyroid.

### 3.3 Classification

Categorization of plant conditions or events into the appropriate emergency classification level.

**3.4. Declaration**

Announcement in the Control Room or Emergency Operations Facility (EOF) that an Emergency Action Level (EAL) has been met and an emergency classification level has been entered.

**3.5. Emergency Action Level (EAL)**

A pre-determined, unit-specific, observable threshold for a plant initiating condition (IC) that places the plant in a given emergency class. An EAL can be: an instrument reading; an equipment status indicator; a measurable parameter; a discrete, observable event; or another phenomenon which, if it occurs, indicates entry into a particular emergency class.

**3.6. EPA Protective Action Guideline**

Exposure levels determined by the Environmental Protection Agency for the evacuation of the offsite public following a release of radioactive materials. These levels have been established at 1 Rem TEDE or 5 Rem CDE Thyroid.

**3.7. General Emergency**

*Highest classification level of four*

Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity or hostile action that results in an actual loss of physical control of the facility. Releases can be reasonably expected to exceed EPA PAG exposure levels off-site for more than the immediate site area.

**3.8. Impediment**

An off-site condition, as determined by the state, in which travel for evacuation purposes is not possible or is severely hindered. Impediments to evacuation are determined and provided by the state, not the utility.

**3.9. Initiating Condition (IC)**

One of a predetermined subset of nuclear power plant conditions where either the potential exists for a radiological emergency, or such an emergency has occurred.

**3.10. Off-Site Response Organization (ORO)**

Designated State emergency response positions with the authority to make decisions for:

- Declaration of the existence of or removal of impediments to evacuation.
- The determination of "Safer to begin evacuation of sheltered areas" during a Rapidly Progressing Severe Accident.

**3.11. Protective Action Recommendation (PAR)**

Recommendation from Shift Manager or Emergency Director to offsite authorities to take actions to protect the public. PARs are made by Exelon personnel whenever a General Emergency is declared. Additionally, if in the opinion of the Emergency Director, conditions warrant the issuance of PARs, a General Emergency will be declared. PARs may be made for events classified below the General Emergency level as outlined in this procedure.

PARs reflect Exelon recommendations, not actual actions taken by state or local authorities.

**3.12. Puff Release**

A controlled containment vent that will be terminated prior to exceeding 60 minutes in duration and is less than the EPA-400 TEDE and CDE Thyroid PAG.

**3.13. Rapidly Progressing Severe Accident (RPSA)**

General Emergency with a rapid loss of containment integrity and loss of the ability to cool the core.

**3.14. Safer to do so**

The Off-site Response Organization has determined that it is safer to begin evacuation of sheltered areas during a Rapidly Progressing Severe Accident.

**3.15. Staged Evacuation**

The process by which members of the public are evacuated in stages typically beginning with those people closest to the plant and extending outward.

**3.16. Shelter in Place (Sheltering)**

A protective action whose benefit is to bring the public to a heightened state of awareness and is taken when evacuation is indicated but impediments to evacuation exist. Exelon is responsible for identifying long term impediments and revising PARs as appropriate. Local offsite agencies are responsible for identifying and acting upon short term impediments.

**3.17. Site Area Emergency**

*Third highest classification level of four*

Events are in progress or have occurred which involve actual or likely major failures of plant functions needed for protection of the public or hostile action that results in intentional damage or malicious acts toward site personnel or equipment that could lead to the likely failure of, or; that prevent effective access to equipment needed for the protection of the public. Any releases are not expected to result in exposure levels which exceed EPA PAG exposure levels beyond the site boundary.

**3.18. Total Effective Dose Equivalent TEDE**

The sum of the deep-dose equivalent (for external exposures). and the committed effective dose equivalent (for internal exposures).

**3.19. Transitory Event**

An event in which an EAL has been exceeded but the condition no longer warrants classification at that level prior to making the emergency declaration.

Cases in which a plant condition that exceeded an EAL was not recognized at the time of occurrence but is identified well after the condition has occurred (for example, as a result of routine log or record review), and the condition no longer exists. In these cases, an emergency should not be declared.

### 3.20. Unusual Event

*Lowest classification level of four*

Events are in process or have occurred which indicate a potential degradation of the level of safety of the plant or indicate a security threat to facility protection has been initiated. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs.

## 4.0 RESPONSIBILITIES

4.1. The following ERO positions or station personnel have responsibilities to implement this procedure:

- Shift Manager (SM)
- Emergency Director (ED)
- Shift Technical Advisor
- Senior Reactor Operators / Reactor Operators (SRO) / (RO)
- TSC Manager
- TSC Operations Director
- EOF Manager
- EOF Technical Advisor
- Radiological Assessment Coordinator
- EOF Dose Assessor

## 5.0 PROCESS

### 5.1. General Information

- A. Entry into an emergency classification is not expected for planned outages of systems or equipment in which compensatory measures have been taken.
- B. The SM or ED should not delay actions that would mitigate or prevent an emergency or off-normal condition to classify an event. However, all events should be classified per this procedure no later than 15 minutes after indications are available that an EAL threshold has been exceeded.

### 5.2. Transitory Events

#### NOTE

In cases when EAL declaration criteria may be met momentarily during the normal expected response of the plant as part of the designed plant response, or result from appropriate Operator actions, declaration requirements should not be considered to be met.

- A. If an EAL has been matched or exceeded, **BUT** the EAL threshold or emergency condition no longer exists prior to making the emergency declaration (transitory event), then:



1. If an EAL other than the transitory event is still exceeded, then classify current conditions per Section 5.3, Emergency Classification and Declaration and declare the emergency.
2. Notify NRC of transitory event using stations reportability procedures.
3. Direct Emergency Preparedness to notify the State and County of transitory event if no other event was declared.

#### NOTES

Attachment 1, Additional Guidance For Classification, provides some clarification of the declaration time clock.

### 5.3. Emergency Classification and Declaration

- A. An emergency condition must be assessed, classified, and declared within 15 minutes of the availability of indications that an EAL has been exceeded.
- B. Assess and classify abnormal conditions by:
  1. Determining if one or more EAL thresholds in the EAL matrix (station/unit specific procedure, Wall Board, EAL Technical Bases Document or EAL Flip Chart) have been matched or exceeded.
  2. Classifying the event at the highest level emergency classification for which an EAL is currently being met or exceeded.
  3. If time permits, then have the classification independently verified.
- C. Make a verbal declaration of the classification to the facility team members using the "Update" method. (This constitutes the event declaration time.)
  1. If events are occurring at multiple units, then declare the highest classification exceeded for site.
  2. Follow appropriate steps in your position specific checklist.
- D. Continually re-evaluate conditions after initial classification of the event and upgrade to a higher classification if necessary.

### 5.4. Protective Action Recommendations

#### NOTE

The Shift Manager / Emergency Director may elect to specify Evacuate and/or Shelter PARs for any combination of Subareas / Sectors within or beyond the EPZ if such actions benefit the health and safety of the public.

- A. If the event is classified as an Unusual Event, Alert or Site Area Emergency, then no PAR is made.
- B. If an evacuation recommendation for an area has been given, then do not reduce it to shelter.

- C. If the event is classified as a General Emergency, then go to the appropriate station attachment below to determine appropriate initial PAR.
- Attachment 2, CCNPP PAR Determination Instructions
  - Attachment 3, Ginna PAR Determination Instructions
  - Attachment 4, NMP PAR Determination Instructions
- D. If dose assessment results indicate the need to recommend actions beyond 10 miles, then perform the following steps.
1. Dispatch Field Monitoring Teams to downwind areas to verify the calculated exposure rates prior to issuing PARs outside the 10 mile EPZ.

**NOTE**

For PARs beyond 10 miles, sector segments are considered to be ERPA's, PAZ's or sub-areas. For example, if the dose assessment indicates the NNW sector from 10 to 25 miles exceeded the PAG's, the area would be NNW 10 – 25 miles.

2. If Field Teams verify the calculated dose assessment exposure rates, then expand the PAR to include areas outside the EPZ where PAGs have been exceeded.
- E. Enter the PAR information on the notification form.
- F. Complete PAR notification per CNG-EP-1.01-1015, Emergency Notification.
- G. If the PAR is to initiate a Staged Evacuation, then calculate the time the Staged Evacuation time expires and note it on the appropriate page of the applicable PAR flowchart.

**NOTE**

**[CCNPP Only]** The following positions have been designated by the applicable state as having the authority to designate that it is "Safer to begin evacuation of sheltered areas" during a Rapidly Progressing Severe Accident.

Maryland      Maryland Secretary of the Environment or designee

- H. **[CCNPP Only]** If the site is in a Rapidly Progressing Severe Accident per the applicable PAR flowchart, then perform the following steps:
1. When contacted by the state, then perform the following steps:
    - a. Discuss the status of determining if it safer to begin evacuation of sheltered areas.
    - b. Provide the state with current plant conditions, radioactive release and dose assessment information, and an evaluation if conditions are improving or deteriorating.
    - c. Assist the state with interpretation of provided data and answering technical related questions.

2. When notified by the state that it is safer to begin evacuation of sheltered areas, then revise the PAR per the PAR flowchart.
  - I. Continue to evaluate applicable Flowchart entry points for PAR upgrades.
  - J. If an evacuation recommendation is given, then do not reduce it to shelter.
  - K. Notify offsite authorities of any change to PAR within 15 minutes of decision to make change. PAR updates should be cumulative in nature for all PAZ sectors.

**6.0 BASES**

None

**7.0 RECORDS**

- 7.1. All logs, forms and records completed as the result of implementing this procedure during an actual declared event shall be retained as permanent plant records per CNG-PR-3.01-1000, Records Management.
- 7.2. All records when generated by this procedure during drills or exercises are provided to the Emergency Preparedness Department and maintained as necessary to document required drill / exercise data.

**Attachment 1, Additional Guidance For Classification****A. Declaration time clock**

1. The 15-minute criterion commences when plant instrumentation, plant alarms, computer displays, or incoming verbal reports that correspond to an EAL first become available to any member of the ERO who by virtue of training and experience is qualified to assess indications or reports against the EALs.
  - Validation or confirmation of plant indications, or reports to the plant operators, is to be accomplished within the 15-minute period as part of the assessment.
2. The 15-minute period encompasses all assessment, classification, and declaration actions associated with making an emergency declaration and ends when the Shift Manager or Emergency Director verbally declares the emergency classification level.
  - **[Ginna Only]** EALs thresholds can be met based on an event or a condition. Events cannot be cleared and so they will be required to be classified and declared. Some transient conditions may cause an EAL to be met for a brief period of time (such as, a few seconds to a few minutes). The following guidance should be applied for these conditions:
    - EAL momentarily met during expected plant response - In instances where an EAL is briefly met during an expected (normal) plant response, an emergency declaration is not warranted provided that associated systems and components are operating as expected, and operator actions are performed per procedures.
    - EAL momentarily met but the condition is corrected prior to an emergency declaration – If an operator takes prompt manual action to address a condition, and the action is successful in correcting the condition prior to the emergency declaration, then the applicable EAL is not considered met and the associated emergency declaration is not required.
    - The following is an example of an event and condition:
      - An Anticipated Transient Without Scram (ATWS) occurs and the auxiliary feedwater system fails to automatically start. Steam generator levels rapidly decrease and the plant enters an inadequate RCS heat removal condition (a potential loss of both the fuel clad and RCS barriers). An operator manually starts the auxiliary feedwater system in accordance with an EOP step and clears the inadequate RCS heat removal condition prior to meeting the emergency declaration time criteria.
      - The ATWS is an event that cannot be cleared. No action by operators or automatic systems can change the fact the ATWS occurred and so it is required to be classified and declared.
      - The inadequate RCS heat removal condition was cleared by operator action prior to meeting the emergency declaration time criteria. This EAL condition would be classified, but not declared.

**Attachment 1, Additional Guidance For Classification (Continued)**

The following bullets/steps apply to all stations.

- Emergency declarations are made promptly; the 15-minute criterion is not to be construed as a grace period in which an attempt to restore plant conditions to avoid declaring an EAL that has already been exceeded. This does not preclude actions to correct or mitigate an off-normal condition, but once an EAL has been recognized as being exceeded, the emergency declaration shall be made promptly without waiting for the 15-minute period to elapse. This is particularly the case when the EAL threshold is exceeded based on occurrence of a condition, rather than the duration of a condition.
  - For EAL thresholds that specify a duration of the off-normal condition, the emergency declaration process runs concurrently with the specified threshold duration. Once the off-normal condition has existed for the duration specified in the EAL, no further effort on this declaration is necessary—the EAL has been exceeded. Consider as an example, the EAL “fire which is not extinguished within 15 minutes of detection.” On receipt of a fire alarm, the plant fire brigade is dispatched to the scene to begin fire suppression efforts. The event must be declared as soon as it is known the fire will not be suppressed within 15 minutes of the time Control Room becomes aware of fire, NOT 15 minutes after the initial 15 minutes has passed.
  - For thresholds with specific durations, if it is known no actions can prevent the time period being met the event should be declared immediately. Example: There is a 15 minute time duration with a loss of offsite power. A call from Power Control could provide information that the lines will NOT be restored within 15 minutes; therefore, the clock stops there. There is, under the circumstances, no need to wait 15 minutes to declare.
3. A small number of EAL thresholds are related to the results of analyses (such as, dose assessments, chemistry sampling, and/or inspections) that are necessary to ascertain whether a numerical EAL threshold has been exceeded, rather than confirming or verifying an alarm or a received report. In most of these cases, the basis of the EAL will identify the analysis necessary and its scope.
- In these limited cases, the 15 minute declaration period starts with the availability of analysis results that show the threshold to be exceeded; this is the time that the information is first available.
  - The NRC expects licensees to establish the capability to initiate and complete these analyses with a reasonable sense of urgency. For example, if a particular skill set is necessary to assess one or more EAL thresholds, that expertise should be available on-shift.

**Attachment 1, Additional Guidance For Classification (Continued)****B. Validation of Indications, Reports and Conditions**

1. All emergency classifications shall be based upon valid indications, reports or conditions. An indication, report, or condition, is considered to be valid when it is verified by:
  - An instrument channel check, or
  - Indications on related or redundant indicators, or
  - By direct observation by plant personnel, such that doubt related to the indicator's operability, the condition's existence, or the report's accuracy is removed. Implicit in this definition is the need for timely assessment.

**C. Planned vs. Unplanned Events**

1. Planned evolutions involve preplanning to address the limitations imposed by the condition, the performance of required surveillance testing, and the implementation of specific controls prior to knowingly entering the condition in accordance with the specific requirements of the site's Technical Specifications. Activities which cause the site to operate beyond that allowed by the site's Technical Specifications, planned or unplanned, may result in an EAL threshold being met or exceeded. Planned evolutions to test, manipulate, repair, perform maintenance or modifications to systems and equipment that result in an EAL value being met or exceeded are not subject to classification and activation requirements as long as the evolution proceeds as planned and is within the operational limitations imposed by the specific operating license. However, these conditions may be subject to the reporting requirements of 10 CFR 50.72.

**D. Classifying Transient Events**

1. For some events, the condition may be corrected before a declaration has been made. The key consideration in this situation is to determine whether or not further plant damage occurred while the corrective actions were being taken. In some situations, this can be readily determined. In other situations, further analyses may be necessary (such as, coolant radiochemistry following an ATWS event, plant structural examination following an earthquake, and so forth). Classify the event as indicated and terminate the emergency once assessment shows that there were no consequences from the event and other termination criteria are met.
2. Existing guidance for classifying transient events addresses the period of time of event recognition and classification (15 minutes). However, in cases when EAL declaration criteria may be met momentarily during the normal expected response of the plant, declaration requirements should not be considered to be met when the conditions are a part of the designed plant response, or result from appropriate Operator actions.

**Attachment 1, Additional Guidance For Classification (Continued)****Classifying Transient Events (continued)**

3. There may be cases in which a plant condition that exceeded an EAL was not recognized at the time of occurrence but is identified well after the condition has occurred (for example, as a result of routine log or record review), and the condition no longer exists. In these cases, an emergency should not be declared. Reporting requirements of 10 CFR 50.72 are applicable and the guidance of NUREG-1022, Event Reporting Guidelines 10 CFR 50.72 and 50.73, should be applied.

**E. Multiple Simultaneous Events and Imminent EAL Thresholds**

1. When multiple simultaneous events occur, the emergency classification level is based on the highest EAL reached. For example, two Alerts remain in the Alert category, or an Alert and a Site Area Emergency is a Site Area Emergency. Further guidance is provided in RIS 2007-02, Clarification of NRC Guidance for Emergency Notifications During Quickly Changing Events.
2. If a station is a multi-unit station with shared safety-related system and functions, emergency classification level upgrading must also consider the effects of a loss of a common system on more than one unit (such as, potential for radioactive release from more than one core). For example, the control panels for both units are in close proximity within the same room. Thus, Control Room evacuation most likely would affect both units. There are a number of other systems and functions which may be shared. This must be considered in the emergency classification level declaration. Although the majority of the EALs provide very specific thresholds, the Emergency Director (ED) must remain alert to events or conditions that lead to the conclusion that exceeding the EAL threshold is imminent. If, in the judgment of the ED, an imminent situation is at hand, the classification should be made as if the threshold has been exceeded. While this is particularly prudent at the higher emergency classes (the early classification may permit more effective implementation of protective measures), it is nonetheless applicable to all emergency classes.

**F. Emergency Classification Level Downgrading**

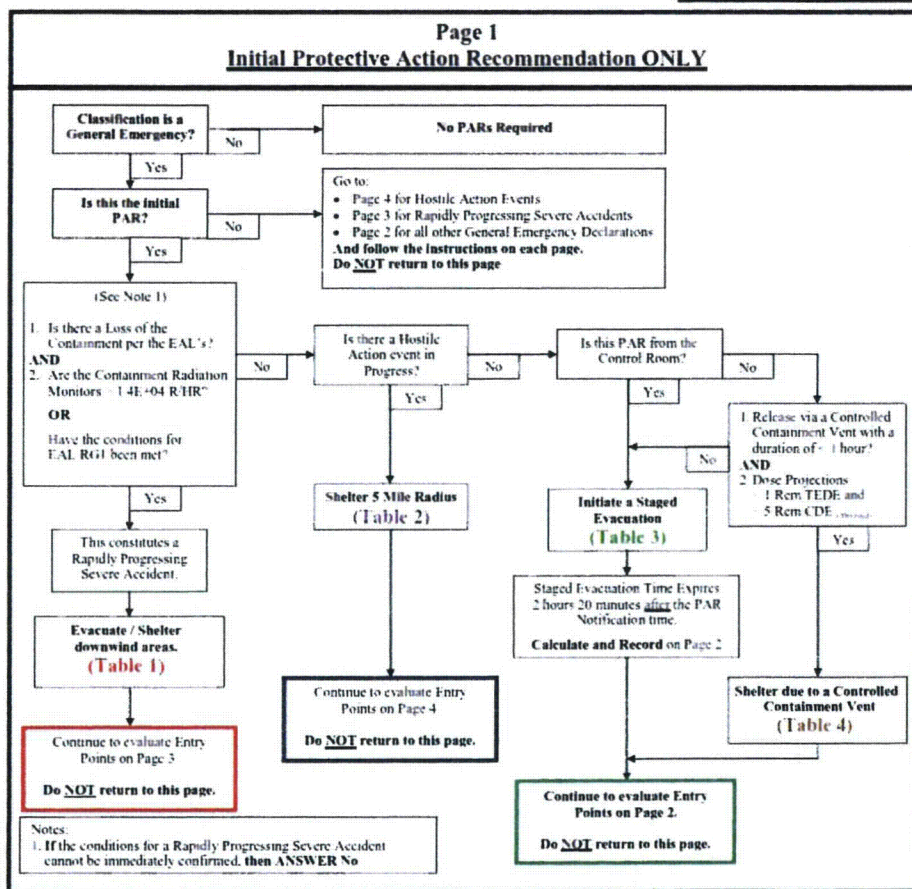
1. Another important aspect of usable EAL guidance is the consideration of what to do when the risk posed by an emergency is clearly decreasing. A combination approach involving recovery from General Emergencies and some Site Area Emergencies and termination from Unusual Events, Alerts, and certain Site Area Emergencies causing no long term plant damage appears to be the best choice. Downgrading to lower emergency classification levels adds notifications but may have merit under certain circumstances.

Attachment 2, CCNPP PAR Determination Instructions

NOTE

If using the meteorological data screen (DRDT), then the "DIR 60" indication is to be used for a release from the main vent. The "DIR 10" indication will be used for any other release. If using a backup meteorological data source, then the direction the wind is "from" is to be used. This note is applicable to all pages in this attachment.

Calvert Cliffs PAR Flowchart



**Table 1**

WD From	Evacuate	Shelter
350° to 011°	2	1, 3, 6, 7
012° to 034°	2	1, 3, 4, 6, 7
035° to 056°	2	1, 3, 4, 6, 7
057° to 079°	2	1, 3, 4, 5, 6, 7
080° to 101°	2	1, 3, 4, 5, 6, 7
102° to 124°	2	1, 4, 5, 6, 7
125° to 146°	2	1, 4, 5, 6
147° to 169°	2	1, 4, 5, 6
170° to 191°	2, 8	1, 4, 5
192° to 214°	2, 8	1, 4, 5
215° to 237°	8	1, 5
238° to 259°	8	1
260° to 281°	8	1, 3
282° to 304°	8	1, 3
305° to 326°	8	1, 3, 7
327° to 349°	8	1, 3, 6, 7

**Table 2**

WD From	Shelter
0° to 359°	1, 2, 3

**Table 3**  
**Staged Evacuation**

WD From	Evacuate	Shelter
350° to 011°	1, 2	3
012° to 034°	1, 2	3
035° to 056°	1, 2	3
057° to 079°	1, 2	3
080° to 101°	1, 2	3
102° to 124°	1, 2	
125° to 146°	1, 2	
147° to 169°	1, 2	
170° to 191°	1, 2	
192° to 214°	1, 2	
215° to 237°	1	
238° to 259°	1	
260° to 281°	1	3
282° to 304°	1	3
305° to 326°	1	3
327° to 349°	1	3

**Table 4**  
**Controlled Containment Vent**  
Shelter

	1, 2, 3
	1, 2, 3
	1, 2, 3
	1, 2, 3
	1, 2, 3
	1, 2
	1, 2
	1, 2
	1, 2
	1, 2
	1
	1
	1
	1, 3
	1, 3
	1, 3
	1, 3
	1, 3



Attachment 2, CCNPP PAR Determination Instruction (Continued)

Calvert Cliffs PAR Flowchart

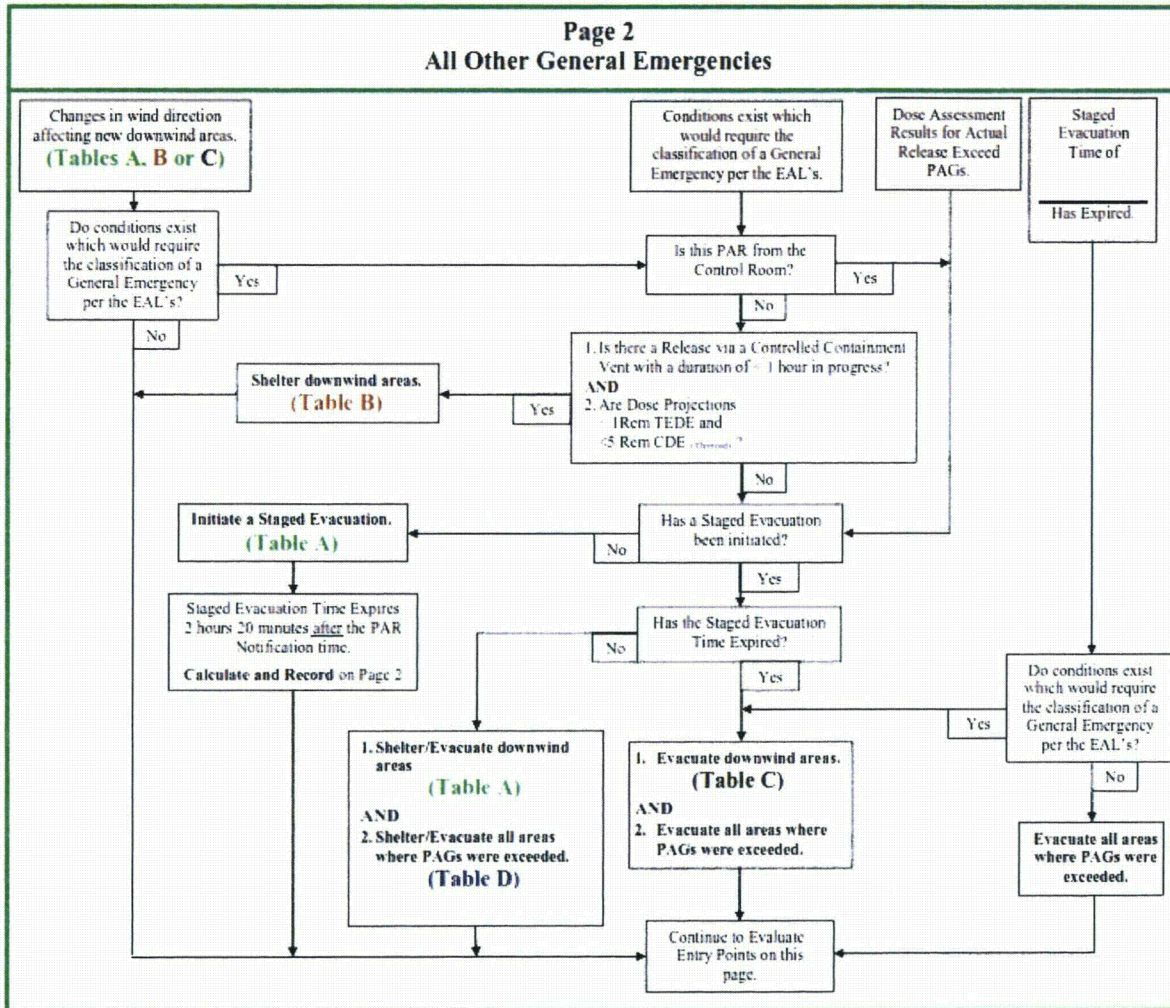


TABLE A STAGED EVACUATION NOT INITIATED OR TIME NOT EXPIRED				TABLE B CONTROLLED CONTAINMENT VENT IN PROGRESS	
WD From		Evacuate	Shelter	Shelter	
350°	to 011°	1	3	1, 3	
012°	to 034°	1	3	1, 3	
035°	to 056°	1, 2	3	1, 2, 3	
057°	to 079°	1, 2		1, 2	
080°	to 101°	1, 2		1, 2	
102°	to 124°	1, 2		1, 2	
125°	to 146°	1, 2		1, 2	
147°	to 169°	1, 2		1, 2	
170°	to 191°	1		1	
192°	to 214°	1		1	
215°	to 237°	1		1	
238°	to 259°	1		1	
260°	to 281°	1		1	
282°	to 304°	1		1	
305°	to 326°	1	3	1, 3	
327°	to 349°	1	3	1, 3	

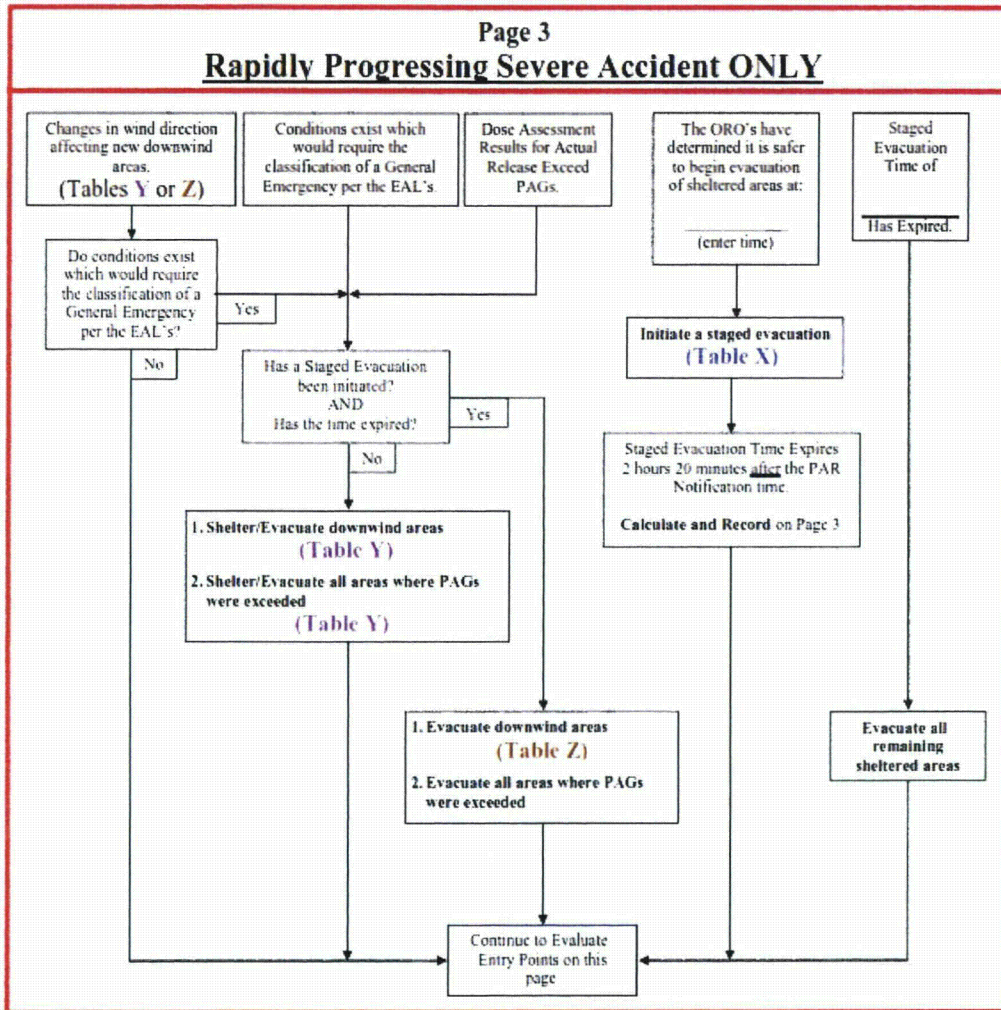
TABLE C STAGED EVACUATION INITIATED AND TIME EXPIRED		
WD From		Evacuate
350°	to 011°	1, 3
012°	to 034°	1, 3
035°	to 056°	1, 2, 3
057°	to 079°	1, 2
080°	to 101°	1, 2
102°	to 124°	1, 2
125°	to 146°	1, 2
147°	to 169°	1, 2
170°	to 191°	1
192°	to 214°	1
215°	to 237°	1
238°	to 259°	1
260°	to 281°	1
282°	to 304°	1
305°	to 326°	1, 3
327°	to 349°	1, 3

Table D	
Actions	PAZ's
Evacuate designated PAZ's <u>ONLY</u> if PAG's have been exceeded.	1, 2, 8
Shelter	Any additional PAZ's where PAG's were exceeded.



Attachment 2, CCNPP PAR Determination Instruction (Continued)

Calvert Cliffs PAR Flowchart



**Table X**  
**Initiate Staged Evacuation**

Actions	PAZ's
Evacuate	1, 2
Evacuate the following PAZ <b>ONLY</b> if it is currently <b>Sheltered</b>	8

**Table Y**  
**STAGED EVACUATION NOT INITIATED OR TIME NOT EXPIRED**

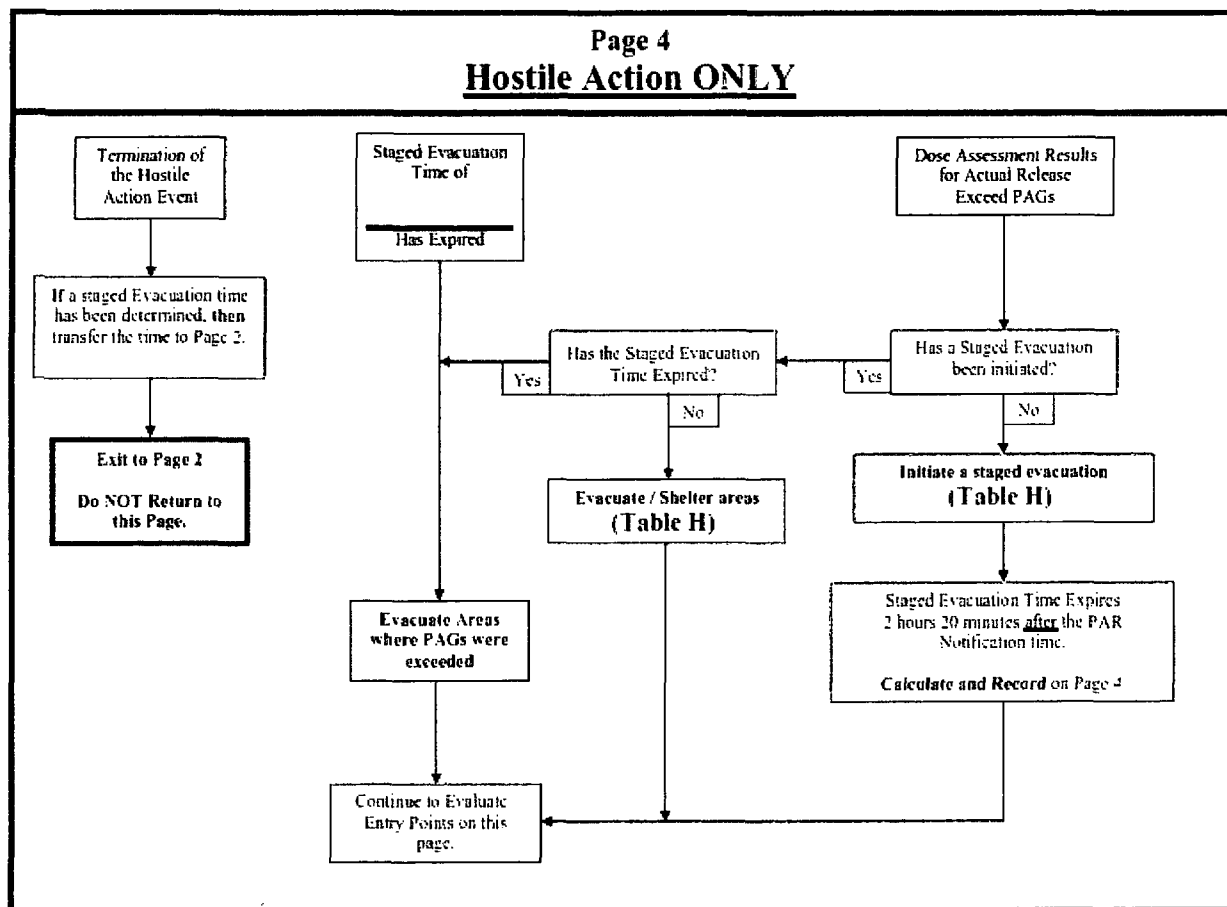
WD From	Evacuate	Shelter
350° to 011°		1, 3, 7
012° to 034°		1, 3, 6, 7
035° to 056°	2	1, 3, 6, 7
057° to 079°	2	1, 4, 6, 7
080° to 101°	2	1, 4, 6
102° to 124°	2	1, 4, 5, 6
125° to 146°	2	1, 4, 5
147° to 169°	2	1, 4, 5
170° to 191°		1, 5
192° to 214°		1
215° to 237°	8	1
238° to 259°	8	1
260° to 281°	8	1
282° to 304°	8	1
305° to 326°		1, 3
327° to 349°		1, 3

**Table Z**  
**STAGED EVACUATION INITIATED AND TIME EXPIRED**

WD From	Evacuate
350° to 011°	1, 3, 7
012° to 034°	1, 3, 6, 7
035° to 056°	1, 2, 3, 6, 7
057° to 079°	1, 2, 4, 6, 7
080° to 101°	1, 2, 4, 6
102° to 124°	1, 2, 4, 5, 6
125° to 146°	1, 2, 4, 5
147° to 169°	1, 2, 4, 5
170° to 191°	1, 5
192° to 214°	1
215° to 237°	1, 8
238° to 259°	1, 8
260° to 281°	1, 8
282° to 304°	1, 8
305° to 326°	1, 3
327° to 349°	1, 3

Attachment 2, CCNPP PAR Determination Instruction (Continued)

Calvert Cliffs PAR Flowchart



**Table H**  
**Initiate Staged Evacuation or Staged Evacuation time has not expired**

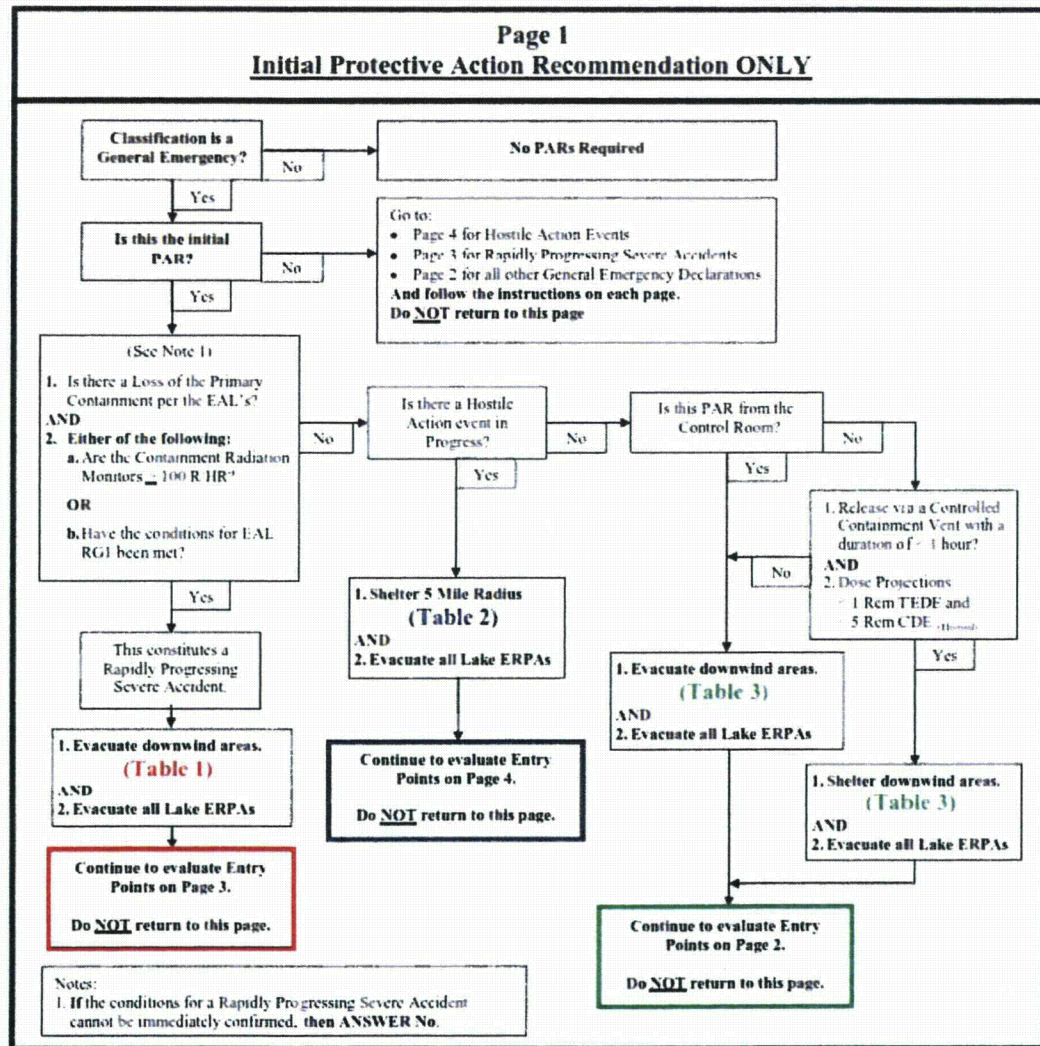
Actions	PAZ's
Evacuate	1
Evacuate designated PAZ <b>ONLY</b> if PAG's have been exceeded.	2. 8
Shelter	Any additional PAZ's where PAG's were exceeded.







Attachment 3, Ginna PAR Determination Instructions



**Table 1**

WD From	to	ERPAs
349°	to 011°	W-1, W-2, W-3, W-5, W-6, W-7, M-1, M-2, M-3, M-4, M-5, M-7
012°	to 033°	W-1, W-2, W-5, W-6, W-7, M-1, M-2, M-3, M-4, M-5, M-6, M-7, M-8, M-9
034°	to 056°	W-1, W-2, W-7, M-1, M-2, M-3, M-4, M-5, M-6, M-7, M-8, M-9
057°	to 078°	W-1, W-2, W-7, M-1, M-2, M-3, M-4, M-5, M-6, M-7, M-8, M-9
079°	to 101°	W-1, W-2, M-1, M-2, M-3, M-4, M-5, M-6, M-7, M-8, M-9
102°	to 124°	W-1, M-1, M-3, M-4, M-6, M-7, M-8, M-9
125°	to 146°	W-1, M-1, M-6, M-8
147°	to 169°	W-1
170°	to 191°	W-1
192°	to 214°	W-1
215°	to 236°	W-1, W-3, W-4
237°	to 258°	W-1, W-3, W-4, W-5
259°	to 281°	W-1, W-2, W-3, W-4, W-5, W-6
282°	to 303°	W-1, W-2, W-3, W-4, W-5, W-6, W-7
304°	to 326°	W-1, W-2, W-3, W-4, W-5, W-6, W-7
327°	to 348°	W-1, W-2, W-3, W-5, W-6, W-7, M-2, M-5

**Table 2**

WD From	to	ERPAs
0°	to 359°	W-1, W-2, W-3, M-1

**Table 3**

WD From	to	ERPAs
349°	to 011°	W-1, W-2, W-3, M-1
012°	to 033°	W-1, W-2, M-1
034°	to 056°	W-1, W-2, M-1
057°	to 078°	W-1, W-2, M-1
079°	to 101°	W-1, W-2, M-1
102°	to 124°	W-1, M-1
125°	to 146°	W-1, M-1
147°	to 169°	W-1
170°	to 191°	W-1
192°	to 214°	W-1
215°	to 236°	W-1, W-3
237°	to 258°	W-1, W-3
259°	to 281°	W-1, W-2, W-3
282°	to 303°	W-1, W-2, W-3
304°	to 326°	W-1, W-2, W-3
327°	to 348°	W-1, W-2, W-3

Attachment 3, Ginna PAR Determination Instructions (Continued)

Ginna PAR Flowchart

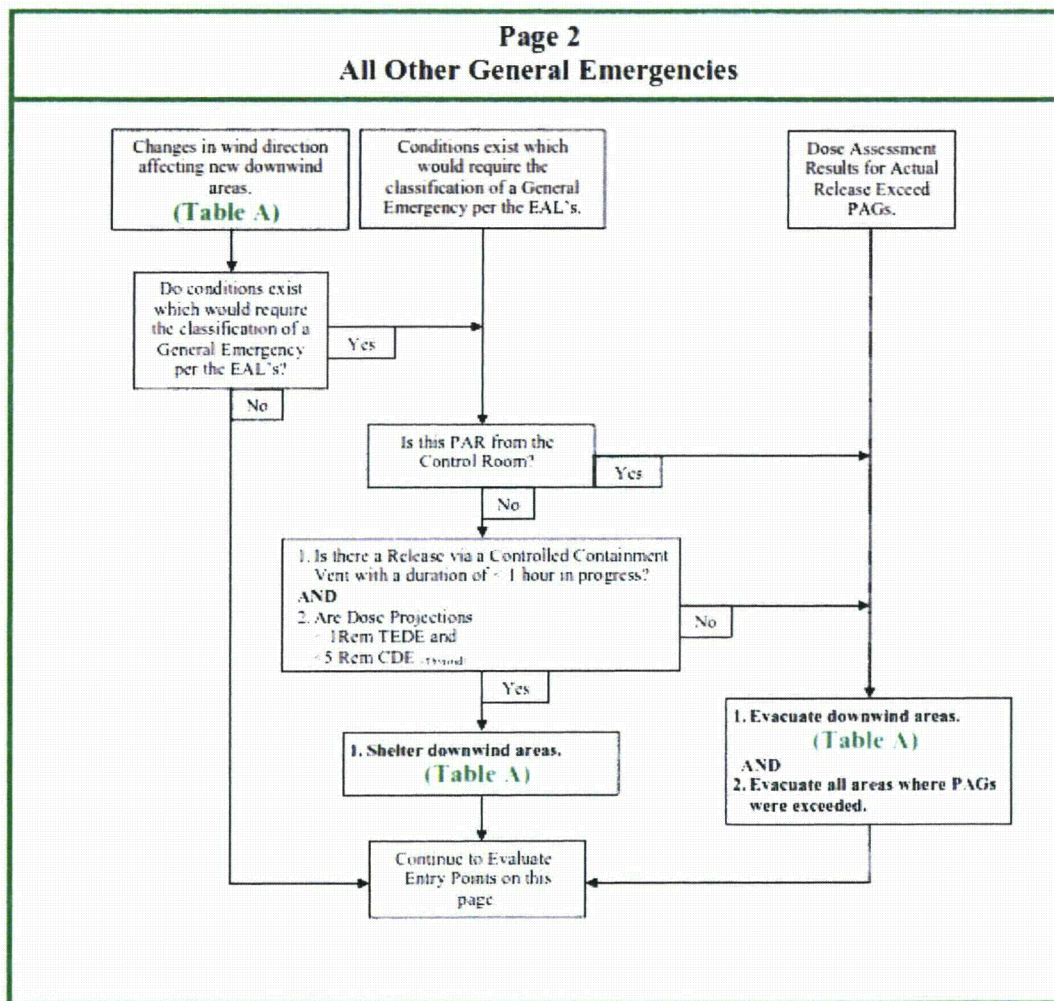
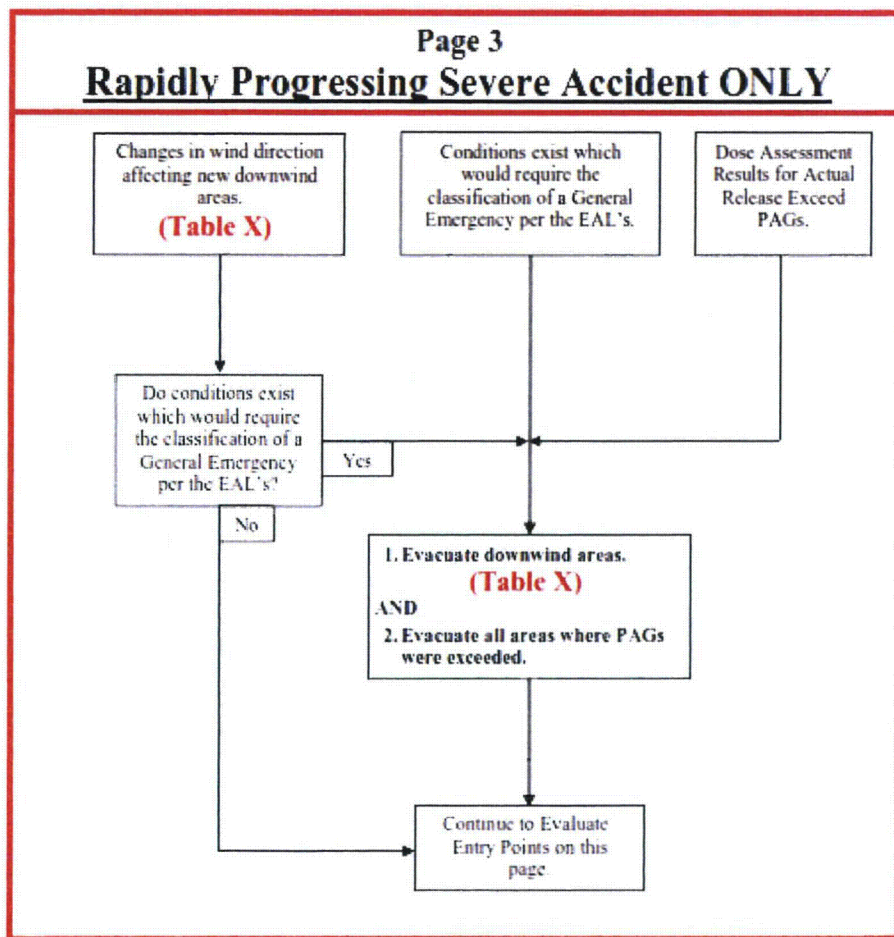


Table A		
WD From		ERPA's
349°	to 011°	W-1, W-2
012°	to 033°	W-1, W-2, M-1
034°	to 056°	W-1, W-2, M-1
057°	to 078°	W-1, W-2, M-1
079°	to 101°	W-1, M-1
102°	to 124°	W-1, M-1
125°	to 146°	W-1
147°	to 169°	W-1
170°	to 191°	W-1
192°	to 214°	W-1
215°	to 236°	W-1
237°	to 258°	W-1, W-3
259°	to 281°	W-1, W-3
282°	to 303°	W-1, W-2, W-3
304°	to 326°	W-1, W-2, W-3
327°	to 348°	W-1, W-2, W-3



Attachment 3, Ginna PAR Determination Instructions (Continued)

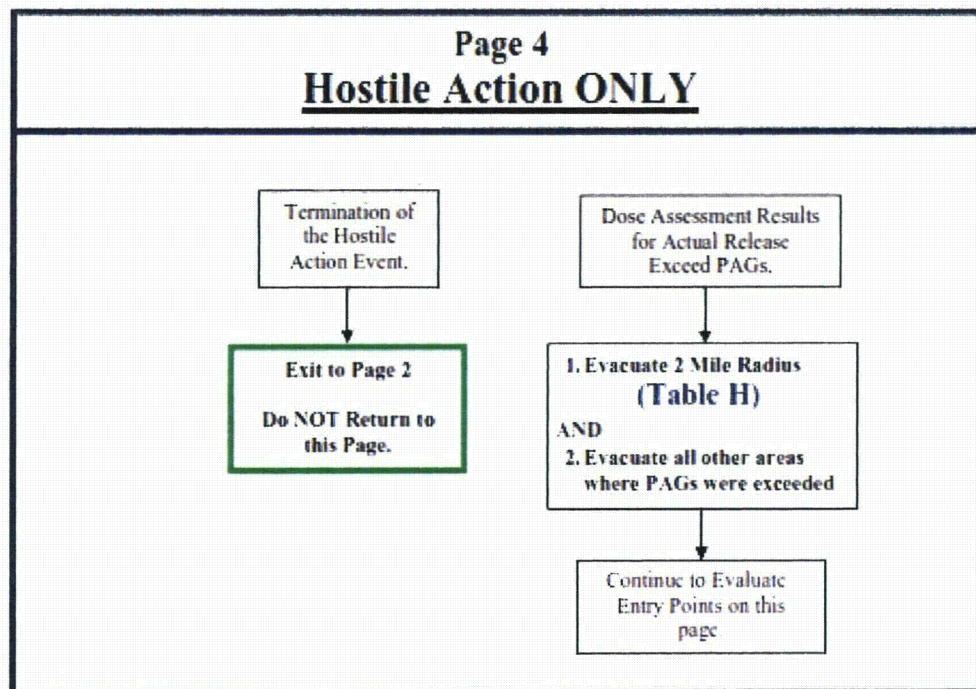
Ginna PAR Flowchart



WD From		to	ERPA's
349°	to	011°	W-1, W-2, W-5, W-6, W-7, M-2, M-5
012°	to	033°	W-1, W-2, W-7, M-1, M-2, M-3, M-4, M-5, M-7
034°	to	056°	W-1, W-2, W-7, M-1, M-2, M-3, M-4, M-5, M-6, M-7, M-8, M-9
057°	to	078°	W-1, W-2, M-1, M-2, M-3, M-4, M-5, M-6, M-7, M-8, M-9
079°	to	101°	W-1, M-1, M-3, M-4, M-6, M-7, M-8, M-9
102°	to	124°	W-1, M-1, M-6, M-8
125°	to	146°	W-1
147°	to	169°	W-1
170°	to	191°	W-1
192°	to	214°	W-1
215°	to	236°	W-1
237°	to	258°	W-1, W-3, W-4
259°	to	281°	W-1, W-3, W-4, W-5
282°	to	303°	W-1, W-2, W-3, W-4, W-5, W-6
304°	to	326°	W-1, W-2, W-3, W-4, W-5, W-6, W-7
327°	to	348°	W-1, W-2, W-3, W-5, W-6, W-7

Attachment 3, Ginna PAR Determination Instructions (Continued)

Ginna PAR Flowchart

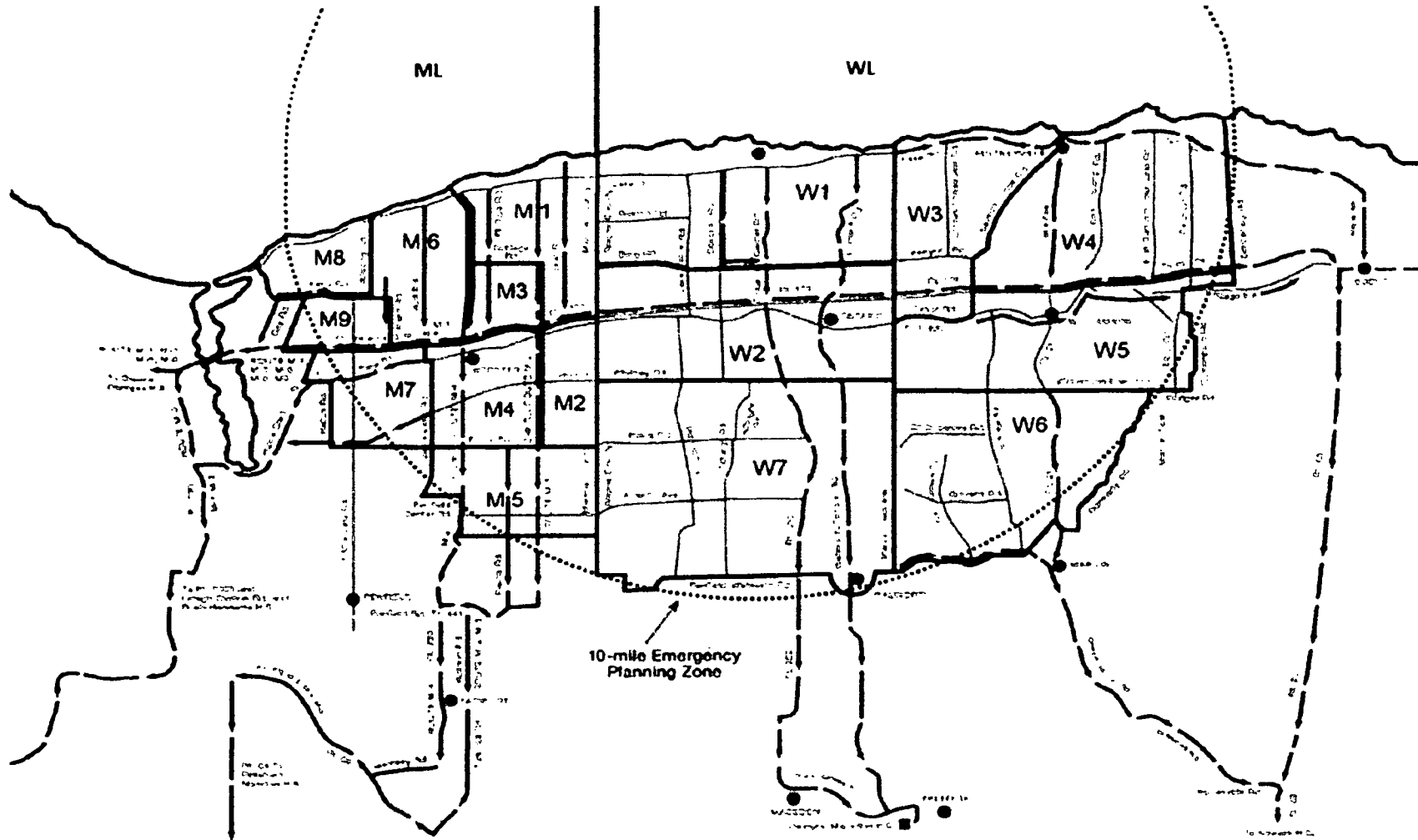


WD From		ERPA's	
0°	to	359°	W-1



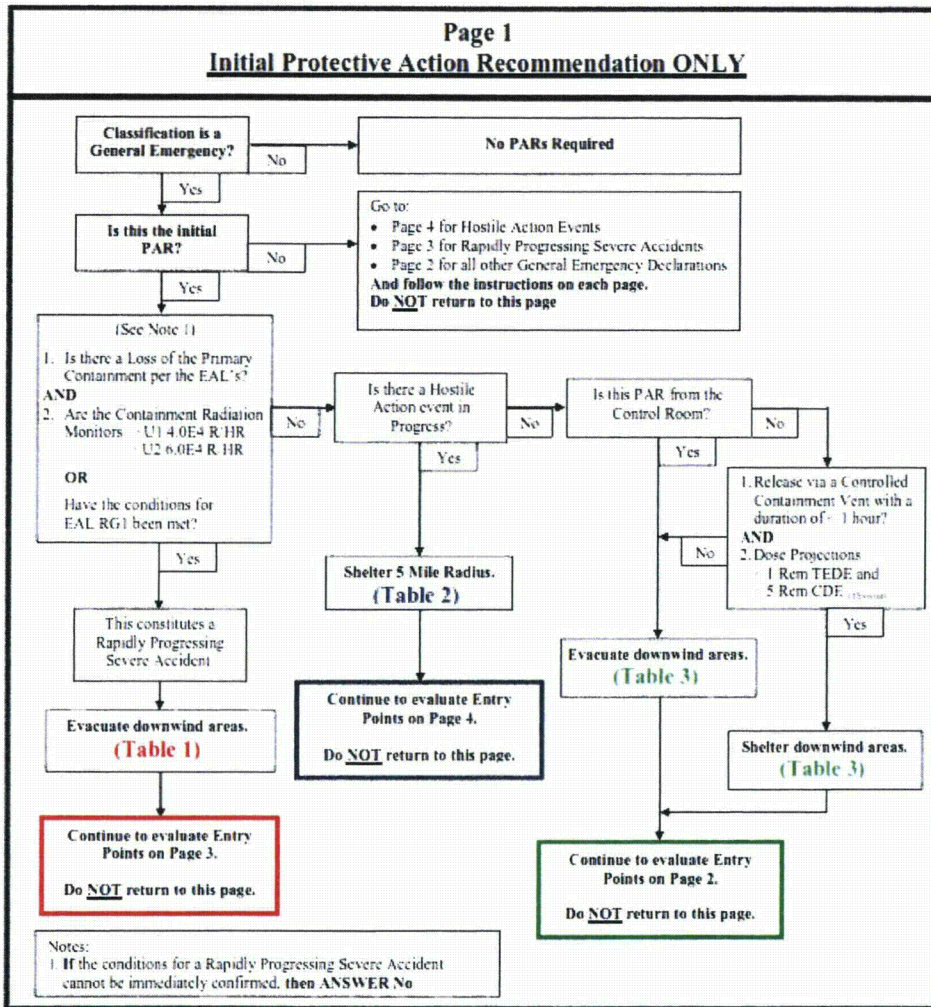
Attachment 3, Ginna PAR Determination Instructions (Continued)

GNP Emergency Response Planning Areas (ERPAs)



Attachment 4, NMP PAR Determination Instructions

Nine Mile PAR Flowchart



**Table 1**

WD From	to	ERPA's
349°	to 011°	1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27
012°	to 033°	1, 2, 3, 5, 6, 9, 10, 11, 12, 13, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28
034°	to 056°	1, 2, 3, 5, 6, 10, 11, 12, 13, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
057°	to 078°	1, 2, 3, 5, 6, 10, 11, 12, 13, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
079°	to 101°	1, 2, 3, 6, 11, 12, 13, 19, 21, 22, 23, 24, 26, 27, 28
102°	to 124°	1, 2, 3, 6, 26, 27, 28
125°	to 146°	1, 2, 3, 26, 27, 28, 29
147°	to 169°	1, 2, 3, 26, 27, 28, 29
170°	to 191°	1, 2, 3, 26, 27, 28, 29
192°	to 214°	1, 2, 3, 14, 26, 27, 28, 29
215°	to 236°	1, 2, 3, 4, 7, 14, 15, 26, 27, 28, 29
237°	to 258°	1, 2, 3, 4, 7, 8, 9, 14, 15, 16, 17, 26, 27, 29
259°	to 281°	1, 2, 3, 4, 5, 7, 8, 9, 14, 15, 16, 17, 18, 26, 27, 29
282°	to 303°	1, 2, 3, 4, 5, 7, 8, 9, 10, 14, 15, 16, 17, 18, 19, 20, 26, 27, 29
304°	to 326°	1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 26, 27, 29
327°	to 348°	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27

**Table 2**

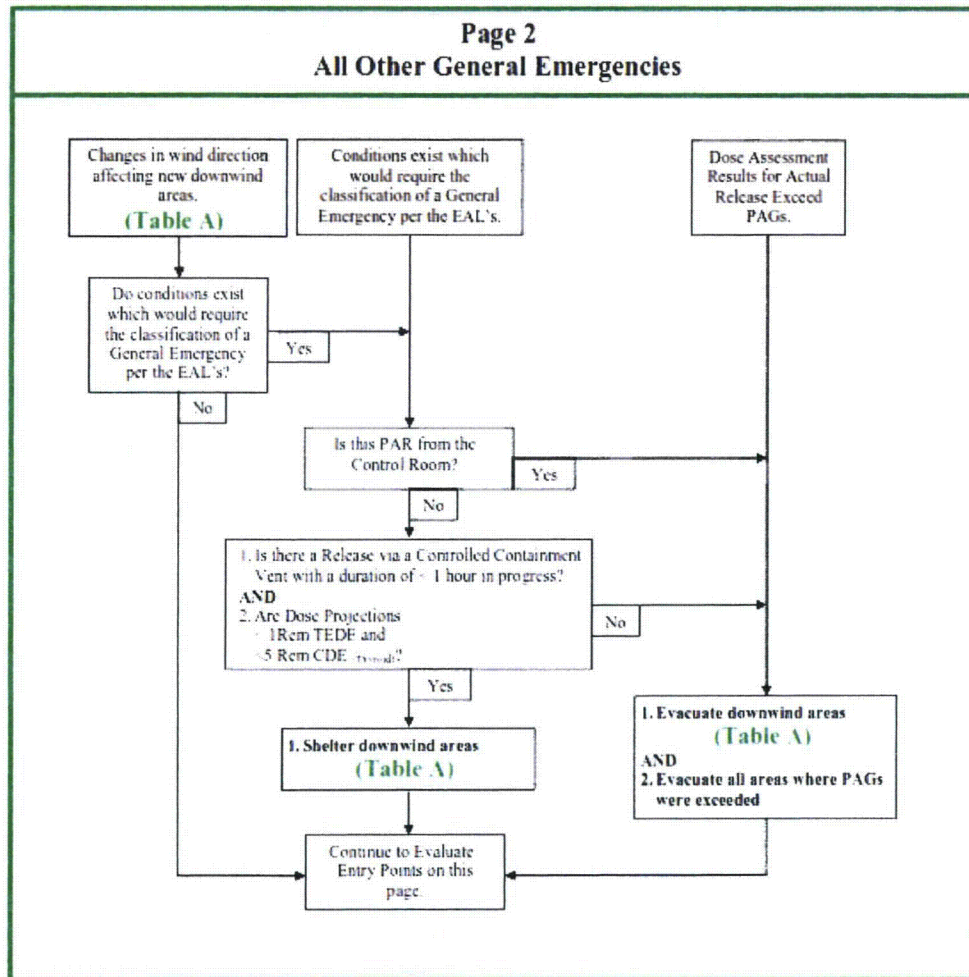
WD From	to	ERPA's
0°	to 359°	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 26, 27

**Table 3**

WD From	to	ERPA's
349°	to 011°	1, 2, 3, 4, 5, 6, 9, 10, 11, 26, 27
012°	to 033°	1, 2, 3, 5, 6, 9, 10, 11, 26, 27
034°	to 056°	1, 2, 3, 5, 6, 10, 11, 26, 27
057°	to 078°	1, 2, 3, 5, 6, 10, 11, 26, 27
079°	to 101°	1, 2, 3, 6, 11, 26, 27
102°	to 124°	1, 2, 3, 6, 26, 27
125°	to 146°	1, 2, 3, 26, 27
147°	to 169°	1, 2, 3, 26, 27
170°	to 191°	1, 2, 3, 26, 27
192°	to 214°	1, 2, 3, 26, 27
215°	to 236°	1, 2, 3, 4, 7, 26, 27
237°	to 258°	1, 2, 3, 4, 7, 9, 26, 27
259°	to 281°	1, 2, 3, 4, 5, 7, 9, 26, 27
282°	to 303°	1, 2, 3, 4, 5, 7, 9, 10, 26, 27
304°	to 326°	1, 2, 3, 4, 5, 7, 9, 10, 11, 26, 27
327°	to 348°	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 26, 27

Attachment 4, NMP PAR Determination Instructions (Continued)

Nine Mile PAR Flowchart



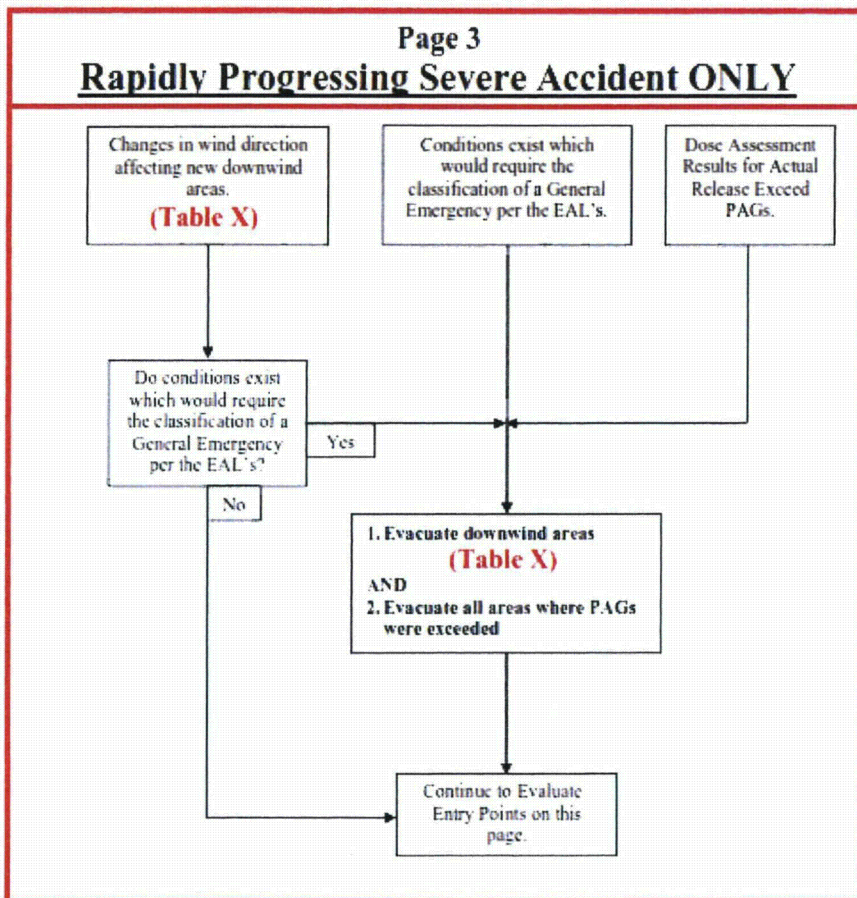
**Table A**

WD From	to	ERPA's
349°	to 011°	1, 2, 3, 5, 6, 9, 10, 11, 26, 27
012°	to 033°	1, 2, 3, 5, 6, 10, 11, 26, 27
034°	to 056°	1, 2, 3, 5, 6, 10, 11, 26, 27
057°	to 078°	1, 2, 3, 6, 10, 11, 26, 27
079°	to 101°	1, 2, 3, 6, 26, 27
102°	to 124°	1, 2, 3, 26, 27
125°	to 146°	1, 2, 3, 26, 27
147°	to 169°	1, 2, 3, 26, 27
170°	to 191°	1, 2, 3, 26, 27
192°	to 214°	1, 2, 3, 26, 27
215°	to 236°	1, 2, 3, 26, 27
237°	to 258°	1, 2, 3, 4, 7, 26, 27
259°	to 281°	1, 2, 3, 4, 7, 9, 26, 27
282°	to 303°	1, 2, 3, 4, 5, 7, 9, 10, 26, 27
304°	to 326°	1, 2, 3, 4, 5, 7, 9, 10, 26, 27
327°	to 348°	1, 2, 3, 4, 5, 7, 9, 10, 11, 26, 27



Attachment 4, NMP PAR Determination Instructions (Continued)

Nine Mile PAR Flowchart



**Table X**

WD From	to	ERPA's
349°	to 011°	1, 2, 3, 5, 6, 9, 10, 11, 12, 13, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27
012°	to 033°	1, 2, 3, 5, 6, 10, 11, 12, 13, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
034°	to 056°	1, 2, 3, 5, 6, 10, 11, 12, 13, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
057°	to 078°	1, 2, 3, 6, 10, 11, 12, 13, 19, 21, 22, 23, 24, 26, 27, 28
079°	to 101°	1, 2, 3, 6, 26, 27, 28
102°	to 124°	1, 2, 3, 26, 27, 28
125°	to 146°	1, 2, 3, 26, 27, 28
147°	to 169°	1, 2, 3, 26, 27, 28, 29
170°	to 191°	1, 2, 3, 26, 27, 28, 29
192°	to 214°	1, 2, 3, 26, 27, 28, 29
215°	to 236°	1, 2, 3, 14, 26, 27, 29
237°	to 258°	1, 2, 3, 4, 7, 14, 15, 26, 27, 29
259°	to 281°	1, 2, 3, 4, 7, 8, 9, 14, 15, 16, 17, 26, 27, 29
282°	to 303°	1, 2, 3, 4, 5, 7, 8, 9, 10, 14, 15, 16, 17, 18, 26, 27, 29
304°	to 326°	1, 2, 3, 4, 5, 7, 8, 9, 10, 14, 15, 16, 17, 18, 19, 20, 26, 27
327°	to 348°	1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 15, 16, 17, 18, 19, 20, 21, 25, 26, 27

Attachment 4, NMP PAR Determination Instructions (Continued)

Nine Mile PAR Flowchart

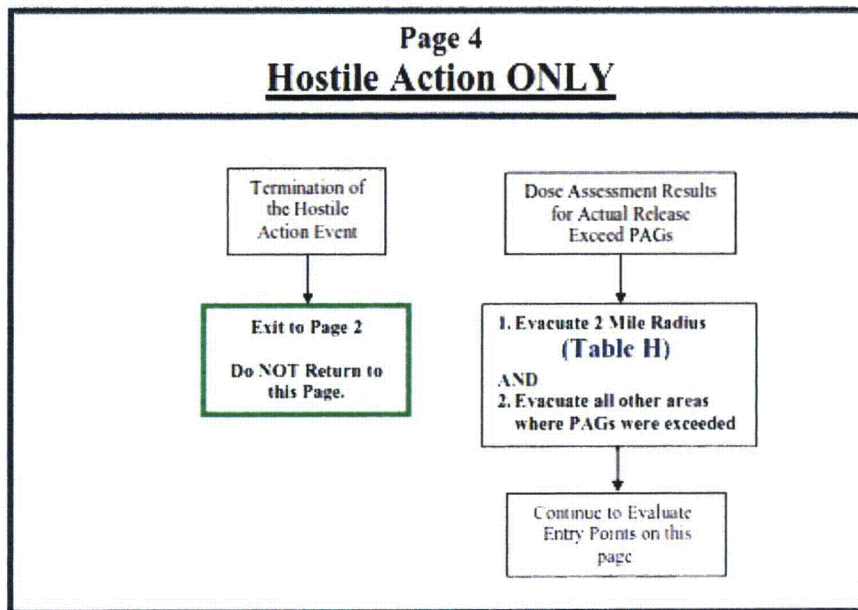
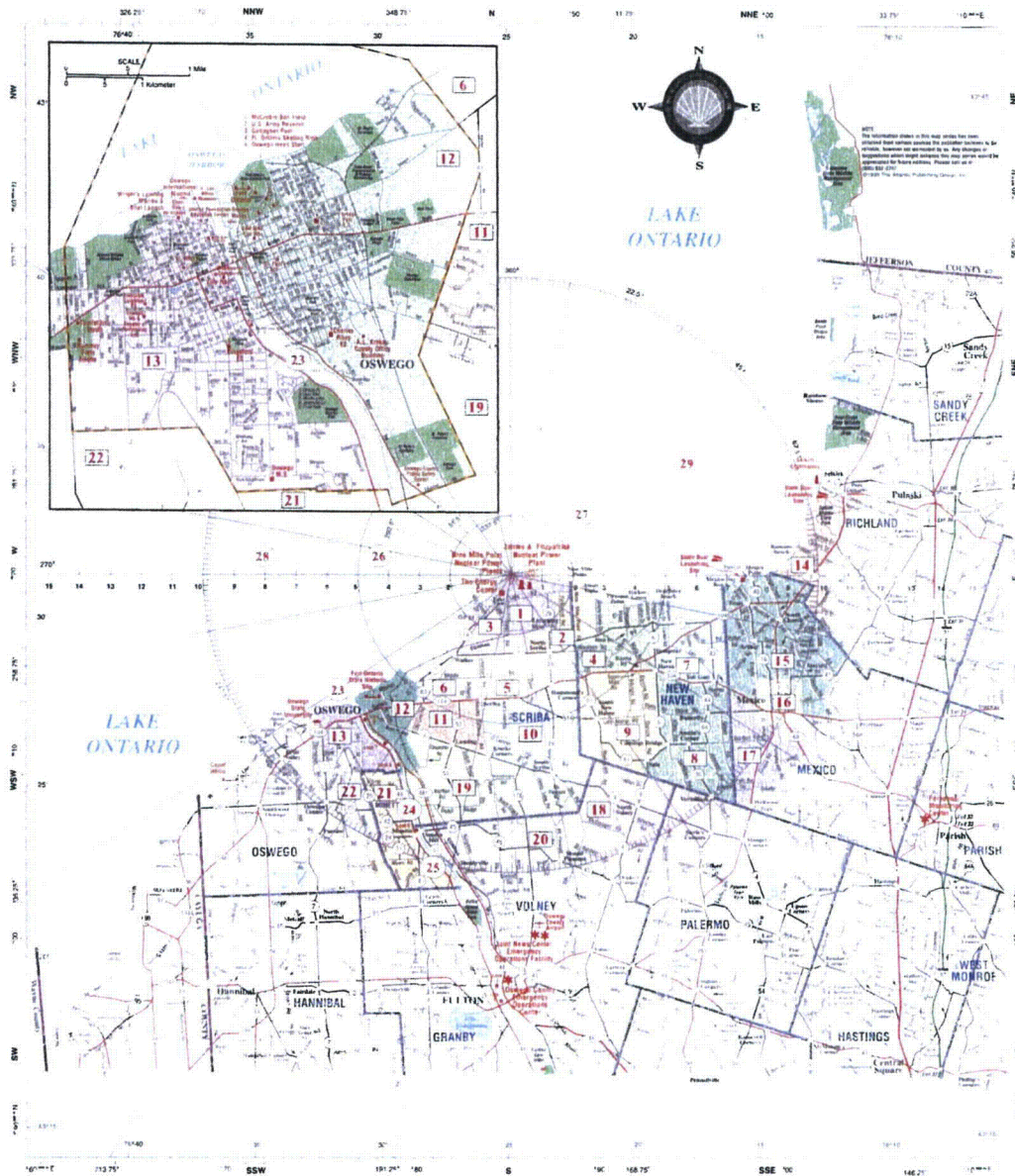


Table H		
WD From		ERPA's
0°	to 359°	1, 2, 3, 26, 27



Attachment 4, NMP PAR Determination Instructions (Continued)



**Ten Mile Emergency Planning Zone (Plume Exposure Pathway)**

- Interstate Highways
- U.S. & State Highways
- County Roads
- Town Roads
- County Boundaries
- Township Boundaries
- City and Villages
- Railroads
- Emergency Response Planning Area (ERPA) & Number
- ERPA - Water Area Numbers
- Emergency Facility



**Nine Mile Point / James A. Fitzpatrick Radiological Emergency Plans and Procedures**

**NINE MILE POINT EMERGENCY PREPAREDNESS**



# CENG

a joint venture of



**Constellation  
Energy**



**EDF**

## **Constellation Energy Nuclear Group Fleet Administrative Procedure**

### **CNG-EP-1.01-1015**

#### **EMERGENCY NOTIFICATIONS**

**Revision 00200**

This Procedure is EXEMPT from 10 CFR 50.59 / 10 CFR 72.48 Reviews

**Management Related**

**INFORMATION USE**

#### **Applicable To:**

- Calvert Cliffs Nuclear Power Plant, Units 1 and 2**
- Nine Mile Point Nuclear Station, Units 1 and 2**
- R.E. Ginna Nuclear Power Plant**
- Corporate Offices of CENG**

**Procedure Owner Group: Emergency Preparedness**

**SUMMARY OF ALTERATIONS**

<b>Revision</b>	<b>Change</b>	<b>Summary of Revision or Change</b>
002	00	Changed "alternate" to "alternative" throughout the procedure to support rulemaking



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## 1.0 INTRODUCTION

### 1.1. Purpose

- A. To provide instructions for the notification and mobilization of the Emergency Response Organization (ERO).
- B. To provide instructions for the prompt notification of State and Local authorities in the event of a declared emergency at a CENG nuclear power station.
- C. To provide instructions for notification of the NRC for declared emergency events.

### 1.2. Scope/Applicability

- A. This procedure is applicable to:
  - Calvert Cliffs Nuclear Power Plant (CCNPP)
  - R.E. Ginna Nuclear Power Plant (Ginna)
  - Nine Mile Point Nuclear Station (NMP)

## 2.0 REFERENCES

### 2.1. Developmental References

- A. Calvert Cliffs Nuclear Power Plant Emergency Response Plan
- B. Ginna Station Nuclear Emergency Response Plan
- C. Nine Mile Point Site Emergency Plan

### 2.2. Performance References

- A. Forms
  - 1. EP-Form-ALL04, GNP Release in Progress Determination
  - 2. EP-Form-ALL20, CCNPP Detailed Follow-up Communication Form
  - 3. EP-Form-ALL21, CCNPP ERONS Notification Details
  - 4. EP-Form-ALL22, CCNPP Follow-up Communication Form
  - 5. EP-Form-ALL23, CCNPP Initial Notification Form
  - 6. EP-Form-ALL24, Ginna ERONS Notification Details
  - 7. EP-Form-ALL25, Ginna NYS Radiological Emergency Data Form Part 1
  - 8. EP-Form-ALL26, Ginna New York State Radiological Emergency Data Form (Part II)
  - 9. EP-Form-ALL27, Ginna Plant Data Sheet, from the TSC Operations Communicator
  - 10. EP-Form-ALL28, NMP ERONS Notification Details
  - 11. EP-Form-ALL29, NMP Plant Data Sheet (Unit 1)
  - 12. EP-Form-ALL30, NMP Plant Data Sheet (Unit 2)
  - 13. EP-Form-ALL31 (NMP Station Notification Fact Sheet - Part 1)

**2.2.A (Continued)**

14. EP-Form-ALL32 (NMP Station Notification Fact Sheet - Part 2)
15. EP-Form-ALL34, Reactor Plant Event Notification Worksheet

**3.0 DEFINITIONS****3.1. ERONS - ERO Notification System**

An automated computer callout system used to assist with notification of CENG emergency response personnel.

**3.2. NRC Emergency Telecommunication System (ETS)**

A dedicated telephone system to communicate important plant information to the NRC during an emergency. This includes the Emergency Notification System (ENS) known as the "red phone", the Health Physics Network (HPN), and other lines for NRC use.

**3.3. Radiological Emergency Communication System (RECS)**

A dedicated telephone system used to provide initial notification of an emergency, and continuing emergency information to New York State, affected counties and unaffected nuclear units.

**3.4. State Emergency Communications Center (SECC)**

New York State's center for receipt and dissemination of warnings of an attack upon the United States as well as actual or impending natural or man-made disasters. The SECC is located in Albany, New York.

**3.5. State and County Warning Points**

Designated locations that are staffed 24 hours a day which will receive initial notification of an event at a CENG station and notify appropriate State and local authorities. Warning points will continue to receive notifications until State and local Emergency Operations Centers (EOCs) are activated.

**4.0 RESPONSIBILITIES****4.1. The following ERO positions have responsibilities in this procedure:**

- A. Shift Manager (SM)
- B. Shift Communicator
- C. Emergency Director (ED)
- D. EOF Manager
- E. State and Local Communicator
- F. ENS Communicator
- G. HPN Communicator
- H. Security Shift Supervisor

## 5.0 PROCESS

### 5.1. ERO Notification (Calvert Cliffs and Nine Mile Point)

- A. **[CCNPP Only] IF** this section is being implemented by Security because a hostile action has made the Control Room uninhabitable, **THEN GO** directly to Step 5.1.E.

#### NOTES

- A designated on-shift individual performs the steps in Section 5.1, ERO Notification (Calvert Cliffs and Nine Mile Point). This could be the Shift Communicator, the Shift Manager, designated shift operations personnel or for NMP the unaffected unit's Control Room personnel.
- The top portion of station-specific ERONS Notification Details form (EP-Form-ALL21, CCNPP ERONS Notification Details or EP-Form-ALL28, NMP ERONS Notification Details) is completed by the Shift Manager and used by individual completing ERO notification.
- The goal is to activate ERONS within 10 minutes of event declaration.

B. Primary Method for Activation of ERONS

1. Click the Internet Explorer icon on an available computer with internet capability.
2. If at any time during ERONS activation the internet **CANNOT** be accessed, then go to Step 5.1.C, Alternate Method for ERONS Activation.
3. Navigate to the ERONS activation website using one of the following methods:
  - a. Use Internet Explorer favorites menu and choose ERONS.
  - b. Type the following into the address bar: <https://www.notifind.net/exelon/> and select enter.

## 5.1.B (Continued)

## NOTES

- The user name and password are case sensitive.
- Three failed attempts to log in will lock the system.

4. When the following login appears, then enter station specific logon information **AND** click *Log On* button:
  - CCNPP ERONS logon input items
    - Username: "CCNPP"
    - Password: "NOW4\$event"
  - NMP ERONS logon input items
    - Username: "NMP"
    - Password: "Kaminski4\$"

A screenshot of a login form with a rounded rectangular border. It contains two input fields: "Username:" and "Password:". The "Username:" field has a dashed border and contains the text "CCNPP". The "Password:" field has a dashed border and contains the text "NOW4\$event". To the right of the "Password:" field is a button labeled "Log On".

- a. If system lock occurs then immediately GO TO step 5.1.C.
5. Select "Activation" on the "Welcome to NOTIFIND" screen.
6. Select "Activate System" on the NOTIFIND Main Menu screen.
7. Select "ERO Notification System" on the Create Notification/Select Notification Type screen.
8. Click "Next" to proceed to next screen.
9. Enter the required details on the "Create Notification / Notification Details" screen from the ERONS Notification Details form.
10. Verify the on-screen message text matches information on the form.
11. Enter the "Sender Information" as follows:
  - a. Name area: Enter your name.
  - b. Caller ID area: Enter station specific caller ID from ERONS Notification Details form.
  - c. Email area: Enter station specific email address from the ERONS Notification Details form.
  - d. Numeric Pager area: Leave blank.
12. Click "next" box.

## 5.1.B (Continued)

13. On the Create Notification / Notification Lists screen:
  - a. Click on "Add List to Notification".
  - b. Select appropriate station roster:
    - "CCNPP ERO Roster"
    - "NMP ERO Roster"
  - c. Click "Add to Notification".
  - d. Verify appropriate station roster is selected.
  - e. Click the "next" button.
14. Verify all details on next screen.
15. If correct, then click the "send" button.
16. If **NOT** correct, then click the "back" button, **AND** correct the appropriate information **AND** then send.
17. Record the time you sent message on the ERONS Notification Details form.
18. Check Status is "Delivery in Progress" from the Track Delivery Summary page.
19. If the Status is not "Delivery in Progress", then immediately GO TO Step 5.1.C.
20. Inform the Shift Manager that you have sent ERONS message.
21. Inform Security that ERONS has been activated **AND** expected ERO response.

**NOTE**

The following actions are steps which activate ERONS if the internet is non-functional. This method does **NOT** have all the selection features as the internet bases ERONS.

## C. Alternate Method for ERONS Activation

1. Use the ERONS Notification Details form to determine which of the following actions should be performed:
  - Notify the ERO of the emergency and direct them to staff the normal emergency facilities.
  - Notify the ERO of the emergency and direct them to staff the alternative emergency facilities.
  - **[CCNPP Only]** Notify the ERO, but no response is required.
2. Dial outside line access code then dial the following number from any working telephone: 1-800-735-0318.
3. When prompted, then press "2" for Scenario Activation Line.
4. When prompted, then enter station specific Account Number (found on ERONS Notification Details form).
5. When prompted, then enter PIN number (found on ERONS Notification Details form).

## 5.1.C (Continued)

6. When prompted, then enter the appropriate scenario access code.
  7. When ERONS reads the "Subject" line of the message back, then press "1" to accept message.
  8. When prompted, then press "1" to send the message.
  9. Record the time the message on the ERONS Notification Details form.
  10. Inform the Shift Manager that sent the ERONS message.
  11. Inform Security that ERONS has been activated **AND** expected ERO response.
- D. Verify Control Room pager (or other notification device) activation via ERONS.
1. If the pager (or other notification device) in the Control Room does **NOT** receive the intended ERO notification within 5 minutes of message being sent, then repeat ERONS activation once.
  2. If the pager(or other notification device) in the Control Room does **NOT** receive the second message within 5 minutes, then use Emergency Telephone Directory to notify the ERO.
- E. **[CCNPP Only] Security Only**
1. Access a computer with Internet capability.

**NOTE**

If at any time the internet cannot be accessed, go immediately to Step 5.1.C.

2. Click the Internet Explorer icon and type the following into the address bar:  
**<https://www.notifind.net/exelon/>**

**NOTE**

The user name and password are case sensitive.

3. When the NotiFind log in page appears, enter:
  - Username: CCNPP
  - Password: NOW4\$event
  - Click "Log on"
  - a. Three failed attempts to log in will lock the system. If this occurs immediately go to Step 5.1.C.
4. On the "Welcome to Notifind" screen, Click on "Activation".
5. On the NotiFind Main Menu screen, Click on "Activate System".
6. On the Create Notification/Select Notification Type screen, Select "ERO Notification System" and Click on "Next".

## 5.1.E (Continued)

7. On the Create Notification/Notification Details screen perform the following:
  - a. Select Event: ACTUAL
  - b. Select Unit: CALVERT CLIFFS
  - c. Select Reason for Notification: GENERAL EMERGENCY
  - d. Select Action: STAFF ALTERNATIVE EMERGENCY FACILITIES
  - e. Verify: MESSAGE TEXT IS CORRECT
  - f. Utilize: THE BACK BUTTON AS REQUIRED TO CORRECT ERRORS
8. Under "Sender Information" Enter the following:
  - Name: leave blank
  - Caller ID: 410-495-4444
  - Email: CCNPP\_EP@constellation.com
  - Click on the "Next " button
9. On the Create Notification / Notification Lists screen:
  - a. Click on "Add List to Notification".
  - b. Select "CCNPP ERO Roster".
  - c. Click "Add to Notification".
  - d. Verify "CCNPP ERO Roster" is selected.
  - e. Click the "next" button.
10. On the "Create Notification/Notification Verify and Send" Screen verify information is accurate **AND** click on the "SEND" button.
  - a. Record the time sent from the Track Delivery Summary page:  
\_\_\_\_\_ (Time)
11. Check Status is "Delivery in Progress" from the Track Delivery Summary page.
  - a. If the Status is not "Delivery in Progress", then go to Step 5.1.C.



**5.2. ERO Notification (Ginna)****NOTES**

- Attachment 4, GNP Notifications Flowpath is an overview of notification actions by event.
- The top portion of station specific ERONS Notification Details form (EP-Form-ALL24, Ginna ERONS Notification Details) is completed by the Shift Manager and used by individual completing ERO notification.
- The following steps may be performed by the Shift Communicator, the Shift Manager or designated shift operations personnel.

- A. Primary Method: Normal ERO Notification Process (GREEN Card)
1. If the internet cannot be accessed **OR** the password has been locked out, then proceed to Step 5.2.B Alternate Method: Backup ERO Notification Process (Red Card), Alternate Method: Backup ERO Notification Process (RED Card).
  2. Obtain appropriate card from the Shift Manager as follows:
    - a. GREEN card for Normal internet-based process
    - b. RED card is for Backup ERO Notification process
  3. Process
    - a. Click the NOTIFIND icon on any networked computer.
    - b. If the NOTIFIND icon cannot be found on the computer, then:
      - (1) Click the Internet Explorer icon.
      - (2) Type the following into the address bar: [www.notifind.net/exelon/](http://www.notifind.net/exelon/)
    - c. Obtain EP-Form-ALL24, Ginna ERONS Notification Details, from Shift Manager.

**NOTE**

Three failed attempts to log in will lock the system.

- d. Enter on the NOTIFIND log in page:
  - (1) USERNAME: CASE SENSITIVE (obtained from Shift Manager)
  - (2) PASSWORD: CASE SENSITIVE (obtained from Shift Manager)
  - (3) CLICK "Log on"
- e. Select "Activation" on the "Welcome to NOTIFIND" screen.
- f. Select "Activate System" on the NOTIFIND Main Menu screen.
- g. Select "ERO Notification System" on the Create Notification/Select Notification Type screen.
- h. Click "Next", proceed to next step.

## 5.2.A.3 (Continued)

- i. On the Create Notification/Notification Details screen:
  - (1) Select the appropriate "Event" below.
    - (a) Drill
    - (b) Actual Event
  - (2) Select "Unit".
    - (a) Ginna
  - (3) Select appropriate "Reason for Notification" below (obtained from Shift Manager in Step 5.2.A.3.c)
    - (a) Unusual Event
    - (b) Alert
    - (c) Site Area Emergency
    - (d) General Emergency
    - (e) Hostile Action
  - (4) Declaration Time: LEAVE BLANK
  - (5) Select appropriate ERO Personnel "Action" below (obtained from Shift Manager in Step 5.2.A.3.c).
    - (a) None
    - (b) Staff Alternative Emergency Facility
    - (c) Staff Normal Emergency Facilities as a Precaution
    - (d) Staff Normal Emergency Facilities for Emergency
    - (e) Staff the EOF and JIC only
    - (f) Staff the TSC and OSC only
- j. Verify that the message in the "Message Text" is the desired message.

**NOTE**

The selection under "Polling Options" and "Security Options" are pre-populated and should not be altered.

- k. Under "Sender Information SELECT the following:
  - (1) Name: LEAVE BLANK
  - (2) Caller ID: ENTER 585-771 -3889 (EP phone number)
  - (3) E-mail: ENTER your e-mail address
  - (4) Numeric Pager: LEAVE BLANK
- l. Click the "Next" button.
- m. Click "Add lists to Notification" (underlined on left side of screen).

## 5.2.A.3 (Continued)

- n. Select appropriate staffing on the Create Notification/Notification Lists screen as follows:
    - (1) "UE Staffing" for Unusual Event, OR
    - (2) "Ginna ERO Roster" for Alert or higher, OR
    - (3) IF incident is a Hostile Action THEN select both "Ginna ERO Roster" AND "Ginna ICP Liaison".
  - o. Click the "Add to Notification" button.
  - p. Click the "Next" button.
  - q. Verify all information is correct.
    - (1) If yes, continue with Step 5.2.A.3.r.
    - (2) If no, go back and correct data.
  - r. Select the "Send" button on the Create Notification/Notification Verify and send page.
  - s. Click the "Refresh" button to verify that your message is being delivered.
  - t. Message delivery will be evident if there is a number besides "0" on the "Delivered" or "In Progress" line. If there is only "0", proceed to Step 5.2.B to activate the Back Up process.
    - (1) The phone in the Control Room will ring verifying that the notification process was successful. No interaction is required by Control Room staff.
  - u. Upon activation, exit out of system.
- B. Alternate Method: Backup ERO Notification Process (Red Card)
- 1. Obtain the Account and PIN number from the Shift Manager (RED Card - Back up Process).
  - 2. The Shift Manager shall determine the required ERO Notification Access Code options below.
    - a. (3333) - Emergency - ERO members report to their normal emergency facilities
    - b. (4444) - Emergency - ERO members report to their alternative emergency facilities
    - c. (1519) - Emergency - ICP Liaisons report to their normal alternate facilities.
  - 3. Dial 1-800-735-0318.
  - 4. Press "2 - Saved Event".
  - 5. Enter Account Number - including # key (obtained from the Shift Manager).
  - 6. Enter PIN number - including # key (obtained from the Shift Manager).
  - 7. Enter Access Code.

## 5.2.B (Continued)

8. ERONS will read the "Subject line" of the Access code you selected.
    - a. Press "1" to accept OR
    - b. Press "2" to re-enter
  9. Press "1" to activate the notification.
  10. The phone in the Control Room will ring, verifying that the notification process was successful. No interaction is required by Control Room staff.
  11. If the phone does not ring, contact members of EP listed in the Ginna Emergency Telephone Directory for guidance.
- C. **[GNP Only] IF upgrading from an Unusual Event, THEN repeat Step 5.2.A within 15 minutes of event declaration. [FB0706]**

## 5.3. State and Local Notifications

**NOTE**

Initial notifications to State and local Warning Points or EOCs must be started (roll call complete) within 15 minutes of event classification and/or a change in the station's Protective Action Recommendation (PAR).

- A. Initial Notifications
1. The Shift Manager while in overall command and control or the Emergency Director once command and control is transferred shall approve all initial notifications.
  2. Perform station specific Initial Notifications per appropriate attachment:
    - Attachment 1, CCNPP State and Local Notifications
    - Attachment 2, Ginna State and Local Notifications
    - Attachment 3, NMP State and Local Notifications
- B. Follow-Up Notifications
1. Follow-Up Notifications should be scheduled as follows:
    - Within approximately 15 minutes of a significant change in plant status **OR** change in release status.
    - **[GINNA, NMP]** Approximately every 30 minutes or as requested by State and local authorities of emergency.
    - **[CCNPP]** Approximately every 3 hours or as requested by State and local authorities of emergency.
  2. Perform station specific Follow-up notifications per appropriate attachment:
    - Attachment 1, CCNPP State and Local Notifications
    - Attachment 2, Ginna State and Local Notifications
    - Attachment 3, NMP State and Local Notifications

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#### 5.4. NRC Notification

**NOTE**

Initial notification to the NRC is completed as soon as possible after State and local notifications are completed, but no later than 1 hour after event classification.

##### A. Initial Notification

1. Contact the NRC Emergency Operation Center using the ENS Line (Red Phone) by dialing:
  - 301-816-5100 (Primary Number)
  - 301-951-0550 (1st backup)
  - 301-415-0550 (2nd Backup)
  - a. If ENS phone is not available, then use any available phone with outside line capability to dial above numbers and make contact.
2. When contact is made, then state the following:

"This is (*your name*) calling from (*station name*). I am calling to report an emergency has been declared."
3. Ask for **AND** record the name of who you are talking to.
4. Use the completed Initial Notification form to provide information on the event.
5. If requested, then stay on the line with the NRC.

##### B. Ongoing Communications

1. If the NRC request an open line be staffed at all times, then the Shift Manager shall assign an individual, knowledgeable of plant systems and procedures, to staff the line until relieved by the TSC ENS Communicator.
2. The TSC ENS Communicator may use Form EP-Form-ALL34, Reactor Plant Event Notification Worksheet, to capture and transmit information.
  - a. If requested, then fax completed Event Notification Worksheets to the NRC at 301-816-5151.
3. If an open line is **NOT** established, then notify the NRC as soon as possible of any of the following:
  - Any further degradation in the level of safety of the plant **OR** other worsening plant conditions
  - Concurrent EALs
  - Termination of the Emergency
  - The results of evaluations or assessments of plant conditions
  - The effectiveness of response or
  - Protective measures being taken
  - Information related to plant behavior that is not understood

**6.0 BASES**

**[FB0706]** Ginna (G0403) CA-2012-000132 Response to IER L2 11-39, Lack of Timely Emergency Response Organization and Emergency Response Facility Activation, Rec 1 – Revise EPIP-1-5 to provide for the expected time from declaration to actual initiation of ERONS. EPIP-1-5, Notifications is being superseded by CNG-EP-1.01-1015, Emergency Notification.

**7.0 RECORDS**

- 7.1. All logs, forms and records completed as the result of implementing this procedure during an actual declared event shall be retained as permanent plant records per CNG-PR-3.01-1000, Records Management.
- 7.2. All records when generated by this procedure during drills or exercises are provided to the Emergency Preparedness Department and maintained as necessary to document required drill / exercise data.

**Attachment 1, CCNPP State and Local Notifications**

1. Obtain a completed and approved CCNPP Notification Form from the Shift Manager or Emergency Director.
2. Check the notification form for completion and accuracy.
  - A. If you find errors on form, then inform the Shift Manger or Emergency Director immediately of possible error.

**NOTE**

Details on the Offsite Agency Telephone system are provided at the end of this attachment.

3. Contact state and counties using one of the following methods:
  - A. Lift the handset **AND** depress the "OFFSITE CONFERENCE" button on the dedicated offsite agency phone to simultaneously call the 5 Agencies. (Primary Method)
  - B. If primary call method does not work, then attempt to complete notification using "B/U OFFSITE CONFERENCE" button.
  - C. If no conference calls work or separate calls must be made on the dedicated offsite phone, then depress button for respective agency:

Calvert County	=	"CALVERT"
St. Mary's County	=	"ST. MARYS"
Dorchester County	=	"DORCH"
Maryland Emergency Management Agency	=	"MEMA"
Maryland Department of the Environment	=	"MDE"
  - D. If dedicated phone fails, then use any available operating phone to call agencies using phone numbers listed on Initial Notification Form.

**Attachment 1, CCNPP State and Local Notifications (Continued)**

- E. If no phone is available, then attempt to contact agencies using Radio Communications Console.

Set Talk Group to following:

Calvert County	=	"EMR RSP2"
St. Mary's County	=	"EMR RSP2"
Dorchester County	=	"EMR RSP2"
Maryland Emergency Management Agency	=	Deskset "EMR RSP2"/CR Console "153.44MHz"
Maryland Department of the Environment	=	TSCA "EMR RSP2"/CR Console "153.44MHz"

**NOTE**

During off hours the Maryland Department of the Environment (MDE) is not staffed, agency response is not required. The Maryland Emergency Management Agency (MEMA) will forward information to MDE until offices are manned.

4. As each agency answers, then say "This is Calvert Cliffs. Standby for an emergency message. Please report your agency and your name."

**NOTE**

Agency phone numbers are listed on the notification forms.

- A. If an agency did not answer, then place a separate call using the outside line phone after providing the Initial or Follow-up Notification information to the agencies on line.
5. Record time, name, and method of contact in Contact Table (bottom of Notification Form).
6. After all agencies are on line, then say:
- "Please get a(n) \_\_\_\_\_ (Initial Notification Form, Follow-Up Communication Form or Detailed Follow-up Communication Form corresponding to the form provided to the Communicator). I will wait for you to get the form."
7. When all agencies have the form **OR** 1 minute has elapsed, then say:
- A. "I will give out the information on the form completely once".
- B. "If information is missed, please stay on the line and I will repeat what is missed."



**Attachment 1, CCNPP State and Local Notifications (Continued)****Dedicated Offsite Agency Telephone**

8. Give out the form information.
  - Initial Notification Form, Items A.1 through A.7
  - Follow-Up Communications Form, Items A.1 through A.11
  - Detailed Follow-Up Communications Form, Items A.1 through A.23
9. Repeat information given.
10. Ask each agency if the full message was received.
11. Inform the Shift Manager or Emergency Director State and county notifications are complete.
12. Provide the EOF, TSC, OSC and JIC with a copy of the completed notification forms (for example, Fax, email, hand deliver).

## 13. Incoming Calls:

**NOTE**

Incoming calls from outside agencies to Calvert Cliffs simultaneously ring all Calvert Cliffs phones (Control Room, TSC, and Safe Shutdown Panels).

- A. Depress button adjacent to flashing LCD line indicator.
- B. Lift handset.
- C. Say, "This is Calvert Cliffs."
- D. Give your location (CR, TSC, EOF, and so forth).
- E. Request person's name **AND** record name and time of call.
- F. Terminate call by either pressing "RLS" or hanging-up.

## 14. If directed to access the ERO SharePoint, then:

**NOTE**

OSC Work Activities and priorities may be displayed on the computer big screen located behind panels in the shift turnover area.

- A. Click on "CCNPP Drill/Event Data" tab.
- B. Click on link titled "OSC Work Activities" located on the left hand side of page, under the "Lists" column.
- C. Notify the Shift Manager of the OSC Work Activities display.
- D. When computer displays are limited, periodically print and provide an OSC Work Activities update to the Shift Manager.

**Attachment 2, Ginna State and Local Notifications****NOTE**

Notification forms can be completed either manually or electronically. Guidelines for completion of New York State Radiological Emergency Data Form (Part I) are on back of the form.

1. Complete (or obtain completed form) EP-Form-ALL25, Ginna NYS Radiological Emergency Data Form Part 1.
  - A. When Command & Control is in the Control Room, then the Shift Manager is responsible for filling out the form (This action **SHALL NOT** be delegated)
  - B. When Command & Control is in the EOF, then the Emergency Director, EOF Manager or State / Local Communicator may fill out the form. (The ED has responsibility for form content.)
  - C. Shift Manager or Emergency Director shall review and approve form prior to transmittal (non-delegable).
2. Use available communications systems to transmit information or form to State and Counties.

**NOTE**

The communications systems are listed in preferred order of use. If first listed item does not function use next available system on list.

- A. From the Control Room:
  - 1) RECS phone: Use the RECS telephone systems for primary communications. If unavailable go to option "2)".
  - 2) Normal plant phones. These phones require a "9" to dial outside. These phones are in the 585 area code. If unavailable go to option "3)".
  - 3) Control Room Blue phones. These phones are located in the Control Room and the Shift Manager's office. These phones are an outside phone line. These phones are in the 315 area code. The telephone numbers for these phones are (315) 524-5718 and (315) 524-6381. If unavailable go to option "4)".
  - 4) Control Room Cellular Phone. This phone is located in the Shift Manager's office. The call back number for this phone is (585) 362-3719. If unavailable go to option "5)".
  - 5) Control Room Hardwired Satellite Phone.
    - This phone requires a "001" to access the satellite provider.
    - After the 001, enter the area code and telephone number.
    - The callback telephone number for this phone is 011-88-164-148-7616.

**Attachment 2, Ginna State and Local Notifications (Continued)**

## B. From the EOF:

- 1) RECS phone: Use the RECS telephone systems for primary communications. If unavailable go to option "2)".
- 2) Normal EOF phones: These phones require a "9" to dial outside. These phones are in the 315 area code. If unavailable go to option "3)".
- 3) EOF Centrex phones: These phones require a "9" to dial outside. These phones are in the 315 area code. If unavailable go to option "4)".
- 4) EOF Hardwired Satellite Phones:
  - These phones require a "001" to access the satellite provider.
  - After the "001", enter the area code and the telephone number.
  - The callback telephone numbers for these phones are 011-88-165-145-0669, 011-88-165-145-0668, 011-88-165-145-0663, and 011-88-165-145-0664.

## C. From the Central Alarm Station (CAS):

**NOTE**

CAS communications systems will only be used for notifications if the Control Room and the Technical Support Center are not available and the EOF has not assumed responsibility for Notifications.

- 1) Normal Plant phones: These phones require a "9" to dial outside. These phones are in the 585 area code. If unavailable go to option "2)".
- 2) CAS Satellite Phone:
  - This phone requires a "001" to access the satellite provider.
  - After the "001", enter the area code and the telephone number.
  - The callback telephone number for this phone is 011-88-165-145-0667.

**Attachment 2, Ginna State and Local Notifications (Continued)****NOTES**

- Initial Roll Call is considered notification start time.
- Follow up notifications are made by updating information on EP-Form-ALL25, Ginna NYS Radiological Emergency Data Form Part 1 and transmitting it to state and local agencies.

3. Initial notification to New York State, Monroe and Wayne counties shall be started within 15 minutes of declaration of an event or change of PAR.
4. Report information on completed EP-Form-ALL25, Ginna NYS Radiological Emergency Data Form Part 1.
  - A. Pick up the receiver and depress "A" then "\*" for all call. Wait 5 seconds then depress the "Push to Talk" bar on the handset and state:  
**"This is Ginna Station. Please stand by for roll call."**  
**"New York State" (wait for response)**  
**"Monroe County" (wait for response)**  
**"Wayne County" (wait for response)**
  - B. If not all agencies answer the roll call, provide the information (per step C) to parties on line, then manually call absent parties immediately afterwards using backup systems listed in section II of this attachment AND provide them with information.
    - 1) If the RECS line is Out of Service (OOS) or an agency does not respond to Roll Call, then contact the agencies using the numbers below:
      - Call Wayne County at 315-946-9711 (Wayne County Warning Point).
      - Call Monroe County at 585-528-2222 (Monroe County Warning Point).
      - Call New York State at 518-292-2200 (New York State Warning Point).
        - Backup number – 518-810-7169
  - C. Report the information by reading the statement number and the statement including the designation letter (for example, "Item three, Classification 'Alpha' Unusual Event").
  - D. Upon completion of transmitting the information, perform roll call again.
  - E. Reset the RECS system by depressing "A", then press "#", then Hang up receiver.

**Attachment 2, Ginna State and Local Notifications (Continued)**

- F. Fax all New York State Radiological Emergency Data Forms to the following locations using the pre-programmed group fax button.
  - 1) If the fax is not pre-programmed, then send the fax to each location by dialing the number:

<u>Location</u>	<u>Fax Number</u>
Wayne County	315-946-9721
Wayne County 911	315-946-5661
Monroe County	585-256-6355
Monroe County 911	585-528-2266
New York State	518-322-4982
TSC	3927
EOF/JIC	315-332-2862
OSC	3005

- G. If it is the first notification for the event, and an Emergency Preparedness representative has not been notified, then notify Emergency Preparedness (contact numbers located in Emergency Telephone Directory).
- H. Verify with the Shift Manger that plant management and the Resident NRC Inspector have been notified per OPG - Notification.

5. Supplemental Information

**NOTES**

Event 1 and Event 2 printouts should not be transmitted by the Control Room, but should be faxed by the TSC Administrative Staff when it is sufficiently staffed to do so.

- A. Plant Data (actions performed by State / Local Communicator)
  - 1) Request the EOF/JIC IT Specialist assure the Plant Process Computer System (PPCS) is operational.
    - a) If PPCS is not operational, then obtain completed EP-Form-ALL27, Ginna Plant Data Sheet, from the TSC Operations Communicator and fax (or have admin staff fax) to state and local agencies.

**Attachment 2, Ginna State and Local Notifications (Continued)**

- 2) If PPCS is operational then verify with the EOF/JIC IT Specialist that the PPCX (plant computer data) is being transmitted to New York State, Wayne County and Monroe County via computer modem.
  - a) If data is **NOT** automatically being transmitted to state and counties then obtain and fax Event 1 and Event 2 printouts and provide to State and Counties:
    - (1) From the PPCS top menu select:
      - "Emergency Plan Menu."
      - "Group Event 1."
      - "Report."
    - (2) Click "File" then "Print" or select the printer icon.
    - (3) From the PPCS top menu select:
      - "Emergency Plan Menu."
      - "Group Event 2."
      - "Report."
      - "File" then "Print" or select the printer icon.

**B. Radiological Data****NOTE**

Radiological data should be transmitted to state and local agencies as conditions change or approximately every hour. If there is adverse radiological conditions the times can be changed with agreement from offsite responders.

- 1) Request the EOF Radiological Assessment Staff complete EP-Form-ALL26, Ginna New York State Radiological Emergency Data Form (Part II).
  - a) EP-Form-ALL04, GNP Release in Progress Determination may be used to determine release status when completing part II.
- 2) The State / Local Communicator shall transmit completed forms to the State and local agencies.

**Attachment 3, NMP State and Local Notifications****NOTE**

The Part 1 Notification Fact Sheet is used to make initial notifications within 15 minutes for a change of classification or PAR **AND** for follow up (update) notifications approximately every 30 minutes.

1. The Shift Manager (control room) or the State and Local Communicator (EOF) will initiate the EP-Form-ALL31 (NMP Station Notification Fact Sheet - Part 1).
2. Review the form for accuracy.
  - A. Ensure the form is readable and no information is missing (except notification # and transmission information, such as time transmitted and name of communicator).
  - B. Verify the form does not contain any abbreviations or nuclear terminology that a non-nuclear person would find confusing.
  - C. Verify that it has been approved by the SM or ED and note the time that the initial roll call must be completed by (at bottom right of form).
3. Verify that you understand all entries.
  - A. Obtain any necessary clarification from the SM or ED.
4. **IF** not done, **THEN** provide the Notification # in the top right corner of the Part 1 Form.

**NOTE**

In a multi-unit event, the unit (including JAF) with the higher classification or indication of more significant challenges to protecting the public shall provide the information to the county and state first.

5. Notify Oswego County and New York State.
  - A. Pick up the RECS receiver, dial a\* and wait 10 seconds.
  - B. **IF** the RECS line is unavailable, **THEN** use any available phone to reach an outside line.

**NOTE**

Fixed satellite phones are available in the Control Rooms and TSC. Portable satellite phones are available in the Control Rooms, the EOF, the TSC and Oswego County EOC and E911. Instructions for satellite phone use are in the Emergency Telephone Directory.

- 1) Call Oswego County on one of the following numbers:
  - 349-1313
  - 349-8500
  - 591-9189

**Attachment 3, NMP State and Local Notifications (Continued)****5.B (Continued)**

- 2) **WHEN** the county answers, **THEN** inform them that you are Nine Mile Point making a backup RECS call and ask them to hold while you conference in the state.
  - 3) Press the "Conf" button.
  - 4) Dial New York State on one of the following numbers:
    - Primary: 1-518-292-2200
    - Backup: 1-518-810-7169
  - 5) **WHEN** the state answers, **THEN** inform them that you are Nine Mile Point making a backup RECS call and ask them to hold while you conference in the county.
  - 6) Press "connect" to bring the county back into the call.
- C. Conduct roll call, checking the appropriate box when each agency responds.
- D. Read the Entire Part 1 Form, speaking slowly and deliberately. Use the phonetic alphabet, when appropriate.
- 1) For each box that is checked "step change", state "this is a step change".
  - 2) Fill in line 1. on the form with the date, time and method of notification (RECS or other). The time should correspond to the time when both the county and state have responded to the initial roll call.
  - 3) Fill in line 12. on the form with your name and telephone number.
- E. Provide any repeats or clarifications as necessary to the county and state.
- F. Conduct the verification roll call.
- G. Complete the line indicating time out on the form.
- H. Inform the SM or ED that the county and state notifications are complete.
6. Fax the Notification Fact Sheet – Part 1 to all locations.
- A. **IF** notification is from the Control Room, **THEN** use rapid dial #10, which faxes to the following locations:
- Oswego County (315) 591-9176
  - TSC Site Ext 2111
  - JIC (315) 592-3850
  - NYS OEM (518) 322-4982
  - EOF (315) 593-5951
- B. **IF** notification is from the EOF, **THEN** use rapid dial #10, which faxes to the following locations:
- Oswego County (315) 591-9176
  - TSC Site Ext 2111
  - JIC (315) 592-3850
  - NYS OEM (518) 322-4982
  - JAFNPP Control Room
- C. Verify that all locations received the fax, resend if necessary.
7. When appropriate, the RAC will complete EP-Form-ALL32 (NMP Station Notification Fact Sheet - Part 2) with radiological data.
- A. Fax the completed Part 2 form using rapid dial #10, which faxes to the following locations:
- Oswego County (315) 591-9176
  - TSC Site Ext 2111
  - JIC (315) 592-3850
  - NYS OEM (518) 322-4982
  - JAFNPP Control Room



**Attachment 3, NMP State and Local Notifications (Continued)**

8. When appropriate, the Operations Communicator may complete the Notification Fact Sheet – Part 3 (EP-Form-ALL29, NMP Plant Data Sheet (Unit 1), EP-Form-ALL30, NMP Plant Data Sheet (Unit 2)).
  - A. Fax the completed Part 3 form using rapid dial #20, which faxes to the following locations:
    - Oswego County (315) 591-9176
    - TSC Site Ext 2111
    - NYS OEM (518) 322-4982
    - JIC (315) 592-3850

## Attachment 4, GNP Notifications Flowpath

EVENT	ACTION	TIMING
A. UNUSUAL EVENT NOTIFICATIONS	1. Activate Emergency Response Organization	1. Within 15 minutes of event declaration
	2. RECS line notification to State and Counties	2. Within 15 minutes of event declaration
	3. Fax RECS form to State and Counties	3. No time requirement
	4. Notify USNRC	4. Immediately after state/county notification, not to exceed 1 hour after event declaration
	5. Verify with Shift Manager that Ginna management and USNRC resident have been notified	5. No time requirement
	6. Notify RG&E Energy Control Center	6. No time requirement
B. ALERT OR HIGHER NOTIFICATIONS	1. Activate Emergency Response Organization	1. Within 15 minutes of event declaration
	2. RECS line notification to State and Counties	2. Within 15 minutes of event declaration
	3. If HAB event refer to D. below.	3. No time requirement
	4. Fax RECS form to State and Counties	4. No time requirement
	5. Notify NRC	5. Immediately after state/county notification, not to exceed 1 hour after event declaration
	6. Verify with Shift Manager that Ginna management and USNRC resident have been notified	6. No time requirement
	7. Notify RG&E Energy Control Center	7. No time requirement
C. WHEN ASSISTANCE IS REQUESTED	1. Notify Security	1. No time requirement
	2. Verify with Shift Manager that Ginna management and USNRC resident have been notified	2. No time requirement
D. HOSTILE ACTION NOTIFICATION	1. Activate the Incident Command Post Liaisons	1. No time requirement
	2. Shift Manager notify the NRC per ER-SEC.2 & ER-SEC.3	2. Within 15 minutes of discovery of hostile action.

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## Fleet Administrative Procedure

### CNG-EP-1.01-1025

NMP DOSE ASSESSMENT WITH URI

Revision 00100

This Procedure is EXEMPT from 10 CFR 50.59 / 10 CFR 72.48 Reviews

Tech Spec Related

INFORMATION USE

**Applicable To:**

- Calvert Cliffs Nuclear Power Plant, Units 1 and 2
- Nine Mile Point Nuclear Station, Units 1 and 2
- R.E. Ginna Nuclear Power Plant
- Corporate Offices of CENG

Procedure Owner Group: Emergency Preparedness

SUMMARY OF ALTERATIONS

<b>Revision</b>	<b>Change</b>	<b>Summary of Revision or Change</b>
001	00	URI Implementation.

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## 1.0 INTRODUCTION

### 1.1. Purpose

The purpose of this procedure is to provide methods for the Nine Mile Point Nuclear Station Emergency Response Organization to perform dose projections Using URI-Rascal dose projection software.

### 1.2. Scope/Applicability

- A. This procedure is applicable to:
- Nine Mile Point Nuclear Power Plant (NMP)

## 2.0 REFERENCES

### 2.1. Developmental References

- A. Nine Mile Point Nuclear Station Site Emergency Plan
- B. NMP Correspondence 96-MET-001 (Backup Tower Wind Speed Correction Factor)
- C. NMP Correspondence 96-MET-002 (Main Tower Wind Speed Correction Factor)
- D. NMP Correspondence 96-MET-004 (Backup Tower Wind Direction Concerns)
- E. NMP Correspondence 96-MET-003 (Discussion of DER C-95-0693)
- F. NMP Correspondence 96-MET-005 (Main Tower 30' Sigma Theta Concern)
- G. NMP Correspondence 97-MET-002 (Main Tower Wind Obstructions)
- H. OE-2009-001999, OE29213, Calvert Cliffs Alternate Actions During a Plant Emergency Potentially Creates an Unsafe Radiological Condition. Barrier Analysis concluded condition does not exist with Nine Mile EALs
- I. NUREG-0654, FEMA-REP-1, Rev 1, Supp 3, Criteria for Protective Action Recommendations for Severe Accidents

### 2.2. Performance References

- A. Procedures
1. CNG-EP-1.01-1019, Shift Emergency Operations
  2. CNG-EP-1.01-1018, EOF Operations
  3. CNG-EP-1.01-1012, NMP Offsite Monitoring Team Guidance
  4. CNG-EP-1.01-1013, Emergency Classification and PAR
  5. CNG-PR-3.01-1000, Records Management
  6. N2-CSP-LWS-M203, Monthly Liquid Release Dose Calculation
  7. N1-CSP-M204, Liquid Release Dose Calculation

- B. Position Checklists
  - 1. EP-ChLst-MCR03, Shift Dose Assessor Checklist
  - 2. EP-ChLst-EOF11, Radiological Assessment Coordinator Checklist
  - 3. EP-ChLst-EOF13, Dose Assessor Checklist
- C. Forms
  - 1. EP-Form-ALL31, NMP Station Notification Fact Sheet Part - 1
  - 2. EP-Form-ALL32, NMP Station Notification Fact Sheet Part - 2
  - 3. EP-Form-ALL38, NMP Release Rate Log
- D. Other
  - 1. NMP Unit 1 UFSAR, Section XV
    - a. Table XV-32
    - b. Table XV-28
    - c. Table XV-29
    - d. Table XV-23
    - e. Table XV-29d
    - f. Section 1.3.1
    - g. Section 2.1
    - h. Table XV-7
  - 2. NMP Unit 2 USAR, Section 15
    - a. Table 15.6-15b
    - b. Table 15.4-12
    - c. Table 15.7-11
    - d. Table 15.6-8
    - e. Table 15.7-4
    - f. Table 15.6-3
    - g. Table 15.6-19



### 3.0 DEFINITIONS

3.1. **ATWS:** Anticipated Transient Without SCRAM.

3.2. **CDE<sub>T</sub>**

Committed Dose Equivalent to the Thyroid or the dose to the thyroid that will be received from intake of radioactive material (radioactive isotopes of iodine) by an individual during the 50-year period following the intake.

This is an indicator of the probability of cancer induction and genetic damage due to low levels of radiation to the thyroid.

3.3. **Meteorological Monitoring System (MMS)**

Consists of the dedicated computer, main, backup and inland towers and software. Stores and edits site meteorological data.

3.4. **Plume Exposure Pathway**

Pathway where principal exposure source is from:

- Plume and deposited materials for whole body external gamma radiation exposure.
- Passing radioactive plume for inhalation exposure. Exposure time could range from hours to days.

3.5. **Protective Action Guidelines (PAGs)**

Radiation exposure guidelines established by the Environmental Protection Agency which are used to determine the appropriate protective actions to be taken on the part of emergency workers and the general public. These actions include sheltering and evacuation.

3.6. **Protective Action Recommendations (PARs)**

A recommendation made by NMP personnel to the offsite authorities on the appropriate protective actions to be taken on the part of the general public. The PARs are based on plant conditions or dose projections using the PAGs for guidance.

3.7. **Total Effective Dose Equivalent (TEDE)**

A method of converting exposure to radiation to the biological effects that it will cause to the human body. It combines the external and internal ionizing radiation exposure. The TEDE is the sum of Deep Dose Equivalent and Committed Effective Dose Equivalent.

3.8. **URI**

Unified RASCAL Interface.

### 4.0 RESPONSIBILITIES

4.1. The following ERO positions have responsibilities in this procedure:

- Shift Dose Assessor
- Radiological Assessment Coordinator (RAC)
- EOF Dose Assessor(s)

## 5.0 PROCESS

### 5.1. Preliminary Actions

- A. Rapid Dose Assessments can only be run to 10 miles.
- B. Detailed Dose assessments can be run to either 10 or 50 miles. Fifty mile assessments:
  - Will only display assessment results from 10 to 50 miles
  - Will only be displayed as sectors
  - Shall **not** be used for Classification purposes
  - Shall **only** be used for PAR's beyond 10 miles **and only** if 10 mile dose assessment results indicate PAG's have been exceeded beyond 10 miles.
- C. Offsite Monitoring Team analysis **shall not** be used for determining Classifications or PARs **unless** both measured exposure rate **and** iodine concentration at location are considered in assessment
- D. Detailed Dose Assessment tab contains reports and operations that can be useful when running or evaluating dose assessment data. These functions may not be explicitly called in procedure but are described in Attachment 2, Air Sample and Thyroid Dose Calculations and Attachment 3, Miscellaneous Calculations.
- E. **If** information to perform a dose assessment cannot be obtained from plant computer system, **then** Attachment 7, Detailed Dose Assessment Data Entry Form, may be used to gather and record needed information.
- F. Reports are automatically sent to the default printer. To change, **SELECT** Start | Settings | Printers and Faxes and **SELECT** appropriate printer.
- G. Multiple sets of dose assessments are printed by default. To change, **SELECT** File | Printer | Number of Copies from Detailed Assessment menu, then **ENTER** number of copies desired. Program reverts to default when closed.
- H. A round red exclamation point next to a URI data entry field means that field is required to perform additional calculations.
- I. **If** "Process Assessment" button on Detailed Assessment form is not visible but user wishes to recalculate dose assessment, **then PRESS** "Force Recalculation" button on main toolbar.
- J. **OBTAIN** meteorological data using Attachment 1, Meteorological Data Acquisition every 15 minutes **AND** provide to ED as requested.
- K. Track radiological releases using EP-Form-ALL38, NMP Release Rate Log.

#### NOTE

SPDS displays "FAILED" when Unit 2 WRGMS detects above  $1.0E+07$   $\mu\text{Ci}/\text{sec}$ . The maximum range of  $1E+13$   $\mu\text{Ci}/\text{sec}$  is available at control room panel 2CEC\*PNL880.

- L. **If** conditions in Attachment 8, Monitor Reading Action Levels are met or trending toward being met, **then INFORM** ED to review EALs for classification or upgrade.

- M. Advise Offsite Monitoring Team (OMT) Coordinator of potential lake or land breeze effects as per Attachment 11, Lake and Land Breeze Flowchart.
1. **If** a radiological release is in progress **and** plume centerline/peak readings are  $>15^\circ$  from centerline measured at  $\geq 2$  miles, **then** have OMTs assess land azimuths at a distance of about two miles or greater. Lakeview Rd./Miner Rd./Nine Mile Point Rd. may be used for this assessment
  2. **If** peak plume readings are found in areas other than downwind ( $> 15^\circ$  from centerline) **then CONSIDER** applying any evacuation protective action recommendations to all land ERPAs in the five mile radius.
- N. **If** a release exceeds ODCM limits, **then COMPLETE** EP-Form-ALL32, NMP Station Notification Fact Sheet Part - 2.
- O. **If** unmonitored release is suspected or known to be in progress, **then:**
1. **OBTAIN** radiation survey at potential plume centerline as close to site boundary as practical. See Attachment 5, Site Boundary Map for location.
    - **If** readings indicate  $> 1$  rem/hr based on field survey **then ADVISE** SM/ED conditions for a General Emergency have been met.
    - **If** readings indicate greater than 0.057 mrem/hr based on field survey **then NOTIFY** SM/ED that a release above ODCM limits exists.

### 5.2. Unified Rascal Interface (URI) Start Up

- A. **START** URI application for affected unit(s).
1. **If** program fails to start or an error is received, **then USE** another computer that has program loaded.
- B. **If** dose assessments are being run during a drill or exercise, **then CHECK** 'Print "This is a Drill" on all reports' option.
- C. **SELECT** appropriate assessment method:
1. Section 5.3 Rapid Dose Assessment **if** performing from Control Room
  2. Section 5.4 Detailed Dose Assessment **if** performing from the EOF
  3. Section 5.5 Multi-Unit / Multi-Pathway Dose Assessment **if** more than one release pathway exists.

### 5.3. Rapid Dose Assessment

#### NOTE

A round red exclamation point next to a URI data entry field means the field requires additional information to continue calculations.

- A. **If** dose assessments are **not** being performed in Control Room:
1. **CONTACT** control room and **COMPLETE** Section 1 of Attachment 6, Rapid Dose Assessment Data Entry Form.
  2. **If** plant data computer system is not available, **then COMPLETE** Meteorological Information section of Attachment 7, Detailed Dose Assessment Data Entry Form.

- B. Select the Rapid tab.
- C. **DETERMINE** Source Term and Shutdown times as follows:
1. **If** Source Term is from Reactor Core or Reactor Coolant System, **then**
    - a. **If** Fuel Clad barrier is declared a Loss or Potential Loss per Emergency Action Levels **then**:
      - (1) **SELECT** Fuel Clad Damage as Yes
    - b. **If** Fuel Clad barrier remains intact per Emergency Action Levels **then**:
      - (1) **SELECT** Fuel Clad Damage as No
      - (2) **If** Reactor Power Level has changed by  $\geq 15\%$  / hour since start of event, **then SELECT** Conditions for Coolant Spiking as Yes otherwise **SELECT** Conditions for Coolant Spiking as No
    - c. **DETERMINE** Reactor Shutdown status as follows:
      - (1) For Non-ATWS events; **If** reactor is **not** shutdown **then ENSURE** Reactor Shutdown checkbox is unchecked otherwise:
        - **CHECK** Reactor Shutdown checkbox
        - **ENTER** Date and Time reactor was shut down.
      - (2) For ATWS events; **If** power is  $>6\%$  (Unit 1) or  $>4\%$  (Unit 2) **then ENSURE** Reactor Shutdown checkbox is unchecked otherwise:
        - **CHECK** Reactor Shutdown checkbox
        - **ENTER** Date and Time power reduced below 6% (Unit 1) or 4% (Unit 2).
  2. **If** Source Term is from a Damaged Spent Fuel assembly, **then**
    - a. **SELECT** Damaged Spent Fuel Assembly
    - b. **CHECK** Last Irradiated checkbox
    - c. **If** date fuel assembly was last in reactor when it was critical is known, **then ENTER** date and time in the Last Irradiated textbox.
    - d. **If** date fuel assembly was last in critical reactor is unknown, **then**
      - (1) **If** affected unit is currently in a Refueling Outage, **then ENTER** approximate Date and Time when reactor was shut down for refueling in Last Irradiated textbox.
      - (2) **If** affected unit is not currently in a Refueling Outage, **then ENTER** approximate Date and Time when last refueling outage occurred in Last Irradiated textbox.

D. **ENTER** meteorological data as follows:

**NOTE**

Only one on-site MET tower may be selected at a time. Any number of off-site towers may be selected.

1. **SELECT** meteorological tower best representing release height by checking checkbox in "Use" column of Meteorological Data table.
2. **OBTAIN** MET data per Attachment 1, Meteorological Data Acquisition **THEN**;
  - a. **ENTER** Wind Speed in appropriate units
  - b. **ENTER** Wind Direction wind is coming **FROM**.
  - c. **ENTER**  $\Delta T$  or Stability Class directly.
3. **SELECT** precipitation status best representing current precipitation. **If** precipitation is unknown **then SELECT** "None" from dropdown list:
  - None – No rain or snow.
  - Light Rain – Drizzle, < 0.1 inches / hour.
  - Moderate Rain – Heavy Drizzle, 0.1 to 0.3 inches / hour.
  - Heavy Rain – > 0.3 inches / hour.
  - Light Snow – Visibility > 0.63 miles.
  - Moderate Snow – Visibility 0.31 to 0.63 miles.
  - Heavy Snow – Visibility < 0.31 miles.

E. **DETERMINE** Release Duration by either of the following methods:

**NOTE**

Release durations will automatically be adjusted to a 15-minute increment

1. **ENTER** estimated Release Duration.
- OR**
2. **If** release duration is unknown **then ENTER** default of 4 hours

**NOTE**

- Additional detail for pathway, including available effluent monitors, is available by hovering mouse over pathway description.
- Effluent monitors may not be available even if associated with a release pathway due to plant conditions, such as loss of power, loss of sample flow, or detector failure.

F. **SELECT** Release Point Pathway that best represents release in progress.

- 
- G. **DETERMINE** if any effluent monitors are available.
1. **If** effluent monitors are available, **then SELECT** Yes. (Preferred)
    - a. **If** multiple monitors or multiple lists of monitors are present **then SELECT** appropriate monitor from each list.
    - b. **ENTER** monitor reading for each selected monitor.
    - c. **ENTER** flow rate if required in indicated units.
  2. **If** effluent monitors are **not** available **then SELECT** No.
    - a. **SELECT** the option most applicable to conditions:
      - (1) **If** Estimated RCS Leak Rate option is enabled, **then**
        - (a) **ENTER** Reactor Coolant System leak rate in gpm  
**OR**
        - (b) **SELECT** "I Don't Know". Default leak rate will be used.
      - (2) **If** Containment Leakage option is enabled, **then**
        - (a) **ENTER** High Range Area monitor reading  
**OR**
        - (b) **SELECT** "No HRA Available or Applicable" option.  
Calculated damage assumptions will be used.
      - (3) **If** Unmonitored Damaged Spent Fuel Assembly option is enabled,  
**then SELECT** option.
- H. **If** all errors are resolved, **then PRESS** "Process Assessment" button.
- I. **SELECT** Print or Print Preview from Menu / Toolbar to view or print assessment results.
- J. **DOUBLE-CLICK** PAR map to view assessment results table.
- K. **GO TO** Step 5.6 Dose Assessment Evaluation

## 5.4. Detailed Dose Assessment

**NOTE**

A round red exclamation point next to a URI data entry field means the field requires additional information to continue calculations.

- A. **SELECT** the "Detailed" Tab
- B. Source Term Basis Determination
1. **CONTACT** technical support to **DETERMINE** Source Term Basis for assessment based on core conditions and/or type of accident that has occurred.
  2. **If** source term is from Reactor Coolant System (RCS) **without** core damage **then**
    - a. **SELECT** Normal Coolant
      - (1) **If** any of the following have occurred:
        - Power has changed by  $\geq 15\%$  / hour since event start.
        - A rapid depressurization of the RCS has occurred.**then CHECK** Spiking checkbox.
      - b. **If** Spiking was selected **then DETERMINE** Spiking Factor.
        - (1) **If** a post power change RCS Dose Equivalent Iodine (DEI) sample result is available **then CALCULATE** Spiking Factor as follows:
          - (a) **SELECT** Calculations | Spiking Factors from main menu and **then ENTER** DEI concentration.
          - or**
          - PERFORM** the following calculation:
 
$$BWR \text{ Spiking Factor} = \frac{DEI \mu Ci / gm}{5.55E - 03 \mu Ci / gm}$$
          - (b) **If** calculated Spiking Factor is  $\geq 1$  and  $\leq 1000$  **then ENTER** calculated value
          - (c) **If** calculated Spiking Factor is  $> 1000$  **then ENTER** 1000.
        - (2) **If** a post power change RCS sample is **not** available **then ENTER** a default Spiking Factor of 30
  3. **If** source term is from RCS **with** core damage **then**
    - a. **SELECT** Reactor Core Accident.
    - b. **SELECT** Type of Damage as determined by technical support. **If** information is not available **then SELECT** Clad.

## 5.4 (Continued)

4. **If source term is from spent fuel damage then SELECT Spent Fuel Accident.**
  - a. **If Spent Fuel release cannot be monitored or no data is available, then CHECK "Un-Monitored Spent Fuel Accident with No other method applicable" checkbox.**
  - b. **If Spent Fuel release can be monitored or other release data is available, then ENSURE the "Un-Monitored Spent Fuel Accident with No other method applicable" checkbox is unchecked.**
  - c. **If date fuel assembly was last in reactor is known then ENTER date in Reactor Status, Last Irradiated textbox.**
  - d. **If date fuel assembly was last in reactor cannot be determined then**
    - (1) **If affected unit is currently in a Refueling Outage, then SELECT "New" and ENTER approximate Date and Time when reactor was shut down for refueling in Reactor Status, Last Irradiated textbox.**
    - (2) **If affected unit is not currently in a Refueling Outage, then SELECT "Old" and ENTER approximate Date and Time of last refueling outage in Reactor Status, Last Irradiated textbox.**

## C. Meteorological Data Determination

**NOTE**

Only one on-site MET tower may be selected at a time. Any number of off-site towers may be selected.

1. Enter Site Tower data as follows:
  - a. **SELECT** meteorological tower best representing release height by checking checkbox in "Use" column of Meteorological Data table.
  - b. **OBTAIN** MET data per Attachment 1, Meteorological Data Acquisition **THEN;**
    - (1) **ENTER** Wind Speed in appropriate units.
    - (2) **ENTER** Wind Direction wind is coming from.
    - (3) **ENTER**  $\Delta T$  or Stability Class directly.



## 5.4.C.1 (Continued)

- c. **SELECT** precipitation status best representing current precipitation. **If** precipitation is unknown **then SELECT** "None" from dropdown list.
- None – No rain or snow.
  - Light Rain – Drizzle, < 0.1 inches / hour.
  - Moderate Rain – Heavy Drizzle, 0.1 to 0.3 inches / hour.
  - Heavy Rain – > 0.3 inches / hour.
  - Light Snow – Visibility > 0.63 miles.
  - Moderate Snow – Visibility 0.31 to 0.63 miles.
  - Heavy Snow – Visibility < 0.31 miles.
- D. Reactor Status Determination
1. **If** Source Term is Normal Coolant or Reactor Core Accident **then**
- a. For Non-ATWS events; **IF** reactor is **NOT** shutdown **THEN ENSURE** Reactor Shutdown checkbox is unchecked **OTHERWISE:**
- **CHECK** Reactor Shutdown checkbox
  - **ENTER** Date and Time reactor was shut down.
- b. For ATWS events; **If** power is >6% (Unit 1) or >4% (Unit 2) **then ENSURE** Reactor Shutdown checkbox is unchecked **OTHERWISE:**
- **CHECK** Reactor Shutdown checkbox
  - **ENTER** Date and Time power reduced below 6% (Unit 1) or 4% (Unit 2).
2. **If** Source Term is a Spent Fuel Accident **then** associated decay time was set when source term was selected.
- E. Release Duration Determination

**NOTE**

Release durations will automatically be adjusted to a 15-minute increment

1. **ENTER** estimated Release Duration.
- OR**
- If** release duration is unknown **then ENTER** a default of 4 hours

## F. Pathway Determination

**NOTE**

- Additional detail for pathway, including available effluent monitors, is available by hovering mouse over pathway description.
- Effluent monitors may not be available even if associated with a release pathway due to plant conditions, such as loss of power, loss of sample flow, or detector failure.

1. **SELECT** the pathway **best** representing the release in progress by clicking the yellow ellipsis "..." or double-clicking the pathway description.
2. **DETERMINE** correct process reduction settings by referring to Attachment 4, Process Reduction Factor Determination.

## G. Assessment Methodology Determination

- Monitored Release – Uses installed effluent monitors. **Go to** Step 5.4.H
- Containment Leakage – Uses coolant or core conditions including percent core damage or containment high radiation monitor readings and a gaseous leak rate. **Go to** step 5.4.I
- RCS Leakage – Uses Reactor Coolant System liquid leak rate. **Go to** step 5.4.J
- Release Point Sample – Uses effluent sample results in uCi/cc. **Go to** step 5.4.K
- Field Team – Back calculates based on Offsite Monitoring Team survey and sample results. **Go to** step 5.4.L
- Unmonitored Spent Fuel – Used only if other assessment methods are not available for Spent Fuel Accident Source Terms. **Go to** step 5.4.M.

## H. Monitored Release

1. **SELECT** effluent monitor for each enabled Release Point.
2. **ENTER** monitor reading for selected monitor(s).
3. **If** Release Point Flow Rate is requested **then ENTER** in requested units.
4. **If** all errors have been resolved, **then PRESS** Process Assessment To "10 Miles" or "50 Miles" button to run dose assessment.
5. **Go To** step 5.4.N

## I. Containment Leakage

1. **SELECT** appropriate Method from any enabled options.
  - a. **If** % Fuel Damage is selected **then ENTER** percent damage that corresponds to Source Term, Type of Damage (Clad or Melt). If a Clad and Melt value are provided, either run individual assessments using each value or request clarification relative to which is more representative of actual conditions.

## 5.4.I.1 (Continued)

**NOTE**

For this input, use Containment HRA's not Drywell HRA's.

- b. **If** Containment Radiation Monitor is selected **then ENTER** corresponding high range radiation monitor reading.
  2. **DETERMINE** appropriate **gaseous** volume Release Mode from enabled options as follows
    - a. **SELECT** "Leakage" when using default percent primary containment leakage or a percent leakage determined through calculation. **ENTER** leak rate as a percent. To determine preset default leakage, hover mouse over textbox.
    - b. **If** the primary containment has:
      - At least a 1-ft<sup>2</sup> hole providing a direct release path to environment**OR**
      - Release pathway is through a hardened vent,**then SELECT** "Catastrophic Failure".
    - c. **If** primary containment gaseous volume is leaking due to isolation failures, such as open valves or failed penetrations that do not meet the requirement of a Catastrophic Failure, **then SELECT** "Failure to Isolate".
    - d. **SELECT** "Calc'd Cont. Leak Rate" when using a calculated leak rate and **ENTER** leak rate in cfm.
  3. **If** all errors have been resolved, **PRESS** Process Assessment To "10 Miles" or "50 Miles" button to run dose assessment.
  4. **Go To** step 5.4.N
- J. RCS Leakage
1. **SELECT** appropriate Method from any enabled options.
    - a. **If** % Fuel Damage is selected **then ENTER** percent damage that corresponds to Source Term, Type of Damage (Clad or Melt)
  2. **DETERMINE** appropriate **liquid** Release Mode from enabled options as follows.
    - a. **If** leak rate is unknown **then SELECT** "Unknown Leak Rate".
    - b. **If** leak rate is known, **SELECT** "Calculated RCS Leak Rate" and **ENTER** coolant leak rate in gpm
  3. **If** all errors have been resolved, **then PRESS** Process Assessment To "10 Miles" or "50 Miles" button to run dose assessment
  4. **Go To** step 5.4.N

## K. Release Point Sample

**NOTE**

Sample must include Particulate, Iodine and Noble Gas. If a class of isotope is left blank, then assessment is incomplete. Entering zero is acceptable.

1. **ENTER** release point flow rate in cfm.
2. **ENTER** release concentrations in uCi/cc for each corresponding isotope.
3. **If all errors have been resolved, then PRESS** Process Assessment To "10 Miles" or "50 Miles" button to run dose assessment.
4. **Go To** step 5.4.N

## L. Field Team

**WARNING**

- Field Team Analysis **SHALL NOT** be used to determine classifications or PARs **UNLESS** both measured exposure rate **AND** iodine concentration are used.
- The mathematical model and assumptions used in this methodology could generate significant error in assessment results depending on the type of field data inputted.

1. **ENTER** downwind distance in miles sample was taken. URI assumes sample was taken at or close to plume centerline.
2. **ENTER** 3' closed window exposure rate in mR/hr.
3. **ENTER** Field Team air sample results as follows:
  - a. **If** field team air sample **is** available, **then**
    - (1) **GO** to Attachment 2, Air Sample and Thyroid Dose Calculations to calculate field team sample result.
    - (2) **If** concentration is < calculated Lower Limit of Detection (LLD), **then ENTER** 0, **otherwise ENTER** I-131 concentration in  $\mu\text{Ci/cc}$ .
  - b. **If** field team air sample result **is not** available, **then BLANK** I-131 concentration value. Do **not** enter 0.
4. **ENTER** time field team survey data was taken
5. **If all errors are resolved, then PRESS** Process Assessment To "10 Miles".
6. **Go To** step 5.4.N

## M. Un-Monitored Spent Fuel

1. No additional inputs are required when using this methodology. **If all errors are resolved, then PRESS** Process Assessment To "10 Miles" or "50 Miles" button to run dose assessment.
2. **Go To** step 5.4.N

## N. Dose Assessment Results

1. To print or preview dose assessment results, **SELECT** one of the options from the toolbar on assessment method tab.
  - a. Dose Assessment Report - This report contains assessment results and release information. It may be:
    - Previewed from print preview toolbar button
    - Printed to default printer from print toolbar button
    - Printed to a Microsoft XPS document file from the print toolbar button. The file can be attached to e-mail or WebEOC forms for distribution and viewed via Microsoft's Internet Explorer.
  - b. Receptor Point Report – Contains calculated values for predetermined receptor points. It may be:
    - Previewed from print preview toolbar button
    - Printed to default printer from print toolbar button
    - Printed to a Microsoft XPS document file from print toolbar button. File can be attached to e-mail for distribution and viewed via Microsoft's Internet Explorer.
  - c. Evacuation Area Graphic – Provides a graphic of the sectors / areas that exceed General Emergency Protective Action Guideline values for this dose assessment only. Also printed on dose assessment report.
2. Results may be viewed or printed on a map. From the Detailed Assessment main menu or toolbar, **SELECT** View | View Receptor Point Locations.
  - a. **SELECT** 2, 5, 10 or 50 mile map to view.
  - b. **SELECT** footprint results for either TEDE Dose or CDE Thyroid Dose
  - c. **SELECT** a map Zoom Level.
  - d. **SELECT** Display Options
    - RASCAL Sector Results – Draws the 36 NRC sectors on the map which represents the close in doses to ~ 2.25 miles. RASCAL sectors are 10° each, split into 8 distance segments. Sector 1 starts at 5° and arcs in a clockwise direction.
    - RASCAL Puff Results – Draws the 41 x 41 grids on the map which represents the doses beyond 2.25 miles for a 10 mile calculation or all distances for a 50 mile calculation. Column 1 is on the left with row 1 on the bottom.
    - Sectors – Displays the classic 16, 22.5° sectors.
    - Mile Circles – Displays the 2, 5 and 10 mile distances for a 10 mile calculation or 10, 25 and 50 mile distances for a 50 mile calculation.

## 5.4.N.2.d (Continued)

- Receptor Points – Displays preset points of interest. Additional information can be obtained by double clicking each point as needed.
  - Show Balloon – Displays an information balloon when mouse is dragged across map.
  - e. **SELECT** Print Current View to print the contents of the map displayed in the window to default printer.
  - f. **SELECT** Print View to XPS to print contents of the map window to a Microsoft XPS document file. The file can be attached to e-mail for distribution and viewed via Microsoft's Internet Explorer.
3. Results may be exported to a Google Earth file. **SELECT** Export | Google Earth from main menu to export plume graphic to a Google Earth file.
- O. Go To Step 5.6 Dose Assessment Evaluation

## 5.5. Multi-Unit / Multi-Pathway Dose Assessment

**NOTE**

- This is a summing function, not a dose integration tool. No more than 1 dose assessment from any one release point should be used at a time.
- Dose assessments should be from same concurrent time frame. A good rule of thumb would be assessments performed within 15 to 30 minute time frame
- Summation dose assessment results may be from various pathways using different methodologies, source terms and metrological data. Care must be taken so that the same release is not accounted for more than once.
- Dose assessment results files from multiple computers can be summed provided they are from the same dose assessment program.
- Results file name is on first page of dose assessment report with a URI7 file extension.
- Results from all 3 sites may be summed using this procedure.

- A. **PERFORM** Step 5.3 Rapid Dose Assessment OR Step 5.4 Detailed Dose Assessment as appropriate for each release pathway. **RETURN** to this step when assessments are complete.
- B. **SELECT** "Simultaneous Release Summations" from Calculations menu.
- C. **DETERMINE** results files to be added by reviewing individual dose assessments.

- 
- D. **ADD** results files one of the following:
1. Send results directly from dose assessment to summation form:
    - a. **VERIFY** Summation Form is open.
    - b. **PRESS +** button on Rapid Assessment form toolbar and follow prompts.
  2. Browse to results file:
    - a. From Table on form, **SELECT** Browse button for any row.
    - b. Browse to file of interest and **DOUBLE CLICK** file **OR PRESS** Open button on browser window.
    - c. File data will be loaded into program
  3. Drag and Drop results file:
    - a. **SELECT** File | Open Default File Folder from menu.
    - b. **BROWSE** to folder containing results file of interest.
    - c. **DRAG** results files from browser window and **DROP** on summation form table. Dropping on a row containing data replaces existing data.
- E. **CHECK** or **UNCHECK** "Include" checkbox to change results included in calculation.
- **PRESS** Clear button to remove file results from table.
  - **PRESS** View button to view contents of results file.
- F. **If** no unresolved errors exist, **then** results are automatically calculated and displayed.
- G. **SELECT** print or preview options from toolbar. The following reports are available.
1. Dose Assessment Summation Report - Report contains assessment results. It may be:
    - Previewed from print preview toolbar button
    - Printed to default printer from print toolbar button
    - Printed to a Microsoft XPS document file from the print toolbar button. File can be distributed for viewing with Microsoft's Internet Explorer.
  2. View Receptor Point Map - **SELECT** View | View Receptor Point Map on menu or icon on toolbar.
    - a. **SELECT** 2, 5, or 10 mile map to view.
    - b. **SELECT** footprint results for either TEDE Dose or CDE Thyroid Dose
    - c. **SELECT** a map Zoom Level.

5.5.G.2 (Continued)

- d. **SELECT** Display Options
    - RASCAL Sector Results – Draws the 36 NRC sectors on map which represents close in doses to ~ 2.25 miles. RASCAL sectors are 10° each, split into 8 distance segments. Sector 1 starts at 5° and arcs in a clockwise direction.
    - RASCAL Puff Results – Draws the 41 x 41 grids on the map which represents the doses beyond 2.25 miles for a 10 mile calculation. Column 1 is on the left with row 1 on the bottom.
    - Sectors – Displays classic 16, 22.5° sectors.
    - Mile Circles – Displays 2, 5 and 10 mile distances for 10 mile calculation.
    - Receptor Points – Display preset points of interest. Additional information is obtained by double clicking each point.
    - Show Balloon – Display information balloon when mouse is dragged across map.
  - e. **SELECT** Print Current View to print displayed map to default printer.
  - f. **SELECT** Print View to XPS to print contents of map displayed in window to Microsoft XPS document file. File can be distributed for viewing with Microsoft's Internet Explorer.
3. Google Earth - **SELECT** Export | Google Earth from main menu to export plume graphic to Google Earth file.

H. Go To Step 5.6 Dose Assessment Evaluation

**5.6. Dose Assessment Evaluation**

A. Control Room

- 1. **REVIEW** assessment report for classifications or upgrades.
- 2. **If** Table 2 - EPA 400 Protective Action Guidelines (EPA PAGs) values are projected to be exceeded by dose assessment or OMT survey in any ERPA not already included in a PAR, **then** immediately **INFORM** ED.

**Table 1 - EPA 400 Protective Action Guidelines (EPA PAGs)**

PAR	TEDE (rem)	CDE <sub>T</sub> (rem)
Evacuate	> 1	> 5
Shelter in place	Shelter if evacuation is not practical due to impediments	

- 3. **PROVIDE** dose projection to Emergency Director for comparison to Emergency Action Levels and current Protective Action Recommendation(s).



B. EOF

1. **REVIEW** assessment report for classifications or upgrades.
2. **If** Table 2 - EPA 400 Protective Action Guidelines (EPA PAGs) values are projected to be exceeded by dose assessment or OMT survey in any ERPA not already included in a PAR, **then IMMEDIATELY** inform ED.

**Table 2 - EPA 400 Protective Action Guidelines (EPA PAGs)**

PAR	TEDE (rem)	CDE <sub>T</sub> (rem)
Evacuate	> 1	> 5
Shelter in place	Shelter if evacuation is not practical due to impediments	

3. **DISCUSS** limitations on use of Field Team, and 50 Mile dose assessments for Classifications and PARs with Radiological Assessment Coordinator (RAC).
4. **PROVIDE** dose projection to RAC for comparison with Emergency Action Levels and current Protective Action Recommendation.
5. **If** PAGs will be exceeded beyond 10 miles, **then** immediately **NOTIFY** ED and Oswego County.

6.0 BASES

[None

7.0 RECORDS

- 7.1. The following records when generated by this procedure during actual declared events shall be maintained by Records Management for the Permanent Plant File in accordance with CNG-PR-3.01-1000, Records Management:
  1. EP-Form-ALL31, NMP Station Notification Fact Sheet Part - 1
  2. EP-Form-ALL32, NMP Station Notification Fact Sheet Part - 2
  3. EP-Form-ALL38, NMP Release Rate Log
  4. Attachment 6, Rapid Dose Assessment Data Entry Form
  5. Attachment 7, Detailed Dose Assessment Data Entry Form
  6. Attachment 8, Monitor Reading Action Levels
  7. URI output reports
- 7.2. The above records when generated by this procedure during drills or exercises are provided to the Emergency Preparedness Department and maintained as necessary to document required drill / exercise data.

**Attachment 1, Meteorological Data Acquisition****1.0 OBTAINING METEOROLOGICAL DATA**

1.1. If the meteorological (MET) data is unavailable from plant computer systems **then OBTAIN** the following data from another source:

- Wind Speed: **ENSURE** supplied speeds are in units used by selected MET tower.
- Wind Direction FROM: If wind directions are supplied as compass points (N, NNE, NE, etc.) **then CONVERT** by double clicking cell in table and selecting direction.
- Stability Class or Delta T: **ENSURE** supplied Delta T values are in same units as those required in Tables 2-1 or 2-2.

1.2. **OBTAIN** MET data about every 15 minutes using below priority:

- A. Emergency Information System (EIS) (Step 2.0 of this attachment)
- B. Strip chart recorder (Step 3.0 of this attachment)
- C. National Weather Service (Step 4.0 of this attachment)
- D. Broadcast data such as alert radio systems, broadcast radio or television stations. See Table (Step 5.0 of this attachment)
- E. Direct Observation Estimate at the site. (Section 6.0 of this attachment)

**NOTE**

Attachment 9, Meteorological Data Worksheet may be used to record data obtained per this Attachment.

**2.0 EMERGENCY INFORMATION SYSTEM (EIS)**

2.1. **USING** any web browser with internet access, Go To: <http://nmpep.constellation.com>.

2.2. **ENTER** your business login ID and Password.

2.3. **SELECT** the type of event

- Actual/Live Event
- Drill/Exercise

2.4. **SELECT** "Current Data" from the MET Data category.

2.5. Emergency Meteorology Report will be displayed and automatically updates every 15 minutes.

Attachment 1, Meteorological Data Acquisition

3.0 STRIP CHART RECORDERS

**CAUTION**

**DO NOT** use LED readouts associated with strip chart recorders.

- 3.1. **USE** hierarchy per Table 1-1 - Meteorological Data Hierarchy to obtain required MET data.
- 3.2. **ESTIMATE** readings over the previous 15 minutes.
- 3.3. **Compare**  $\sigma\theta$  values to Table 1-4 - Stability Classification Chart to select stability class.
- 3.4. **If** using 30', 100', or 200'  $\sigma\theta$  stability from Main Tower and wind is from a direction listed in Table 1-2 - Main MET Tower Sigma Theta Substitution, **then SUBSTITUTE** next stability source.
- 3.5. **ADJUST** JAF Backup  $\sigma\theta$  stability readings per Table 1-3 - JAF Backup MET Tower Adjustments.
- 3.6. **If**  $\Delta T$  and  $\sigma\theta$  are not available, **then OBSERVE** wind direction trace (200' for elevated data or 30' for ground data or substitute per Table 3.1) over last 15-minutes.
  - A. **ESTIMATE**  $\sigma\theta$  by dividing deviation of wind direction trace (over last 15 minutes) by six.
  - B. **COMPARE** estimated  $\sigma\theta$  value to Table 1-4 - Stability Classification Chart (column 4) and select appropriate stability class (column 2).
  - C. **SEE** Figure 1 and Figure 2 for sample strip chart traces.

Table 1-1 - Meteorological Data Hierarchy

Parameter	Hierarchy	Elevated Release	Ground Release
<b>Wind Speed &amp; Direction</b>	Primary	200' Main	30' Main
	Substitute	100' Main	
		JAF Backup	
		30' Main	200' Main
<b>Stability</b>	Primary	200' $\Delta T$	100' $\Delta T$
	Substitute	100' $\Delta T$	200' $\Delta T$
		200' $\sigma\theta^{(1)}$	30' $\sigma\theta^{(1)}$
		100' $\sigma\theta^{(1)}$	
		JAF Backup $\sigma\theta$	
		30' $\sigma\theta^{(1)}$	200' $\sigma\theta^{(1)}$

<sup>(1)</sup> If using 30', 100' or 200'  $\sigma\theta$  stability, AND wind is from a direction listed in Table 1-1 - Meteorological Data Hierarchy, then substitute next source of data.

Attachment 1, Meteorological Data Acquisition (Continued)

Table 1-2 - Main MET Tower Sigma Theta Substitution

Main Tower $\sigma_\theta$ Stability	Wind Direction
200'	030° to 096°
100'	030° to 077°
30'	035° to 076°

Table 1-3 - JAF Backup MET Tower Adjustments

JAF Backup Tower Wind Direction	JAF Backup $\sigma_\theta$ Stability Adjustment
232° to 246° or 270° to 281°	Add one stability class: A→B, B→C, C→D, D→E, E→F, F/G→G
247° to 269°	Add two stability classes: A→C, B→D, C→E, D→F, E, F/G→G

Table 1-4 - Stability Classification Chart

1	2	3	4	5
Stability Classification	Stability Class	Temp Change with Height, °F/72ft <sup>(1)</sup> (100 ft. ΔT)	$\sigma_\theta$ Degrees Range of Values <sup>(2)</sup>	Temp Change with Height, °F/168ft <sup>(3)</sup> (200 ft. ΔT)
Extremely Unstable	A	$\Delta T/\Delta Z \leq -0.75$	$22.5 \leq \sigma_\theta$	$\Delta T/\Delta Z \leq -1.75$
Moderately Unstable	B	$-0.75 < \Delta T/\Delta Z \leq -0.67$	$17.5 \leq \sigma_\theta < 22.5$	$-1.75 < \Delta T/\Delta Z \leq -1.57$
Slightly Unstable	C	$-0.67 < \Delta T/\Delta Z \leq -0.59$	$12.5 \leq \sigma_\theta < 17.5$	$-1.57 < \Delta T/\Delta Z \leq -1.38$
Neutral	D	$-0.59 < \Delta T/\Delta Z \leq -0.20$	$7.5 \leq \sigma_\theta < 12.5$	$-1.38 < \Delta T/\Delta Z \leq -0.46$
Slightly Stable	E	$-0.20 < \Delta T/\Delta Z \leq 0.59$	$3.8 \leq \sigma_\theta < 7.5$	$-0.46 < \Delta T/\Delta Z \leq 1.38$
Moderately Stable	F	$0.59 < \Delta T/\Delta Z \leq 1.58$	$2.1 \leq \sigma_\theta < 3.8$	$1.38 < \Delta T/\Delta Z \leq 3.69$
Extremely Stable	G	$1.58 < \Delta T/\Delta Z$	$\sigma_\theta < 2.1$	$3.69 < \Delta T/\Delta Z$

<sup>(1)</sup> Adjusted to correspond to the ΔT between the 30-foot and 100-foot levels on the main tower.

<sup>(2)</sup> Note on symbol convention"  $3.8 \leq \sigma_\theta < 7.5$ " means that  $\sigma_\theta$  is greater than or equal to 3.8 degrees but less than 7.5 degrees.

<sup>(3)</sup> Adjusted to correspond to ΔT measured between 30-foot and 200-foot levels on main tower.

**Attachment 1, Meteorological Data Acquisition (Continued)**

**4.0 NATIONAL WEATHER SERVICE**

**CAUTION**

Data obtained by the following methods may not be site-representative and may introduce errors into dose assessments.

4.1. **USE** any available computer with internet capability to access the NWS website OR telephone at 800-462-7751 or 716-565-9001.

4.2. **REQUEST** current wind speed, direction, stability class, and temperature.

4.3. **SEE** Table 1-5 - Stability Class Determination using Observations for determination of Stability Class.

**5.0 BROADCAST DATA**

5.1. **OBTAIN** Wind Speed and Wind Direction at the site from any available source. See Table 1-5 for determination of Stability Class.

**6.0 DIRECT OBSERVATION AT THE SITE**

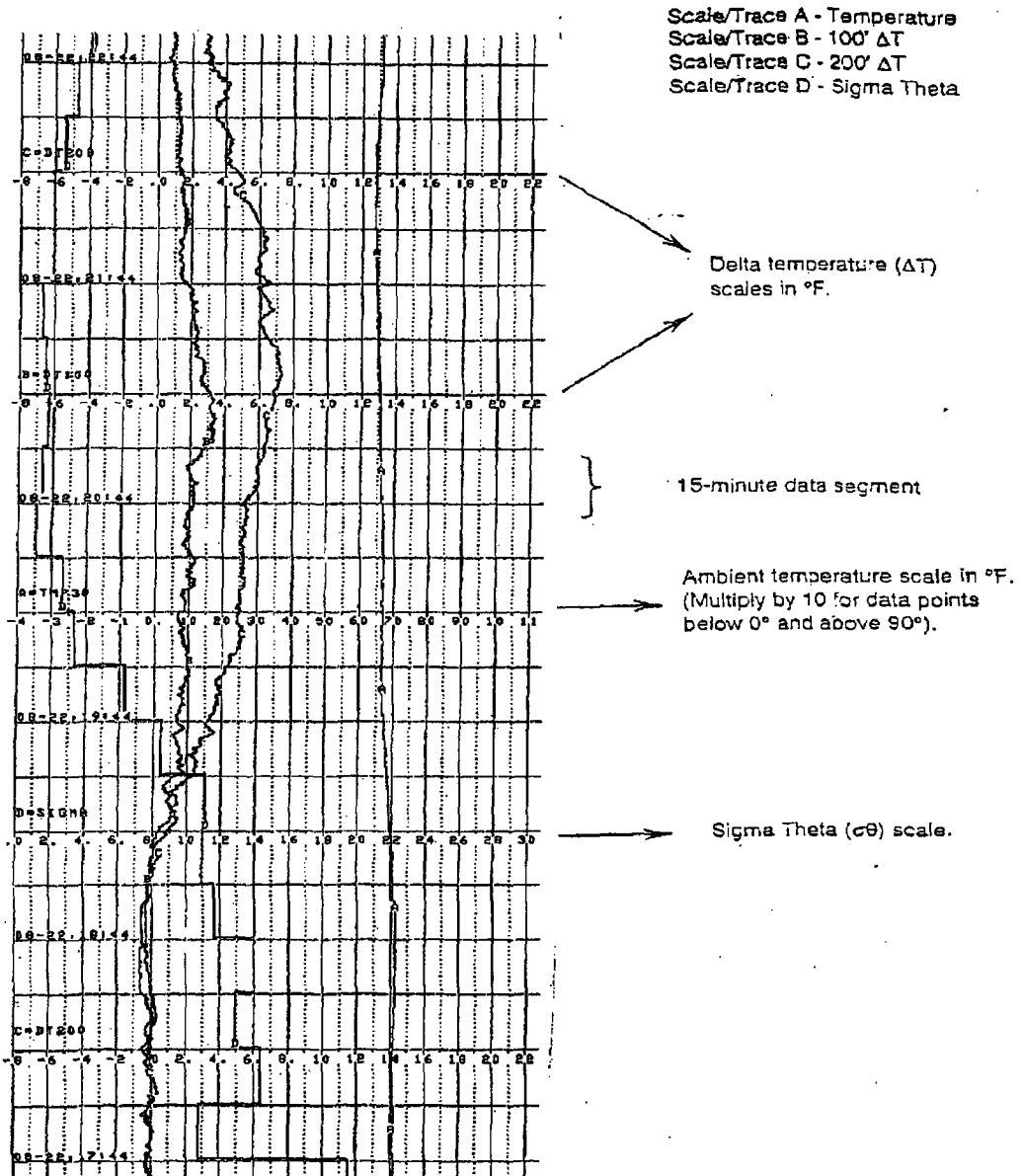
6.1. **SEE** Table 1-5 for determination of Stability Class.

**Table 1-5 - Stability Class Determination using Observations**

Surface Wind Speed (mph)	Daytime Solar Radiation				Nighttime Conditions		
	<i>For moderate cloud cover move one column to the right</i>			Heavy Overcast Rain	Thin overcast (>1/2 cloud cover)	< 3/8 cloud cover	Heavy Overcast Rain
	Summer Clear Sky	Spring/Fall Clear Sky	Winter Clear Sky				
< 9.0	A	A-B	B	D	F	G	D
9.0	A-B	B	C	D	E	F	D
to 13.5	B	B-C	C	D	D	E	D
> 13.5	C	C-D	D	D	D	D	D

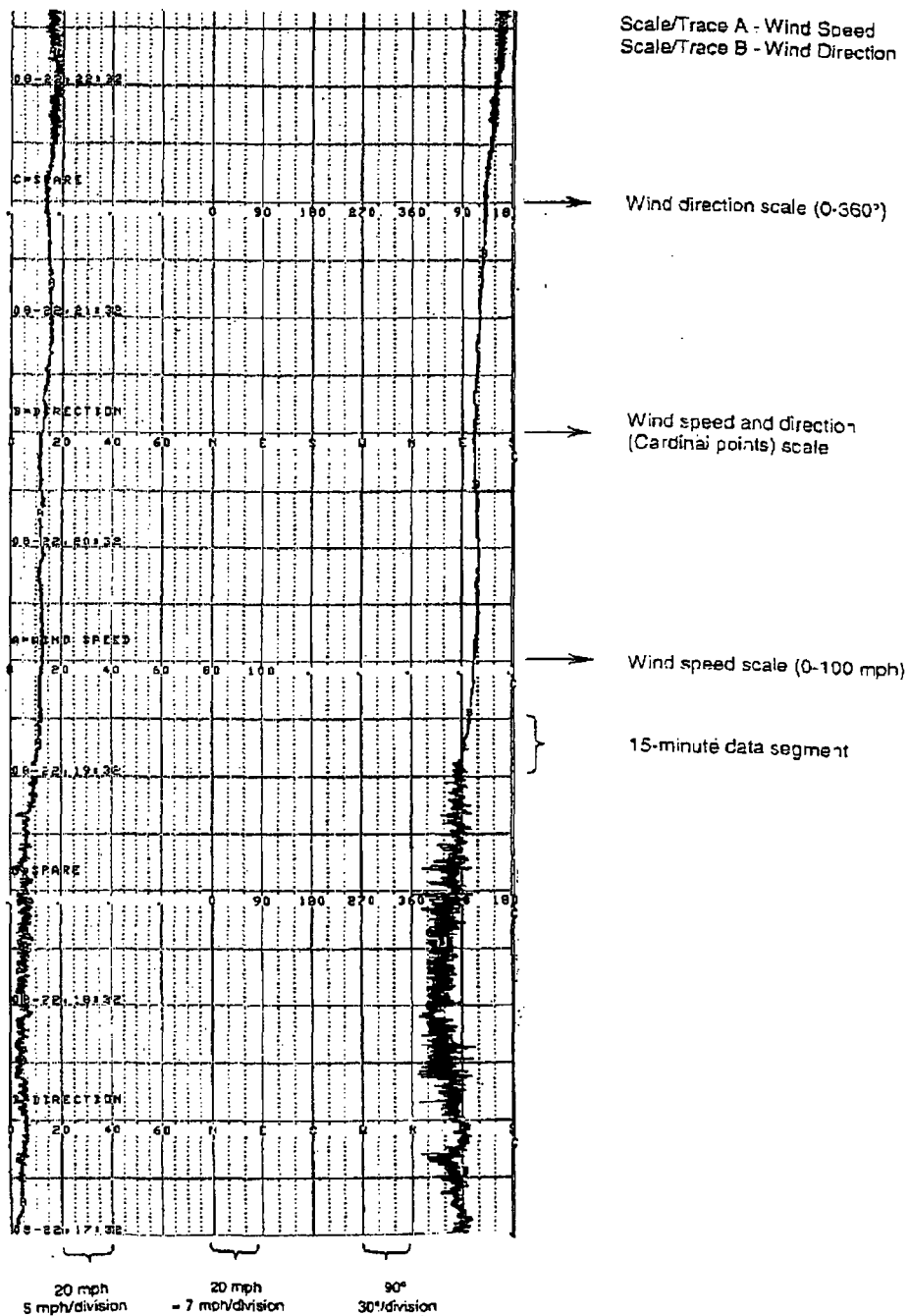
Attachment 1, Meteorological Data Acquisition (Continued)

Figure 1 - Sample Air Temperature, Delta Temperature and Sigma Theta Trace (Control Room)



Attachment 1, Meteorological Data Acquisition (Continued)

Figure 2 - Sample Wind Speed and Wind Direction Trace (Control Room / TSC)



**Attachment 2, Air Sample and Thyroid Dose Calculations****NOTE**

Air Sample and Thyroid Dose calculations may only be selected from the Detailed Dose Assessment menu.

**1.0 CALCULATIONS**

1.1. **SELECT** Calculations | Air Sample Calculations from menu.

1.2. Particulate Filter

- A. **If** particulate filter is not available **then SELECT** "(None)" from Instrument dropdown.
- B. **If** particulate filter is available, **then SELECT** meter from Instrument dropdown.
  - 1. **If** selected instrument type is a Count Rate Meter **then**:
    - a. **ENTER** count rate meter Background Count Rate in CPM
    - b. **ENTER** particulate Filter Gross Count Rate in CPM
  - 2. **If** selected instrument type is a Counter (scaler), **then**:
    - a. **ENTER** Background Count Time in minutes
    - b. **ENTER** Background Counts
    - c. **ENTER** Filter Count Time in minutes
    - d. **ENTER** Filter Gross Counts
  - 3. **If** selected instrument type is an Exposure Rate Meter, **then**:
    - a. **ENTER** Background Rate in mR/hr
    - b. **ENTER** Filter Gross Rate in mR/hr

1.3. Iodine Cartridge

- A. **If** iodine cartridge is not available **then SELECT** "(None)" from Instrument dropdown.
- B. **If** iodine cartridge is available, **then SELECT** meter from Instrument dropdown.
  - 1. **If** selected instrument type is a Count Rate Meter **then**:
    - a. **ENTER** count rate meter Background Count Rate in CPM
    - b. **ENTER** iodine Cartridge Gross Count Rate in CPM
  - 2. **If** selected instrument type is a Counter (scaler), **then**:
    - a. **ENTER** Background Count Time in minutes
    - b. **ENTER** Background Counts
    - c. **ENTER** iodine Cartridge Count Time in minutes
    - d. **ENTER** iodine Cartridge Gross Counts



**Attachment 2, Air Sample and Thyroid Dose Calculations (Continued)**

3. If selected instrument type is an Exposure Rate Meter, then:
  - a. **ENTER** Background Rate in mR/hr
  - b. **ENTER** iodine Cartridge Gross Rate in mR/hr
- 1.4. If sample returned with flow rate and sample collection time, then **SELECT** "Utilize Flow Rate and Sample Collection Times".
  - A. **SELECT** appropriate flow rate, CFM or LPM.
  - B. **ENTER** sample flow rate
  - C. **ENTER** the sample collection time in minutes
- 1.5. If sample was returned with a total volume, then **SELECT** "Enter Total Volume"
  - A. **SELECT** appropriate volume units, Cubic Feet or Liters
  - B. **ENTER** total sample flow
- 1.6. Once all errors have been resolved, particulate filter and iodine cartridge results in  $\mu\text{Ci/cc}$  will be calculated along with Lower Limit of Detection (LLD)
  - A. If sample results are below calculated LLD, then LLD in corresponding units will be displayed. Result will **not** be used in calculated total I-131 concentration
  - B. If sample results are at or above calculated LLD, then calculated I-131 concentration will be displayed. Result will be used in calculated total I-131 concentration.
  - C. **PRESS** "Transfer to Field Team Calc" button to automatically enter calculated total I-131 concentration in I-131 Conc. textbox on Field Team tab.
  - D. If an Optional Estimated Thyroid Dose Calculation is needed, then **ENTER** time team was in plume in hours in Exposure Time textbox. The Estimated Thyroid Dose in Rem will be calculated.
  - E. **PRESS** Print to print sample results report
  - F. **PRESS** Cancel to exit and close form.

### Attachment 3, Miscellaneous Calculations

#### 1.0 CONVERSIONS

Conversion calculations exist to convert

- Concentrations and flow rates to release rates
- Distances
- Velocities
- Volumes

1.1. **SELECT** Calculations | Conversion Calculations from Detailed Assessment menu,

1.2. **ENTER** value(s) into appropriate text boxes

1.3. **SELECT** units to match entered value(s)

1.4. **SELECT** units to convert to

#### 2.0 DISTANCE AND BEARING

Determine distance and bearing from any two points given latitude and longitude of each. These can be either predetermined fixed points or any two points consisting of a latitude and longitude. This can be useful if field teams return survey result locations in geographic coordinates.

2.1. **SELECT** Calculations | Distances and Bearings from Detailed Assessment menu.

2.2. **SELECT** data format to use for inputting coordinates.

2.3. **SELECT** method which best meets the data supplied

A. Point to Point – Determines the distance and bearing based strictly on predetermined receptor points. The user cannot enter or modify any point locations

1. **SELECT** Point A Receptor Point of interest.

2. **SELECT** Point B Receptor Point of interest.

3. Distance and Bearing will be calculated from Point A to Point B.

B. Point to Any Lat/Lon – Determines distance and bearing based on a predetermined receptor point and any entered Latitude and Longitude.

1. **SELECT** Point A Receptor Point of interest.

2. **ENTER** Point B Latitude and Longitude. Latitudes north of equator are **Positive** values. Longitudes west of Prime Meridian are **Negative** values.

3. Distance and Bearing will be calculated from Point A to Point B.

**Attachment 3, Miscellaneous Calculations (Continued)**

- C. Any Lat/Lon to Any Lat/Lon – Determines distance and bearing based on any entered Latitude and Longitude.
1. **ENTER** Point A Latitude and Longitude. Latitudes north of the equator are **Positive** values. Longitudes west of Prime Meridian are **Negative** values.
  2. **ENTER** the Point B Latitude and Longitude. Latitudes north of the equator are **Positive** values. Longitudes west of the Prime Meridian are **Negative** values.
  3. Distance and Bearing will be calculated from Point A to Point B.

**3.0 TIME TO THRESHOLD**

Calculates when a threshold will be exceeded at each of the predetermined RASCAL reporting distances. The report uses the highest dose calculated for each distance divided by release duration to obtain a rate. This rate is then used to calculate hours and minutes until each of the thresholds is exceeded. This report:

- Does not account for any subsequent decay of deposited radionuclides over displayed time frame.
- Reported times do not account for previously released doses or deposition due to previous releases.
- Thresholds are reported for the Unusual Event, Alert, Site Area Emergency and General Emergency classifications.
- **If** no threshold value was set by the administrator for a classification, **then** N/A is reported.
- **If** a calculated time to threshold exceeds 100 hours, **then** >100:00 is displayed.
- **SELECT** Print button to print report to default printer.

**4.0 EDE to TEDE Ratios**

Calculates ratio of EDE to TEDE with and without Iodine. These ratios are useful in determining the accuracy of external dosimeters when calculating actual TEDE values.

- 4.1. **SELECT** Calculations | EDE to TEDE Ratios from the menu.
- 4.2. Ratios will be calculated for the key distances of 2, 5 and 10 miles.
- 4.3. EDE/TEDE Ratio with Iodine is an indication of the amount of iodine in the release mix. The greater the amount of iodine the greater the whole body dose that may **not** be measured on a self-reading dosimeter. As ratio gets smaller (approaches 0) the actual TEDE will increase but will not be accounted for on the self-reading dosimeter. Dose limits should be adjusted accordingly to ensure TEDE is not exceeded if individuals such as field team members or emergency workers will be entering these areas.
- 4.4. Some states require these ratios to perform dose limit calculations. Calculated ratios can be printed and supplied to the state as needed.

**Attachment 3, Miscellaneous Calculations (Continued)****5.0 Detailed source term data**

Though each URI printed dose assessment report provides a calculated release rate, additional source term data is available that might be useful to external entities performing dose assessments using other assessment programs. This report contains a complete listing of the isotopes of interest, isotopic half-life, process reduction factor effects and available fractions.

- 5.1. **SELECT** Calculations | Source Term Data from Detailed Assessment form menu.
- 5.2. Calculated source term data will be displayed.

**Attachment 4, Process Reduction Factor Determination****NOTE**

Depending on the selected pathway, reduction processes associated with that pathway will be enabled or disabled. If disabled, then they are not included in pathway reduction factor calculation.

**1.0 HOLDUP TIME DETERMINATION**

- 1.1. **If holdup time is not applicable to a release pathway, then ENTER 0 hours in "Specific Time".**
- A. Turbine Building
    - 1. **SELECT < 2 hours**
  - B. Drywell / Suppression Pool / Torus / Primary Containment
    - 1. **If volume has not remained static, with significant additions to source term, then SELECT < 2 hours.** This is the normally selected option if fuel damage is on-going or conditions are changing.
    - 2. **If volume has remained static with no significant additions to source term and a specific holdup time can be determined, then SELECT range from options provided or SELECT Specific Time option and ENTER holdup time in hours.**
  - C. Reactor Building / Secondary Containment
    - 1. **If release is not through a normal ventilation pathway (i.e. blowout panel or hole in the side of the building) then SELECT < 2 hours**
    - 2. **If release is through a normal ventilation pathway, then SELECT a holdup time based on one of the following:**
      - a. **If EVS / GTS not running, then SELECT < 2 hours**
      - b. **If EVS / GTS running, but flow rate information is unavailable, then SELECT < 2 hours.**
      - c. **If EVS / GTS running at > 700 cfm, then SELECT 2-24 hours.**
      - d. **If EVS / GTS running at  $\leq$  700 cfm, then SELECT > 24 hours.**

**2.0 TORUS / SUPPRESSION POOL STATUS DETERMINATION**

- 2.1. **If effluent stream does not pass through Torus / Suppression Pool or is unknown, then SELECT Bypassed.**
- 2.2. **If effluent stream is passing through Torus / Suppression Pool and Torus / Suppression Pool water temperature is > 212°F then SELECT Saturated, otherwise SELECT Subcooled.**

**Attachment 4, Process Reduction Factor Determination (Continued)****3.0 SPRAY STATUS DETERMINATION**

- 3.1. **If** Spray is not applicable to the actual release pathway, **then SELECT** Off
- 3.2. **If** Spray running, **then SELECT** On.
- 3.3. **If** Spray not running **or** status of Spray cannot be determined, **then SELECT** Off.
- 3.4. **If** volume has remained static with no significant additions to source term **and** a specific spray time can be determined, **then SELECT** appropriate range from options provided **or SELECT** Specific Time option and **ENTER** spray run time in hours. This is **not** a normally selected option if fuel damage is on-going.

**4.0 FILTER STATUS DETERMINATION**

- 4.1. **If** filter is not applicable to release pathway, **then SELECT** Not Working.
- 4.2. **If** filter is working **or** status of filter cannot be determined, **then SELECT** Working.
- 4.3. **If** filter is not working, **then SELECT** Not Working.

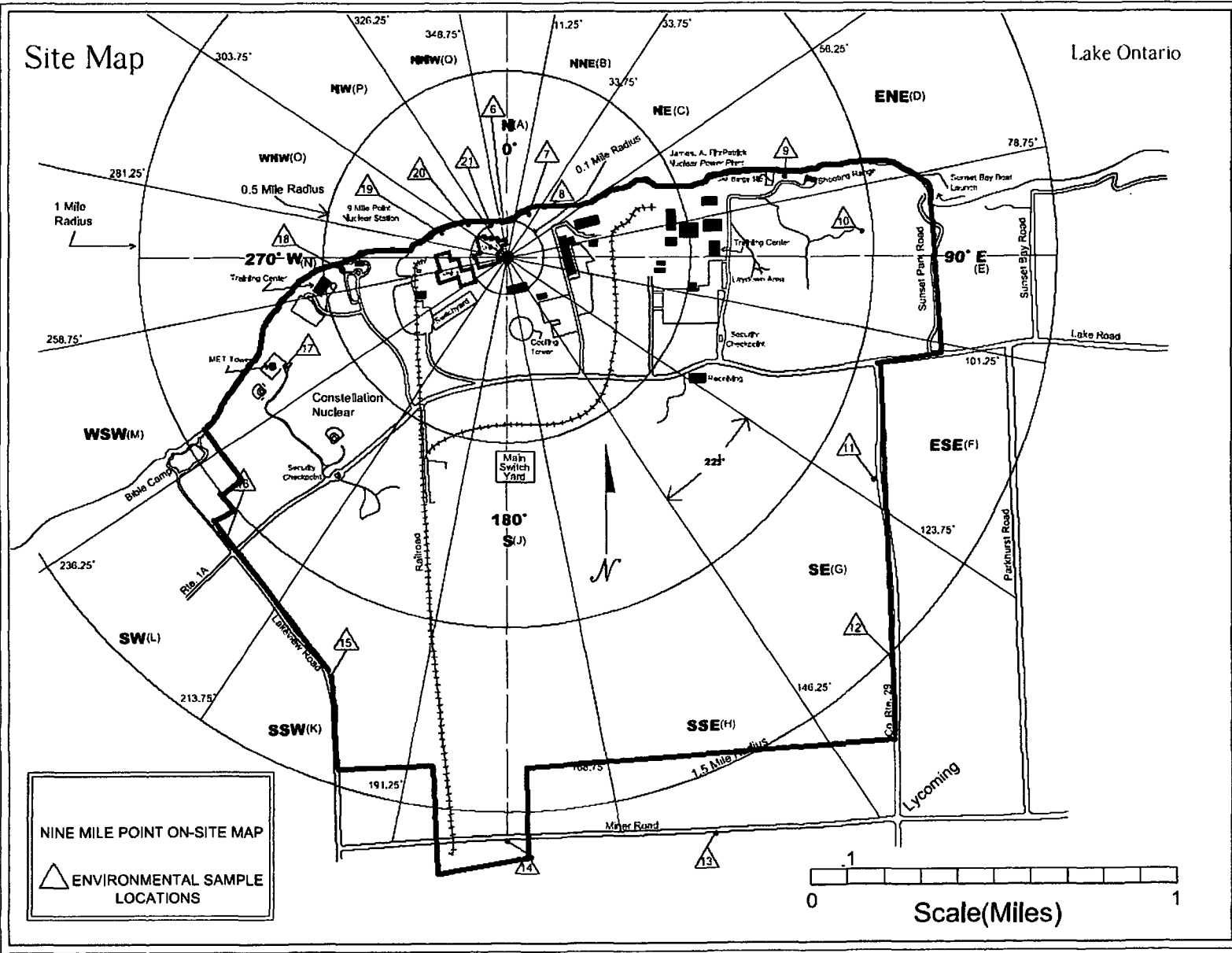
**5.0 EMERGENCY CONDENSER WATER LEVEL DETERMINATION**

- 5.1. **If** water level cannot be obtained from plant computer system **then CONTACT** Control Room.
- 5.2. **SELECT** appropriate option based on water level.
- 5.3. **IF** water level cannot be determined, **THEN SELECT** second option in list.

**6.0 Spent Fuel Status Determination**

- 6.1. **If** spent fuel is fully exposed to air (no steam cooling is occurring) **or** a Zirc-Fire is suspected, **then SELECT** Dry.
- 6.2. **If** spent fuel is partially uncovered (steam cooling is occurring), **then SELECT** Partially Covered.
- 6.3. **If** spent fuel is fully submerged, **then SELECT** Under Water.

Attachment 5, Site Boundary Map



Attachment 6, Rapid Dose Assessment Data Entry Form

DATE: \_\_\_/\_\_\_/\_\_\_ TIME: \_\_\_\_\_ STATION / UNIT: \_\_\_\_\_

Section 1	
Obtain the following information from the control room before starting dose assessments.	
Reactor Core / Reactor Coolant System Accidents	Spent Fuel Accidents
What is the status of Fuel Clad Fission Product Barrier per EAL's? <input type="checkbox"/> Intact <input type="checkbox"/> Loss or Potential Loss	Is date assembly was last in reactor known? <input type="checkbox"/> YES** – Date/Time _____
Has Power Level changed by $\geq 15\%$ / hour since the start of event? <input type="checkbox"/> YES / <input type="checkbox"/> NO	<input type="checkbox"/> No – Is the affected unit in a Refueling Outage? <input type="checkbox"/> YES** – Date/Time Outage Started _____
Is the reactor currently in an ATWS? <input type="checkbox"/> YES - What is current Power Level? _____ % <input type="checkbox"/> NO - If No, Is the Reactor Shut Down? <input type="checkbox"/> YES - Date / Time _____ <input type="checkbox"/> No	<input type="checkbox"/> NO** – Date/Time of Last Outage _____  ** If the exact time cannot be determined, use 1200
If a release is in progress, Where is the release originating from and how is it getting to the release point? Include any buildings and filter systems the release may be passing through:	
The estimated Release Duration is <input type="checkbox"/> Unknown OR _____ hours.	
Are there any problems with the effluent radiation monitors that would make their readings questionable? <input type="checkbox"/> YES / <input type="checkbox"/> NO If Yes, explain:	
Section 2	
The following information can normally be obtained from plant computer systems and is only required to be completed if system is not available.	
<b>Meteorological Data</b>	
Tower Name: _____ Elevation _____ ft Wind Speed (mph): _____ Wind Direction (from): _____ Delta T (°F): _____ Stability Class: _____ Precipitation: _____	
<b>Release Data</b>	
If this is a <u>Monitored Release</u> record Effluent Monitor Reading(s) and associated release point flow parameters as applicable	
Monitor _____ Reading _____ Monitor _____ Reading _____ Monitor _____ Reading _____	Release Point Flow Rate _____ cfm / Kcfm Emergency Condenser Water Level: _____ in
If this is an <u>Unmonitored Release</u> record the following Estimated RCS Leak Rate: _____ GPM OR <input type="checkbox"/> Unknown Containment High Radiation Monitor Reading: _____	
Other:	



Attachment 7, Detailed Dose Assessment Data Entry Form

DATE: \_\_\_/\_\_\_/\_\_\_ TIME: \_\_\_\_\_ STATION / UNIT: \_\_\_\_\_

Source Term and Reactor Status Information

<input type="checkbox"/> REACTOR CORE ACCIDENT TYPE OF DAMAGE: <input type="checkbox"/> COOLANT <input type="checkbox"/> GAP / <input type="checkbox"/> MELT AMOUNT OF DAMAGE: _____ %	<input type="checkbox"/> SPENT FUEL ACCIDENT <input type="checkbox"/> NEW <input type="checkbox"/> OLD Date last irradiated _____ <input type="checkbox"/> UNDER WATER <input type="checkbox"/> PARTIALLY SUBMERGED <input type="checkbox"/> DRY
Has Rx Power Level changed by $\geq 15\%$ since the start of the event? <input type="checkbox"/> YES / <input type="checkbox"/> NO	

Rx Power: \_\_\_\_\_ % / Rx Trip at: \_\_\_\_\_ / ATWS:  YES /  NO

Meteorological Information

Tower Name: \_\_\_\_\_ Elevation \_\_\_\_\_ ft

Wind Speed (mph): \_\_\_\_\_ Wind Direction (from): \_\_\_\_\_ Delta T (°F): \_\_\_\_\_ Stability Class: \_\_\_\_\_

Precipitation: \_\_\_\_\_

Release Duration and Pathway Information

No Release in Progress  Yes /  No Estimated Duration: \_\_\_\_\_ hrs OR  Unknown

RELEASE POINT PATHWAY DESCRIPTION:

If this is a Monitored Release record Effluent Monitor Reading(s) and associated release point flow parameters as applicable

Monitor _____ Reading _____	Release Point Flow Rate _____ cfm / Kcfm
Monitor _____ Reading _____	Emergency Condenser Water Level: _____ in
Monitor _____ Reading _____	

If this is an Unmonitored Release record the following

Estimated RCS Leak Rate: \_\_\_\_\_ GPM OR  Unknown

Containment High Radiation Monitor Reading: \_\_\_\_\_

Additional Pathway Reduction Factor Information

CNTMT VENTING EXPECTED	<input type="checkbox"/> NO / <input type="checkbox"/> YES - REASON:	
CONTAINMENT Reductions	SPRAYS: <input type="checkbox"/> ON / <input type="checkbox"/> OFF	If ON, Estimate Spray Time _____ hrs
TORUS/SUPP POOL Reductions	<input type="checkbox"/> BYPASSED / <input type="checkbox"/> SATURATED / <input type="checkbox"/> SUBCOOLED / TEMPERATURE: _____ °F	
FILTERS Related to Pathway	<input type="checkbox"/> WORKING / <input type="checkbox"/> NOT WORKING	RBEVS/GTS Flow Rate: _____ cfm

Other:

**Attachment 8, Monitor Reading Action Levels**

Date: \_\_\_\_\_

Time: \_\_\_\_\_

**IF** set-points are met or trending toward being met, **THEN** inform SM to review EALs for emergency classification or upgrade and inform CRS for EOP execution.

**SPDS displays "FAILED" when WRGMS monitors detect greater than 1.0E+07  $\mu$ Ci/sec. Monitors are capable of measuring 1E+13  $\mu$ Ci/sec. Release rate is available over entire range of monitor at control room panel 2CEC\*PNL880.**

UNIT 1 Stack Effluent				
Class	Parameter	Set-point	Comments	Time met
UE	RN10A/B	300 cps		
ALERT	RN10A/B	3.0E+04 cps		
UNIT 2 RW/RB Vent Effluent				
Class	Parameter	Set-point	Comments	Time met
UE	RW/RB Vent WRGMS	2 x Alarm		
ALERT	RW/RB Vent WRGMS	200 x Alarm		
SAE	RW/RB Vent WRGMS	5.5E+06 $\mu$ Ci/sec		
GE	RW/RB Vent WRGMS	5.5E+07 $\mu$ Ci/sec		
UNIT 2 Stack Effluent				
Class	Parameter	Set-point	Comments	Time met
UE	Stack WRGMS	2 x Alarm		
ALERT	Stack WRGMS	200 x Alarm		
SAE	Stack WRGMS	1.0E+09 $\mu$ Ci/sec		
GE	Stack WRGMS	1.0E+10 $\mu$ Ci/sec		



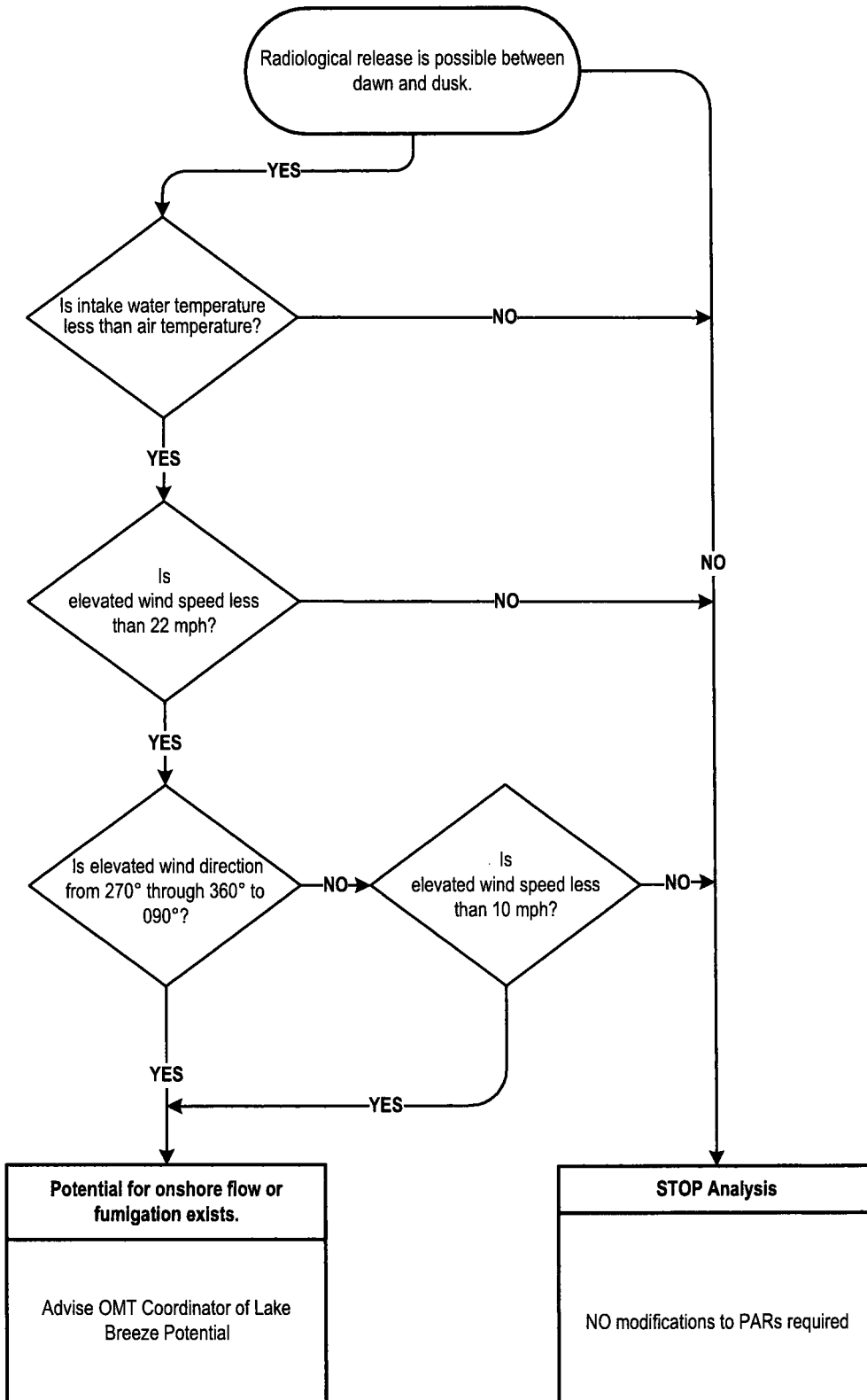
**Attachment 10, Stack And Vent Fan Configuration Worksheets**

DATE: \_\_\_/\_\_\_/\_\_\_      TIME: \_\_\_\_\_

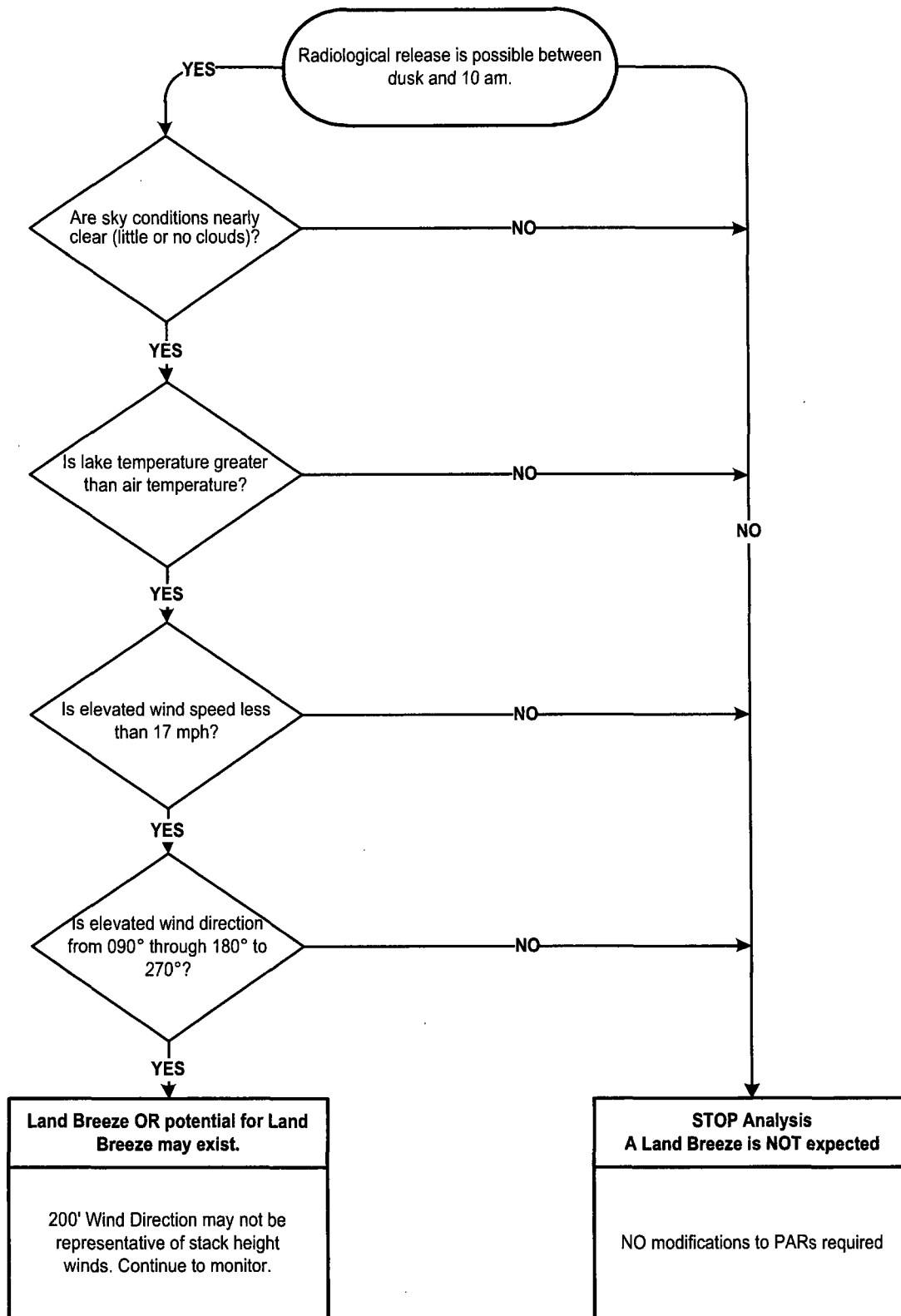
**UNIT 1 STACK**

Fan	Nominal Flow (KCFM)	Computer Point	Flowrate
Drywell Vent, Purge, and Fill Line	10		
Turbine Building High Speed Fan	170		
Turbine Building Low Speed Fan	120		
Reactor Building High Speed Fan	70		
Reactor Building Low Speed Fan	35		
Waste Building	8		
Waste Building Extension	5.3		
Offgas Building	6		
Reactor Building Emergency Ventilation	1.6		
RSSB Extension	10.25		
<b>Total Stack Flow</b>		C320	

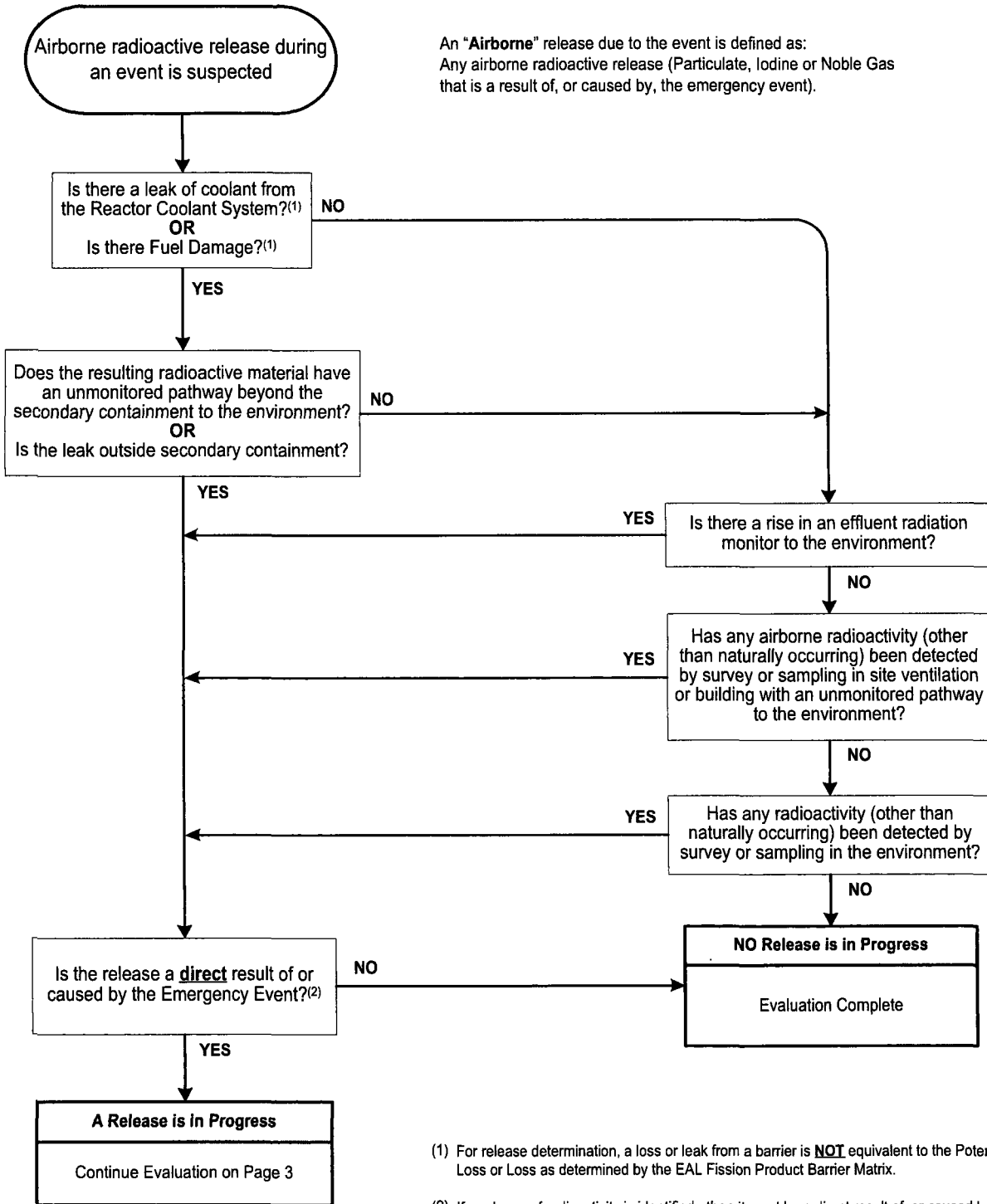
Attachment 11, Lake and Land Breeze Flowchart



Attachment 11, Lake and Land Breeze Flowchart (Continued)



**Attachment 12, Release In Progress Flowchart**

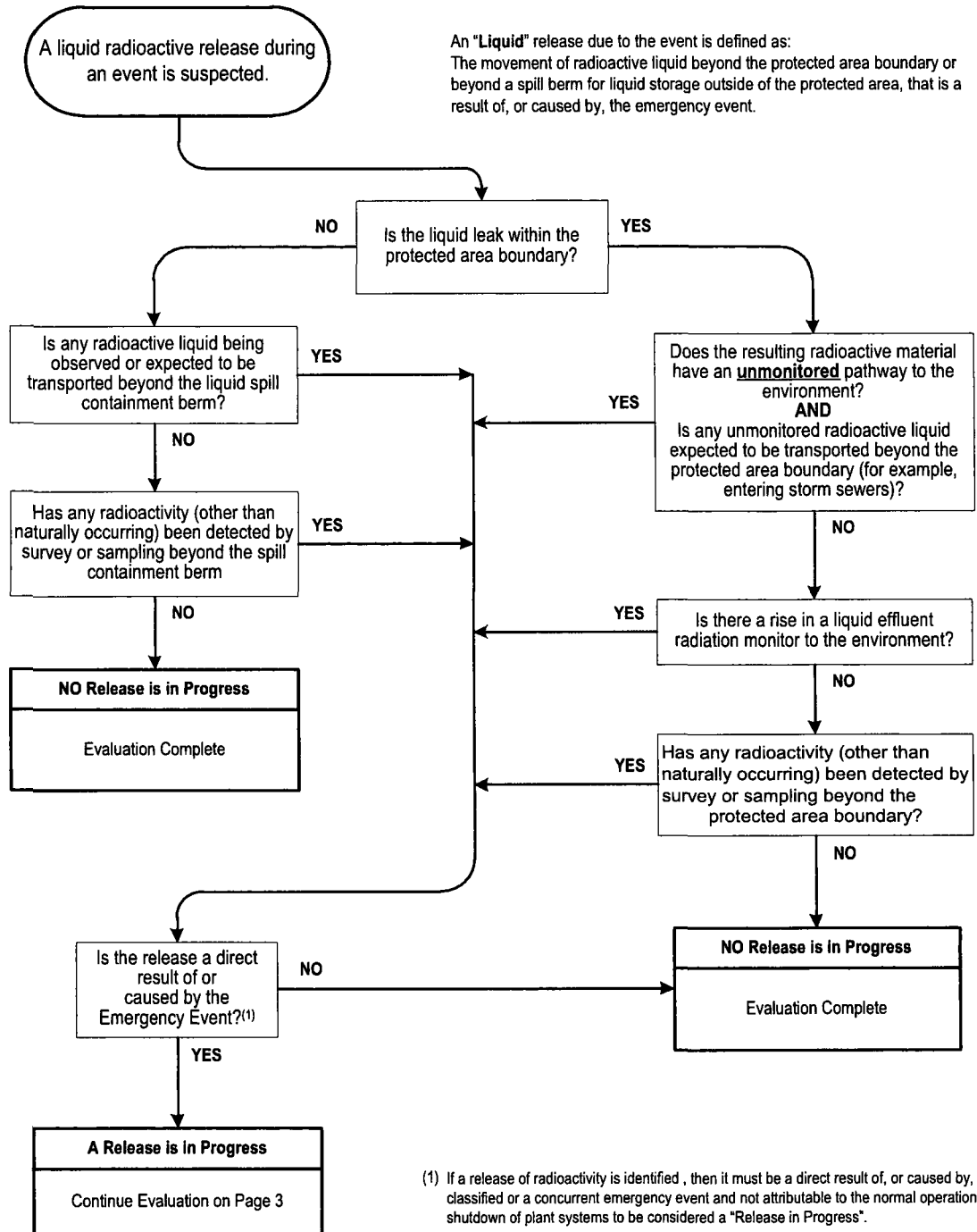


An "Airborne" release due to the event is defined as:  
Any airborne radioactive release (Particulate, Iodine or Noble Gas that is a result of, or caused by, the emergency event).

(1) For release determination, a loss or leak from a barrier is **NOT** equivalent to the Potential Loss or Loss as determined by the EAL Fission Product Barrier Matrix.

(2) If a release of radioactivity is identified, then it must be a direct result of, or caused by, the classified or a concurrent emergency event and not attributable to the normal operation or shutdown of plant systems to be considered a "Release in Progress".

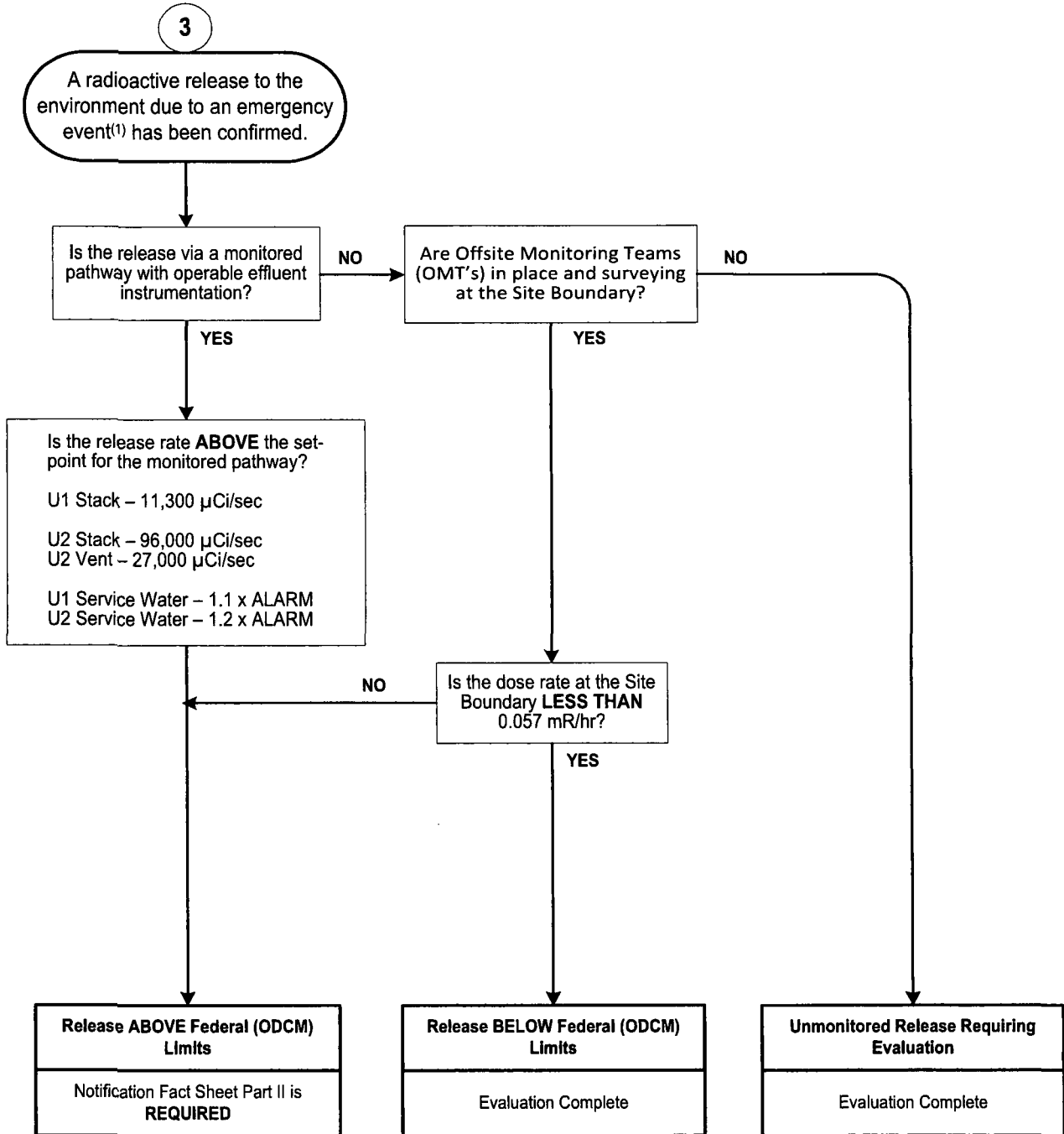
Attachment 12, Release In Progress Flowchart (Continued)



(1) If a release of radioactivity is identified, then it must be a direct result of, or caused by, the classified or a concurrent emergency event and not attributable to the normal operation or shutdown of plant systems to be considered a "Release in Progress".



Attachment 12, Release In Progress Flowchart (Continued)



(1) If a release of radioactivity is identified, then it must be a direct result of, or caused by, the classified or a concurrent emergency event and not attributable to the normal operation or shutdown of plant systems to be considered a "Release in Progress".

**EMERGENCY SPECIAL PROCEDURE FORM**

**INSTRUCTIONS:**    **COMPLETE** all applicable sections.    **ENTER "N/A"** in sections already addressed in attached procedure draft or mark up.

Purpose:

Prerequisites / Precautions:

Required Equipment:

Procedure:

Notes:

Prepared By: \_\_\_\_\_ / \_\_\_\_\_

Reviewed By: \_\_\_\_\_ / \_\_\_\_\_

Operations Manager Approval: \_\_\_\_\_ / \_\_\_\_\_

**CAUTION**

**PRIOR TO INVOKING 10 CFR 50.54(X)/(Y), OBTAIN APPROVAL FROM A SENIOR REACTOR OPERATOR WITH AN ACTIVE LICENSE.**

\_\_\_\_\_  
(Signature)\_\_\_\_\_  
(Date)\_\_\_\_\_  
(Time)

## NINE MILE POINT EQUIPMENT MATRIX

### 1. PURPOSE

- 1.1. The purpose of this procedure is to provide a guideline that can be used by personnel to assure equipment and facilities important and integral to implementing the Site Emergency Plan are maintained in conjunction with EP-AA-121, Emergency Response Facility Equipment and Readiness.

### 2. TERMS AND DEFINITIONS

- 2.1. None

### 3. MAIN BODY

#### 3.1. All Equipment

- 3.1.1. For a loss of equipment, planned or unplanned, listed in Attachments 1, 2, or 3 the following applies:

1. **ASSURE** appropriate priority provided for repair/return-to-service with consideration to impact on the Site Emergency Plan
2. **VERIFY** Tech Spec actions completed as required.
3. **ENSURE** Ops is aware of impact to Emergency Plan including as appropriate:
  - EALs
  - ERFs
  - Offsite communications capability
  - NRC notification capability
  - Emergency Response
  - Emergency Assessment
4. **COMPLETE** additional actions as indicated for the specific equipment in Attachments 1, 2, or 3.

- 3.1.2. For a planned loss the above actions should be completed prior to removing the equipment from service.

3.2. Equipment used as EAL indicators

3.2.1. For equipment identified in Attachment 1 or Attachment 2 as Table F-1 equipment, a four digit alpha numeric identifier is used:

1. The first two letters designate the affected Fission Product Barrier:

- FC = Fuel Clad
- RC = Reactor Coolant
- CB = Containment Barrier

2. The third letter designates loss or potential loss category:

- L = Loss Category
- P = Potential Loss Category

3. The fourth number represents the sequential number assigned to the particular item being referenced: Example: CBL1 would be referencing Containment Barrier Loss 1.

### 3.3. Emergency Response Facilities (ERFs)

3.3.1. Per NUREG 0696, Emergency Response Facilities (Control Room, Onsite Technical Support Center, Operational Support Center, and Emergency Operations Facility) shall function during emergencies and to provide the following services:

1. **HELP** the reactor operator determine the plant safety status.
2. **RELIEVE** the reactor operators of peripheral duties and communications **not** directly related to reactor system manipulations.
3. **PREVENT** congestion in the control room.
4. **PROVIDE** assistance to the operators by technical personnel who have comprehensive plant data at their disposal.
5. **PROVIDE** a coordinated emergency response by technical and management personnel.
6. **PROVIDE** reliable communications between onsite and offsite emergency response personnel.
7. **PROVIDE** a focal point for development of recommendations for offsite actions.
8. **PROVIDE** relevant plant data to the NRC for its analysis of abnormal plant operating conditions.

3.3.2. **If** the functionality of an ERF is affected, **then** a functionality check per Attachment 4, Functionality Check, should be performed. Appropriate compensatory measures per Attachments 1, 2, or 3 should be implemented as necessary.

3.3.3. **If** primary power is lost to any ERF, **then** the emergency power should be established as soon as possible.

1. **If** normal power **cannot** be restored to the ERF:
  - A. Backup or alternate ERFs shall be established.
  - B. The control room or emergency preparedness shall immediately inform the Emergency Response Organization (ERO).

C. After power is restored, at a minimum, the following ERF functions should be verified. **CONTACT** emergency preparedness for assistance.

- Habitability
- Communications Dose Assessment
- Lighting
- Computers

3.3.4. Technical Data

4. **DOCUMENTATION**

4.1. None

**5. REFERENCES**

- 5.1. 10CFR 50.47 Emergency Plans
- 5.2. 10CFR 50.72 Immediate Notification Requirements for Operating Nuclear Power Reactors
- 5.3. 10CFR50 Appendix E, Emergency Planning and Preparedness for Production and Utilization Facilities
- 5.4. NUREG 0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants
- 5.5. NUREG 0696, Functional Criteria for Emergency Response Facilities
- 5.6. NUREG 1022, Event Reporting Guidelines 10 CFR 50.72 and 50.73
- 5.7. Institute of Nuclear Power Operations (INPO) recommendations (08-007)
- 5.8. Unit 1 Technical Specifications
- 5.9. Unit 2 Technical Specifications
- 5.10. NMP Site Emergency Plan
- 5.11. ODCM, Offsite Dose Calculation Methodology

**6. ATTACHMENTS**

- 6.1. Attachment 1, Unit 1 Equipment
- 6.2. Attachment 2, Unit 2 Equipment
- 6.3. Attachment 3, Site Emergency Plan Equipment
- 6.4. Attachment 4, Functionality Check

**ATTACHMENT 1**  
**Unit 1 Equipment**  
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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Offgas High Radiation Detector/Alarm	RN12A RN12B RN 35 0.15 CFM DPIS-77-05 3" H2O DPIS-77-04 3" H2O	Required for EAL: SU7.2  <b>NOTE:</b> Low flow makes the rad detector inop	<p>If one channel inoperable, <b>VERIFY</b> other channels operable.</p> <p>If all channels inoperable,  <b>Then:</b></p> <ul style="list-style-type: none"> <li>• <b>COMPLETE</b> sampling per ODCM</li> <li>• <b>MONITOR</b> plant status for changes that may impact release status such as: <ul style="list-style-type: none"> <li>○ ID of fuel leaks, (FRI index changes)</li> <li>○ Significant changes in main condenser vacuum</li> <li>○ Significant changes in off-gas system status (lineups, alternate equipment and so forth)</li> <li>○ Significant changes in reactor power</li> <li>○ Significant changes in off-gas flow rates</li> </ul> </li> <li>• If any of the above changes occur, <b>DIRECT</b> an immediate sample of the off-gas process stream to determine necessary actions.</li> <li>• If possible, <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.</li> </ul>



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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Main Stack Monitors	RN 10A (OGESM) RN 10B (OGESM) RN 7 (OGESM) RN 8 (OGESM)	Required for EAL: RU1.1 RA1.1	<p>If the channel is inoperable,  <b>Then:</b></p> <ul style="list-style-type: none"> <li>• <b>COMPLETE</b> sampling per ODCM</li> <li>• <b>MONITOR</b> plant status for changes that may impact release status such as: <ul style="list-style-type: none"> <li>○ Changes in reactor power</li> <li>○ ID of fuel leaks, (FRI index changes)</li> <li>○ Significant changes in main condenser vacuum</li> <li>○ Significant changes in off-gas system status, or flow rate</li> <li>○ Significant changes in ventilation systems inputting to the stack</li> <li>○ Significant changes in primary system leaks status or main steam leak status</li> </ul> </li> <li>• If any of the above changes occur, <b>DIRECT</b> an immediate sample of the main stack process stream to determine necessary actions.</li> <li>• If possible, <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.</li> </ul>
1	EC Vent Rad Monitor	RM 111 (RE-RN04A-3)  RM 112 (RE-RN04A-4)  RM 121 (RE-RN04B-3)  RM 122 (RE-RN04B-4)	Required for EAL: RU1.1 RA1,1 RS1.1	<p>If one channel inoperable,  <b>Then VERIFY</b> other channels operable.</p> <p>If all channels inoperable,  <b>Then:</b></p> <ul style="list-style-type: none"> <li>▪ <b>MONITOR</b> plant status</li> <li>▪ <b>COMPLETE</b> sampling per ODCM</li> </ul> <p>If EC use is required,  <b>Then:</b></p> <ul style="list-style-type: none"> <li>• <b>WORK</b> with RP to develop alternate radiation monitoring plan</li> </ul>

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Unit 1 Equipment  
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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Service Water Effluent Rad Monitor	SW Disch Mon  RN02A  RN02B	Required for EAL:  RU1.2  RA1.2	<p>If <b>either</b> channel is inoperable,</p> <p>Then:</p> <ul style="list-style-type: none"> <li>• <b>COMPLETE</b> sampling per ODCM</li> <li>• <b>MONITOR</b> plant status for changes such as : <ul style="list-style-type: none"> <li>○ Significant changes in RBCLC makeup rates</li> <li>○ Significant changes in Spent Fuel Pool System Status</li> <li>○ Significant changes in shutdown cooling system status during shutdowns</li> </ul> </li> <li>• If any of the above changes occur, <b>DIRECT</b> an immediate sample of the service water process stream to determine necessary actions.</li> <li>• If possible <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.</li> </ul>
1	Radwaste Discharge Rad Monitor	Rad Waste 11  (RN08A)  Rad Waste 12  (RN08D)	Required for EAL:  RU1.2  RA1.2	<p>If one channel inoperable, <b>VERIFY</b> other channels operable.</p> <p>If all channels inoperable,</p> <p>Then:</p> <ul style="list-style-type: none"> <li>• <b>MONITOR</b> plant status</li> <li>• <b>COMPLETE</b> sampling per ODCM</li> </ul>

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Unit 1 Equipment  
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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Drywell high range radiation monitor	RAM 201.7-36 RAM 201.7-37	Required for EAL:  Table F-1: <ul style="list-style-type: none"> <li>• FCL2</li> <li>• RCL5</li> <li>• CBP5</li> </ul>	<p>If one channel inoperable, <b>VERIFY</b> other channels operable.</p> <p>If all channels inoperable, Then:</p> <ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of drywell leakage detection systems</li> <li>• <b>MONITOR</b> plant status for indications of: <ul style="list-style-type: none"> <li>○ increased primary system leakage</li> <li>○ fuel clad damage</li> </ul> </li> <li>• If any of the above changes occur, <b>DIRECT</b> an immediate sample of: <ul style="list-style-type: none"> <li>○ primary coolant system for iodine activity</li> <li>○ drywell airspace</li> </ul> </li> </ul>
1	All Area Rad Monitors	Any RAM	Required for EAL:  RU2.2  Table F-1: <ul style="list-style-type: none"> <li>• RCP1</li> </ul>	<ul style="list-style-type: none"> <li>• <b>MONITOR</b> plant status for changes that may impact radiological status such as: <ul style="list-style-type: none"> <li>○ ID of fuel leaks, (FRI index changes)</li> <li>○ Significant changes in main condenser vacuum</li> <li>○ Significant changes in off-gas system status</li> <li>○ Significant changes in ventilation systems status</li> <li>○ Significant changes in primary system or secondary system status</li> </ul> </li> <li>• <b>PERFORM</b> regular RP surveys in areas with inop detectors</li> <li>• If possible <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.</li> <li>• <b>INCREASE</b> survey frequency as required based upon changes in any of the above indications, using response as required by S-RPIP-10.5</li> </ul>

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**Unit 1 Equipment**  
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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	RB Vent Rad Monitor	RN07A-5 RN07B-5 RO16C-10	Required for EAL:  RA2.1	<p>If one channel inoperable, <b>VERIFY</b> other channels operable.</p> <p>If all channels inoperable, Then:</p> <ul style="list-style-type: none"> <li>• <b>MONITOR</b> plant status for changes that may impact release status such as: <ul style="list-style-type: none"> <li>○ ID of fuel leaks, (FRI index changes)</li> <li>○ Changes in ventilation systems</li> <li>○ Changes in primary system leak status</li> </ul> </li> <li>• <b>COMPLETE</b> sampling per ODCM</li> </ul>
1	Refuel floor Rad monitor	RAM #18 RAM #25 RAM #29 Refuel Bridge HIGH RANGE	Required for EAL:  RU2.1  RA2.1	<p>If one channel inoperable, <b>VERIFY</b> other channels operable.</p> <p>If all channels inoperable, or both channels of Refuel Bridge High Range are inoperable, Then:</p> <ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of spent fuel pool level indicators</li> <li>• <b>MONITOR</b> spent fuel pool system status,</li> <li>• <b>PERFORM</b> regular RP surveys on refuel floor,</li> <li>• <b>VERIFY</b> operability of other nearby radiation monitors</li> <li>• <b>INCREASE</b> survey frequency as required based upon changes in any of the above indications, using response as required by S-RPIP-10.5</li> <li>• If possible <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.</li> <li>• <b>VERIFY</b> operability of Stack Monitoring.</li> </ul>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Control Room Radiation Monitor	R010A-3 Detector  R003A-3 Indicator	Required for EAL :  RA3.1	<ul style="list-style-type: none"> <li>• <b>PERFORM</b> regular RP surveys in the control room</li> <li>• <b>INCREASE</b> survey frequency as required based upon changes in any of the above indications, using response as required by S-RPIP-10.5</li> </ul>
1	Spent Fuel Pool level	Fuel Pool: LSE 54-26C	Required for EAL:  RU2.1  RA2.2	<p>If one channel inoperable, verify other channels operable.</p> <p>If all channels inoperable, <b>Then:</b></p> <ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of spent fuel pool water level indications , increase monitoring frequency</li> <li>• <b>MONITOR</b> spent fuel pool system status</li> <li>• <b>MONITOR</b> reactor building status for indications of increased leakage</li> <li>• If possible, <b>ESTABLISH</b> portable or other monitoring in area, <b>SETUP</b> RP cameras as necessary.</li> </ul>
1	Drywell leakage indications	LS-104-22A	Required for EAL: Table C-2 SU8.1	<ul style="list-style-type: none"> <li>• <b>VERIFY</b> capability to determine leak rate using other means</li> <li>• <b>INCREASE</b> monitoring of other plant status indicators such as: <ul style="list-style-type: none"> <li>○ Rise in drywell pressure, temperature, airborne contamination levels</li> </ul> </li> </ul>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	RPV Level Indications	Hi/Lo LoLo  Wide Range  LoLoLo  Fuel Zone	Required for EAL:  SG1.1  CU3.1  CA3.1  CS3.1  CG3.1  CU3.2  CS3.2  CG3.2  CU3.3  CS3.3  CU4.2  Table F-1: • FCP1 • RCL1	<ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of other level indicators</li> <li>• <b>CONSULT</b> N1-SOP-29.1, EOP Alternate Instrumentation</li> </ul>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Reactor Power Indications	APRM's  LPRM's  SRM's	Required for EAL:  SU3.1  SA3.1  SS3.1  SG3.1  CU5.1  CG3.2	<ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of other power indicators</li> <li>• <b>CONSULT</b> N1-SOP-29.1, EOP Alternate Instrumentation</li> </ul>
1	Reactor coolant temperature indications  (During shutdown conditions)	Reactor Recirc Pump Temp's	Required for EAL:  CU4.1  CA4.1  CU4.2	<ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of other reactor coolant temperature indicators or reactor pressure indications.</li> <li>• During shutdown conditions <b>VERIFY</b> shutdown cooling system(s) are in service and functioning appropriately</li> </ul>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Torus Temperature Indications	Torus Temp Ch 11 Ch 12	Required for EAL:  SG3.1  Table F-1: • CBP4	<ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of other temperature indicators</li> <li>• <b>CONSULT</b> N1-SOP-29.1, EOP Alternate Instrumentation</li> </ul>
1	Reactor Pressure Indications	Reactor Press Ch 11 Ch 12	Required for EAL:  SG3.1  CA4.1  Table F-1: • CBP4	<ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of other pressure indicators</li> <li>• <b>CONSULT</b> N1-SOP-29.1, EOP Alternate Instrumentation</li> </ul>



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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Drywell Pressure Indications	Narrow Range  Wide Range  Ch 11  Ch 12	Required for EAL:  Table C-3  Table F-1: • RCL2 • CBL1 • CBL2	<ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of other pressure indicators</li> <li>• <b>CONSULT</b> N1-SOP-29.1, EOP Alternate Instrumentation</li> </ul>
1	Torus Pressure Indications  PI201.2-594A  T/PR 201-70  PI 201.2-595A	Narrow Range  Wide Range  Ch 11  Ch 12	Table F-1: • CBP2	<ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of other pressure indicators</li> <li>• <b>CONSULT</b> N1-SOP-29.1, EOP Alternate Instrumentation</li> </ul>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Drywell Hydrogen Indications	Containment H2 Ch 11 Ch 12	Required for EAL: Table C-3	<ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of other Drywell/Torus Hydrogen/Oxygen indicators</li> <li>• <b>INCREASE</b> monitoring of other plant status indicators such as: <ul style="list-style-type: none"> <li>○ Reactor power</li> <li>○ Reactor pressure</li> <li>○ Drywell pressure, temperature, airborne contamination</li> <li>○ Drywell radiation levels</li> </ul> </li> <li>• <b>CONSULT</b> N1-SOP-29.1, EOP Alternate Instrumentation</li> </ul>
Torus Hydrogen Indications	Torus H2 Ch 11 Ch 12	Table F-1: • CBP3		
Drywell Oxygen Indications	Containment O2 Ch 11 Ch 12			
Torus Oxygen Indications	Torus O2 Ch 11 Ch 12			
1	Reactor Building Area Temperature Indications	See EOP-5 Table T	Required for EAL:  Table F-1: • RCP1 • CBL5	<p>If available, <b>VERIFY</b> operability of other reactor building temperature indicators in same area</p> <p><b>INCREASE</b> monitoring of other plant status indicators such as:</p> <ul style="list-style-type: none"> <li>▪ Increased primary system leakage</li> <li>▪ Changes in radiation levels, airborne contamination levels</li> <li>▪ Fire Alarms and annunciators</li> </ul> <p>If possible <b>ESTABLISH</b> portable or other monitoring in area, <b>SETUP</b> RP cameras as necessary.</p>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Primary Containment Isolation valve isolation capability	MSIVs RWCU IVs EC IVs Feedwater IV's	Required for EAL:  Table F-1: • RCL3	<b>INCREASE</b> monitoring of other plant status indicators such as: <ul style="list-style-type: none"> <li>▪ Increased primary system leakage</li> <li>▪ Changes in radiation levels, airborne contamination levels</li> <li>▪ Fire Alarms, Annunciators</li> <li>▪ Manual indications of valve position.</li> </ul>
		All primary system containment isolation valves	Table F-1: • RCP1 • CBL3 • CBL5	
1	Offsite AC Power Sources	T-101N T-101S T-10 T-1 T-2	Required for EAL:  SU1.1 SA1.1 SS1.1 SG1.1 CU1.1 CA1.1	<b>TAKE</b> actions per Ops, SOPs as applicable  <b>If necessary DECLARE</b> the appropriate emergency per EPIP-EPP-01.

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Onsite AC Power Sources	PB 102 PB 103 DG 102 DG 103	Required for EAL: SA1.1 SS1.1 SG1.1 CU1.1 CA1.1	<b>TAKE</b> actions per Ops, SOPs as applicable  If necessary <b>DECLARE</b> the appropriate emergency per EPIP-EPP-01.  <b>VERIFY</b> operability of backup power to the TSC
1	Onsite DC Power Sources	Battery Board 11 Battery Board 12	Required for EAL: SS2.1 CU2.1	<b>TAKE</b> actions per Ops, SOPs as applicable.  If necessary <b>DECLARE</b> the appropriate emergency per EPIP-EPP-01.
1	Control Room Annunciators and Indicators	NA	Required for EAL: SU5.1 SA5.1 SS5.1	<b>TAKE</b> actions per Ops, SOPs as applicable  If necessary <b>DECLARE</b> the appropriate emergency per EPIP-EPP-01.

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**Unit 1 Equipment**  
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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	<p>Communications Equipment,</p> <p>Loss of offsite notification capability</p>	<p>PBX Telephones</p> <p>Gaitronics</p> <p>Portable Headsets</p> <p>Radios (Onsite)</p> <p>ENS</p> <p>RECS</p> <p>Offsite Repeaters</p> <p>Offsite Radio Towers</p>	<p>Required for EAL:</p> <p>SU6.1</p> <p>CU6.1</p>	<p><b>IMPLEMENT</b> actions per EPIP-EPP-17</p> <p><b>VERIFY</b> other communications availability such as:</p> <ul style="list-style-type: none"> <li>• For PBX (normal telephones), <b>USE</b> white phones (or phones with prefixes other than 349) which are switched offsite, <b>not</b> through NMP, <b>CALL</b> Offsite Officials to verify capability, or <b>USE</b> radios and or console radios, <b>CALL</b> Offsite Officials to verify capability to communicate</li> <li>• For ENS, <b>VERIFY</b> backup telephone numbers are capable of being used to reach the NRC (may be reportable per 10CFR50.72, consult Licensing and EP)</li> <li>• For RECS, <b>USE</b> backup capabilities and telephone numbers, <b>CALL</b> Offsite Officials to verify capability to communicate</li> <li>• For onsite radios, radio repeaters, and/or radio towers, <b>VERIFY</b> 800 Mhz capability, <b>CALL</b> Offsite Officials to verify capability, <b>VERIFY</b> operability of cell phones, <b>CALL</b> Offsite Officials to verify capability to communicate</li> <li>• <b>If</b> Gaitronics is lost or degraded, <b>VERIFY</b> ability to notify on site personnel using other Unit's Gaitronics in merge. <b>If</b> inoperable, <b>CONSULT</b> with Security and <b>ESTABLISH</b> adhoc notification protocols for the site in the event of an emergency. <b>CONSIDER</b>: <ul style="list-style-type: none"> <li>○ Pri 1 work order if all Public Address capability is lost.</li> <li>○ Limiting work in power block – use radios to communicate PA announcements to areas.</li> <li>○ Single handset failure should be handled through the CAP process</li> </ul> </li> </ul> <p><b>If:</b> All communications are lost</p> <p><b>Then:</b> <b>USE</b> portable satellite phones from the emergency communications kits in control rooms, the TSC, or personal / company provided cell phones with runners,</p>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	SPDS		Required for EAL:  SA5.1  SS5.1	<p><b>VERIFY</b> EIS system operable (log onto EP Website and log onto EIS)</p> <ul style="list-style-type: none"> <li>▪ <b>VERIFY</b> that 708 portion of EIS operable</li> </ul> <p><b>VERIFY</b> Tech Info Line operable</p>
1	Seismic Instrumentation	Unit 2 MRSI and MPSI 2CEC-PNL889  Unit 2 Reactor Building -3 tri-axial peak accelerographs  Unit 1 Seismic Annunciator	Required for EAL:  HU1.1  HA1.1	<p><b>VERIFY</b> that seismic instrumentation will initiate a control room annunciation on indications of ground motion at:</p> <ul style="list-style-type: none"> <li>• Nine Mile Point Unit 2 or</li> <li>• JAF</li> </ul> <p><b>VERIFY</b> capability to access USGS service from the control room via the internet.</p> <ul style="list-style-type: none"> <li>▪ <a href="http://earthquake.usgs.gov/eqcenter/">http://earthquake.usgs.gov/eqcenter/</a></li> <li>▪ Verify that USGS website is updating.</li> </ul> <p>If ground motion is experienced, <b>Then:</b></p> <ul style="list-style-type: none"> <li>• <b>USE</b> USGS to determine magnitude of seismic event within a 10 mile radius of the site.</li> </ul>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Lake Level Instrumentation  Intake Level Instrumentation	PS 74-08	Required for EAL:  HU1.5  HA1.5	<p><b>DETERMINE</b> if visual monitoring is capable of determining level, if so, <b>MONITOR</b> and <b>RECORD</b> Lake Level at regular intervals</p> <p><b>VERIFY</b> operability of lake level monitoring instruments at:</p> <ul style="list-style-type: none"> <li>• Nine Mile Point Unit 2</li> <li>• JAF</li> </ul> <p><b>VERIFY</b> capability to access the NUCWEB</p> <p><b>MONITOR</b> lake level as displayed on the following web page. <a href="http://glakesonline.nos.noaa.gov/glin.shtml?station_info=9052030+Oswego,+NY">http://glakesonline.nos.noaa.gov/glin.shtml?station_info=9052030+Oswego,+NY</a></p> <p><b>CONVERT</b> inches to feet and add to LWD value for actual lake level.</p>
1	Meteorological Tower Indications/Instruments	30' Ft el.  100' Ft el.  200' Ft el.	Required for EAL:  HU1.2  HA1.2  ALL GE"s  PARs	<p><b>USE</b> Dose Assessment Procedure for compensatory measures when meteorological indications unavailable from NMP Met Tower instrumentation.</p>

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**Unit 2 Equipment**  
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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Digital Radiation Monitoring System	DRMS	Required for EAL:  SU7.2  RU1.2  RA1.2	<p><b>MONITOR</b> plant status for changes that may impact release status such as:</p> <ul style="list-style-type: none"> <li>• ID of fuel leaks, (FRI index changes)</li> <li>• Significant changes in main condenser vacuum</li> <li>• Significant changes in off-gas system status (lineups, alternate equipment and so forth)</li> <li>• Significant changes in reactor power</li> <li>• Significant changes in off-gas flow rates</li> </ul> <p>If possible, <b>ESTABLISH</b> portable monitoring areas, <b>SETUP</b> RP cameras as necessary.</p> <p><b>REFER</b> to the following radiation monitor sections. These rad monitors are required to be declared inoperable due to the loss of alarm capability:</p> <ul style="list-style-type: none"> <li>• 2CWS-CAB157</li> <li>• 2OFG-CAB13A/13B</li> <li>• 2LWS-CAB206</li> </ul>



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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Offgas High Radiation Detector/Alarm	2OFG-CAB13A  2OFG-CAB13B  <b>NOTE:</b>  Low flow makes the rad detector inop	Required for EAL:  SU7.2	If one channel inoperable, <b>VERIFY</b> other channels operable.  If all channels inoperable,  <b>Then:</b> <b>COMPLETE</b> sampling per ODCM <b>MONITOR</b> plant status for changes that may impact release status such as: <ul style="list-style-type: none"> <li>• ID of fuel leaks, (FRI index changes)</li> <li>• Significant changes in main condenser vacuum</li> <li>• Significant changes in off-gas system status (lineups, alternate equipment and so forth)</li> <li>• Significant changes in reactor power</li> <li>• Significant changes in off-gas flow rates</li> </ul> If any of the above changes occur, <b>DIRECT</b> an immediate sample of the off-gas process stream to determine necessary actions. If possible, <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Main Stack Monitors	2RMS-CAB 170  (Stack WRGMS)	Required for EAL:  RU1.1  RA1.1  RS1.1  RG1.1	<p>If the channel is inoperable,  <b>Then:</b>  <b>COMPLETE</b> sampling per ODCM</p> <p><b>MONITOR</b> plant status for changes that may impact release status such as:</p> <ul style="list-style-type: none"> <li>• Changes in reactor power</li> <li>• ID of fuel leaks, (FRI index changes)</li> <li>• Significant changes in main condenser vacuum</li> <li>• Significant changes in off-gas system status, or flow rate</li> <li>• Significant changes in ventilation systems inputting to the stack</li> <li>• Significant changes in primary system leaks status or main steam leak status</li> </ul> <p>If any of the above changes occur, <b>DIRECT</b> an immediate sample of the main stack process stream to determine necessary actions.</p> <p>If possible, <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.</p>
1	Radwaste/RB Vent Rad Monitor	2RMS-CAB 180 (VENT WRGMS)	Required for EAL: RU1.1 RA1.1 RS1.1 RG1.1	<p>If the channel is inoperable</p> <p><b>Then:</b>  <b>COMPLETE</b> sampling per ODCM</p> <p><b>MONITOR</b> plant status for changes such as:</p> <ul style="list-style-type: none"> <li>• Identification of increased primary system leakage</li> <li>• Identification of new primary system leaks</li> <li>• Significant changes in Reactor Building D/P, ventilation, or actuation of GTS</li> </ul> <p>If any changes occur, <b>DIRECT</b> an immediate sample of the RB Vent process stream to determine necessary actions.</p> <p>If possible <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.</p>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Service Water Effluent Rad Monitor	2SWP*CAB146A 2SWP*CAB146B	Required for EAL: RU1.2 RA1.2	<p><b>If either</b> channel is inoperable</p> <p><b>Then:</b>  <b>COMPEL</b>TE sampling per ODCM  <b>MONITOR</b> plant status for changes such as :</p> <ul style="list-style-type: none"> <li>• Significant changes in RBCLC makeup rates</li> <li>• Significant changes in Spent Fuel Pool System Status</li> <li>• Significant changes in shutdown cooling system status during shutdowns</li> </ul> <p><b>If</b> any of the above changes occur, <b>DIRECT</b> an immediate sample of the service water process stream to determine necessary actions.  <b>If</b> possible <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.</p>
1	Liquid Effluent Line	2LWS-CAB206	Required for EAL:  RU1.2	<p><b>If</b> the channel is inoperable</p> <p><b>Then:</b>  <b>DISCONTINUE</b> liquid effluent releases, until ODCM requirements are satisfied.</p>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Cooling Tower Blow-down Line	2CWS-CAB157	Required for EAL:  RU1.2  RA1.2	If the channel is inoperable  <b>Then:</b>  <b>COMPLETE</b> sampling per ODCM  <b>MONITOR</b> plant status for changes such as: <ul style="list-style-type: none"> <li>• Unplanned significant increase or decrease in blow-down rates</li> </ul> If any of the above changes occur, <b>DIRECT</b> an immediate sample of the cooling tower blow-down process streams to determine necessary actions.
1	Drywell hi range radiation detectors/monitors	2RMS*RE1A  2RMS*RE1B  2RMS*RE1C  2RMS*RE1D	Required for EAL:  Table F-1: <ul style="list-style-type: none"> <li>• FCL2</li> <li>• RCL5</li> <li>• CBP5</li> </ul>	If one channel inoperable, <b>VERIFY</b> other channels operable.  If all channels inoperable  <b>Then:</b>  <b>VERIFY</b> operability of drywell leakage detection systems such as: <ul style="list-style-type: none"> <li>▪ 2CMS* CAB10A/B</li> <li>▪ Unidentified leakage detection</li> <li>▪ Identified leakage detection</li> </ul> <b>MONITOR</b> plant status for indications of: <ul style="list-style-type: none"> <li>▪ increased primary system leakage</li> <li>▪ fuel clad damage</li> </ul> If any of the above changes occur, <b>DIRECT</b> an immediate sample of: <ul style="list-style-type: none"> <li>▪ primary coolant system for iodine activity</li> <li>▪ drywell airspace</li> </ul>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	All Area Rad Monitors*	Any RMS area radiation monitors (ARMs) unavailable / inoperable	Required for EAL: RU2.2 Table C-3 Table F-1: <ul style="list-style-type: none"> <li>• RCP1</li> <li>• CBL5</li> </ul>	<p><b>MONITOR</b> plant status for changes that may impact radiological status such as:</p> <ul style="list-style-type: none"> <li>• ID of fuel leaks, (FRI index changes)</li> <li>• Significant changes in main condenser vacuum</li> <li>• Significant changes in off-gas system status</li> <li>• Significant changes in ventilation systems status</li> <li>• Significant changes in primary system or secondary system status</li> </ul> <p><b>PERFORM</b> regular RP surveys in areas with inop detectors  <b>If possible ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary. <b>INCREASE</b> survey frequency as required based upon changes in any of the above indications, using response as required by S-RPIP-10.5</p>

\*2RMS-RE109 is administratively retired in place and is not considered Equipment Important to Emergency Response due to its location (ADH Heat Exchanger Room), ADH system being retired in place, and saturation of the detector.

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	RB above refuel floor radiation monitor	2HVR*CAB14A 2HVR*CAB14B	Required for EAL: RA2.1	<p>If one channel inoperable, <b>VERIFY</b> other channels operable.</p> <p>If all channels inoperable,</p> <p>Then:</p> <ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of spent fuel pool level indicators</li> <li>• <b>MONITOR</b> spent fuel pool system status,</li> <li>• <b>PERFORM</b> regular RP surveys on refuel floor,</li> <li>• <b>VERIFY</b> operability of other nearby radiation monitors</li> <li>• <b>MONITOR</b> plant status for changes that may impact radiological status such as: <ul style="list-style-type: none"> <li>○ ID of fuel leaks, (FRI index changes)</li> <li>○ Significant changes in ventilation systems status</li> <li>○ Significant changes in primary system or secondary system status</li> </ul> </li> </ul> <p><b>INCREASE</b> survey frequency as required based upon changes in any of the above indications, using response as required by S-RPIP-10.5.  If possible <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.  <b>VERIFY</b> operability of Stack and Vent WRGMS.</p>
1	Refuel floor rad monitor	2RMS-RE111 2RMS-RE112 2RMS-RE113 2RMS-RE114 2RMS-RE140	Required for EAL: RU2.1 RA2.1	<p>If one channel inoperable, <b>VERIFY</b> other channels operable.</p> <p>If all channels inoperable</p> <p>Then:</p> <ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of spent fuel pool level indicators</li> <li>• <b>MONITOR</b> spent fuel pool system status,</li> <li>• <b>PERFORM</b> regular RP surveys on refuel floor,</li> <li>• <b>VERIFY</b> operability of other nearby radiation monitors</li> </ul> <p><b>INCREASE</b> survey frequency as required based upon changes in any of the above indications, using response as required by S-RPIP-10.5</p> <p>If possible, <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.</p>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Control Room Radiation Monitor	2RMS-RE129	Required for EAL:  RA3.1	<p><b>PERFORM</b> regular RP surveys in the control room,</p> <p><b>INCREASE</b> survey frequency as required based upon changes in any of the above indications, using response as required by S-RPIP-10.5</p> <p>If possible <b>ESTABLISH</b> portable monitoring in area, <b>SETUP</b> RP cameras as necessary.</p>
1	Spent Fuel Pool level	2SFC*LS55A  2SFC*LS55B	Required for EAL:  RU2.1  RA2.2	<p>If one channel inoperable, <b>VERIFY</b> other channels operable.</p> <p>If all channels inoperable,</p> <p><b>Then:</b></p> <ul style="list-style-type: none"> <li>• <b>VERIFY</b> operability of spent fuel pool water level indications , increase monitoring frequency</li> <li>• <b>MONITOR</b> spent fuel pool system status</li> <li>• <b>MONITOR</b> reactor building status for indications of increased leakage</li> </ul> <p>If possible <b>ESTABLISH</b> portable, or other monitoring, in area. <b>SETUP</b> RP cameras as necessary.</p>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Drywell leakage indications  2DER-LS121 (873105)  2DFR-LS126 (873100)	2DER-FR101  2DFR-FR106	Required for EAL:  SU8.1  Table C-2	<b>VERIFY</b> capability to determine leak rate using other means <b>INCREASE</b> monitoring of other plant status indicators such as: <ul style="list-style-type: none"> <li>▪ rise in drywell pressure, temperature, airborne contamination levels</li> </ul>
1	RPV Level Indications	Wide Range Narrow Range Shutdown Range Upset Range Fuel Zone	Required for EAL: SG1.1, SG3.1, CU3.1, CA3.1, CS3.1, CG3.1, CU3.2, CS3.2, CG3.2, CU3.3, CS3.3, CU4.2 Table F-1: <ul style="list-style-type: none"> <li>• FCP1</li> <li>• RCL1</li> </ul>	<b>VERIFY</b> operability of other level indicators <b>CONSULT</b> N2-SOP-78A, EOP Key Parameter Alternate Instrumentation



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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Reactor Power Indications	APRM LPRM SRM	Required for EAL: SU3.1 SA3.1 SS3.1 SG3.1 CU5.1 CG3.2	<b>VERIFY</b> operability of other reactor power indications <b>CONSULT</b> N2-SOP-78A, EOP Key Parameter Alternate Instrumentation
1	Reactor coolant temperature indications, (during shutdown conditions)	Process Comp. Pt RCSTA103  (2RCS-TT23A)  RCSTA105  (2RSC-TT23B)	Required for EAL:  CU4,1  CA4.A  CU4.2	<b>VERIFY</b> operability of other reactor coolant temperature indicators or reactor pressure indications, as specified in N2-OSP-LOG-S@ALL or, N2-OSP-LOG-S004/005  During shutdown conditions <b>VERIFY</b> shutdown cooling system(s) are in service and functioning appropriately

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Supp Pool Temperature Indications	2CMS*TE67AB 2CMS*TE68AB 2CMS*TE69AB 2CMS*TE70AB	Required for EAL: SG3.1 Table F-1: • CBP4	<b>VERIFY</b> operability of other temperature indicators in each quadrant ,  If other quadrant temperature indications are unavailable, <b>CONSULT</b> any other suppression pool temperature for guidance  <b>CONSULT</b> N2-SOP-78A, EOP Key Parameter Alternate Instrumentation
1	Reactor Pressure Indications	2ISC*PR1623A (2ISC*PT6A) 2ISC*PR1623B (2ISC*PT6B)	Required for EAL: SG3.1 CA4.1 Table F-1: • CBP1	<b>VERIFY</b> operability of other reactor pressure indicator  <b>CONSULT</b> N2-SOP-78A, EOP Key Parameter Alternate Instrumentation

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Drywell Pressure Indications	2CMS*PI1A (2CMS*PT1A) 2CMS*PI1B (2CMS*PT1B) 2CMS*PI2A (2CMS*PT2A) 2CMS*PI2B (2CMS*PT2B)	Required for EAL: Table C-3 Table F-1: <ul style="list-style-type: none"> <li>• RCL2</li> <li>• CBL1</li> <li>• CBL2</li> <li>• CBP2</li> </ul>	<b>VERIFY</b> operability of other Drywell pressure indicators  <b>CONSULT</b> N2-SOP-78A, EOP Key Parameter Alternate Instrumentation

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Drywell Hydrogen Indications	2CMS*AIX6A (2CMS*AIT6A) 2CMS*AR6B (2CMS*AIT6B)	Required for EAL:  Table C-3  Table F-1: • CBP3	<b>VERIFY</b> operability of other drywell hydrogen indicators  <b>INCREASE</b> monitoring of other plant status indicators such as: <ul style="list-style-type: none"> <li>▪ reactor power</li> <li>▪ reactor pressure</li> <li>▪ drywell pressure, temperature, airborne contamination</li> <li>▪ drywell radiation levels</li> </ul> <b>CONSULT</b> N2-SOP-78A, EOP Key Parameter Alternate Instrumentation
	Supp Chamber Hydrogen Indications	2CMS*AIX6A (2CMS*AIT6A) 2CMS*AR6B (2CMS*AIT6B)		
	Drywell Oxygen Indications	2CMS*AIX71A (2CMS*AIT71A) 2CMS*AR71B (2CMS*AIT71B)		
	Supp Chamber Oxygen Indications	2CMS*AIX71A (2CMS*AIT71A) 2CMS*AR71B (2CMS*AIT71B)		

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Reactor Building Area Temperature Indications	SEE N2-EOP-6 Table 28-3	Required for EAL:  Table F-1: <ul style="list-style-type: none"> <li>• RCP1</li> <li>• CBL5</li> </ul>	If available, <b>VERIFY</b> operability of other reactor building temperature indicators in same area <b>INCREASE</b> monitoring of other plant status indicators such as: <ul style="list-style-type: none"> <li>▪ Increased primary system leakage</li> <li>▪ Changes in radiation levels, airborne contamination levels</li> <li>▪ Fire Alarms and annunciators</li> </ul> If possible <b>ESTABLISH</b> portable or other monitoring in area, <b>SETUP</b> RP cameras as necessary.
1	Primary Containment Isolation valve isolation capability	MSIVs RWCS IVs RCIC IVs Feedwater IV's	Required for EAL:  Table F-1: <ul style="list-style-type: none"> <li>• RCL3</li> </ul>	<b>INCREASE</b> monitoring of other plant status indicators such as: <ul style="list-style-type: none"> <li>▪ Increased primary system leakage</li> <li>▪ Changes in radiation levels, airborne contamination levels</li> <li>▪ Fire Alarms, Annunciators</li> <li>▪ Manual indications of valve position.</li> </ul>
		All primary system containment isolation valves	Table F-1: <ul style="list-style-type: none"> <li>• RCP1</li> <li>• CBL3</li> <li>• CBL5</li> </ul>	

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	AC Power Sources	Reserve Station Transformer A Reserve Station Transformer B Auxiliary Boiler Transformer 2EGS*EG1 2ENS*SWG101 2EGS*EG3 2ENS*SWG103 2EGS*EG2 2ENS*SWG102	Required for EAL: SU1.1 SA1.1 SS1.1 SG1.1 CU1.1 CA1.1	If necessary <b>DECLARE</b> the appropriate emergency per EPIP-EPP-02.
1	Onsite DC Power Sources	2BYS*SWG002A 2BYW*SWG002B	Required for EAL: SS2.1 CU2.1	If necessary <b>DECLARE</b> the appropriate emergency per EPIP-EPP-02.
1	Control Room Annunciators and Indicators	NA	Required for EAL: SU5.1 SA5.1 SS5.1	If necessary <b>DECLARE</b> the appropriate emergency per EPIP-EPP-02.

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Communications Equipment, Loss of offsite notification capability	PBX Telephones Gaitronics Portable Headsets Radios (Onsite) ENS RECS Offsite Repeaters Offsite Radio Towers	Required for EAL: SU6.1 CU6.1	<p><b>IMPLEMENT</b> actions per EPIP-EPP-17</p> <p><b>VERIFY</b> other communications availability such as:</p> <ul style="list-style-type: none"> <li>• For PBX (normal telephones), <b>USE</b> white phones (or phones with prefixes other than 349) which are switched offsite, <b>not</b> through NMP, <b>CALL</b> Offsite Officials to verify capability, or use radios and or console radios, <b>CALL</b> Offsite Officials to verify capability to communicate</li> <li>• For ENS, <b>VERIFY</b> backup telephone numbers are capable of being used to reach the NRC (may be reportable per 10CFR50.72, consult Licensing and EP)</li> <li>• For RECS, <b>USE</b> backup capabilities and telephone numbers, <b>CALL</b> Offsite Officials to verify capability to communicate</li> <li>• For onsite radios, radio repeaters, and/or radio towers, verify 800 Mhz capability, <b>CALL</b> Offsite Officials to verify capability, <b>VERIFY</b> operability of cell phones, <b>CALL</b> Offsite Officials to verify capability to communicate</li> <li>• <b>If</b> Gaitronics is lost or degraded, <b>VERIFY</b> ability to notify on site personnel using other Unit's Gaitronics in merge. <b>If</b> inoperable, <b>CONSULT</b> with Security and <b>ESTABLISH</b> ad-hoc notification protocols for the site in the event of an emergency. Consider:             <ul style="list-style-type: none"> <li>○ PRI 1 work order if all Public Address capability is lost.</li> <li>○ Limiting work in power block – use radios to communicate PA announcements to areas.</li> <li>○ Single handset failure should be handled through the CAP process</li> </ul> </li> </ul> <p><b>If:</b> All communications are lost</p> <p><b>Then:</b> <b>USE</b> portable satellite phones from the emergency communications kits in control rooms, the TSC, or personal / company provided cell phones with runners,</p>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	SPDS / Plant Computer	LWS Computer  PMS Computer	Required for EAL:  SA5.1  SS5.1	<b>VERIFY</b> Emergency Information System (EIS) system operable (log onto EP Website and log onto EIS) <b>VERIFY</b> Tech Info Line operable <b>VERIFY</b> 708 portion of EIS operable  Notification to NRC for loss of emergency assessment capability is required if SPDS has been lost for 8 hrs or more.
1	Seismic Instrumentation	2ERS-SZT1	Required for EAL:  HU1.1  HA1.1	<b>VERIFY</b> that seismic instrumentation will initiate a control room annunciation on indications of ground motion at: <ul style="list-style-type: none"> <li>• Nine Mile Point Unit 1 or</li> <li>• JAF</li> </ul> <b>VERIFY</b> capability to access USGS service from the control room via the internet. <ul style="list-style-type: none"> <li>▪ <a href="http://earthquake.usgs.gov/eqcenter/">http://earthquake.usgs.gov/eqcenter/</a></li> <li>▪ Verify that USGS website is updating.</li> </ul> If ground motion is experienced, <b>Then:</b> <ul style="list-style-type: none"> <li>• <b>USE</b> USGS to determine magnitude of seismic event within a 10 mile radius of the site.</li> </ul>



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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
1	Intake Level Instrumentation	2SWP-LIT502  (SW Intake)	Required for EAL:  HU1.5  HA1.5	<b>VERIFY</b> 2SWP*MOV77A or B remains operable on low level.  <b>VERIFY</b> capability to access the internet and implement N2-OSP-LOG-M001
1	Wind Speed  Wind Direction  other meteorological monitoring capability	30' Ft el.  200' Ft el.	Required for EAL:  HU1.2  HA1.2  ALL GE's  PARs	<b>USE</b> Dose Assessment Procedure for compensatory measures when meteorological information is unavailable from NMP instrumentation.

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
2	Equipment /supplies associated with:  S-EDMG-01  S-EDMG -02  N1-DRP-OPS-001  N2-DRP-OPS-001  S-DRP-OPS-003	B5b Diesel / Pump  B5b Trailer including trailer, hoses, tools, spray nozzles and so forth  Power Supplies for actuating solenoids  Hoses, Spray Nozzles at Unit 1 & 2 on refuel floor	Assure continued compliance with NRC regulations	<b>CONSIDER</b> impact on ability to implement B5b requirements and <b>PRIORITIZE</b> appropriately. Loss of B5b pump would be considered a significant loss of B5b capability per NRC Manual Chapter 0609 Appendix L, B5b Significance Determination Process
2	TSC/OSC Ventilation	When performing TSCAS-212-MASTER or FLT-212-40 if determined UNSAT  OR  Any other time TSC/OSC Ventilation deemed inoperable	Maintain TSC Operable	<b>VERIFY</b> habitability of TSC/OSC, <ul style="list-style-type: none"> <li>• Complete habitability checks per EPIP-EPP-13 prior to facility activation</li> </ul> If TSC/OSC determined <b>not</b> habitable,  <b>Then:</b> <ul style="list-style-type: none"> <li>• <b>NOTIFY</b> EP Manager</li> <li>• If facility is being activated, as necessary, <b>DIRECT</b> alternate TSC/OSC activities defined in EPIP-EPP-13.</li> </ul>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
2	TSC/OSC Power Supply		Maintain TSC Operable	<p><b>VERIFY</b> habitability of TSC/OSC,</p> <ul style="list-style-type: none"> <li>• Complete habitability checks per EPIP-EPP-13 prior to facility activation</li> </ul> <p><b>If</b> TSC/OSC determined <b>not</b> habitable,</p> <p><b>Then:</b></p> <ul style="list-style-type: none"> <li>• <b>NOTIFY</b> EP Manager</li> <li>• <b>If</b> facility is being activated, as necessary, <b>DIRECT</b> alternate TSC/OSC activities defined in EPIP-EPP-13.</li> </ul>
2	TSC/OSC Backup Power Supply	NMP Unit 1 Power Board 16A	Maintain TSC Operable	<p><b>VERIFY</b> habitability of TSC/OSC,</p> <ul style="list-style-type: none"> <li>• <b>COMPLETE</b> habitability checks per EPIP-EPP-13 prior to facility activation</li> </ul> <p><b>If</b> TSC/OSC determined <b>not</b> habitable,</p> <p><b>Then:</b></p> <ul style="list-style-type: none"> <li>• <b>NOTIFY</b> EP Manager</li> <li>• <b>If</b> facility is being activated, <b>DIRECT</b> alternate TSC/OSC activities defined in EPIP-EPP-13.</li> </ul>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
2	Offsite response capability:	Sirens Tone Alert Radios Emergency Alert System (EAS) Reverse 911	Required for offsite notification capability	<b>IMPLEMENT</b> actions required by EPIP-EPP-30

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
2	Offsite communications and response capability	<b>Offsite:</b> <ul style="list-style-type: none"> <li>• Radio towers and repeaters</li> <li>• ENS</li> <li>• HPN</li> <li>• RECs (either state or county)</li> <li>• Radio Communications to County 911</li> <li>• Commercial Phone System</li> <li>• Satellite Phone</li> <li>• Cell Phones</li> </ul>	Required for offsite communications capability	<b>COORDINATE</b> with Maintenance and contracted vendor (Mid State Communications) to restore.  <b>VERIFY</b> other communications means available
2	Offsite response capability	A significant natural hazard or other event of similar scope and impact occurs <b>and either</b> <ul style="list-style-type: none"> <li>• The county has provided information that they are unable to implement protective measures for the public if an actual emergency were to occur (e.g., key evacuation routes impassable, loss of infrastructure)</li> </ul> <b>or</b> <ul style="list-style-type: none"> <li>• Personnel from offsite are required to activate the TSC, OSC or EOF and <b>not</b> able to within one hour if an emergency were to occur</li> </ul> <b>or</b> <ul style="list-style-type: none"> <li>• The TSC, OSC or EOF could <b>not</b> be activated within one hour</li> </ul> <b>or</b> <ul style="list-style-type: none"> <li>• The county has provided information that they are <b>not</b> able to provide fire, ambulance or law enforcement services if requested</li> </ul>	Required for Emergency Response capability	<ul style="list-style-type: none"> <li>• <b>NOTIFY</b> EP Manager</li> <li>• <b>WORK</b> with the appropriate authorities to restore capability as soon as practical.</li> </ul>

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CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
2	Joint Information Center, power source	Normal Power Backup Power	Supplies Power to ERF, assures ERF Capable of providing function	<p><b>Compensatory Measures needed:</b></p> <ul style="list-style-type: none"> <li>• <b>VERIFY</b> Backup power source starts and ABT transfers (Manual start and manual transfer as necessary)</li> <li>• <b>VERIFY</b> fuel delivery is available and provided to assure continuous power source availability.</li> </ul> <p>When normal power is restored,</p> <ul style="list-style-type: none"> <li>• <b>VERIFY</b> ABT transfers (15 minute delay to assure grid stability) to normal source.</li> <li>• <b>VERIFY</b> Diesel enters cooldown mode and returns to standby</li> </ul> <p>As applicable:</p> <ul style="list-style-type: none"> <li>• <b>DETERMINE</b> habitability of the facility.</li> <li>• If necessary arrange for alternate facilities, <b>CONTACT</b> business continuity for assistance (ad hoc)</li> </ul>
2	Joint Information Center, Facility Services	JIC facility services	Water unavailable Sewage system unavailable	<p>As applicable:</p> <ul style="list-style-type: none"> <li>• <b>OBTAIN</b> backup water for sewage using vendor info in JIC utility room</li> <li>• <b>VERIFY</b> Potable water sources remain available or <b>CONTACT</b> vendor to supply more</li> <li>• Have septic /sewage system pumped using vendor info in JIC utility room</li> <li>• <b>DETERMINE</b> habitability of the facility.</li> <li>• If necessary <b>ARRANGE</b> for alternate facilities, <b>CONTACT</b> business continuity for assistance (ad hoc)</li> </ul>

**ATTACHMENT 3**  
**Site Emergency Plan Equipment**  
Page 6 of 7

CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
2	Emergency Operations Facility, power source	Normal Power Backup Power	Supplies Power to ERF, assures ERF Capable of providing function	<ul style="list-style-type: none"> <li>• <b>VERIFY</b> Backup power source starts and ABT transfers (Manual start and manual transfer as necessary)</li> <li>• <b>VERIFY</b> fuel delivery is available and provided to assure continuous power source availability.</li> </ul> <p>When normal power is restored,</p> <ul style="list-style-type: none"> <li>• <b>VERIFY</b> ABT transfers (15 minute delay to assure grid stability) to normal source.</li> <li>• <b>VERIFY</b> Diesel enters cooldown mode and returns to standby</li> </ul> <p>As applicable:</p> <ul style="list-style-type: none"> <li>• <b>DETERMINE</b> habitability of the facility.</li> <li>• If necessary <b>ARRANGE</b> for alternate facilities, <b>CONTACT</b> business continuity for assistance (ad hoc)</li> </ul>
2	Emergency Operations Facility, Services	EOF facility services	Water unavailable Sewage system unavailable	<p>As applicable:</p> <ul style="list-style-type: none"> <li>• <b>OBTAIN</b> backup water for sewage using vendor info in JIC utility room</li> <li>• <b>VERIFY</b> Potable water sources remain available or <b>CONTACT</b> vendor to supply more</li> <li>• <b>HAVE</b> septic /sewage system pumped using vendor info in JIC utility room</li> <li>• <b>DETERMINE</b> habitability of the facility.</li> <li>• If necessary <b>ARRANGE</b> for alternate facilities, <b>CONTACT</b> business continuity for assistance (ad hoc)</li> </ul>

**ATTACHMENT 3  
Site Emergency Plan Equipment  
Page 7 of 7**

CAT	Parameter	Identifier	Reason	Compensatory Measures needed:
2	ERO Notification	ERO Notification Service Provider	Used to notify the ERO	<p>If ERONS function is malfunctioning or lost , <b>Then:</b></p> <ul style="list-style-type: none"> <li>• <b>UTILIZE</b> alternate contact methods per EPIP-EPP-20</li> <li>• <b>NOTIFY</b> each Control Room, the NRC resident, the PGM and the VP</li> <li>• <b>VERIFY</b> that vendor understands importance of correcting issue</li> <li>• <b>VERIFY</b> notice to site is posted by Site Communications when system is out and when system has been restored</li> <li>• <b>COMMUNICATE</b> return-to-service to Control Room, NRC resident, PGM and VP.</li> </ul>



**ATTACHMENT 4  
Functionality Check  
Page 1 of 4**

Emergency Response Facility Functionality Evaluation
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Facility: <input type="checkbox"/> EOF <input type="checkbox"/> TSC/OSC <input type="checkbox"/> JIC	Date:	Time:
Reason for Evaluation: <input type="checkbox"/> Monthly review <input type="checkbox"/> Pre-drill preparation <input type="checkbox"/> Post Event Review <input type="checkbox"/> Other (Explain) _____		

**A. General Information**

1. This form is to provide guidance for making evaluations regarding the ability of an Emergency Response Facility (ERF) to perform design functions to support the Nine Mile Point Site Emergency Plan.
2. There may be situations where an ERF is determined to be degraded in one or more areas, but still functional for a given set of conditions. When such a situation occurs, document the details on this form and inform EP Manager.

**ATTACHMENT 4**  
**Functionality Check**  
**Page 2 of 4**

**B. Electrical Power (All Facilities)****Required for full ERF functionality:**

- Normal power is available to the facility.  
**or**  
 An Alternate power source is available to the facility.

**Compensatory measures to restore functionality:**

1. **If** Normal or Alternate power is available, **then** functionality is maintained.

**Additional action requirements:**

2. **If** Normal power is lost and a Diesel Generator is supplying power (or available to supply power when needed), **then** (for the EOF/JIC only) **MONITOR** fuel levels periodically, **ARRANGE** for refill

Electrical Power Functional?

Yes  No  Degraded **C. Communications and Electronics****Required for full ERF functionality:**

- Computer / data access to support assessing plant condition (SPDS, ERDS, EIS) and (EOF Only)- dose projections  
**and**  
 Voice communications to on-site and off-site personnel and agencies.  
**and**  
 (As applicable) Dedicated lines for HPN, ENS, ED Hotline and ERDS (TSC-only)

**Compensatory measures to restore functionality:**

1. **If** computer systems are unavailable, **then** data can be obtained via phone and computers and (EOF only) dose assessment software can be used on laptops or straight off the computer hard drive. Functionality is maintained. **CALL** ext. 4300 and **ENTER** a trouble ticket.
2. Cellular phones, satellite phones, spectra-link, radios, radio consoles and Gaitronics are alternate communication methods. **CALL** ext. 4300 and **ENTER** a trouble ticket.
3. **If** a normal notification method (RECS, ENS, HPN) is unavailable, **then** Backup telephones, Radios and faxes are alternate means of notifications. (**CALL** ext. 4300, **ENTER** ticket)
4. Determine backup methods to access dose assessment software for dose projections.

**ATTACHMENT 4**  
**Functionality Check**  
**Page 3 of 4**

**Additional action requirements:**

1. Dedicated lines for HPN, ENS, and ERDS are separate functions (from general voice communications) to be considered during evaluation, but backup methods can normally be established via commercial phone lines. (**CALL** ext. 4300 and **ENTER** a trouble ticket)

Communications and Data Systems for Assessment - Functional?

Yes  No  Degraded

**D. Ventilation (TSC / OSC Only)****Required for full TSC/OSC functionality:**

- Ventilation operates and maintains positive facility pressure in the filter(emergency) mode

**Compensatory measures to restore full ventilation functionality:**

1. If dampers are found out of position or otherwise found **not** operable, **then** this does **not** indicate loss of functionality unless the dampers **cannot** be manually manipulated to maintain the required positive pressure. (Contact maintenance for repair)
2. TSC Functionality is maintained if the ventilation system **cannot** maintain area temperatures until such time that the TSC Manager or EP Staff determine that conditions warrant use of stay times per the Industry Safety Manual.

**Additional action requirements:**

1. Ventilation may **not** be functional on loss of certain fans that would prevent the capability of filtering and maintaining positive pressure.
2. Problems with dampers may prevent alignment in one or both modes.
3. For ventilation problems where ventilation functionality is in question, **CONTACT** the system engineer for evaluation assistance.

TSC/OSC Ventilation Functional?

Yes  No  Degraded

**ATTACHMENT 4  
Functionality Check  
Page 4 of 4**

**E. Environmental Conditions**

**Required for full ERF functionality:**

- The facility environmental conditions remain adequate to conduct business in a safe manner with all normal amenities, lighting and ventilation included.

**Compensatory measures to restore functionality:**

1. Temporary lighting may be used if installed lighting is insufficient or failed.
2. If fire suppression system is unavailable, functionality is maintained.
3. Functionality is maintained on loss of heating/cooling. Fans and or smoke removal fans may be used and airlock doors may be blocked open (following breach permit guidelines) verify **no** adverse radiological conditions occurring.
4. If restroom facilities are unavailable, functionality is maintained. Use local resources, and/or renting of portable facilities. Contact B & G and EP for assistance.
5. Leaks in roofs from rain or plumbing problems do **not** result in a loss of functionality. Contact B & G and EP staff for assistance in resolution.

**Additional action requirements:**

None.

Environmental Conditions Functional?      Yes  No  Degraded

Evaluation Details:

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CR/AI Number(s): \_\_\_\_\_

**OVERALL FUNCTIONALITY OF THE EMERGENCY RESPONSE FACILITY IS  
EVALUATED USING SECTIONS B THROUGH E ABOVE AS INPUT.**

Overall Facility Functional?      Yes  No  Degraded

Justification: \_\_\_\_\_

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Evaluator (Print /Signature): \_\_\_\_\_ Date: \_\_\_\_\_

EP Manager (Print /Signature): \_\_\_\_\_ Date: \_\_\_\_\_

**NOTE: Attach this completed form electronically to any CR's, CA's, AIs. Forward original to the EP Manager.**

**Position Responsibilities / Task**

- Activate the Facility.
- Manage the operation of the facility.
- Assist offsite agency personnel responding to the facility.
- Coordinate integration of the NRC Site Team.
- Assist with emergency classification.
- Support the completion of timely offsite event notifications to State and local authorities.
- Evaluate conditions and determine recommendations for PARs.
- Assist in the development of recovery plans.
- Participate in the Inter-Facility briefing to communicate and obtain event and response information.
- Provide input for facility briefs and updates.

Section 1, Initial Actions

- 1.1 Mobilization
- 1.2 Activation

Section 2, Ongoing Actions

- 2.1 General Operations
- 2.2 Preparations for 24 hour Staffing
- 2.3 Termination and Recovery
- 2.4 Shift Turnover

Section 3, Situational Actions

- 3.1 NRC Site Team Interface

Section 4, Closeout Actions

**NOTES:** Steps in this checklist may be performed in an order other than listed or they may be omitted if not applicable.

Incoming Shift Relief individuals perform appropriate steps of Initial Actions to take over position responsibilities.

Contact numbers for ERO positions and facilities are in the Emergency Phone Directory.

<b>1</b>	<b><u>INITIAL ACTIONS</u></b>	
<b>1.1</b>	<b>Mobilization</b>	
1.1.1	Implement this checklist per CNG-EP-1.01-1018, EOF Operations.	<b>Tab 1</b>
1.1.2	Print your name and today's date to indicate that you are the individual performing this checklist:	
<p><b>Name:</b> _____ <b>Date:</b> _____</p>		

<p>1.1.3 Prepare to assume your assigned duties as follows:</p>	
<p>A. Print your name on the EOF Staffing Board.</p>	
<p>B. Don your position nametag.</p>	
<p>C. Obtain any other supplies needed to perform your assigned tasks.</p>	
<p>D. <b>IF</b> your position uses computer, <b>THEN</b> start and/or sign in on computer and verify it is functioning properly.</p>	
<p>1.1.4 Initiate and maintain a position log using EP-Form-ALL01, Emergency Response Log, to document significant actions, decisions and communications related to your position.</p>	<p><b>Tab 2</b></p>
<p>1.1.5 Inform the ED of your arrival.</p>	
<p><b>1.2 Activation</b></p>	
<p>1.2.1 Activate or direct staff to activate, monitors, projections screens, other facility displays and communications equipment.</p>	
<p><b>NOTES:</b> [CCNPP, GNP Only] Minimum staffing of the facility is to occur within 60 minutes of event declaration.</p> <p>[NMP Only] Minimum staffing of the facility is to occur within 60 minutes of ERO Notification (ERONS Activation).</p> <p>1.2.2 With concurrence from the ED, declare the EOF activated within 15 minutes of achieving minimum staffing, when the following conditions are met:</p>	
<p><b>NOTE:</b> In the event that a qualified ERO member is not available to fill a position, an individual considered capable of fulfilling the position's responsibilities may be assigned to the position upon approval of the ED while attempts are made to obtain a qualified ERO member.</p> <p>A. Minimum staff is present and are ready to assume duties. EOF Minimum Staffing includes:</p> <ul style="list-style-type: none"> <li>• Emergency Director (ED) <input type="checkbox"/></li> <li>• EOF Manager <input type="checkbox"/></li> <li>• State/Local Communicator <input type="checkbox"/></li> <li>• Technical Advisor <input type="checkbox"/></li> <li>• Radiological Assessment Coordinator <input type="checkbox"/></li> <li>• [GNP Only] OMT Members (4) <input type="checkbox"/></li> </ul> <p><b>"The EOF Min Staffing was met @: _____ (time)"</b></p>	

<p>B. Facility equipment is available to support response.</p>	
<p>C. An initial briefing of the EOF staff has been conducted by the EOF Manager or ED. Initial briefing should include:</p> <ul style="list-style-type: none"> <li>• Current emergency classification, cause of event and corrective actions being taken or in-progress</li> <li>• Current plant status, i.e., operating, shutdown, reduced power, etc.</li> <li>• Onsite personnel status of injuries, contaminations, exposures, etc.</li> <li>• Whether the event involves radioactive releases</li> <li>• Expectations (follow procedures, maintain noise levels, etc.)</li> <li>• Special instructions</li> <li>• Inform staff that anyone should call "Attention for Update" and provide important new information as they become aware of it.</li> </ul>	
<p>1.2.3 Announce to the EOF staff that you are the EOF Manager and that:  <b>"The EOF has been declared Activated @ _____ hr."</b></p>	
<p>1.2.4 Inform, or direct the Ops Communicator- EOF to inform, other emergency response facilities that the EOF has been activated.</p>	
<p>1.2.5 Direct the ENS Communicator to report EOF activation to the NRC.</p>	
<p>1.2.6 Fully Staff the EOF</p>	
<p>A. Verify the arrival of Non Minimum EOF Staff:</p> <ul style="list-style-type: none"> <li>• Ops Communicator - EOF _____</li> <li>• Admin / Logistics Coordinator _____</li> <li>• Administrative Staff (2) _____</li> <li>• EOF/JIC IT Specialist _____</li> <li>• Offsite Agency Coordinator _____</li> <li>• State Liaison _____</li> <li>• County Liaison (1 per county) _____</li> <li>• HPN Communicator _____</li> <li>• Dose Assessor (2) _____</li> <li>• Offsite Monitoring Team Coordinator _____</li> <li>• <b>[NMP Only]</b> EIS Operator _____</li> </ul>	

<p>B. IF any position(s) are not filled, THEN use the Emergency Telephone Directory to call, or direct staff to call qualified individuals to fill the position.</p>	
<p><b>NOTES:</b> Based on needs extra personnel may be used to assist EOF staff. Individuals with an expertise in problem areas should be retained or called in to assist with emergency response.</p> <p>Consider establishing relief shift prior to releasing extra personnel. See section 2.2 for guidance.</p> <p>C. Personnel responding to the EOF in excess of the normal staffing should be directed to either:</p> <ul style="list-style-type: none"> <li>• Standby in a location that minimizes interference with required facility functions.</li> <li>• Provide assistance as directed.</li> <li>• Report home and stand by, awaiting further instructions if needed to support emergency response or shift relief.</li> </ul>	
<p>1.2.7 WHEN the ED assumes over all command and control of event THEN ensure state, county and NRC are informed.</p>	
<p><b>2 ONGOING ACTIONS</b></p>	
<p><b>2.1 General Operations</b></p>	
<p>2.1.1 Coordinate with the EOF Technical Advisor to assist ED with emergency classification.</p>	<p><b>EAL Chart</b></p>
<p><b>NOTE:</b> Consider the following changes as triggers to review for potential changes in PARs:</p> <ul style="list-style-type: none"> <li>• A change in classification level</li> <li>• A change to any Fission Product Barriers status</li> <li>• Changes in release status or magnitude of release</li> <li>• Changes in dose projections</li> <li>• Changes in meteorological conditions (wind shift / stability class)</li> </ul> <p>2.1.2 Coordinate with the Radiological Assessment Coordinator (RAC) to:</p>	
<p>A. Evaluate the appropriate PAR per CNG-EP-1.01-1013, Emergency Classification and PAR, and station specific attachment for PAR Decision.</p>	<p><b>Tab 3</b></p>
<p>B. Ensure the ED is aware of new PAR evaluations.</p>	
<p>2.1.3 Coordinate with the State/County Communicator to ensure required notifications are completed on time.</p>	



2.1.4	Oversee EOF Operations:											
A.	Assist in completing the tasks listed in the ED's Checklist as directed.											
B.	Monitor EOF status boards and electronic displays to ensure they are up to date, complete and accurate.											
C.	Periodically (at least hourly) verify that the EOF is accomplishing the following: <ul style="list-style-type: none"> <li>• Station requests for assistance are being supported.</li> <li>• Adequate offsite radiological assessment is being performed.</li> </ul>											
D.	Ensure you and the EOF Coordinators maintain communications with counterparts in other facilities, as appropriate.											
<table border="1"> <thead> <tr> <th>EOF Position</th> <th>Counterparts</th> </tr> </thead> <tbody> <tr> <td>EOF Manager</td> <td>TSC Manager JIC Manager</td> </tr> <tr> <td>EOF Technical Advisor</td> <td>TSC Operations Director JIC Technical Advisor</td> </tr> <tr> <td>EOF Admin / Logistics Coordinator</td> <td>TSC Manager JIC Admin / Logistics Coordinator</td> </tr> <tr> <td>Radiological Assessment Coordinator</td> <td>RP Director</td> </tr> </tbody> </table>		EOF Position	Counterparts	EOF Manager	TSC Manager JIC Manager	EOF Technical Advisor	TSC Operations Director JIC Technical Advisor	EOF Admin / Logistics Coordinator	TSC Manager JIC Admin / Logistics Coordinator	Radiological Assessment Coordinator	RP Director	
EOF Position	Counterparts											
EOF Manager	TSC Manager JIC Manager											
EOF Technical Advisor	TSC Operations Director JIC Technical Advisor											
EOF Admin / Logistics Coordinator	TSC Manager JIC Admin / Logistics Coordinator											
Radiological Assessment Coordinator	RP Director											
2.1.5	Provide assistance to offsite agency (state, local, FEMA, etc.) personnel responding to the facility:											
A.	Arrange for Admin staff and EOF/JIC IT Specialist to assist arriving agency personnel, if necessary.											
B.	Periodically, confer with agency personnel to determine if further support is needed.											
2.1.6	Coordinate logistics support for the EOF response.											
A.	Confer with the ED and EOF Coordinators to determine if additional resources (personnel, documents or equipment) are needed to support ongoing actions.											
B.	Direct the Admin / Logistics Coordinator to make arrangements to obtain needed resources.											

<p><b>NOTE:</b> The ED will as conditions dictate, initiate an Inter-Facility Briefing.</p> <p>2.1.7 Participate in the Inter-Facility Briefing with the following ERO members:</p> <ul style="list-style-type: none"> <li>• ED TSC Manager</li> <li>• OSC Manager JIC Manager</li> <li>• Shift Manager (if available) Company Spokesperson (if available)</li> </ul>	
<p>A. Be prepared to discuss:</p> <ul style="list-style-type: none"> <li>• Current EOF priorities and the status of actions being taken</li> <li>• Offsite actions being taken and/or issues</li> <li>• Need for additional resources</li> </ul>	
<p>2.1.8 EOF Briefings</p>	
<p><b>NOTE:</b> Facility briefings should be conducted as needed (or approximately every 60 minutes as determined by the ED).</p> <p>A. Assist the ED in scheduling and conducting the EOF briefings.</p>	
<p>B. Provide advanced notice to EOF staff to prepare for briefing approximately 5 minutes before briefing.</p>	
<p>C. Prepare for briefings using the EOF Manager's portion of EP-Form-EOF02, Emergency Operations Facility (EOF) Briefing Guidelines.</p>	<b>Tab 4</b>
<p>2.1.9 <b>IF</b> informed that an NRC Site Team has been dispatched to the station, <b>THEN</b> follow guidance in section 3.1 NRC Site Team Interface.</p>	
<p>2.1.10 <b>IF</b> the EOF is, or becomes uninhabitable, <b>THEN</b> the Emergency Director will transfer Command and Control responsibility back to the Control Room. (IER 13-10, Rec 5h)</p>	
<p>A. The following are the preferred alternative locations for EOF personnel in the event the EOF becomes uninhabitable or otherwise unavailable:</p>	
<ul style="list-style-type: none"> <li>• For Calvert Cliffs, consider relocation to the College of Southern Maryland, Prince Frederick Campus, 115 J.W. Williams Road, Prince Frederick, Md.</li> <li>• For Ginna, consider relocation to the Nine Mile Point EOF, located on County Route 176, just outside Fulton, NY, adjacent to the Oswego County Airport.</li> <li>• For Nine Mile Point, consider relocation to the Ginna EOF, located at 1255 Research Forest, Macedon, NY</li> </ul>	

<p><b>2.2 Preparations for 24 hour Staffing</b></p>	
<p><b>NOTE:</b> Initial shift intervals should be adjusted based on event start time and fatigue of current shift. For example: If event occurs at 6PM intervals may be set at 8 hours and increased later to avoid excess fatigue.</p> <p>2.2.1 Confer with the ED to determine:</p> <ul style="list-style-type: none"> <li>• The need to prepare 24 hour staffing based on event.</li> <li>• Start time for 2<sup>nd</sup> Shift: _____</li> </ul>	
<p>2.2.2 <b>IF</b> it is determined that planning for 24 hour staffing is necessary, <b>THEN:</b></p>	
<p>A. Direct the Admin and Logistics Coordinator to have EP-Form-EOF03, EOF Staffing Roster, started, filling in names of individuals currently filling emergency response roles.</p>	<p><b>Tab 5</b></p>
<p>B. Inform the JIC Manager of the need to plan for 24 hour staffing and provide admin assistance to the JIC, as necessary, to complete relief callout.</p>	
<p>C. Confer with the TSC Manager to determine which ERO Team will be the primary reliefs.</p>	
<p>D. Provide time of shift relief and primary relief team information to EOF Admin / Logistics Coordinator and JIC Manager.</p>	
<p>E. Instruct EOF Coordinators to inform the EOF Admin staff of any supplemental personnel (non Standard ERO positions) needed to be added to relief EOF Staffing Roster.</p>	
<p>F. Continue to oversee EOF Admin Staff's preparations for 24 hour staffing, resolving issues as necessary.</p>	
<p><b>2.3 Termination and Recovery</b></p>	
<p>2.3.1 <b>WHEN</b> the need for immediate mitigative actions has been met and time allows, <b>THEN:</b></p>	
<p>A. Recommend planning for termination or entry into recovery to the Emergency Director.</p>	
<p>B. <b>WHEN</b> directed by the Emergency Director, <b>THEN</b> instruct the EOF staff to identify necessary recovery actions using forms and guidance per CNG-EP-1.01-1022, Termination and Recovery.</p>	<p><b>Tab 7</b></p>
<p>C. Direct staff to use EP-Form-ALL11, Recovery Issue / Strategies Identification, to identify and capture items for recovery actions.</p>	<p><b>Tab 8</b></p>
<p>2.3.2 <b>WHEN</b> plant conditions stabilize and there is no longer a threat to offsite personnel, reactor safety or plant personnel, <b>THEN</b> review termination guidance per CNG-EP-1.01-1022, Termination and Recovery and recommend termination to the Emergency Director (ED).</p>	<p><b>Tab 7</b></p>

<p><b>2.4 Shift Turnover</b></p>	
<p>2.4.1 Fully brief your relief as to events that have transpired and status of any work in progress. Suggested topics to include:</p> <ul style="list-style-type: none"> <li>• Offsite Interface Issues</li> <li>• PARs and Offsite Protective Measures taken (Evacuations etc.)</li> <li>• Ongoing EOF activities</li> <li>• Dose Projections</li> <li>• Logistics issues, outstanding actions to obtain needed items</li> <li>• NRC Site Team</li> <li>• Review your log entries</li> </ul>	
<p>2.4.2 Inform the ED when you have been relieved.</p>	
<p>2.4.3 Log the transfer in the Emergency Response Log.</p>	
<p>2.4.4 Review the log and documents you completed during your shift for accuracy and completeness.</p>	
<p><b>3 <u>SITUATIONAL ACTIONS</u></b></p>	
<p><b>3.1 NRC Site Team Interface</b></p>	
<p>3.1.1 Review items in CNG-EP-1.01-1018, Attachment 1, NRC Site Team Integration, for actions taken when team arrives.</p>	<p><b>Tab 1</b></p>
<p>3.1.2 Inform the TSC Manager, Security Director and the JIC Manager that the NRC Site Team is in route.</p>	
<p>3.1.3 Prepare EP-Form-ALL05, NRC Response Team Briefing Guidelines.</p>	<p><b>Tab 6</b></p>
<p>3.1.4 <b>WHEN</b> the NRC Site Team arrives, <b>THEN:</b></p>	
<p>A. Act as the contact person to assist with the needs of NRC responding to the EOF.</p>	
<p>B. Introduce yourself and provide arriving NRC Site Team personnel a briefing on the event and emergency response actions.</p>	
<p>C. Provide the NRC Team a tour of the facility and introduce them to key ERO personnel and their counterparts.</p>	
<p>D. Ensure NRC personnel are aware of emergency classification changes and significant changes in plant conditions.</p>	

<b>4</b>	<b><u>CLOSEOUT ACTIONS</u></b>	
4.1	Perform appropriate steps in CNG-EP-1.01-1022, Termination and Recovery.	<b>Tab 7</b>
4.2	Return your area and equipment to a state of readiness.	
4.2.1	Replenish the contents of this ERO position binder in accordance with the table at the end of this checklist.	
4.3	Assemble and review documentation, completed by your ERO Position, for legibility and completeness.	
4.3.1	Collect and review all completed EOF event documentation from the EOF Administrative Logistics Coordinator.	
4.3.2	Provide event EOF documentation to Emergency Preparedness Staff.	
4.3.3	Deliver completed event documentation to Emergency Preparedness Department.	
4.4	Participate in post event critiques / reviews.	

EOF Manager Position Binder Tab Index		
Tab #	Contents	Quantity*
**	EP-ChLst-EOF02, EOF Manager Checklist	4
1	Procedure CNG-EP-1.01-1018, EOF Operations	1
2	EP-Form-ALL01, Emergency Response Log	5
3	Procedure CNG-EP-1.01-1013, Emergency Classification and PAR	1
4	EP-Form-EOF02, EOF Briefing Guidelines	5
5	EP-Form-EOF03, EOF Staffing Roster	5
6	EP-Form-ALL05, NRC Response Team Briefing Guidelines	5
7	Procedure CNG-EP-1.01-1022, Termination and Recovery	1
8	EP-Form-ALL11, Recovery Issues / Strategies Identification	5

\* Denotes the number of copies of procedure or form to be placed in the position binder (initially or when binder is restocked after event). The minimum number needed to make binder functional is one. Additional documents can be copied, taken from other ERO position binders or be obtained electronically.

\*\* Position Specific Checklist placed before Tab 1.

**Purpose / Applicability**

This checklist provides guidance for the EOF Manager in performance of their assigned tasks during a declared emergency or during a drill or exercise.

**Checklist Sponsor:** Station Emergency Preparedness Director

**Position Responsibilities / Task**

- Ensure ERO personnel have been properly notified and are responding to the facilities.
- Oversee staffing of EOF and assist with staffing for other facilities.
- Develop ERO shift relief rosters for the facility.
- Coordinate ERO shift relief rosters for all facilities and the notification of personnel.
- Manage the administrative support staff.
- Review and ensure facility displays are maintained current.
- Manage the procurement and logistical support activities for the onsite and offsite emergency response personnel and facilities.
- Monitor and maintain access controls for the facility.
- Communicate with and coordinate support for ERO responders or plant personnel sent offsite to relocation areas.
- Provide input for facility briefs and updates

Section 1, Initial Actions

- 1.1 Mobilization
- 1.2 Activation

Section 2, Ongoing Actions

- 2.1 General Operations
- 2.2 Logistics Support
- 2.3 Preparations for 24 hour Staffing
- 2.4 Shift Turnover

Section 3, Situational Actions

None

Section 4, Closeout Actions

**NOTES:** Steps in this checklist may be performed in an order other than listed or they may be omitted if not applicable.

Incoming Shift Relief individuals perform appropriate steps of Initial Actions to take over position responsibilities.

Contact numbers for ERO positions and facilities are in the Emergency Phone Directory.

<b>1</b>	<b><u>INITIAL ACTIONS</u></b>	
<b>1.1</b>	<b>Mobilization</b>	
1.1.1	Implement this checklist per CNG-EP-1.01-1018, EOF Operations.	<b>Tab 1</b>
1.1.2	Print your name and today's date to indicate that you are the individual performing this checklist:	

Name: _____ Date: _____	
1.1.3 Prepare to assume your assigned duties as follows:	
A. Print your name on the EOF Staffing Board.	
B. Don your position nametag.	
C. Obtain any other supplies needed to perform your assigned tasks.	
D. <b>IF</b> your position uses computer, <b>THEN</b> start and/or sign in on computer and verify it is functioning properly.	
1.1.4 Initiate and maintain a position log using EP-Form-ALL01, Emergency Response Log, to document significant actions, decisions and communications related to your position.	<b>Tab 2</b>
1.1.5 Inform the EOF Manager of your arrival.	
<b>1.2 Activation</b>	
1.2.1 Assess EOF Admin staffing and augment as necessary. Your initial minimum staff should be: <ul style="list-style-type: none"> <li>• EOF / JIC IT Specialist <input type="checkbox"/></li> <li>• Admin Staff Member # 1 <input type="checkbox"/></li> <li>• Admin Staff Member # 2 <input type="checkbox"/></li> </ul>	
1.2.2 Provide an initial briefing to your staff on the status of emergency conditions and initial actions required.	
1.2.3 Inform the EOF Manager when the Admin support staff is ready to support EOF operations.	
1.2.4 Review EOF staffing to ensure required individuals are responding.	
A. Review EOF Staffing Board, confirm all EOF positions are present and have signed in.	
B. Confer with the EOF Manager, other EOF Coordinators and the EOF Technical Advisor to ensure staffing needs has been met.	
C. <b>IF</b> additional personnel are needed to fill normal or supplemental staffing, <b>THEN</b> call out or direct the Admin staff to call out required individuals.	
1.2.5 <b>IF</b> facility clocks are not already automatically synchronized, <b>THEN</b> , synchronize, or direct staff to synchronize, facility clocks with Plant Computer time.	



<p>A. <b>IF</b> clocks are automatically synchronized to official time other than plant computer, <b>THEN</b> make a log entry noting difference in time between facility clocks and plant computer time.</p>	
<p>1.2.6 Confer with EOF Manager on establishing ERO Relief Shifts prior to releasing extra responders.</p>	
<p>A. <b>IF</b> shifts are being set up at this time, <b>THEN</b> see section 2.3 of this checklist for guidance on establishing shifts.</p>	
<p>1.2.7 <b>[NMP Only]</b> Verify Operation of both "Procedure Recovery" computers.</p> <p>A. Log-in to computer using the local account</p> <ul style="list-style-type: none"> <li>• User name: eof</li> <li>• Password: pceNMPe0f (Note: this is case sensitive)</li> <li>• Log on to: PCJ0494 (this computer) (in Plant Assessment Room) OR PCH0357 (this computer) (in Dose Assessment Room)</li> </ul> <p>B. Locate procedures in directory C:\OnLine Procedures\WORD PROCEDURE FILES</p>	
<p><b>2</b> <u><b>ONGOING ACTIONS</b></u></p>	
<p><b>2.1</b> <b>General Operations</b></p>	
<p>2.1.1 Manage the activities of the EOF Admin staff. Key admin support activities include:</p> <ul style="list-style-type: none"> <li>• Receiving and sending information.</li> <li>• Duplication and Distribution of documents</li> <li>• Assisting in retrieving hard copies of electronic documents</li> <li>• Developing ERO shift rosters</li> <li>• Calling out of ERO personnel</li> </ul>	
<p>2.1.2 Monitor and maintain access control to the EOF, as necessary.</p>	
<p>A. <b>IF</b> a security officer is <b>NOT</b> present in the EOF, <b>THEN</b> have a member of the EOF Admin staff assist with access control.</p>	
<p>B. Obtain authorization for individual not pre-approved for EOF access from the EOF Manager or the Emergency Director.</p>	
<p>2.1.3 Periodically review facility status boards to ensure they are accurate and current.</p>	
<p>A. Direct appropriate EOF Staff to update status boards as necessary.</p>	
<p>2.1.4 Oversee the activities of the EOF / JIC IT Specialist, arranging for additional communications or computer equipment or support if needed.</p>	

<p>2.1.5 <b>WHEN</b> EOF briefings are scheduled, <b>THEN</b> participate in EOF briefings providing overview of support staff activities. Refer to the Admin / Logistics Coordinator's portion of the EP-Form-EOF02, EOF Briefing Guidelines.</p>	<p><b>Tab 3</b></p>
<p>2.1.6 <b>[NMP Only]</b> Coordinate Emergency Access Controls with the TSC Security Director using guidance in EPIP-EPP-14, Emergency Access Controls.</p>	<p><b>Tab 5</b></p>
<p><b>2.2 Logistics Support</b></p>	
<p><b>NOTE:</b> All CENG organizations may be called on to assist the ERO.</p> <p>2.2.1 Coordinate the obtaining of resources needed to support emergency operations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>• Administrative services and equipment</li> <li>• Accommodations and transportation for responding offsite personnel, including engineering support, RP support, etc.</li> <li>• Finance and purchasing services</li> <li>• Commissary / food services</li> <li>• Labor Relations or Human Resources services</li> <li>• Legal or insurance services</li> <li>• Warehouse / supply services</li> <li>• Facility services</li> </ul>	
<p>2.2.2 Coordinate with the EOF Manager and appropriate corporate organizations on providing personnel, equipment, training, or other resource support.</p>	
<p>2.2.3 Coordinate with the JIC Admin / Logistics Coordinator on providing personnel, equipment, training, or other resource support.</p>	
<p>2.2.4 Coordinate with the TSC Director on providing personnel, equipment, training, or other resource needed to support stations mitigative strategies.</p>	
<p>2.2.5 Coordinate delivery of food and other services with the following positions:</p> <ul style="list-style-type: none"> <li>• The TSC Security Director for site access</li> <li>• The Radiological Assessment Coordinator (RAC) for radiological considerations if applicable</li> <li>• The TSC Manager for OSC / TSC delivery logistics</li> <li>• The JIC Admin / Logistics Coordinator for JIC delivery logistics</li> </ul>	
<p>2.2.6 Keep the EOF Manager informed of offsite agencies', requests, and offers of assistance that are brought to your attention.</p>	
<p>2.2.7 <b>IF</b> CENG personnel are requested to provide assistance to offsite agencies (support relocation/reception center operations or other tasks), <b>THEN:</b></p>	

<p>A. Ensure ED approves support activities.</p>	
<p>B. Coordinate actions needed to provide assistance as necessary.</p>	
<p>C. Establish communications paths and support for any personnel dispatched to provide assistance.</p>	
<p>2.2.8 <b>IF</b> the EOF and JIC are operating on the backup power supplied by a diesel generator, <b>THEN</b> ensure adequate fuel supplies are available.</p>	
<p><b>2.3 Preparations for 24 hour Staffing</b></p>	
<p>2.3.1 <b>WHEN</b> informed by the EOF Manager 24 hour staffing of Emergency Response Facilities will be required, <b>THEN</b>:</p>	
<p><b>NOTE:</b> Completion of EOF and JIC relief preparations and callout can be performed by either EOF Admin Staff or JIC Admin Staff or both, depending on current work loads of staffs. Coordinate tasks with JIC Manager, as necessary.</p> <p>A. Direct the EOF Admin Staff to begin completion of EP-Form-EOF03, EOF Staffing Roster filling in names of current personnel filling emergency positions.</p>	<p><b>Tab 4</b></p>
<p>2.3.2 Confer with the EOF Manager determine which ERO Team will be the primary reliefs and inform the Admin Staff to use these individuals a primary source of reliefs.</p>	
<p><b>NOTE:</b> In the event that a qualified ERO member is not available to fill a position, an individual considered capable of fulfilling the position's responsibilities may be assigned to the position upon approval of the Emergency Director while attempts are made to obtain a qualified ERO member.</p>	
<p>2.3.3 Continue to oversee EOF Admin Staff's preparations for 24 hour staffing, resolving issues as necessary.</p>	
<p>A. Inform Admin staff which ERO Team to use as primary source of reliefs.</p>	
<p>B. Direct the staff to fill in names of relief shift and contact number using the Emergency Telephone Directory.</p>	
<p>C. Confer with EOF Coordinators and inform the EOF Admin staff of any supplemental personnel (non Standard ERO positions) needed to be added to relief EOF Staffing Roster.</p>	
<p>2.3.4 <b>WHEN</b> EOF Staffing Roster is complete, <b>THEN</b>:</p>	
<p>A. Obtain shift times from EOF Manager and inform admin staff of times.</p> <p><b>Second Shift Start Time:</b> _____</p>	
<p>B. Enter shift time on form.</p>	

C.	Review completed form with EOF Manager.	
D.	Direct Admin staff to call out reliefs.	
E.	Continue to oversee EOF Admin Staff's shift callout, resolving issues (personnel cannot be reached, unable to respond, etc.) as necessary.	
2.3.5	Assist other emergency response facilities with arrangements for continuous staffing, as necessary.	
2.3.6	<b>If</b> personnel are expected to remain at the site for an extended period of time due to an event that has caused or is expected to cause wide-spread disruption of local services and/or infrastructure in the vicinity of the site, <b>then ASSIST</b> the affected site in obtaining food, water, and other supplies, as required. (IER 13-10 Rec 9)	
2.3.7	<b>If</b> the HR Crisis Management Team is established, <b>then CONTACT</b> the HR Crisis Team Leader <b>and ENSURE</b> that relief/rotation schedules consider actions taken to support personnel adversely impacted by the event. (IER 13-10 Rec 7)	
<b>2.4</b>	<b>Shift Turnover</b>	
2.4.1	Fully brief your relief as to events that have transpired and status of any work in progress. Suggested topics to include: <ul style="list-style-type: none"> <li>• Logistics Support Activities</li> <li>• Administrative Support issues</li> <li>• Review your log entries</li> </ul>	
2.4.2	Inform the EOF Manager when you have been relieved.	
2.4.3	Log the turnover in the Emergency Response Log.	
2.4.4	Review the log and documents you completed during your shift for completeness.	

<b>3</b>	<b><u>CLOSEOUT ACTIONS</u></b>	
3.1	Direct the EOF Admin staff to:	
3.1.1	Assist with collection and collating of EOF records completed during the event.	
3.1.2	Return work areas and equipment used to a state of readiness and perform inventories, as necessary.	
3.2	Replenish the contents of this ERO position binder in accordance with the table at the end of this checklist.	
3.3	Assemble and review documentation, completed by your ERO Position and the Admin Staff, for legibility and completeness.	
3.4	Deliver completed event documentation to EOF Manager.	
3.5	Participate in post event critiques / reviews.	

<b>EOF Administrative / Logistics Coordinator Position Binder Tab Index</b>		
<b>Tab #</b>	<b>Contents</b>	<b>Quantity*</b>
<b>**</b>	EP-ChLst-EOF05, EOF Administrative / Logistics Coordinator Checklist	4
<b>1</b>	Procedure CNG-EP-1.01-1018, EOF Operations	1
<b>2</b>	EP-Form-ALL01, Emergency Response Log	5
<b>3</b>	EP-Form-EOF02, EOF Briefing Guidelines.	5
<b>4</b>	EP-Form-EOF03, EOF Staffing Roster	5
<b>5</b>	<b>[NMP Only]</b> EPIP-EPP-14, Emergency Access Controls	1

\* Denotes the number of copies of procedure or form to be placed in the position binder (initially or when binder is restocked after event). The minimum number needed to make binder functional is one. Additional documents can be copied, taken from other ERO position binders or be obtained electronically.

\*\* Position Specific Checklist placed before Tab 1.

**Purpose / Applicability**

This checklist provides guidance for the EOF Administrative / Logistics Coordinator in performance of their assigned tasks during a declared emergency or during a drill or exercise.

**Checklist Sponsor:** Station Emergency Preparedness Director

**Position Responsibilities / Task**

- Perform administrative and logistic support functions for facility personnel.
- Establish and maintain facility accountability.

Section 1, Initial Actions

- 1.1 Mobilization
- 1.2 Activation

Section 2, Ongoing Actions

- 2.1 Facility Accountability
- 2.2 General Operations
- 2.3 24 Hour Staffing
- 2.3 Shift Turnover

Section 3, Situational Actions

None

Section 4, Closeout Actions

**NOTES:** Steps in this checklist may be performed in an order other than listed or they may be omitted if not applicable.

Incoming Shift Relief individuals perform appropriate steps of Initial Actions to take over position responsibilities.

Contact numbers for ERO positions and facilities are in the Emergency Phone Directory.

<b>1</b>	<b><u>INITIAL ACTIONS</u></b>	
<b>1.1</b>	<b>Mobilization</b>	
1.1.1	Implement this checklist per CNG-EP-1.01-1020, TSC Operations.	<b>Tab 1</b>
1.1.2	Print your name and today's date to indicate that you are the individual performing this checklist:	
Name: _____ Date: _____		
1.1.3	Prepare to assume your assigned duties as follows:	
A.	<b>[NMP Only]</b> Card into accountability card reader for the facility.	
B.	Enter your arrival information on EP-Form-ALL02, Facility Accountability Log and ensure it is available to ERO personnel accountability.	<b>Tab 3</b>
C.	Print your name on the TSC Staffing Board.	
D.	Attach your position nametag.	

E.	Obtain any other supplies needed to perform your assigned tasks.	
F.	<b>IF</b> your position uses a computer, <b>THEN</b> start and/or sign in on the computer and verify it is functioning properly.	
<p><b>NOTES:</b> All Admin Staff log entries may be maintained in a single log.</p> <p>Document information is logged in Facility Document Log.</p> <p>1.1.4 Initiate and maintain a position log using EP-Form-ALL01, Emergency Response Log, to document significant actions, decisions and communications related to your position.</p>		<b>Tab 2</b>
1.1.5	Inform the TSC Director of your arrival.	
<b>1.2</b>	<b>Activation</b>	
1.2.1	Ensure individuals names are logged on EP-Form-ALL02, Facility Accountability Log.	<b>Tab 3</b>
1.2.2	Test TSC administrative equipment (copy machines, Fax machines, assigned computers, etc.) as necessary.	
A.	Ensure any machines with time stamps are accurate.	
B.	Send a test fax to a EOF fax machine and ensure it arrives.	
C.	Have EOF Admin Staff send a fax to the machine being tested ensuring it can receive.	
D.	<b>IF</b> the machine uses outside phone lines, <b>THEN</b> ensure those lines are functioning.	
E.	Test the different modes of the copy machine(s).	
F.	Ensure TSC personnel can print from facility computers.	
1.2.3	Inform the TSC Director of any issues with administrative equipment.	
<b>2</b>	<b><u>ONGOING ACTIONS</u></b>	
<b>2.1</b>	<b>Facility Accountability</b>	
2.1.1	After the TSC is staffed, check the Facility Accountability Log against the TSC Staffing Board to ensure all TSC personnel have signed in at both locations.	
A.	Ensure names of supplemental personnel (individuals not part of core TSC Staff and non-CENG personnel) are entered into Accountability Log.	
2.1.2	<b>IF</b> any individuals leave the facility, <b>THEN</b> ensure they log time they depart on the Accountability Log	



<b>2.2</b>	<b>General Operations</b>	
2.2.1	Assist the TSC staff with incoming telephone traffic by answering phones when TSC members are not available.	
	A. Take down basic information from callers and/or obtain a call back number, if necessary.	
	B. Provide appropriate staff with phone message.	
2.2.2	Provide copying and distribution aid to TSC Staff as requested.	
2.2.3	Assist TSC Staff in obtaining hard copies of electronic documents.	
2.2.4	<b>IF</b> requested by the TSC Director, <b>THEN</b> maintain the WebEOC Station Priorities Log (SPL). (IER-L1-13-10, Rec. 11a)	
2.2.5	Outgoing Facsimile Assistance	
	A. Make a copy of document(s) provided to you for faxing and return the original to the person requesting you to perform fax.	
	B. Send document to designated location(s).	
	C. <b>IF</b> the document could <b>NOT</b> be delivered, <b>THEN</b> inform individual who requested fax immediately.	
	D. Log fax information on EP-Form-ALL03, Facility Document Log.	<b>Tab 4</b>
	E. After document has been sent, attach the confirmation slip to the document and in event document file.	
2.2.6	Incoming Fax / Document Assistance	
	A. Log fax information on EP-Form-ALL03, Facility Document Log.	<b>Tab 4</b>
	B. Make copies of documents (at least one copy for your document file), as necessary	
	C. Distribute to appropriate locations.	

<p>1) Copies of Notification Forms, Plant Data Forms and Plant Status Reports should be distributed to:</p> <ul style="list-style-type: none"> <li>• TSC Manager</li> <li>• TSC Director</li> <li>• Engineering Director</li> <li>• Operations Director</li> <li>• ENS Communicator</li> <li>• Maintenance Director</li> <li>• Radiation Protection Director</li> <li>• Security Director</li> <li>• All NRC Personnel present in the TSC</li> </ul>	
<p>2) All other documents are distributed to addressee(s).</p>	
<p>3) <b>IF</b> it is not clear who document should be distributed to, <b>THEN</b> provide document to TSC Director informing them of issue.</p>	
<p>2.2.7 Perform other functions within the scope of administrative support duties as assigned by the TSC Director.</p>	
<p><b>2.3 24 Hour Staffing</b></p>	
<p>2.3.1 <b>WHEN</b> directed by TSC Director, <b>THEN</b> assist in developing second shift staffing roster.</p>	
<p>A. Complete EP-Form-TSC01, TSC Staffing Roster, to identify individuals on current shift.</p>	<b>Tab 5</b>
<p>B. Obtain instructions from the TSC Director on which ERO Team will be the primary called in for shift relief.</p>	
<p>C. Use the Emergency Telephone Directory and Team Roster to enter names and contact numbers for reliefs on TSC Staffing Roster.</p>	
<p>D. Confer with TSC Directors and identify additional individuals to be called in for relief.</p>	
<p>2.3.2 <b>IF</b> directed by the TSC Director, <b>THEN</b> make phone calls to ERO Relief shift.</p>	
<p>A. Use TSC and OSC Staffing Rosters and Emergency Telephone Directory to contact individuals and instruct them when they should arrive for shift relief.</p>	
<p>B. <b>IF</b> the primary individual cannot be contacted or is unavailable to respond <b>THEN</b> use Emergency Telephone Directory to find an alternate qualified to fill position.</p>	

<p>C. <b>WHEN</b> the first attempt to contact shift reliefs has been completed, <b>THEN</b> inform the TSC Director and review any position for which a relief could not be contacted.</p>	
<p>2.3.3 <b>IF</b> personnel are expected to remain at the site for an extended period of time due to an event that has caused or is expected to cause wide-spread disruption of local services and/or infrastructure in the vicinity of the site, <b>THEN</b> obtain support for these additional personnel, as follows: (IER 13-10 Rec 9)</p>	
<p>A. Contact offsite support for food and water to be brought to site.</p>	
<p>B. Arrange for sleeping area(s) to be established.</p>	
<p>2.3.4 Coordinate relief /continual staffing in support of the Control Room, TSC, and OSC: (IER 13-10 Rec 7)</p>	
<p>A. <b>IF</b> the event is likely to require long-term staffing of the TSC/OSC, <b>THEN:</b></p>	
<p>1) Coordinate with the EOF Admin Logistics Coordinator to obtain required support from other fleet locations, utilities, or vendors to supplement the available site staff.</p>	
<p>2) <b>IF</b> the HR Crisis Management Team is established, <b>THEN</b> contact the HR Crisis Team Leader <b>and</b> ensure that relief/rotation schedules consider actions taken to support personnel adversely impacted by the event.</p>	
<p><b>2.4 Shift Turnover</b></p>	
<p>2.4.1 Fully brief your relief as to events that have transpired and status of any work in progress. Suggested topics to include:</p> <ul style="list-style-type: none"> <li>• Status of Administrative Task in progress</li> <li>• Review your log entries</li> </ul>	
<p>2.4.2 Inform the TSC Director when you have been relieved.</p>	
<p>2.4.3 Log the turnover in the Emergency Response Log.</p>	
<p>2.4.4 Review the log and documents you completed during your shift for accuracy and completeness.</p>	
<p><b>3 <u>SITUATIONAL ACTIONS</u></b></p>	
<p>None</p>	

<b>4</b>	<b><u>CLOSEOUT ACTIONS</u></b>	
4.1	Assist the TSC Director in collecting and collating of TSC Documentation completed during the event.	
4.2	Return your area and equipment to a state of readiness and assist TSC personnel to do the same.	
4.3	Perform facility and equipment inventories as directed.	
4.4	Replenish the contents of this ERO position binder in accordance with the table at the end of this checklist.	
4.5	Assemble and review documentation, completed by your ERO Position, for legibility and completeness.	
4.6	Deliver completed TSC event documentation to TSC Director.	
4.7	Participate in post event critiques / reviews.	

<b>TSC Administrative Staff Position Binder Tab Index</b>		
<b>Tab #</b>	<b>Contents</b>	<b>Quantity*</b>
**	EP-ChLst-TSC15, TSC Administrative Staff Checklist	4
1	Procedure CNG-EP-1.01-1020, TSC Operations	1
2	EP-Form-ALL01, Emergency Response Log	5
3	EP-Form-ALL02, Facility Accountability Log	5
4	EP-Form-ALL03, Facility Document Log	5
5	EP-Form-TSC01, TSC Staffing Roster	5

\* Denotes the number of copies of procedure or form to be placed in the position binder (initially or when binder is restocked after event). The minimum number needed to make binder functional is one. Additional documents can be copied, taken from other ERO position binders or be obtained electronically.

\*\* Position Specific Checklist placed before Tab 1.

**Purpose / Applicability**

This checklist provides guidance for the TSC Administrative Staff in performance of their assigned tasks during a declared emergency or during a drill or exercise.

**Checklist Sponsor:** Station Emergency Preparedness Director

**Position Responsibilities / Task**

- Collect and input data and maintain EIS displays.

Section 1, Initial Actions

- 1.1 Mobilization
- 1.2 Activation

Section 2, Ongoing Actions

- 2.1 General Operations
- 2.2 Data Updates
- 2.3 Shift Turnover

Section 3, Situational Actions

None

Section 4, Closeout Actions

**NOTES:** Steps in this checklist may be performed in an order other than listed or they may be omitted if not applicable.

Incoming Shift Relief individuals perform appropriate steps of Initial Actions to take over position responsibilities.

Contact numbers for ERO positions and facilities are in the Emergency Phone Directory.

<b>1</b>	<b><u>INITIAL ACTIONS</u></b>	
<b>1.1</b>	<b>Mobilization</b>	
1.1.1	Implement this checklist per CNG-EP-1.01-1020, TSC Operations.	<b>Tab 1</b>
1.1.2	Print your name and today's date to indicate that you are the individual performing this checklist:	
Name: _____ Date: _____		
1.1.3	Prepare to assume your assigned duties as follows:	
A.	<b>[NMP Only]</b> Card into accountability card reader for the facility.	
B.	Enter your arrival information on Facility Accountability Log	
C.	Print your name on the TSC Staffing Board.	
D.	Attach your position nametag.	
E.	Obtain any other supplies needed to perform your assigned tasks.	
1.1.4	Contact the Ops Director and inform them of your arrival.	

<b>1.2 Activation</b>	
1.2.1 Power on all EIS screens using remote. TSC EIS computer locations are: <ul style="list-style-type: none"> <li>• TSC1 (operates 3 screens in TSC core counting from the left side of the TSC Core)</li> <li>• TSC2 (operates 2 screens in the TSC core counting from the right side)</li> </ul>	
1.2.2 <b>IF</b> any of the INSIGNIA monitor(s) is showing the "No Signal" error message, <b>THEN</b> do the following:	
A. Ensure all 3 monitors are in the Power-On state.	
B. Restart the PC.	
C. Login using your approved CEG login account.	
D. <b>IF</b> error message is cleared, <b>THEN</b> continue with this checklist where you left off.	
E. <b>IF</b> this does NOT correct the display problem, <b>THEN</b> call 1-888-232-4300 for further IT assistance	
1.2.3 Log on to the EIS computer T1 using the following: <ul style="list-style-type: none"> <li>• Username: tscosc</li> <li>• Password: tscosc123</li> </ul>	
1.2.4 On EIS computer T1, open Internet Explorer and go to the following URL: " <a href="http://nmpep.constellation.com">http://nmpep.constellation.com</a> ".	
1.2.5 Click on agree to terms, click on actual event or drill as appropriate	
<b>NOTES:</b> Any EIS display may be displayed on any EIS screen as directed by TSC staff.  Pressing the F11 key will permit the majority of the display to be viewed	
1.2.6 Display the following on the EIS screens in the TSC core: <ul style="list-style-type: none"> <li>• Screen TSC1: Plant Mimic</li> <li>• Screen TSC2: Unit 1 Trend</li> <li>• Screen TSC3: Plant Event Log</li> </ul>	
1.2.7 Log on to the EIS computer T2 using the following: <ul style="list-style-type: none"> <li>• Username: tscosc</li> <li>• Password: tscosc123</li> </ul>	
1.2.8 On EIS computer T2, open Internet Explorer and go to the following URL: " <a href="http://nmpep.constellation.com">http://nmpep.constellation.com</a> ".	

<p>1.2.9 Click on agree to terms, click on actual event or drill as appropriate.</p>	
<p><b>NOTES:</b> Any EIS display may be displayed on any EIS screen as directed by TSC staff.</p> <p>Pressing the F11 key will permit the majority of the display to be viewed</p> <p>1.2.10 Display the following on the EIS screens in the TSC core:</p> <ul style="list-style-type: none"> <li>• Screen TSC4: Unit 2 Trend (or other as requested)</li> <li>• Screen TSC5: Damage Control Team Activities Status</li> <li>• Screen TSC6: In-plant Data (Process or Area Rad Monitor) as requested by RAM</li> </ul>	
<p><b>NOTE:</b> This laptop will be used to enter data for all displays listed in the table below</p> <p>1.2.11 In the Tech Assessment room, log onto any of the laptop computers while it is in the docking station using your own name and password, open Internet Explorer and go to the following URL:  <b>"<a href="http://nmpep.constellation.com">http://nmpep.constellation.com</a>".</b></p>	
<p>1.2.12 Remove and take the laptop into the TSC core area to update EIS screens</p>	
<p>1.2.13 <b>IF</b> the Event overview screen does not indicate the correct event date, <b>THEN</b> click on create new event, unclick the un-applicable unit, click save then turn off edit mode click on Return to EIS overview.</p>	



<b>2</b>		<b><u>ONGOING ACTIONS</u></b>	
<b>2.1</b>		<b>General Operations</b>	
2.1.1		Remind personnel that EIS displays may be viewed at any PC by using the URL: <a href="http://nmpep.constellation.com">http://nmpep.constellation.com</a> .	
2.1.2		Assist TSC Staff with accessing EIS data as needed.	
<b>2.2</b>		<b>Data Updates</b>	
2.2.1		Using the Laptop update screens detailed above using instructions noted in the table below:	
Screen	Data Source	Update frequency	Update instructions
<b>Plant Event Log</b>	<ul style="list-style-type: none"> <li>• TSC Ops Director</li> <li>• Ops Communicator</li> <li>• TDC</li> <li>• Data may be gleaned from any TSC Staff member</li> </ul>	<p>Only as conditions change / events occur.</p> <p>Examples of conditions that should be logged:</p> <ul style="list-style-type: none"> <li>• Plant Scram</li> <li>• Loss of electrical power</li> <li>• TSC Activated</li> <li>• Emergency Declared (include EAL #)</li> <li>• Major plant changes</li> <li>• Major announcements (short synopsis of the announcement)</li> <li>• Emergency terminated</li> </ul>	<p><b>NOTE:</b> Ensure that the date indicated at the top of the screen is today's date. If it is not refer to step 1.2.13 to Start an Event.</p> <ol style="list-style-type: none"> <li>1. Click on Plant event log.</li> <li>2. Next click "ADD ITEM", enter time and specific log information. Only update the log with as much info as available.</li> <li>3. When data entry is complete, click "SUBMIT". Verify that the data has been entered, correct any items identified in red.</li> <li>4. If done with this screen, click on Return to EIS. Click ok on pop up box.</li> </ol> <p><b>NOTE:</b> You may continue to enter data onto this screen, selecting add item each time you wish to enter data . This will create the viewable file and also the historical file.</p>

Screen	Data Source	Update frequency	Update instructions
<p>Unit 1 Trend Unit 2 Trend</p>	<ul style="list-style-type: none"> <li>• TSC Ops Director</li> <li>• Ops Communicator</li> <li>• TDC</li> <li>• Data may be gleaned from any TSC Staff member</li> </ul>	<p>Initially update screens then as necessary and every 30 minutes</p>	<ol style="list-style-type: none"> <li>1. Click on Unit 1 /2 Trend as appropriate.                             <ul style="list-style-type: none"> <li>• Starting from the top of the page, complete/update each applicable entry. The items indicated by a blue background are the entries that must be input manually.</li> <li>• Obtain information as necessary to complete this board from available resources. Use Control room cameras as required.</li> </ul> </li> </ol> <p><b>NOTE:</b> Date and Time auto-update</p> <ol style="list-style-type: none"> <li>2. Once a entry has been updated, verify that the entries you have made are accurate by clicking "OK" to the validation prompt as it appears after each value change..</li> <li>3. If done with this screen, click on Return to EIS. Click ok on pop up box.</li> </ol> <p><b>NOTE:</b> You may continue to enter data onto this screen, selecting add item each time you wish to enter data. This will create the viewable file and also the historical file.</p>
<b>2.3 Shift Turnover</b>			
2.3.1	Fully brief your relief as to events that have transpired and status of any work in progress.		
2.3.2	Inform the Ops Director when you have been relieved.		
2.3.3	Review the log and documents you completed during your shift for accuracy and completeness.		
<b>3 <u>SITUATIONAL ACTIONS</u></b>			
None			
<b>4 <u>CLOSEOUT ACTIONS</u></b>			
4.1	Place EIS Equipment in stand-by:		
4.1.1	Close out drill/event in EIS by clicking on "Event Overview", at bottom of screen click on "Close Current Event"		
4.1.2	Log off laptop and replace in docking station		

4.1.3	Log off the EIS computer (leave it powered on), turn off all EIS monitors in the TSC	
4.2	Return your area and equipment to a state of readiness.	
4.3	Replenish the contents of this ERO position binder in accordance with the table at the end of this checklist.	
4.4	Assemble and review documentation, completed by your ERO Position, for legibility and completeness.	
4.5	Deliver completed TSC event documentation to TSC Manager.	
4.6	Participate in post event critiques / reviews.	

TSC EIS Operator Position Binder Tab Index		
Tab #	Contents	Quantity*
**	EP-ChLst-TSC16, TSC EIS Operator Checklist	4
1	Procedure CNG-EP-1.01-1020, TSC Operations	1

\* Denotes the number of copies of procedure or form to be placed in the position binder (initially or when binder is restocked after event). The minimum number needed to make binder functional is one. Additional documents can be copied, taken from other ERO position binders or be obtained electronically.

\*\* Position Specific Checklist placed before Tab 1.

**Purpose / Applicability**

This checklist provides guidance for the TSC Administrative Staff in performance of their assigned tasks during a declared emergency or during a drill or exercise.

**Checklist Sponsor:** Station Emergency Preparedness Director

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Constellation  
Energy



## **Nine Mile Point Nuclear Station Station Administrative Procedure**

### **EPIP-EPP-04**

**PERSONNEL INJURY OR ILLNESS**

**Revision 02100**

This procedure requires a 10 CFR 50.59 / 10 CFR 72.48 Review

**Tech Spec Related**

**INFORMATION USE**

**Applicable To:**

- **Nine Mile Point Nuclear Station**

**Approval Authority: Director-Emergency Preparedness (NMP)**

**SUMMARY OF ALTERATIONS**

<b>Revision</b>	<b>Change</b>	<b>Summary of Revision or Change</b>
021	00	Incorporate PCR-14-02051 to change Step 5.3 CAUTION to read 10CFR50 Appendix R/NFPA 805 to align with NFPA 805 safety evaluation.

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## 1.0 INTRODUCTION

### 1.1. Purpose

- A. To ensure prompt medical attention is provided to injured or ill personnel and prevent the unnecessary spread of radioactive contamination to the responding ambulance or receiving hospital.

### 1.2. Scope/Applicability

- A. This procedure applies to all personnel assigned to the Emergency Response Organization (ERO) at Nine Mile Point Nuclear Station.

## 2.0 REFERENCES

### 2.1. Developmental References

- A. 10CFR50.47, Emergency Plans
- B. NUREG-0654, Rev. 1 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants, dated November 1980
- C. Nine Mile Point Site Emergency Plan Performance References
- D. Nine Mile Point Physical Security, Safeguards Contingency and Security Training and Qualification Plan
- E. NIP-OSH-01, Occupational Safety and Health
- F. Oswego Hospital Plan for the Decontamination and Treatment of Radioactively Contaminated Patients
- G. State University of New York (SUNY) Health Sciences Center at Syracuse, University Hospital Radiological Emergency Plan

### 2.2. Performance References

- A. 10CFR50, Appendix E; Emergency Planning and Preparedness for Production and Utilization Facilities
- B. 10CFR50.72, Immediate Notification Requirements for Operating Nuclear Power Reactors
- C. 10CFR73.55(p), Suspension of Security Measures
- D. Fleet Industrial Safety Manual
- E. GAP-OPS-01, Administration of Operations
- F. ISM Chapter 2, Injury, Illness and Near Miss Reporting, Attachment 8, Medical Treatment Report
- G. FB-SOG-8.0, Fire Brigade Leader Response Guide

## 3.0 DEFINITIONS

None



**4.0 RESPONSIBILITIES****4.1. Shift Manager (SM)**

- A. Maintains overall control of the medical emergency.

**4.2. Fire Brigade Leader**

- A. Maintains command and control of the medical emergency scene.

**4.3. Security Shift Supervisor**

- A. Initiates the Security Shift Supervisor Checklist and ensures a Security Force Member is responding to the event.

**4.4. Radiation Protection**

- A. Provides radiation protection guidance at the scene of the incident and, if necessary, at the hospital.

**5.0 PROCESS****5.1. CRO Actions**

- A. IF a notification is received of an illness or injury,  
THEN perform the following actions:

**NOTE**

If making announcements via GAltronic, always place in merge mode.

1. Notify the Fire Brigade Leader/Member by phone, radio or GAltronic and request response to investigate.
2. Initiate the CRO Checklist (Attachment 1).
3. Notify the SM of the situation.

**5.2. SM Actions**

- A. IF notified of a medical emergency,  
THEN:
1. Assign personnel to assist, as appropriate (that is, Security, RP, and so forth).
  2. Ensure transportation of patient to hospital is provided as needed.
  3. Perform notifications per Attachment 1, CRO Medical Emergency Checklist.
  4. IF the patient is contaminated AND requires transport,  
THEN ensure NRC notification per 10CFR50.72 within eight (8) hours.

## 5.2.A (Continued)

**NOTE**

- Per the Security Plan, protected area entry of offsite ambulance(s) during an emergency may be expedited through implementation of approved compensatory measures described in security procedures. However, should the Security Shift Supervisor report that approved compensatory measures cannot be achieved, (for example, due to unavailability of security personnel), and the event represents a significant hazard to life or station safety, then the SM may authorize waiver of safeguards measures as needed to expedite entry of the vehicle(s).

5. IF the medical emergency is life threatening as determined by trained medical responders and security compensatory measures can NOT be implemented per the Security Plan and implementing procedures, the SM may waive security safeguards measures as necessary to expedite ambulance arrival and departure per GAP-OPS-01, Administration of Operations, for guidance on invoking 10CFR50.54[X] and[Y].
6. Transportation of an ill or injured worker to an off-site treatment facility:
  - a. To ensure the appropriate level of care is provided, all workers with major or potentially life threatening injuries or illnesses shall be transported via ambulance to a hospital emergency room for medical evaluation and care. Typically, transport shall be to the closest facility which is the Oswego Hospital; however, based on medical assessment, alternatives are acceptable. Examples of reasons to require an ambulance include but are not limited to:
    - Falls from height greater than 4 feet
    - Significant blood loss
    - Having excessive uncontrolled bleeding
    - Bone fracture (based on judgment)
    - Serious burns
    - Loss of consciousness or altered state of consciousness
    - Difficulty breathing
    - Chest pain
    - Severe injury (based on judgment)
    - Reported multiple patients injured
  - b. It is recognized that workers may feel that in certain cases, their injury or illness is too minor to be transported by ambulance to the hospital emergency room. However if the injury is major or potentially life threatening, site personnel shall be required to be seen by Site Medical, Site Emergency Medical Technicians (EMTs) or the ambulance, at which time the worker can refuse transport as validated by their signature on a patient refusal form per the Central New York Emergency Management protocol.

## 5.2.A.6 (Continued)

- c. Workers should recognize that for life threatening and serious injuries, there are significant advantages to using the ambulance including:
  - Medical treatment is continued during transport
  - Trained personnel are able to change the type of care based on changes in patient condition; and
  - Emergency rooms are run to accept patients transported by ambulance before walk-ins.
- d. If workers refuse medical assessment and transportation, Site Medical, Site EMTs or the responding EMS agency will provide the appropriate patient refusal documentation.
- e. Workers with major or potentially life threatening injuries or illnesses shall not be transported via another site person's vehicle or supervisor's personal vehicle. This practice if allowed may cause increased risk as the personal vehicle level of care is below that of the ambulance.
- f. For less serious injuries (as determined by Site Medical or Site Fire Brigade or Ambulance EMTs), the following choices apply for those cases in which the injured or ill worker chooses not to use the ambulance. The injured or ill worker can:
  - Transport by CNG Company vehicle
  - Call a family member for transport
  - Call a taxi for transport
7. Contact Fitness for Duty (FFD) Department to ensure requirements for testing are met.
8. Direct quarantine of the area in which an injury occurred until an investigation is completed.

**5.3. Fire Brigade Leader / Member Actions****CAUTION**

For fires on-site, 10CFR50 Appendix R/NFPA 805 requires that fighting the fire shall take precedence over all other activities involving the Fire Brigade Leader and Fire Brigade Members. The Fire Brigade Leader may in his/her judgment assign Fire Brigade Members duties associated with this procedure if it is determined that sufficient Fire Brigade Members are available to ensure the protection of Safe Shutdown equipment.

- A. Perform the following actions upon being notified of a medical incident:
  1. Acknowledge receipt of the message to the CRO.
  2. Direct Fire Brigade Members and other response staff as needed.
  3. Report to appropriate fire equipment cabinets.
  4. Obtain needed equipment. (Minimum equipment: first aid kit, oxygen kit, and AED). Refer to FB-SOG-8.0, Fire Brigade Leader Response Guide.

## 5.3.A (Continued)

5. Coordinate response to the accident scene with responding Security Force Members.
  6. Report to the scene.
  7. Perform initial assessment.
  8. IF incident is or could be life threatening, or requires an ambulance or rescue, THEN inform the CRO and request an ambulance or rescue.
  9. IF not life threatening, provide appropriate first aid.
- B. Determine the need for the following, and request required resources from the CRO:
1. Radiation Protection
  2. Ambulance (See Attachment 3 for suggested staging and triage areas.)
  3. Radiation Emergency Area (REA) setup at hospital
- C. Advise the CRO that the medical incident or emergency is terminated when NMPNS resources are no longer needed on-site, or when the ambulance has left the scene.
- D. Complete a Medical Treatment Report, ISM Chapter 2, Injury, Illness and Near Miss Reporting, Attachment 8, Medical Treatment Report, and return completed form to Industrial Safety and Health.
- E. For patients who refuse ambulance transport, ensure they sign-off the patient refusal section of the ambulance Patient Care Report (PCR).

## 5.4. Radiation Protection (RP) Technician Actions

- A. IF notified to respond to a medical emergency, THEN:
1. Acknowledge receipt of the message to the CRO.
  2. Obtain the needed equipment and supplies (such as a count rate meter).
  3. Report to the scene.
- B. Perform the following actions upon arriving at the scene:

**CAUTION**

Rad Protection/contamination control concerns SHALL NOT interfere with patient care, nor shall it delay transport of the patient to the hospital.

1. Determine contamination status of the patient and report this to the Fire Brigade Leader.
2. IF a situation exists where it cannot be confidently declared that the patient is "NOT Contaminated", (for example: injured area is covered for medical reasons before being able to survey), THEN inform the Fire Brigade Leader to consider the patient "Contaminated."
3. Perform an area survey and make any recommendations to the Fire Brigade Leader.

## 5.4.B (Continued)

4. Ensure appropriate radiological controls are used.

**NOTE**

The wearing of gloves by all personnel is for blood borne pathogen concerns as well as for radiological precautions.

5. IF transport of a contaminated patient is required, AND decontamination is not practical, or would delay patient transport, THEN recommend that the patient be "cocooned" AND accompany the patient to the hospital.
  6. IF patient condition warrants, carefully remove or cut-off contaminated clothing.
  7. IF areas of high skin contamination exist, THEN gently cover the affected area.
  8. Based upon radiation and contamination assessment of the patient, advise the Security Force Member to either:
    - retrieve the patients dosimetry, or
    - leave the dosimetry with the patient for later decontamination
- C. Perform the following upon arrival of the ambulance:
1. Travel with the patient in the ambulance to provide radiological assistance.
    - a. Advise ambulance personnel to limit cross-contamination, through frequent glove changes.
    - b. Verify that all potentially contaminated materials (such as bandages and clothing) are retained.

**NOTE**

An RP supervisor and technician will meet the ambulance at the hospital.

- D. Upon arrival at the hospital, the RP technician shall:
1. Ensure hospital staff are made aware of contamination status immediately upon arrival.

**NOTE**

An unknown contamination status should be handled as a contaminated patient until proven otherwise.

2. If conditions warrant, ensure dosimetry is issued from the Nuclear Emergency cabinet to physicians and hospital staff.
3. When the ambulance is no longer needed survey the ambulance for possible contamination. If ambulance is contaminated and cannot be decontaminated through normal efforts, it should be returned to Nine Mile Point for decontamination.

## 5.4.D (Continued)

4. If dosimetry has been issued to ambulance personnel, retrieve dosimetry and record required data on Dosimetry Issue Sheet.
5. Provide radiological assistance to hospital personnel during decontamination of patient and medical treatment.
6. Recommend frequent glove changes to hospital staff to prevent the spread of contamination.
7. Ensure that any excised tissue is placed in separate vials provided in the sample kit and keep for later analysis.
8. Upon completion of treatment, contact Supervisor Rad Materials Processing for instructions on the packaging and shipping back to Nine Mile Point, of any radioactive materials or waste generated during treatment of the patient(s).
9. Assist hospital personnel while frisking.
10. Survey the Radiological Emergency Area and equipment for release.
11. Upon return to Nine Mile Point, perform required follow-up analysis and complete paperwork as necessary. Ensure signouts/logoffs on appropriate Radiation Work Permits.

## 5.5. Security Actions

- A. IF notified of a medical emergency,  
THEN the Security Shift Supervisor shall:
  1. Acknowledge receipt of the message to the CRO.
  2. Initiate the Security Shift Supervisor checklist (Attachment 2).
- B. IF notified to respond to a medical emergency,  
THEN the Security Force Member, upon arrival at the reporting location:
  1. Assist the Fire Brigade Leader as needed/directed.
  2. IF the RP Technician indicates that the patient's dosimetry and security badge are not contaminated,  
THEN retrieve them unless otherwise directed by the RP technician.

**NOTE**

If the injured person is radioactively contaminated, coordinate retrieval of items with RP Tech. If needed, RP personnel may package and label items for subsequent follow-up.

- a. If possible, ascertain if the injured person is in possession of a vital area key and, if so, direct a Security Force Member (SFM) to retrieve it.
- b. If the individual is a SFM and if applicable, retrieve the SFMs firearm and any security related keys the SFM may be carrying.
- c. If applicable, obtain the individuals dosimetry.

## 5.5 (Continued)

- C. IF Local Law Enforcement Agencies (LLEA) or other law enforcement agencies (for example, FBI) are required due to the nature of the event, THEN:
1. Coordinate law enforcement access on-site and to the scene.
  2. Coordinate with law enforcement access to the scene by NMP Damage Control Teams as deemed appropriate and necessary.

**NOTE**

Guidance for appropriate and necessary determination includes, but is not limited to, damage control team missions critical to protect the health and safety of workers and the public, mitigation of plant events to preclude escalation to a higher emergency classification. The Technical Support Center Manager may be consulted for assistance in determination if appropriate and necessary.

**5.6. Site Medical Actions**

- A. Site Medical shall contact the Control Room if an ambulance is required when a patient is at Site Medical.

**5.7. Terminating a Medical Emergency**

- A. Upon termination of the medical emergency the Fire Brigade Leader shall return equipment used (as applicable) to operational status.
- B. Upon termination of the medical emergency the Security Force Member shall report back to assigned duties as directed by the Security Shift Supervisor.
- C. If the patient was not contaminated, upon termination of the medical emergency, the Radiation Protection Technician shall restore equipment used to operational status and return to normal duties.

**5.8. Serious or Fatal Injury/Illness Reporting**

- A. If a serious or fatal injury / illness of a worker occurs:
- Implement the actions of the Industrial Safety Manual, Injury, Illness and Near Miss Reporting.
  - Report incident per 10CFR50.72(b)(2)(xi)

**6.0 BASES**

- 6.1. None

**7.0 RECORDS**

- 7.1. The following records generated by this procedure shall be maintained by Records Management for the Permanent Plant File per CNG-PR-3.01-1000, Records Management.

**NOTE**

This only applies if records are generated as the result of an actual medical emergency at the Nine Mile Point Nuclear Station.

- CRO Checklist - Medical Emergency
- Security Shift Supervisor Medical Emergency Checklist

- 7.2. The following records generated by this procedure are not required for retention in the Permanent Plant File:

**NOTE**

This only applies when records are the result of a drill.

- CRO Checklist - Medical Emergency
- Security Shift Supervisor Medical Emergency Checklist



Attachment 1, CRO MEDICAL EMERGENCY CHECKLIST

NAME:	DATE:	UNIT: <input type="checkbox"/> 1 <input type="checkbox"/> 2
-------	-------	---

TIME OF NOTIFICATION \_\_\_\_\_ LOCATION OF MEDICAL EMERGENCY \_\_\_\_\_

**Completed**    **N/A**

1. IF upon notification of a personnel injury or illness and the person reports the following conditions:

- A. Unconscious or Altered state of Consciousness
- B. Chest Pains
- C. Having difficulty breathing
- D. Having excessive uncontrolled bleeding
- E. Significant blood loss
- F. Broken bones
- G. Serious burns
- H. Falls greater than 4 feet
- I. Severe injury (based on judgment from information received)
- J. Reported multiple patients injured.

**THEN** perform the following while continuing at Step 3:

Immediately contact Oswego County 911 Center at 343-1313 and **request an Ambulance** to be sent to **Nine Mile Point Constellation Energy Security Checkpoint, 350 Lake Road**. REPEAT the location a second time and verify the 911 center acknowledges the location. ....

2. IF upon notification of a MINOR personnel injury or MINOR illness

**THEN CONTINUE** to Step 3.D .....

3. Notify the Fire Brigade Leader, provide location, type of emergency, and status of the ambulance. ....

A. Place GAltronics in "Merge" mode.

B. If the event is a drill, make the following announcement preceding the station alarm and announcement:

"This is a drill, this is a drill." .....

C. Sound station alarm for approximately 10 seconds and announce:

*"Attention, attention all personnel, This is (a Drill/an actual event), the Fire Brigade is directed and any available Qualified EMT/CFR is requested to report to \_\_\_\_\_ in response to a medical emergency. I repeat, this is (a drill/an actual event)." .....*

Repeat the station alarm and the announcement.....

Leave in Merge Mode until event termination.

Attachment 1, CRO MEDICAL EMERGENCY CHECKLIST (Continued)

Completed N/A

- D. Notify the Fire Brigade Leader to provide details, location, and nature of emergency (Minor personnel injury or Minor illness), then continue to Step 4. ....

**NOTE**

Fire Brigade Leader, if needed can request additional support as required: EMTs, Site Medical, CFRs, or additional Fire Brigade members.

- 4. Notify the SM .....
- 5. Take ANY of the following actions, IF requested by the Fire Brigade Leader:
  - A. IF Radiation Protection assistance is required, THEN contact RP and request that they report to the scene of the medical emergency .....
  - B. IF an ambulance or rescue is required, and has not been requested in Step 1 of this attachment, refer to Attachment 4, THEN:
    - 1. Immediately contact Oswego County 911 Center at 343-1313 and **request an Ambulance** to be sent to **Nine Mile Point Constellation Energy Security Checkpoint, 350 Lake Road.** REPEAT the location a second time and verify the 911 center acknowledges the location. ....

**NOTE**

IF patient is contaminated OR potentially contaminated, THEN inform 911 Center of this.

- 2. Contact Security Shift Supervisor (5222 or 2872) and request a security force member to respond to the event location AND inform them of the impending ambulance arrival. ....
- 3. WHEN the Fire Brigade Leader has requested setup of the Hospital Radiation Emergency Area (REA), OR WHEN the patient is contaminated or potentially contaminated, THEN:
  - a. Contact Oswego Hospital at 349-5522 .....
  - b. Inform them of the number of patients .....
  - c. Request setup of the REA .....

Attachment 1, CRO MEDICAL EMERGENCY CHECKLIST (Continued)

NOTE

If hospital requests patient status OR extent of injuries AND this information is known, it may be given to the hospital.

- C. IF transportation by NMP vehicle is requested, THEN request that the SM notify the injured person's supervisor to obtain the necessary vehicle and driver.....
- D. If it is necessary for the RP Technician to accompany the ambulance, THEN
  - 1. Request permission from the SM for the RP Technician to accompany the ambulance.....
  - 2. Transmit that permission to the RP Technician at the incident scene .....
  - 3. Contact the RP Supervisor, inform him of the incident and direct them to the hospital.....
- E. SM evaluate staffing, and if necessary take action to restore staffing levels. ....
- F. IF the incident requires transportation by ambulance or is determined to be a Medical Emergency (Full Brigade response with Station Announcement) THEN request SM perform notifications per the Station Specific Notification Requirements.....
- G. IF the incident involves a contaminated injury/illness AND requires transportation, THEN: Direct Security Shift Supervisor to contact Senior Communications Consultant and provide details of the incident .....
- H. WHEN the patient has left the site OR when the Fire Brigade Leader indicates the emergency is terminated, THEN inform the SM that the emergency is terminated .....
- I. WHEN notified that the emergency is terminated, IF an announcement was made indicating a medical emergency was in progress, PERFORM the following:
  - 1. If the event is a drill, make the following announcement preceding the station alarm and announcement:
    - "This is a drill, this is a drill." .....
  - 2. Sound station alarm and announce:
    - "The medical emergency has been terminated." .....
- J. IF any Medical/Rescue Equipment was used during the emergency, THEN Fire Brigade Leader will perform EPMP-EPP-02, Emergency Equipment Inventories and Checklists for the applicable attachments and reconcile any missing supplies per procedure.....

**Attachment 2, SECURITY SHIFT SUPERVISOR MEDICAL EMERGENCY CHECKLIST**

NAME:	DATE:	UNIT: <input type="checkbox"/> 1 <input type="checkbox"/> 2
-------	-------	---

**NOTE**

During a medical emergency, one or more ambulances may be dispatched to Nine Mile Point dependent upon level of care required or availability of site resources. If the emergency is inside the protected area, reporting ambulances should be permitted prompt entry through implementation of compensatory measures described in the Security Plan and security implementing procedures.

**Enter N/A when appropriate and explain reason for use of N/A.**

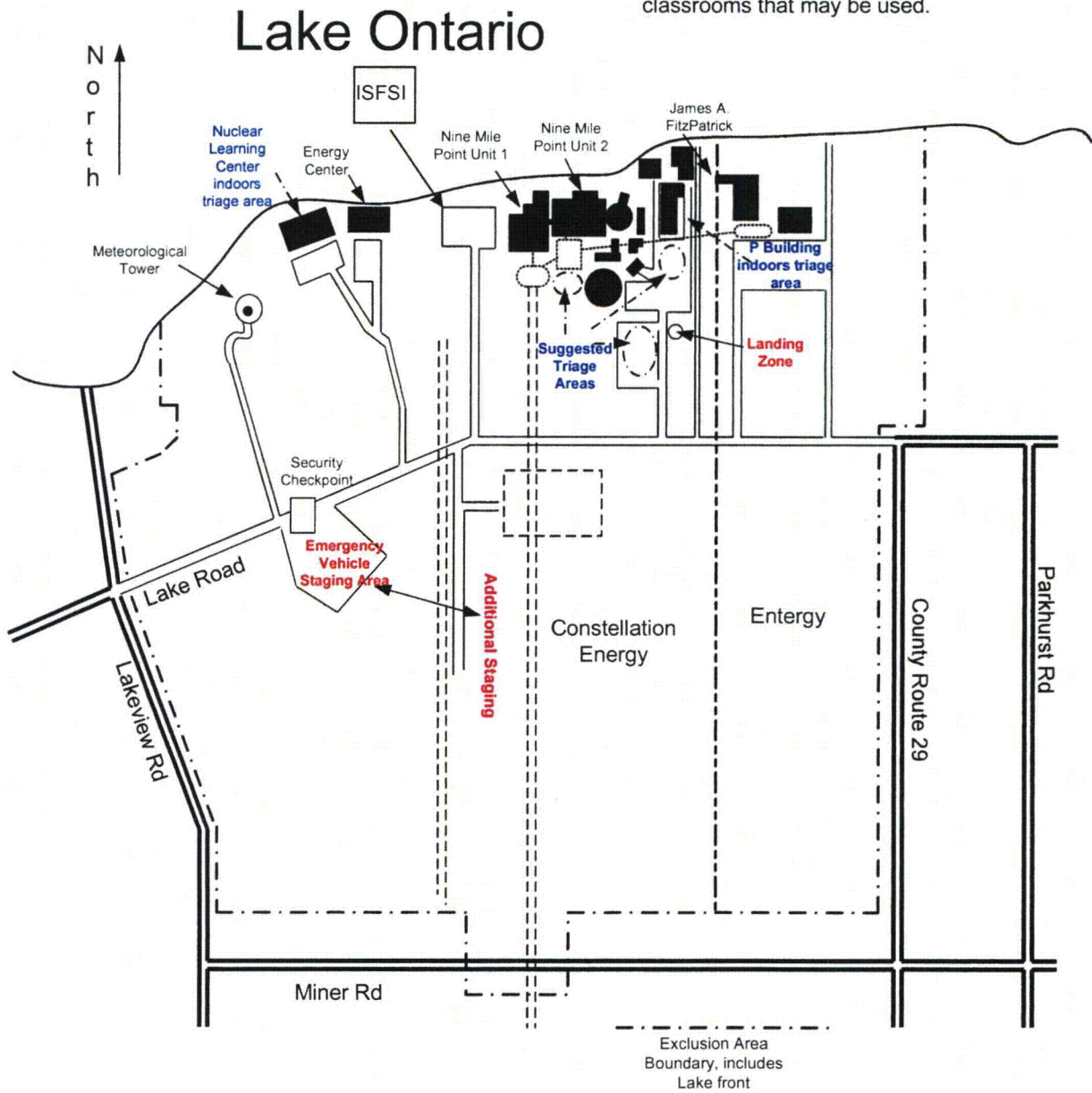
Completed   N/A

- |    |   |   |   |
|----|---|---|---|
| 1. | Acknowledge receipt of message from CRO, and <u>if entry into the protected area is required for offsite emergency vehicle(s)</u> , implement compensatory measures per applicable security procedures to expedite entry. If compensatory measures can <u>NOT</u> be implemented (for example, due to unavailability of security personnel to support compensatory measure(s), request SM approval to waive safeguards measures per Section 5.2.A. .... | □ | □ |
| 2. | Ensure Security Force Member dispatched to event scene coordinates communication between Security Department and Fire Brigade Leader, and assists in crowd control at the scene .....   | □ | □ |
| 3. | Ensure Ambulance/Fire Kit is brought to medical emergency scene .....   | □ | □ |
| 4. | If an ambulance must enter the protected area ensure dosimetry is issued to responding off-site ambulance personnel .....   | □ | □ |
| 5. | For an entry into the protected area record ambulance attendant names on Security Entrance Registration Log .....   | □ | □ |
| 6. | IF the patient is NOT contaminated, THEN ensure patient and off-site response personnel dosimetry are retrieved per applicable procedure before their leaving site, unless otherwise directed by RP.....  | □ | □ |
| 7. | Notify the CRO when the ambulance has departed the site .....   | □ | □ |
| 8. | IF Fire and Ambulance Kit is used, THEN notify Radiation Protection Department to perform Ambulance Kit inventory per EPMP-EPP-02 .....   | □ | □ |
| 9. | IF Local Law Enforcement Agencies (LLEA) or other law enforcement agencies are required (for example, FBI), coordinate access on-site and to the scene. Also coordinate with law enforcement access to the scene by Damage Control Teams or SFMs as required .....  | □ | □ |

Attachment 3, SUGGESTED STAGING AND TRIAGE AREAS

**NOTES:**

- Suggested Triage areas are for planning purposes. Any area deemed suitable by EMS lead responder may be used.
- If needed for cover due to inclement weather, the Nuclear Learning Center and/or the P Building have large classrooms that may be used.



Attachment 4, MEDICAL RESPONSE FLOW CHART

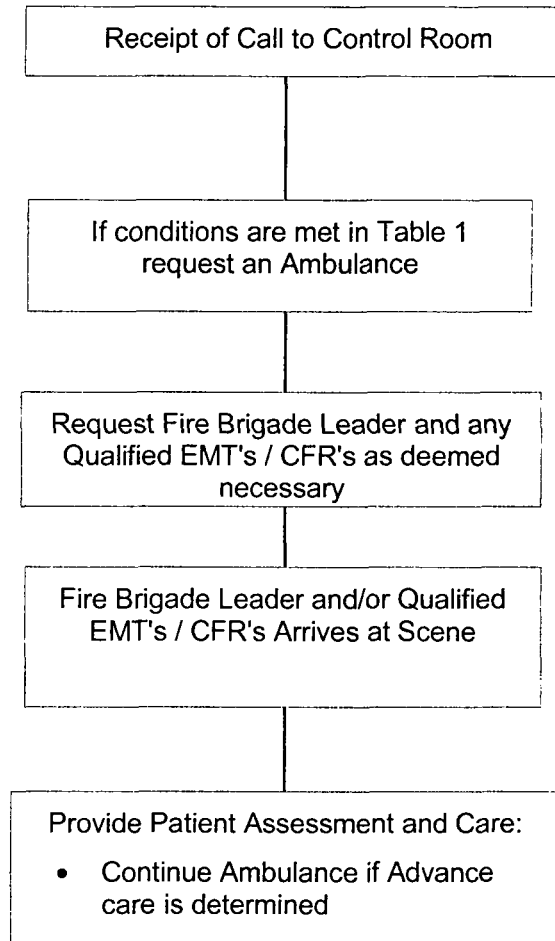


TABLE 1 INFORMATION

- A. Unconscious or Altered state of Consciousness
- B. Chest Pains
- C. Having difficulty breathing
- D. Having excessive uncontrolled bleeding
- E. Significant blood loss
- F. Broken Bones
- G. Serious Burns
- H. Falls greater than 4 feet
- I. Severe injury (based on judgment from information received)
- J. Reported multiple patients injured

**NOTE:**  
 Patient refusal can only be addressed by Site Medical or Qualified EMT/Ambulance Medical Personnel. Refusal of transport needs to be documented on Patient Care Report (PCR) form.

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## **Nine Mile Point Nuclear Station Station Administrative Procedure**

### **EPIP-EPP-28**

**FIREFIGHTING**

**REVISION 01900**

**THIS PROCEDURE REQUIRES A 10 CFR 50.59 / 10 CFR 72.48 REVIEW**

**Tech Spec Related**

**INFORMATION USE**

**Applicable To:**

- **Nine Mile Point Nuclear Station**

**Approval Authority: Director Emergency Preparedness (NMP)**

---

**SUMMARY OF ALTERATIONS****Revision    Change    Summary of Revision or Change**

**019            00**    Incorporated PCR-14-02280 to update procedure numbers following changeover to fleet common ERO.

PCR-14-02280

Update references to EPIP-EPP-01 and EPIP-EPP-02 to CNG-EP-1.01-1013.

- 2.2.A
- 2.2.B
- 5.2.A.5

Update references to EPIP-EPP-05A and EPIP-EPP-05B to CNG-EP-1.01-1009.

- 5.2.A.4
- 5.2.B.4
- Att. 1, Step 9
- Att. 2, Step 7
- Att. 3, Step 6.b

Update reference to EPIP-EPP-18 to CNG-EP-1.01-1019

- 2.2.C
- 5.2.A.6

Incorporated PCR-14-02052 to add developmental references for NFPA 805 implementation at Unit 1.

PCR-14-02052:

Changed Step 2.1.M to N1-SOP-21.1

Add NFPA 805, Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants

WRITER CHANGES:

Update references to EPIP-EPP-11 to OP-AA-106-103.

- Step 2.2.D
- Att. 1, Step 7



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## 1.0 INTRODUCTION

### 1.1 Purpose

- A. To provide prompt, efficient handling of any fire, regardless of size or presence of radioactivity, by the on-site Nine Mile Point Fire Brigade.

### 1.2 Scope/Applicability

- A. This procedure applies to all personnel assigned to the Emergency Response Organization (ERO) at Nine Mile Point Nuclear Station

## 2.0 REFERENCES

### 2.1 Developmental References

- A. 10CFR50, Appendix R, Fire Protection Program for Nuclear Power Facilities Operating Prior to January 1, 1979
- B. 10CFR73.55(p), Suspension of Security Measures
- C. NUREG-0654-FEMA-REP-1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants, October 1980
- D. Unit 1 FSAR, Chapters X, XIII
- E. Unit 2 USAR, Chapters 9, 13
- F. U2 Technical Specifications, Section 6.2.2
- G. Nine Mile Point Site Emergency Plan
- H. CR-2005-3158, Provide references to appropriate EALs
- I. DER NM-2001-2226, Attachment 1, to direct CRO to make an announcement regarding evacuation of a CO2 protected area during a fire event
- J. EPIP-EPP-20, Emergency Notifications
- K. EPIP-EPP-32, Resource and Communications Contingency Guidelines
- L. Fleet Industrial Safety Manual
- M. N1-SOP-21.1, Fire in Plant
- N. Nine Mile Point Physical Security, Safeguards Contingency and Security Training and Qualification Plan
- O. NFPA 805, Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants

### 2.2 Performance References

- A. CNG-EP-1.01-1013, Emergency Classification and PAR
- B. CNG-EP-1.01-1009, Assembly, Evacuation and Accountability
- C. CNG-EP-1.01-1019, Shift Emergency Operations
- D. OP-AA-106-103, Chemical Release or Spill Assessment and Response Determination

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**2.2 (Continued)**

- E. EPMP-EPP-02, Emergency Equipment Inventories and Checklists
- F. GAP-OPS-01, Administration of Operations
- G. N1-DRP-OPS-001, Emergency Damage Repair
- H. N1-OP-21C, Fire Protection System – LP/HP CO2
- I. N1-OP-21D, Fire Protection System – Halon 1301
- J. N2-DRP-OPS-001, Emergency Damage Repair
- K. N2-OP-45, Fire Protection Carbon Dioxide
- L. N2-OP-46, Fire Protection - Halon

**3.0 DEFINITIONS****3.1. Assembly Area (unless otherwise directed by the Fire Brigade Leader)**

For NMP1: Turbine Building 261' at LFP #1.

For NMP2: Electric Bay 261' by Turnout Gear Lockers

**3.2. Confirmed Fire**

A condition in which credible evidence exists that a fire is actually occurring. A fire may be considered as confirmed given ANY of the following: fire alarm/annunciator and suppression system activation accompanied by actual flow or discharge, or reported actual fire with flames showing.

**3.3. Incident Command System (ICS)**

The Incident Command System (ICS) is a standardized, on-scene, all-hazards accident management approach that:

- Allows for the integration of facilities, equipment, personnel, procedures, and communications operating within a common organizational structure.
- Enables a coordinated response among various jurisdictions and functional agencies, both public and private.
- Establishes common processes for planning and managing resources.

See Attachment 5, ICS Chart and Terminology for positions and terminology.

**4.0 RESPONSIBILITIES****4.1. Shift Manager (SM)**

- A. Has overall responsibility for the initial implementation of the Site Emergency Plan and Implementing Procedures.
- B. Coordinates the testing and performing of inventories as required by EPMP-EPP-02, Emergency Equipment Inventories and Checklists.

**4.2. Control Room Operator (CRO)**

- A. Notifies fire response personnel, coordinates the response of site personnel, and makes notifications to site personnel.

**4.3. Fire Marshal**

- A. Ensures the Fire Brigade Leader maintains fire response control of firefighting activities on-site.
- B. Acts as a liaison with the Shift Manager, Fire Brigade Leader, and external organizations for large fires or events requiring multiple external resources, if available.

**4.4. Security Shift Supervisor**

- A. Implements security-related aspects of this procedure.

**4.5. Radiation Protection Technician**

- A. Implements the radiation protection aspects of this procedure.

**5.0 PROCESS****5.1. Fire Alarm Response****NOTE**

See Section 5.2 for a report of a fire.

- A. Upon annunciation or notification of a fire alarm, the CRO shall determine the location of the alarm source:
  - 1. If the alarm IS associated with an automatic suppression system actuation within the protected area, initiate response per Section 5.2.
  - 2. IF: CO<sub>2</sub> or Halon has been released to areas contiguous to the control room, THEN: Ensure control room is at a positive pressure relative to outside air pressure or initiate pressurization mode of control room ventilation, AND: As a precaution, monitor oxygen levels in the control room continuously until event termination. AND: Advise the SM to consider classification per EAL Category H.3.
  - 3. If the alarm is NOT associated with the actuation of an automatic suppression system within the protected area, OR is outside the Protected Area, validate alarm per Step 5.1.B.
  - 4. If the alarm is associated with a CO<sub>2</sub> or Halon system that has been placed in "Alarm-Only" (manual discharge), initiate response per Section 5.1.C.

## 5.1 (Continued)

- B. Alarms NOT associated with the actuation of an automatic suppression system within the protected area shall be handled as follows:
  - 1. CRO shall notify the Fire Brigade Leader of the alarm or fire condition.
  - 2. Fire Brigade Leader or at least one fire brigade member shall be dispatched to the alarm location to verify a fire condition.
  - 3. If a fire condition which requires fire brigade response exists within the protected area, the responder(s) shall notify the CRO to activate the fire brigade per Section 5.2.
  - 4. If no condition exists which requires fire brigade response, responders shall notify the CRO of the condition resulting in fire detection operation and exit this procedure.
  - 5. If a fire condition exists outside the protected area continue with Step 5.3.
- C. Alarms associated with areas protected by CO<sub>2</sub> or Halon systems that have been placed in "Alarm Only" (manual discharge) shall be handled as follows:
  - 1. CRO shall notify the Fire Brigade Leader of the alarm or fire condition.
  - 2. Fire Brigade Leader or at least one fire brigade member shall be dispatched to the alarm location to verify a fire condition.
  - 3. CRO shall request from Security an accountability check of the area as soon as fire brigade member is dispatched.
  - 4. If a fire condition which requires fire brigade response exists within the protected area, the responder(s) shall notify the CRO to activate the fire brigade per Section 5.2.
  - 5. If no condition exists which requires the fire brigade response, responders shall notify the CRO of the condition resulting in fire detection operation and exit this procedure.
  - 6. If a fire condition exists outside the protected area continue with Section 5.3.

**5.2. Fires Reported within the Protected Area****NOTE**

- If the OSC is activated, then all fire brigade response should be coordinated through the OSC. This may be done in person, via telephone, Gaitronics, or radio.
- IF off-site fire response is required AND the event represents a significant hazard to life or station safety, THEN the SM may waive safeguards as necessary to expedite entry of off-site emergency vehicle(s).
- IF the SM gives permission to waive safeguards AND those safeguards are waived, THEN refer to GAP-OPS-01, Administration of Operations, for guidance on invoking 10CFR50.54 [X] and [Y].

**A. SM Actions**

1. When credible evidence exists of a fire condition within the Protected Area, direct the CRO to implement Attachment 1, CRO Firefighting Checklist.
2. For large fires affecting multiple areas, management of firefighting resources may require a response coordinated between the control room or other Operations personnel with responding fire departments to ensure or provide (See N1-DRP-OPS-001, Emergency Damage Repair, N2-DRP-OPS-001, Emergency Repair, as appropriate):
  - Makeup water for reactor core cooling, or spent fuel pool cooling
  - Safety system component cooling
  - Water sprays for scrubbing of fission products
3. If off-site fire response is required AND the event represents a significant hazard to life or station safety, and security compensatory measures CANNOT be implemented per the Security Plan and implementing procedures, THEN the SM may waive safeguards as necessary to expedite entry of off-site emergency vehicle(s) per GAP-OPS-01, for guidance on invoking 10CFR50.54[X] and [Y].
4. If evacuation is needed and safe, then implement CNG-EP-1.01-1009, Assembly, Evacuation and Accountability.
5. Determine the need to classify the event per CNG-EP-1.01-1013, Emergency Classification and PAR. Consider EAL Categories H.2 and H.3.
6. If the event is classified as an emergency per Step 5.2.A.5, then activate the emergency plan per CNG-EP-1.01-1019, Shift Emergency Operations.
7. If deemed appropriate, report to the fire scene to assess the effect of the fire on continued plant operation.

5.2.A (Continued)

- 8. **IF:**
  - a. Indication of fire has been received but it has been determined that no fire exists, OR
  - b. The Fire Brigade Leader indicates that the fire has been extinguished,

**THEN:**

- c. Direct the CRO to make an announcement terminating the fire event per Attachment 1, Step 10 of this procedure.
- B. Fire Brigade Leader Actions
- 1. When the Station fire alarm is sounded AND the OSC is not activated, then:
    - a. Acknowledge receipt of the alarm to the CRO.
    - b. Based upon the location of the fire, report to and assess the fire scene. Establish a command post in a location away from the fire scene, from which firefighting activities can be safely directed.

**NOTE**

Consideration should be given to establishing the command post at the fire panel closest to the event. However, the location of the command post will be dictated by actual conditions and is at the discretion of the Brigade Leader.

- c. Provide direction to fire brigade members as appropriate.
  - d. Inform the CRO of actual conditions at the scene, confirm the fire condition, if appropriate, and report location of command post.
  - e. Request off-site assistance, if needed.
- 2. When the Station fire alarm is sounded AND the OSC is activated, then:
    - a. Acknowledge receipt of the alarm to the CRO.
    - b. Contact the OSC Communicator at ext. 2282 or via Gaitronics or fire radio.
    - c. Request briefing.
    - d. Report to and assess the fire scene, brief fire brigade members concerning safety considerations received from the OSC (personal and radiological safety).

**NOTE**

Consideration should be given to establishing the command post at the fire panel closest to the event. However, the location of the command post will be dictated by actual conditions and is at the discretion of the Brigade Leader.

- e. Establish a command post in a location away from the fire scene, from which firefighting activities can be safely directed.

## 5.2.B.2 (Continued)

- f. Provide direction to fire brigade members as appropriate.
- g. Inform the CRO of actual conditions at the scene, confirm the fire condition, if appropriate, and report location of command post.
- h. Request off-site assistance, if needed.

**NOTE**

For large fires affecting multiple areas, management of firefighting resources may include a response that must be coordinated with the control room or other Operations personnel to ensure or provide:

- Makeup water for reactor core cooling, or spent fuel pool cooling
- Safety system component cooling
- Water sprays for scrubbing of fission products

3. If off-site fire department assistance is needed, then
  - a. Request off-site assistance from the CRO and provide the CRO with command post location.
  - b. Upon arrival of off-site Fire Department(s), provide direction to responding off-site Fire Department(s) using the incident command system.  
Consider paring off-site Fire Department personnel with fire brigade members to ensure availability of continuous site communications with the team, accountability of personnel, and escorting.
  - c. Maintain overall command of the on-site fire scene and coordinate all off-site assistance with the appropriate officer in charge using the incident command system.
  - d. Communicate with the control room using (if available) the licensed nuclear operator assigned to the command post as necessary to ensure safety of personnel, safety of plant equipment and that activities needed by the SM are being accomplished.
  - e. Consider staging other responding Fire Department resources (vehicle(s), equipment and personnel) at staging areas (see Attachment 4, Suggested Staging Areas and Landing Zone Locations for possible locations for staging areas), to ensure roadways remain clear for evacuating personnel, responding medical units or other required equipment.
  - f. If helicopters are required or requested for water drops or for medical emergencies, request off-site Fire Department Chief establish a Landing Zone. (See Attachment 4 for possible landing zone locations.)
  - g. Coordinate with the off-site Fire Department Chief as necessary to request/obtain additional assistance using Oswego County Mutual Aid agreements.
  - h. Suggested triage areas are outlined on Attachment 4.



5.2.B (Continued)

4. Request the SM (via the CRO) conduct a Local Area/Building Evacuation using CNG-EP-1.01-1009, if required.
5. If a local area/building evacuation is initiated, record the names of all personnel engaged in firefighting activities to ensure all personnel are accounted for at all times and provide the names to the CRO.
6. When the fire has been extinguished:

**NOTE**  
Fire event may be terminated when the fire has been reported as extinguished.

- a. Inform the CRO that the fire is out and state that the fire event may be terminated.
  - b. Take air samples to determine ventilation needs.
  - c. IF air samples exceed the following values (per Fleet Industrial Safety Manual), report toxic levels to the SM:
    - CO greater than 35 ppm
    - O<sup>2</sup> less than 19.5% or greater than 23.5%
    - H<sub>2</sub>S greater than 10 ppm
    - Flammability LEL greater than 10%
  - d. Establish a fire watch, if necessary.
  - e. Return firefighting equipment used to service and conduct post-use inventory per EPMP-EPP-02.
  - f. Ensure fire area is secure for investigative measures.
- C. Fire Brigade Member Actions
1. Report to the appropriate fire equipment storage cabinets, unless otherwise directed.
  2. Obtain protective clothing, SCBA, and firefighting tools.
  3. Report to the fire scene, or other location as directed by the Fire Brigade Leader.
  4. Follow all directions provided by the Fire Brigade Leader.
- D. Security Shift Supervisor Actions
1. When notified of a fire, implement Attachment 2, Security Site Supervisor Firefighting Checklist.
- E. Radiation Protection Technician Actions
1. When notified of a fire, implement Attachment 3, Radiation Protection Firefighting Checklist.

**5.3. Actions for Fires Outside the Protected Area**

**NOTE**

If the OSC is activated, then all fire brigade response should be coordinated through the OSC. This may be done in person, or via telephone, gaitronics, or radio.

- A. SM Actions
  - 1. The SM in the control room that receives the notification of the fire should:
    - a. Direct the CRO to complete Attachment 1.
    - b. May request a Communications Aide to report to the control room to assist in telephone and radio communications.
- B. CRO Actions
  - 1. Implement applicable sections of Attachment 1.
- C. Security Site Supervisor Actions
  - 1. Implement applicable sections of Attachment 2.
- D. Fire Brigade Leader/ Member Actions

**NOTES**

- If this is a confirmed fire, the CRO will have requested off-site fire assistance
- For fires outside the protected area, the off-site fire responders will typically be the lead agency

- 1. If a fire exists, the responding fire brigade leader/member(s) should attempt to extinguish the fire, if possible.
  - a. If the fire is readily extinguished, then request the CRO cancel responding off-site assistance as applicable.

## 5.3.D.1 (Continued)

- b. If the fire cannot be readily extinguished, then:
  - (1) Request that the CRO call for off-site fire assistance, if not already called.
  - (2) Inform Security of the command post location and request them to direct off-site fire department personnel, vehicle(s), and other equipment to the fire scene command post upon arrival.
  - (3) Request RP assistance if response involves an area where radioactive materials may be stored (such as Warehouse Environmental Area, Source Storage Areas, and so forth).
  - (4) Request SM evacuate the Local Area/Building.
  - (5) Upon arrival of off-site Fire Departments, provide appropriate directions using the incident command concept, and direct any other Fire Brigade member(s) to return to site.
  - (6) Transition command to the off-site Fire Chief and remain at the command post to provide support as needed.
- E. After the fire is extinguished, the Fire Brigade Leader/Member or on-scene fire fighters shall:
  - 1. Inform the CRO/Fire Brigade Leader that the fire is out and state that the fire event may be terminated.
  - 2. Establish a fire watch as needed.
  - 3. Return firefighting equipment used to service as applicable.
- F. Fire Brigade Leader/Member shall report to the CRO that the fire event is terminated.
- G. The SM should direct the CRO to make an announcement terminating the fire event per Attachment 1, Step 9 of this procedure when:
  - 1. Indication of fire has been received, but it has been determined that no fire exists, OR
  - 2. The fire brigade leader indicates that the fire has been extinguished.

**6.0 BASES**

- 6.1. None

**7.0 RECORDS**

- 7.1. The following records generated by this procedure shall be maintained by Records Management for the Permanent Plant File per CNG-PR-3.01-1000, Records Management:

**NOTE**

This only applies if records are generated as the result of an actual declared emergency at the Nine Mile Point Nuclear Station.

Attachment 1, CRO Firefighting Checklist

Attachment 2, Security Shift Supervisor Firefighting Checklist

Attachment 3, Radiation Protection Firefighting Checklist

- 7.2. The following records generated by this procedure are not required for retention in the Permanent Plant File:

**NOTE**

This only applies when records are not the result of an actual declared emergency.

Attachment 1, CRO Firefighting Checklist

Attachment 2, Security Shift Supervisor Firefighting Checklist

Attachment 3, Radiation Protection Firefighting Checklist

Attachment 1, CRO Firefighting Checklist

Name:	Date:	Unit: 1 <input type="checkbox"/> 2 <input type="checkbox"/>
-------	-------	---

Time entered: \_\_\_\_\_

Complete      N/A     

1. Upon notification of a fire, or upon receipt of an alarm AND actuation of an automatic Fire Suppression System:
  - a. IF alarm is in an LHRA, THEN IMMEDIATELY NOTIFY RP to respond with the Fire Brigade Leader to alarm location
  - b. Place the GALtronics system in the Merge Mode.....
  - c. If the event is a drill, make the following announcement preceding the fire alarm.
 

"This is a drill, this is a drill." .....
  - d. Sound the Fire Alarm for 10 seconds, and make the following announcement: .....  

**"Attention, Attention, this is (an actual event) (a drill). A fire has been detected at Unit(1/2) in the \_\_\_\_\_ (state building location, elevation, if known). The Nine Mile Point Fire Brigade shall report to the Unit (1/2) assembly area "or \_\_\_\_\_ (other location as directed by the Fire Brigade Leader). All other personnel are to remain clear of the \_\_\_\_\_ (state building location, elevation).**
  - d. IF the location of the alarm is a CO2 protected fire zone, state this announcement following the message above:
 

**"This is a CO2 protected area. All personnel shall immediately evacuate the (state building, location, and elevation) and all areas adjacent to and below this location."**

(If the OSC has been activated add) **"Fire Chief contact the OSC for a briefing"**

 Repeat alarm and announcement.....
  - e. Take the GALtronics system out of the Merge Mode, unless OSC has been activated .....
  - f. If the Fire Brigade Leader does NOT respond within 60 seconds, repeat Steps 1a - 1c .....
  - g. Notify the SM if the fire is confirmed (Time fire confirmed: \_\_\_\_\_) .....
2. Turn up volume on station radio base console, including Oswego County fire frequency .....
3. If this is a confirmed fire and it is outside the protected area, then request off-site fire assistance. Call Oswego County 911Center #911 and request off-site fire assistance .....

**Attachment 1, CRO Firefighting Checklist (Continued)**

	<u>Complete</u>	<u>N/A</u>
4. If requested by Fire Brigade Leader, then call Oswego County 911 Center #911 and request off-site fire assistance .....	□	□
5. If off-site assistance is requested, then inform the Security Central Alarm Station (X2872) that off-site fire assistance has been requested .....	□	□
6. If required, initiate any Special Operating Procedures OR Emergency Operating Procedures.....	□	□
7. If a discharge of Halon or CO2 occurs, reference EPIP-EPP-11, Hazardous Material Incident Response, N1-OP-21C, Fire Protection System - LP/HPCO2, N1-OP-21D, Fire Protection System – Halon 1301, N2-OP-45, Fire Protection Carbon Dioxide, and N2-OP-46, Fire Protection - Halon. ....	□	□
8. Check Process Radiation Monitors to determine if there is any rise in effluent activity;		
a. If a rise is noted, contact Radiation Protection and inform them of the rise.....	□	□
b. If no rise is noted, continue to monitor.....	□	□
9. If SM implements a local area/building evacuation, then perform duties in CNG-EP-1.01-1009 .....	□	□
10. If fire is confirmed, then ensure the unaffected Unit SM is notified .....	□	□
11. When notification is received that the fire is out and the event may be terminated, then perform the following (Time fire declared out: _____)		
a. Place GALtronics system in the Merge Mode.....	□	□
b. If the event is a drill, make the following announcement preceding the fire alarm. “This is a drill, this is a drill.” .....	□	□
c. Sound the Station Alarm for 10 seconds, and make the following announcement. □ <b>“Attention, Attention, this is (an actual event) (a drill). The fire event is terminated.”</b> (Add additional clarifying remarks as appropriate) _____ _____ _____	□	□
Repeat alarm and announcement.....	□	□
d. Take the GALtronics system out of the Merge Mode.....	□	□
12. Return firefighting equipment used to service and conduct post-use inventory pe EPMP-EPP-02, Emergency Equipment Inventories and checklist for the applicable attachment.□	□	□
13. Forward all completed checklists generated for a confirmed fire to the EP Department .....	□	□

Attachment 2, Security Shift Supervisor Firefighting Checklist

Name:	Date:	Unit: 1 <input type="checkbox"/> 2 <input type="checkbox"/>
-------	-------	---

Complete    N/A

1. When the Station Fire Alarm is sounded, then dispatch a Security Force member to fire scene command post (or OSC as instructed) to provide crowd control and act as a communications liaison with Security or the STOC (if activated) .....
2. Turn up the volume on the Oswego County fire radio base station .....
3. Notify the following:
  - a. Fire Marshal.....
  - b. Director Emergency Preparedness .....
  - c. Sr. Analyst Corporate Communications .....
4. When notified by the control room that off-site fire assistance has been requested,
  - a. Dispatch a Security Force member to the Unit 2 entrance traffic light (with fire/ambulance emergency TLD Kit) to direct responding emergency vehicle(s) to the emergency vehicle(s) staging area or the fire scene command post .....
  - b. If entry into the Protected Area is required, for off-site emergency vehicle(s), implement compensatory measures per applicable security procedures to expedite entry. If compensatory measures CANNOT be implemented (for example, due to unavailability of security personnel to support compensatory measure(s), request SM to waive security safeguard measures for immediate access of off-site Fire Personnel per Section 5.2.A. ....
5. When off-site Fire Departments arrive, then ensure dosimetry and portable radios (usually issued to vehicle(s) driver) are issued to appropriate off-site Fire Department personnel .....
6. Inform the Fire Brigade Leader and the CRO upon arrival of the number of fire trucks and the on-site arrival time .....
7. If a local area/building evacuation is called for, then implement actions as required by CNG-EP-1.01-1009 .....
8. When fire event is terminated AND the SM has authorized departure of off-site fire department personnel, then complete the following:
  - a. Complete entrance registration log .....
  - b. Forward all completed checklists generated for a confirmed fire to the EP Department .....

Attachment 3, Radiation Protection Firefighting Checklist

Name:	Date:	Unit: 1 <input type="checkbox"/> 2 <input type="checkbox"/>
-------	-------	---

Complete    N/A

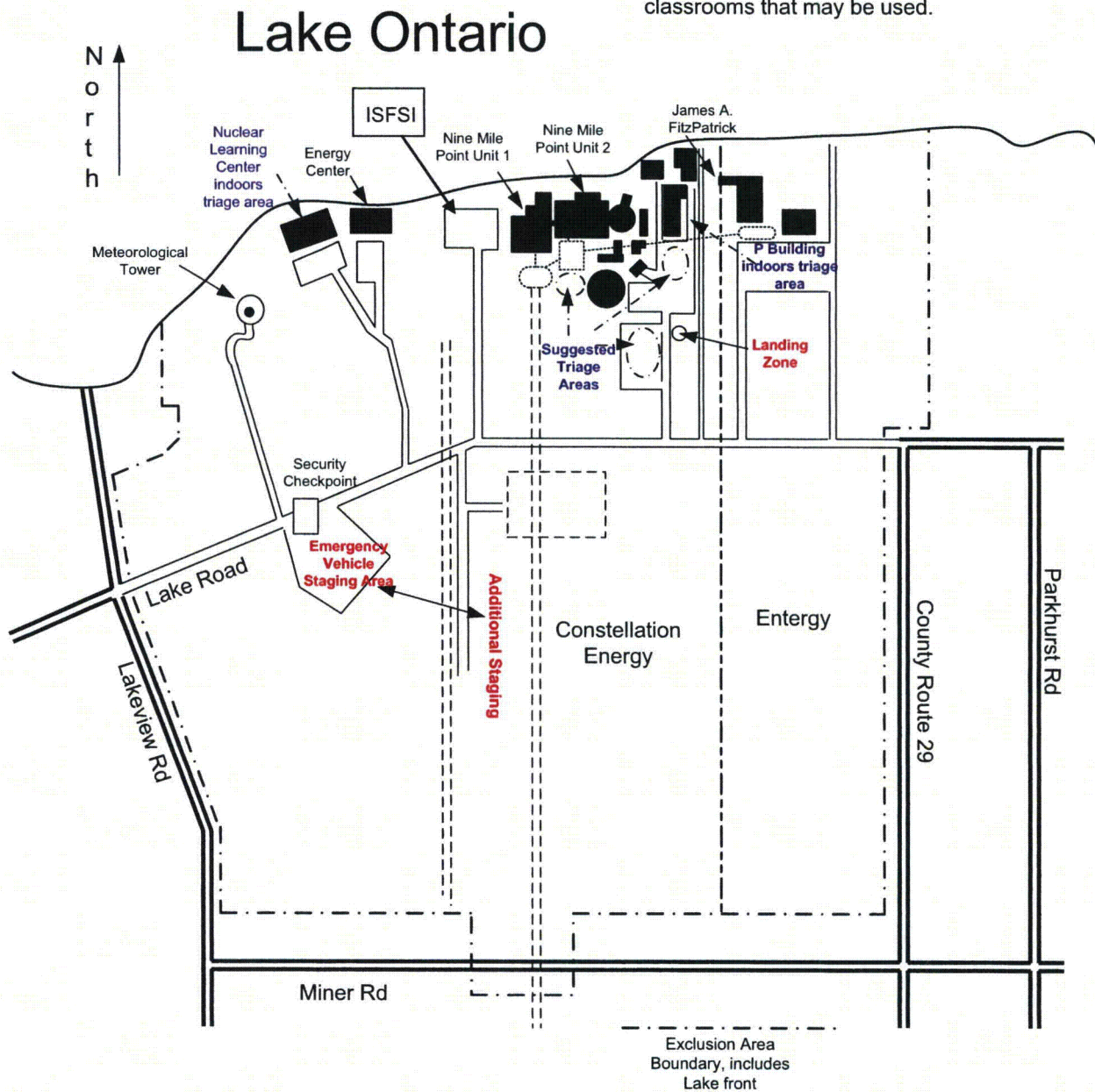
1. When the Station Fire alarm is sounded, then report to the Fire Brigade Leader at the fire scene command post or OSC (as instructed).....
2. Bring air sampler for use by Fire Brigade.....
3. Perform radiological assessment of the fire scene as needed .....     
  - a. Make provisions for the containment and monitoring of potentially contaminated fire suppression products, such as smoke, gaseous fire suppression agents, and water runoff. ....
4. Contact the Radiation Protection Supervisor to provide additional personnel for radiological support as needed .....
5. Provide assistance as requested by the Fire Brigade Leader .....
6. If a local area/building evacuation is implemented:
  - a. Report names of all Radiation Protection Technicians at the fire scene to the Fire Brigade Leader .....
  - b. Implement actions required by CNG-EP-1.01-1009 .....
7. When the fire event is terminated, then perform the following:
  - a. Ensure personnel and equipment used at the fire scene is surveyed as required .....
  - b. Ensure equipment determined to be contaminated is either retained on-site OR decontaminated before its release.....
  - c. Retrieve dosimetry issued to off-site Fire Department personnel, and ensure all appropriate paperwork is completed.....
  - d. Check local Continuous Air Monitors (CAMs or PINGs) for "fouling" .....
  - e. Inform the Fire Brigade Leader and SM when all duties are completed .....
  - f. Forward all checklists generated as a result of a confirmed fire to the EP Department .....



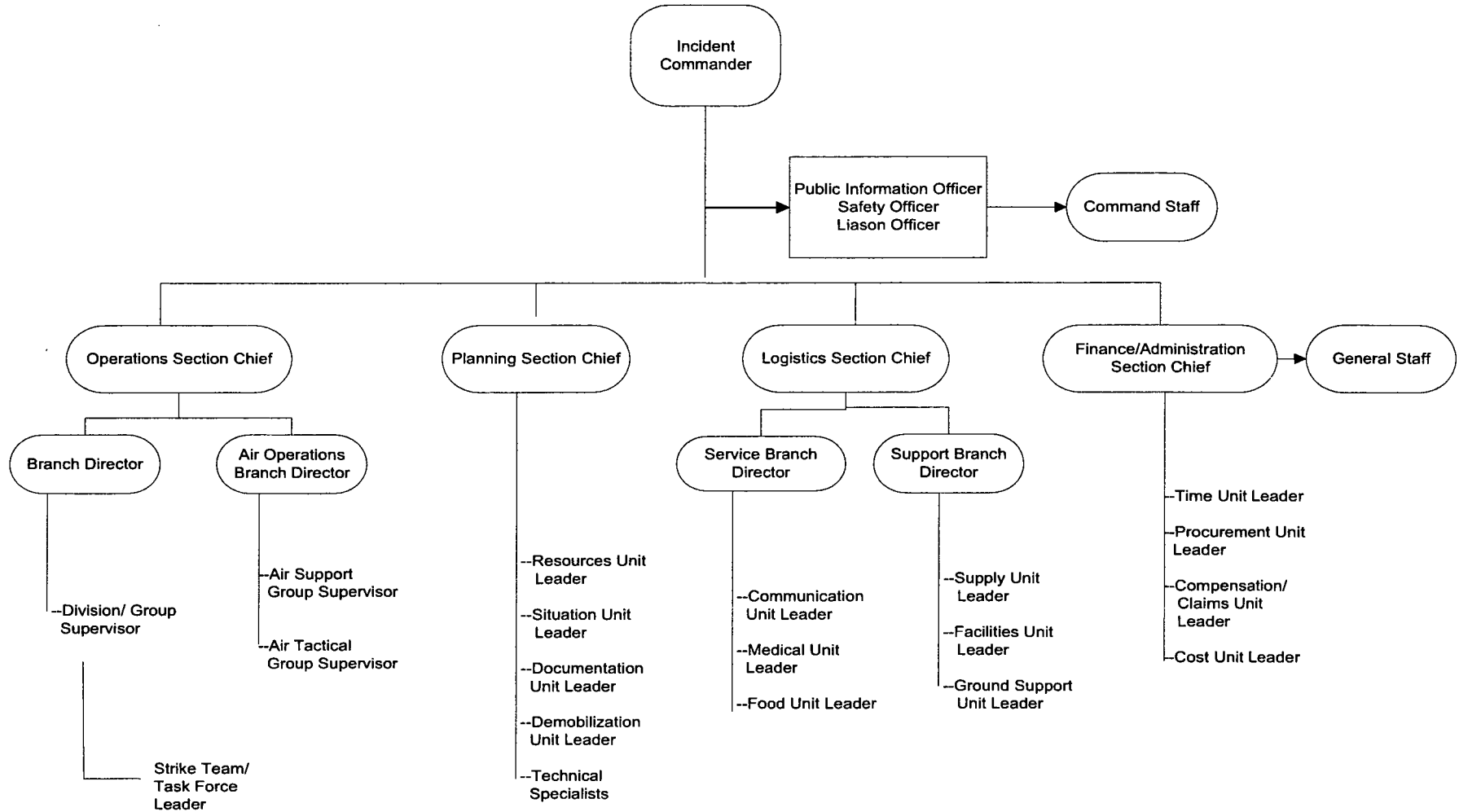
Attachment 4, Suggested Staging Areas and Landing Zone Locations

**NOTES:**

- Suggested Triage areas are for planning purposes. Any area deemed suitable by EMS lead responder may be used.
- If needed for cover due to incimate weather, the Nuclear Learning Center and/or the P Building have large classrooms that may be used.



Attachment 5, ICS Chart and Terminology



**Attachment 5, ICS Chart and Terminology (Continued)****Key Organizational Terms**

**Incident Commander:** The Incident Commander is the individual responsible for overall management of the incident.

**Command Staff:** The Command Staff consists of the Public Information Officer, Safety Officer, and Liaison Officer. They report directly to the Incident Commander.

**Officer:** Officer is the ICS title for the personnel responsible for the Command Staff Positions for Safety, Liaison, and Information.

**General Staff:** The General Staff are assigned functional authority for Operations, Planning, Logistics, and Finance/Administration. The General Staff also report directly to the Incident Commander.

**Section:** A Section is the organizational level with responsibility for a major functional area of the incident (for example, Operations, Planning, Logistics, Finance/Administration).

**Section Chief:** Chief is the ICS title for individuals responsible for functional sections: Operations, Planning, Logistics, and Finance/Administration.

**Branch:** A Branch is the organizational level having functional or geographic responsibility for major parts of the Operations or Logistics functions.

**Branch Director:** Branch Director is the ICS title for individuals responsible for supervision of a Branch.

**Division/Group:** Divisions are used to divide an incident geographically. Groups are used to divide an incident functionally.

**Division/Group Supervisor:** Supervisor is the ICS title for individuals responsible for a Division or Group.

**Strike Team:** A Strike Team is a specified combination of the same kind and type of resources with common communications and a Leader.

**Task Force:** A Task Force is a combination of single resources assembled for a particular tactical need with common communications and a Leader.

**Unit:** A Unit is the organization element having functional responsibility for a specific incident planning, logistical, or financial activity.

**Task Force/Strike Team/Unit Leader:** Leader is the ICS title for an individual responsible for a Task Force, Strike Team, or functional Unit.

**Resources:** Resources are personnel and equipment available, or potentially available, for assignments to incidents. Resources may be described by kind and type (for example, ground, water, air, and so forth) and may be used in tactical, support, or overhead capabilities at an incident.

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## **Nine Mile Point Nuclear Station Station Administrative Procedure**

### **EPMP-EPP-02**

#### **EMERGENCY EQUIPMENT INVENTORIES AND CHECKLISTS**

**Revision 04900**

10 CFR 50.59 Review Required

**Tech Spec Related**

**INFORMATION USE**

**Applicable To:**

- **Nine Mile Point Nuclear Station**

**Approval Authority: Director-Emergency Preparedness (NMP)**

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**SUMMARY OF ALTERATIONS**

<b>Revision</b>	<b>Change</b>	<b>Summary of Revision or Change</b>
<b>049</b>	<b>00</b>	<p>Incorporate PCR-14-06541 to Remove Attachments 1A-F, 2A-J, 4A-C, 5, 5A, 27A-B, 27C, 45, and 46. These attachments move to new procedure S-PM-004 per PCR-14-06499. Per Integration process EP has determined that these section are no longer governed as part of EP processes.</p> <p>Incorporate PCR-14-05852 the use of spool piece has been deleted from N1-DRP-OPS-001 section 6.2.4.</p>
<b>049</b>	<b>00</b>	<p>PCR-14-06541:</p> <p>Removed Attachments 1A – 1F and associated references to attachments. Removed Attachments 2A – 2J and associated references to attachments. Removed Attachments 4A – 4C and associated references to attachments. Removed Attachments 5 and 5A and associated references to attachments. Removed Attachments 27A – 27C and associated references to attachments. Removed Attachments 45 and 46 and associated references to attachments. Renumbered remaining attachments to provide better procedure flow.</p>
<b>049</b>	<b>00</b>	<p>PCR-14-05852:</p> <p>Attachment 1B, Removed Spool piece information for N1-DRP-OPS-001.</p> <p>Editorial Enhancement – updated procedure for PI-AA-125, Corrective Action Program (CAP) Procedure.</p>
<b>049</b>	<b>00</b>	<p>No changes to Bases captured within this procedure revision.</p>

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## 1.0 INTRODUCTION

### 1.1. Purpose

- A. To provide a mechanism for ensuring that emergency equipment necessary to implement the Site Emergency Plan is maintained by all responsible departments.

### 1.2. Scope/Applicability

- A. This procedure applies to all personnel assigned to the Emergency Response Organization at Nine Mile Point Nuclear Station.

## 2.0 REFERENCES

### 2.1. Developmental References

- A. 10CFR50 Appendix E – Emergency Planning and Preparedness for Production and Utilization Facilities
- B. NUREG 0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants
- C. NRC-IE Information Notice 86-97 Emergency Communication System
- D. NRC-IE Information Notice 85-44, Emergency Communication System Monthly Test
- E. U1 UFSAR, Appendix 10A Section 2.4.4.8; Section III, A.3.0
- F. U2 USAR, Section 6.4.2.6
- G. NRC Memorandum dated Sept. 18, 1984, RE: Emergency Communication Systems at Licensee Sites
- H. NDD-EPP, Emergency Preparedness
- I. Nine Mile Point Site Emergency Plan
- J. CNG-EP-1.01-1002, Control of Emergency Preparedness Program Activities
- K. CNG-PR-3.01-1000, Records Management
- L. NMP-EN-1, Chemical Control Program
- M. CR-2000-3532, OE-IN 2000-12, Potential Degradation of Firefighter Primary Protective Garments
- N. CR-2005-3979, Incorrectly completed Inventories/Surveillances

### 2.2. Performance References

- A. CNG-EP-1.01-1015, NMP State and Local Notifications
- B. N1-DRP-OPS-001, Emergency Damage Repair
- C. N2-DRP-OPS-002, Containment Venting with Degraded Equipment
- D. S-DRP-OPS-003, Emergency Damage Repair – Portable Pump Operation and Deployment

### **3.0 DEFINITIONS**

#### **3.1. SAT**

Satisfactory means an item is available in at least the minimum quantity specified and capable of performing its intended function.

#### **3.2. UNSAT**

Unsatisfactory means an item is not available in at least its minimum quantity, or it is not capable of performing its intended function.

### **4.0 RESPONSIBILITIES**

#### **4.1. Director Emergency Preparedness**

Responsible for ensuring completion and documentation of required inventories and checklists

#### **4.2. EP Facilities and Equipment Coordinator**

The individual designated as the EP Facilities and Equipment Coordinator is responsible for:

- A. Ensuring equipment identified in the attachments of this procedure under the responsibility of the EP department is maintained and available for use during an emergency event.
- B. Verifying that equipment owned by the Departments listed in Table 1 is being inventoried and maintained as required to support the emergency plan.
- C. Initiating and using the corrective actions process when appropriate.

#### **4.3. Responsible Branch Manager**

The branch manager of the departments listed in Table 1 is responsible for ensuring equipment identified in assigned attachments is inventoried and maintained ready for use.

#### **4.4. Responsible Department Supervisor**

The designated department supervisor in any of the departments listed in Table 1 is responsible for:

- A. Verifying completion of inventories and surveillances as required by the work control process.
- B. Restoring to satisfactory any item/equipment determined to be unsat in a timely manner.
- C. Providing copies of completed inventories and surveillance checklists to EP within two weeks of completion.

#### **4.5. Fire Marshal**

- A. Responsible for signature approval on inventories that contain equipment and supplies used for fire, rescue, and emergency response.
- B. Restoring to satisfactory any item/equipment determined to be unsat in a timely manner.
- C. Providing copies of completed inventories and surveillance checklists to EP within two weeks of completion.

TABLE 1			
ATTACH. #	INVENTORY/SURVEILLANCE	RESPONSIBLE BRANCH MANAGER	FREQUENCY M=Monthly Q=Quarterly A=Annual AR=As Required NR=Not Required
1A-J	Operations Damage Repair Materials	Operations	Q
2	Security Bldg Inventory: Ambulance/Fire Kit – Unit 2	Radiation Protection	Q, A
3	Radiation Protection Supplies and Equipment OSC/TSC/Onsite/Downwind	Radiation Protection	Q, A
4A	Radiological Monitoring Equipment OSC/TSC/Onsite/Downwind	Radiation Protection	Q, A
4B	Misc Rad Protection Equipment	Radiation Protection	Q, AR
5	Rad Protection Supplies and Equipment EOF	Radiation Protection	Q, A
6	Radiological Monitoring Equipment EOF	Radiation Protection	Q, A
7	Rad Protection Supplies and Equipment OAA	Radiation Protection	Q, A
8	Oswego Hospital Nuclear Emergency Cabinet Inventory	Radiation Protection	Q, AR
9	Personnel Decontamination Room Supplies Inventory	Radiation Protection	Q, A
10	Personnel Decontamination Room Supplies Inventory	Radiation Protection	Q,A
11	TSC Inventory	IWM	Q
12	EOF Inventory	IWM	Q
13	Emergency Ventilation Filter Log	Licensing	Q
14	OSC Inventory	IWM	Q
15	JIC Inventory	IWM	Q
16A/B	Damage Control Tool Box Inventory	Maintenance/I&C	Q
17	Electric Damage Repair Equipment Inventory	Maintenance	Q
20A	RECS Testing Sheet	Security	AR
20B	Commercial Telephone Testing	Security	M
20C	Emergency Notification System (ENS) Testing	Security	M
20D	Dedicated Telephone Testing	Emergency Prep.	A
20E	Radio Console Testing	Emergency Prep.	A
20F	Portable Radio Testing	Licensing	A
20G	Portable Radio Battery Exchange	Licensing	Q
20H	Satellite Phone Testing	Licensing	Q
21A/B/C	Respiratory Protection Monthly Inspections	A – Radiation Protection B – Radiation Protection C – Operations	M
22	Alternate Power Supplies for Portable Air Samplers	Maintenance	Q
23	Emergency Facilities Dosimetry Listing	Radiation Protection	AR, A
24	Emergency Dosimetry Issue Sheet	Radiation Protection	AR
25-33	Emergency Facility Status Boards *	N/A	NR
34	Quarterly Phone Checks	Security	Q

TABLE 1			
ATTACH. #	INVENTORY/SURVEILLANCE	RESPONSIBLE BRANCH MANAGER	<u>FREQUENCY</u> M=Monthly Q=Quarterly A=Annual AR=As Required NR=Not Required
35	Emergency Key Inventory	Licensing	Q
36	Personnel Accountability Card-readers	Security	Q
37	Emergency Facility Status Board	N/A	NR
38	Unit 1 Control Room	Operations	Q
39	Unit 2 Control Room	Operations	Q
40	County and State EOC Surveillance	Emergency Prep.	AR
41	Annual Proximity Suit Inventory	Maintenance	A
42	Vehicle Inventory	Emergency Prep.	A
43	NMPNS Interim Flood Protection Equipment	Mechanical Maintenance	A

\*These attachments are samples of status boards.

## 5.0 PROCESS

### 5.1. General Instructions/Information Related to Performing Inventories and Surveillances

#### NOTES

- Inventories or checklists performed by the JAFNPP that are determined to be equivalent to NMPNS requirements by the Director Emergency Preparedness, shall be indicative of acceptable proof of completion for those equivalent forms found in this procedure. Duplication of effort by NMPNS is not required in these cases.
- Post use inventories may be used to satisfy routine inventory requirements and should clearly indicate this on the form as applicable.

- A. The annual complete inventory and inspection shall be performed on sealed supplies at least once per calendar year. An annual inventory can be performed in lieu of a quarterly inventory. Annual complete inventories must be completed within the same quarter each year.
- B. Quarterly inventories shall be performed at least once each calendar quarter and after each use.

#### NOTE

The entire contents of sealed inventories/supplies need not be inventoried if:

- Seal is not broken.
- Opened only to remove equipment for testing, source check, one for one change-out, and so forth.
- Opened to verify specific equipment availability, or verify and record expiration dates, due dates, and so forth.
- Used for training and has been restored to pre-class condition.

- C. Monthly inventories shall be performed in the month for which they are intended.
- D. Sealed inventories which contain equipment/items with expiration dates, due dates, or other recordable information, **must** be opened to verify and record the information on a quarterly basis. (For example KI tablets due date, battery expiration dates and so forth) and re-sealed.
- E. The entire Emergency Communications System is subject to periodic testing. This shall be accomplished using the instructions in Attachments 20 through 20G.

**5.2. Personnel Performing Inventories and Surveillances**

- A. Perform the inventory using the appropriate page (page 1 for annual inventory or page 2 for quarterly inventory). Remember, annual complete inventory and inspection shall be performed on sealed supplies at least once per calendar year (within the same quarter as performed the previous year).
- B. During the conduct of an inventory or surveillance done per this procedure, if any item is found "UNSAT":
  1. Enter the inventory discrepancy into the Corrective Actions Process (initiate IR) and enter the IR number as indicated on the inventory. (Example: Brief description - Equipment inventory per EPMP-EPP-02 Attachment \_\_\_ found unsat. Detailed description - Describe unsatisfactory condition found).
  2. Following initiation of a IR for any equipment out of service or missing:
    - a. If it is determined to be a common tool or piece of equipment, verify replacements available in tool crib or other tool box nearby, leave instruction where item may be obtained.
    - b. If it is a specialty tool or piece of equipment (one of a kind), contact you're Department Supervisor and the EP Director to determine necessary compensatory measures and impact on Emergency Plan.
  3. Provide to and obtain Department Supervisor's review and signature.
  4. Following supervisor review and signature, complete work package. (If possible attach copy of completed checklist with electronic work package.)
- C. If N/A (Not Applicable) or N/R (Not Required) is used in this procedure, provide an explanatory note to document the reason. Initiate PCR as appropriate to the procedure.

**5.3. Responsible Department Supervisor****NOTE**

Department Supervisor or designee should sign for approval and ensure corrective actions are entered into the corrective action program.

- A. Responsible Department Supervisor or designee shall ensure:
  1. Completed inventories are reviewed and any corrective actions identified are completed in a timely manner (Corrective actions should be completed within 14 days of initiation).
  2. Determine the impact on the emergency plan, for inventories noted as unsat. This determination should be used as input to priority of work order or corrective actions. Consideration should be given to other alternative equipment available.
  3. Items with expiration dates are replaced (batteries and KI) **before** expiration.
  4. That within fourteen (14) days of completion of the inventory a copy of the completed inventory is **provided** to EP.
  5. The work order is completed in MAXIMO.
  6. Maintain a departmental file of completed inventories for 1 year.

**5.4. The EP Emergency Facilities and Equipment Coordinator**

- A. The designated EP Facilities and Equipment Coordinator shall:
1. Verify each month that copies of inventories and checklists are received.
  2. Ensure corrective actions process has been used to identify and correct any unsat item.
  3. Review status of the inventories and checklists with the Director of EP each quarter, and document that review.
- B. Shall initiate IR for any identified non compliance with this procedure and inform Director of EP.

**6.0 BASES**

**[N0321]** NCTS-504473, Item 18, NRC Order dated 02/25/02

**7.0 RECORDS**

- 7.1. The following records generated by this procedure shall be maintained by Records Management for the Permanent Plant File per RM-AA-101, Records Management Program:

All Inventories, Surveillances, or lists containing signatures indicating completion

- ATTACHMENT 1A-1J, DAMAGE CONTROL MATERIALS
- ATTACHMENT 2, SECURITY BUILDING INVENTORY: AMBULANCE AND FIRE KIT UNIT-2
- ATTACHMENT 3, RADIATION PROTECTION SUPPLIES AND EQUIPMENT OSC/TSC/ONSITE/DOWNWIND
- ATTACHMENT 4A, RADIOLOGICAL MONITORING EQUIPMENT OSC/TSC/ON SITE/DOWNWIND
- ATTACHMENT 4B, MISC. R.P. EQUIPMENT
- ATTACHMENT 5, RADIATION PROTECTION SUPPLIES AND EQUIPMENT EOF
- ATTACHMENT 6, RADIOLOGICAL MONITORING EQUIPMENT EOF
- ATTACHMENT 7, RADIATION PROTECTION SUPPLIES AND EQUIPMENT OAA
- ATTACHMENT 8, OSWEGO HOSPITAL NUCLEAR EMERGENCY CABINET INVENTORY
- ATTACHMENT 9, PERSONNEL DECONTAMINATION ROOM SUPPLIES INVENTORY UNIT 1
- ATTACHMENT 10, PERSONNEL DECONTAMINATION ROOM SUPPLIES INVENTORY UNIT 2
- ATTACHMENT 11, TECHNICAL SUPPORT CENTER
- ATTACHMENT 12, EMERGENCY OPERATIONS FACILITY (EOF)



## 7.1 (Continued)

- ATTACHMENT 14, OPERATIONS SUPPORT CENTER (OSC)
- ATTACHMENT 15, JOINT INFORMATION CENTER (JIC)
- ATTACHMENT 16A, DAMAGE CONTROL TOOL BOX INVENTORY (MECHANICAL)
- ATTACHMENT 16B, DAMAGE CONTROL TOOL BOX INVENTORY (I&C)
- ATTACHMENT 17, ELECTRIC DAMAGE REPAIR EQUIPMENT INVENTORY
- ATTACHMENT 20A, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE RADIOLOGICAL EMERGENCY COMMUNICATIONS SYSTEM (RECS) TESTING (MONTHLY)
- ATTACHMENT 20B, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE COMMERCIAL TELEPHONE TESTING (MONTHLY)
- ATTACHMENT 20C, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE EMERGENCY NOTIFICATION SYSTEM (ENS) TESTING (MONTHLY)
- ATTACHMENT 20D, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE DEDICATED TELEPHONE TESTING (ANNUALLY)
- ATTACHMENT 20E, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE RADIO CONSOLE TESTING (ANNUALLY)
- ATTACHMENT 20F, EMERGENCY FACILITY COMMUNICATIONS SURVEILLANCE RADIO TESTING (ANNUALLY)
- ATTACHMENT 20G, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE PORTABLE RADIO BATTERY EXCHANGE
- ATTACHMENT 20H, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE SATELLITE PHONE CHECK (QUARTERLY)
- ATTACHMENT 21A, RESPIRATORY EQUIPMENT MONTHLY INSPECTION
- ATTACHMENT 21B, RESPIRATORY EQUIPMENT MONTHLY INSPECTION
- ATTACHMENT 21C, RESPIRATORY EQUIPMENT MONTHLY INSPECTION
- ATTACHMENT 22, ALTERNATE POWER SUPPLIES FOR PORTABLE AIR SAMPLERS
- ATTACHMENT 23, EMERGENCY FACILITIES DOSIMETRY LISTING
- ATTACHMENT 24, EMERGENCY DOSIMETRY ISSUE SHEET
- ATTACHMENT 25, NINE MILE POINT NUCLEAR STATION PROCESS RAD MONITORING BOARD – UNIT 1
- ATTACHMENT 26, NINE MILE POINT NUCLEAR STATION PROCESS RAD MONITORING BOARD – UNIT 2
- ATTACHMENT 27, NINE MILE POINT NUCLEAR STATION INPLANT SURVEY/SAMPLE STATUS BOARD

7.1 (Continued)

- ATTACHMENT 28, NINE MILE POINT NUCLEAR STATION DOWNWIND SURVEY/SAMPLE STATUS BOARD
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- ATTACHMENT 38, UNIT 1 CONTROL ROOM
- ATTACHMENT 39, UNIT 2 CONTROL ROOM
- ATTACHMENT 40, COUNTY AND STATE EOC SURVEILLANCE
- ATTACHMENT 41, ANNUAL PROXIMITY SUIT INVENTORY
- ATTACHMENT 42, VEHICLE INVENTORY
- ATTACHMENT 43, NMPNS INTERIM FLOOD PROTECTION EQUIPMENT INVENTORY

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7.2. The following records generated by this procedure are not required for retention in the Permanent Plant File:

- ATTACHMENT 13, EMERGENCY VENTILATION FILTER LOG
- ATTACHMENT 18, EMERGENCY PLANT EQUIPMENT STATUS BOARD (SAMPLE)
- ATTACHMENT 19, EMERGENCY PLANT EQUIPMENT STATUS BOARD (SAMPLE)

The following status boards when generated for any other reason than an actual emergency event (that is, drill, training):

- ATTACHMENT 24, EMERGENCY DOSIMETRY ISSUE SHEET
- ATTACHMENT 25, NINE MILE POINT NUCLEAR STATION PROCESS RAD MONITORING BOARD – UNIT 1
- ATTACHMENT 26, NINE MILE POINT NUCLEAR STATION PROCESS RAD MONITORING BOARD – UNIT 2
- ATTACHMENT 27, NINE MILE POINT NUCLEAR STATION INPLANT SURVEY/SAMPLE STATUS BOARD
- ATTACHMENT 28, NINE MILE POINT NUCLEAR STATION DOWNWIND SURVEY/SAMPLE STATUS BOARD
- ATTACHMENT 29, NINE MILE POINT NUCLEAR STATION EMERGENCY EVENTS STATUS BOARD
- ATTACHMENT 30, NINE MILE POINT NUCLEAR STATION EQUIPMENT SURVEY/SAMPLE STATUS BOARD
- ATTACHMENT 31, PLANT STATUS TRENDING BOARD
- ATTACHMENT 32, NINE MILE POINT NUCLEAR STATION AREA RAD MONITORS – UNIT 1
- ATTACHMENT 33, NINE MILE POINT NUCLEAR STATION AREA RAD MONITORS – UNIT 2
- ATTACHMENT 37, DAMAGE CONTROL TEAM STATUS

**Attachment 1A, OPERATIONS DAMAGE REPAIR MATERIALS**

(Supports N1-DRP-OPS-001 / N2-DRP-OPS-001)

(Stored in BOX 1 Security East Building)

<b>ANNUAL INVENTORY</b>
Record Seal Number _____

Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<b>Fittings for: N1-DRP-OPS-001 Section 7.1</b> Alternate Sources of Makeup to Plant Systems (Condensate Transfer/Makeup Water (57-156 / 55-55))			IR _____ _____
<b>Fittings for N2-DRP-OPS-001 Section 7.1.4</b> Supplying Condensate Transfer System for the Fire Protection System.			
(3) – 2" NPT 4.5" long pipe nipple			
(3) – 2" NPT female to 2.5" NH female coupling			
(3) – 2.5" NH male to 1.5" NH reducer.			
<b>Fittings for N1-DRP-OPS-001 Section 7.3.3</b> Direct Fire Protection Make Up to the Spent Fuel Pool			
(1) – 6" 150 psig flange tapped to 2" NPT			
(2) – White Garlock gaskets			
(1) – 2" NPT with 90° Elbow to 2.5 " NH female coupling			
(1)- 2.5" NH Male to 1.5" NH female reducer			
<b>Fittings for N2-DRP-OPS-001 Sections 7.2.2/7.2.3</b> <b>Note: 1 set of fittings only. Second set available, see fittings for N2-DRP-OPS-001 Sections 7.2.4 and 7.2.5</b> 7.2.2 Fire Water supply to Reactor Pressure Vessel via Reactor Water Cleanup System Suction Piping 7.2.3 Fire Water supply to Reactor Pressure Vessel Using Reactor Water Cleanup Pump 2WCS-P1A(B)			
(1) – Machined Blank 2" 1500 psig flange with 2" NPT female threaded connection			
(1) – 2" NPT male to 2.5" NH female coupling,			
(1) – 2.5" NH to 1.5" NH reducer.			
(1) – Flexitallic gasket			

Attachment 1A, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)

Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<b>Fittings for N2 –DRP-OPS-001 Sections 7.2.4 / 7.2.5</b> <b>Note: 1 set of fittings only (due to service water supply limitations), can be used as a second set for N2-DRP-OPS-001 Sections 7.2.2/7.2.3</b> 7.2.4 Service Water supply to Reactor Pressure Vessel via Reactor Water Cleanup System Suction Piping 7.2.5 Service Water supply to Reactor Pressure Vessel Using Reactor Water Cleanup Pump 2WCS-P1A(B)		Pieces are loosely assembled. Required flexitallic gasket and 2" NPT female to 2.5" NH male coupling are tie-wrapped to flange. In plastic bag and labeled.	
(1) – Machined Blank 2" 1500 psig flange with 2" NPT female threaded connection			
(1) – 2" NPT male to 2.5" NH female coupling.			
(1) – 2" NPT female to 2.5" NH male coupling			
(1) – Flexitallic gasket			
<b>Fittings for N2-DRP-OPS-001 Section 7.2.1</b> Service Water System OR Portable Pump Supply to Reactor Vessel via Feed-Water System		Required flexitallic gasket and 2" NPT male to 2" NPT female coupling are tie-wrapped to flange. A second 2" NPT female to 2.5" NH male reducer is included. In plastic bag and labeled.	IR _____ _____
(1) – 2" 150 psig flange with 2" NPT 4.5" long nipple and 2" NPT male to 2.5" NH female coupling connected together,			
(1) – Flexitallic gasket			
(2) – 2" NPT female to 2.5" male reducer			
<b>MISCELLANEOUS FITTINGS</b>			
(4) – 2.5" NH male to 2.5" NH male couplings			
(4) – 2.5" NH male to 1.5" NH male couplings			
(2) – 2.5" NH male to 1.5" NH female couplings			
(2) – 1500 # 2" flexitallic gaskets			
(1) – 150 # 2" flexitallic gasket			
(1) – 150 # 2" flange			
<b>KEYS FOR UNIT 2 LOCKED VALVES</b>			
(2) – S-6 keys			
(2) – PL-3 keys			
<b>KEYS FOR UNIT 1 LOCKED VALVES</b>			
(2) – S-4 keys			
(2) – VA-1 keys			

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review

(Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 1A, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)

QUARTERLY:	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one)	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____	
_____	
Completed by: (Print Name)	
_____	
Completed by: (Signature)	

\_\_\_\_\_  
Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
Emergency Preparedness review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

**Attachment 1B, OPERATIONS DAMAGE REPAIR MATERIALS**

(Supports N1-DRP-OPS-001 / N2-DRP-OPS-001)

(Stored in BOX 2 Security East Building)

<b>ANNUAL INVENTORY</b>
Record Seal Number _____

Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<p><b>Fittings for:</b>  <b>N1-DRP-OPS-001 Section 6.1.8 OR</b>  <b>N2-DRP-OPS-001 Section 7.1.5</b></p> <p>Supplying the Hotwell from the Fire Protection System OR from an Alternate Water Source (portable pump or fire truck)</p> <p><b>N1-DRP-OPS-001 Section 6.2.3</b></p> <p>RPV Make Up from Fire Water System or Alternate Water Source (portable pump or fire truck) to CRD Flow Valve Station Vent 44-147</p>			IR _____ _____
<p>(4) – 2" NPT female to 2.5" NH female coupling</p> <p><b>Fittings for N1-DRP-OPS-001 Section 6.1.9</b></p> <p>Supplying the Emergency Condenser Makeup Tanks from an Alternate Water Source (portable pump, city water or fire truck)</p>			
<p>(3) – 2.5 " NH female to 2.5 " NH female coupling</p> <p><b>Fittings and Gasket for N1-DRP-OPS-001 Section 6.9.1</b></p> <p>Injection of an Alternate Water Source into the Drywell via the Containment Spray Air Test Line</p>			
<p>(1) – Adapter Flange with 2.5" NH Female attached</p>			
<p>(2) – gaskets (1 garlock and 1 flexitallic)</p>			
<p>(1) 2" male NH to 2.5" NH Female coupling attached</p>			

Attachment 1B, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)

Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<b>Connection Wires for N1-DRP-OPS-001 Section 6.10.1</b>  Depressurization of the RPV using Portable Power Supplies			IR _____ _____
(8) – Jumper Wires (4 sets) lugged with Pomona plugs			
Roll of electrical tape			
Fuse pullers			
Hold tight screwdriver			
<b>Fitting for N1-DRP-OPS-001 Section 6.6.1</b>  Reverse Flow using the Large De-inerting Lines			
(1) – ½" compression fitting to ½" male NPT			

NFPA 805 ERV Batteries, stored RB 237 elevation. Three are on the East side by the small block wall, three are on the West side under the outer TIP room staircase

Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<b>Connection Wires for NFPA 805</b>  Depressurization of the RPV using Portable Power Supplies			IR _____ _____
(12) – Jumper Wires (6 sets) lugged with Pomona plugs			
Roll of electrical tape			
Fuse pullers			
Hold tight screwdriver			

Performed by (Print/Initial/Date)      Supervisor Approval (Print/Initial/Date)\*\*      E. P. Review      (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**



**Attachment 1B, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)**

(Supports N1-DRP-OPS-001 / N2-DRP-OPS-001)

(Stored in BOX 2 Security East Building)

<b>QUARTERLY:</b>	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one)	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
<p>My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.</p> <p>Indicate IR # if seal not intact    IR _____</p> <p>Date completed: _____</p> <p>_____</p> <p>Completed by: (Print Name)</p> <p>_____</p> <p>Completed by: (Signature)</p>	

\_\_\_\_\_  
Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
Emergency Preparedness review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

**Attachment 1C, OPERATIONS DAMAGE REPAIR MATERIALS**

(Supports N1-DRP-OPS-001 / N2-DRP-OPS-001)

(Stored in BOX 3 Security East Building)

<b>ANNUAL INVENTORY</b>
Record Seal Number _____

Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<b>Connection Wires for N2-DRP-OPS-001 Section 7.10.1</b> Depressurization of the RPV using Portable Power Supplies			
(8) – Jumper Wires (4 sets) lugged with butt splice connectors and Pomona plugs			
<b>Connection Wires and Fittings for N2-DRP-OPS-001 Section 7.6.4</b> Vent the Primary Containment from the Containment Purge N2 Supply Line Blank Flange on Elev 289'			
(1) – ½" compression fitting to ½" male NPT connection with a ¾" reducer attached			
(1) – Jumper lugged with ring tongue terminal and 120 VAC 3 pronged plug			
<b>Fittings and Gasket for N2-DRP-OPS-001 Section 7.1.5</b> Supplying the Hotwell from the Fire Protection System OR from an Alternate Water Source (portable pump or fire truck) For 2CNS-V267			IR _____ _____
(1) – 4-150 psi Flange with 2" NPT, a 6" by 2" nipple, a 2" 90° elbow, a 2" male NPT to 2.5" NH Female			
(1) – garlock gaskets			
<b>Equipment for N2-DRP-OPS-001, Section 7.2.6, RCIC without AC or DC Power</b>			
(2) – Tachometers			
* (2) – Spare Battery Packs for Tachometers within expiration date			
<b>MISCELLANEOUS TOOLS</b>			
(2) – Adjustable Wrenches (6" min.)			
(1) – Philips Head screw driver (6" min.)			
(1) – Flat Head screw driver (6" min.)			
(2) – Hold Tight Screw Drivers (6" min.)			
(1) – Electricians Crimper/Stripper			
(1) – Wire Cutters			
(10) – Head Lights			
* (20) – Batteries (AAA) within expiration date, record below			

\* Record Battery expiration date: \_\_\_\_\_ Replace batteries one quarter before the expiration date. NOTE: Battery expiration date is labeled on the battery. If batteries do not have expiration date then replace during the annual inspection.

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review

(Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 1C, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)**

(Supports N1-DRP-OPS-001 / N2-DRP-OPS-001)

(Stored in BOX 3 Security East Building)

<b>QUARTERLY:</b>	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one)	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
<p>My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.</p> <p>Indicate IR # if seal not intact      IR _____</p> <p>Date completed: _____</p> <p>_____</p> <p>Completed by: (Print Name)</p> <p>_____</p> <p>Completed by: (Signature)</p>	

\_\_\_\_\_  
Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
Emergency Preparedness review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

1

**Attachment 1D, SPENT FUEL POOL DAMAGE REPAIR MATERIALS**

(Supports N1-DRP-OPS-001/N2-DRP-OPS-002)

(Stored in BOX 4 Security East Building)

<b>ANNUAL INVENTORY</b>
Record Seal Number _____

Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<b>Leakage Control Materials</b>			IR _____ _____
(6) – Inflatable Air Bladders of various sizes. Inspect hoses for cracks, replace if cracks observed.			
(1) – Air Pump Replace every 5 years. When replaced, mark new pump with month and year indicating date of replacement. Last replaced date: _____			

Performed by (Print/Initial/Date) \_\_\_\_\_

Supervisor Approval (Print/Initial/Date)\*\* \_\_\_\_\_

E. P. Review (Print/Initial/Date) \_\_\_\_\_

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

Attachment 1D, SPENT FUEL POOL DAMAGE REPAIR MATERIALS (Continued)

QUARTERLY:	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one)	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____ _____	
Completed by: (Print Name) _____	
Completed by: (Signature)	

\_\_\_\_\_  
 Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
 Emergency Preparedness review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

**Attachment 1E, OPERATIONS DAMAGE REPAIR MATERIALS**

(Supports N1-DRP-OPS-001 / N2-DRP-OPS-001)

(Stored on Floor in Security East Building)

<input type="checkbox"/> Quarter: 1 2 3 4 (circle one)		<input type="checkbox"/> Post Drill/Exercise/Event Date: _____		<input type="checkbox"/> Other	
Year: _____		(circle appropriate)			
Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)		
<b>Storm Drain Covers for N1-DRP-OPS-001</b> Section 6.8.1 Water Spray Reactor Building Wall or Other Vertical Surface Release Points  <b>N2-DRP-OPS-001</b> Section 7.8.1, Water Spray(s) on vertical surfaces of Reactor Building OR Other Release Points					
(15) – Rubber Drain Covers Manufactured Date: _____ (Date located on Barcode on side of box) 5 year shelf life, replace as necessary (Symbol # 91-10-707)					
<b>Fittings for N1-DRP-OPS-001 Section 6.3.3</b> Direct Fire Protection Make Up to the Spent Fuel Pool			Spool piece is in a plastic bag.		
(1)- 6" Spool Piece with 2" pipe, ball valve, 2" Female NPT to 2.5" Female NH and 2.5" NH Male to 1.5" NH female reducer					
(2) Black gaskets					
Hand cart					
<b>Nitrogen Bottle for Containment Venting for N1-DRP-OPS-001 Section 6.6, and N2-DRP-OPS-001 Section 7.6</b>					
(1) – Nitrogen Bottle (Small cylinder)			IR _____		
<b>Power Supplies for N1-DRP-OPS-001 Section 6.10.1, and N2-DRP-OPS-001 Section 7.10.1</b>  Depressurization of the RPV using Portable Power Supplies			Power Supplies are stored along the wall		
(4)- Power Supplies (Battery Pack, Rectifier Box and Charger)					
<b>Perform Battery Status Check for each battery pack</b> (Refer to Page 5 of 5 this attachment for Status Check procedure). Replace every 5 years, record last replaced date.					
Battery Status Check for Battery (Box #1)					
Battery Status Check for Battery (Box #2)					
Battery Status Check for Battery (Box #3)					
Battery Status Check for Battery (Box #4)					
<b>Portable Jump Start Power Pack for S-DRP-OPS-003 Section 7.2</b> Portable Pump Start, Operation and Shutdown			Jumper Box along wall		
(1) – Portable jumper pack (plugged in)					
Portable radios (6)-[Ensure plugged in with green light]					
<b>Procedure Binder</b> (including: N1-DRP-OPS-001, N2-DRP-OPS-001, S-DRP-OPS-003, S-EDMG-01 & S-EDMG-02)					

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review

(Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 1E, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)

NFPA 805 ERV Batteries, stored RB 237 elevation. Three are on the East side by the small block wall, three are on the West side under the outer TIP room staircase

Power Supplies for NFPA 805	Power Supplies are stored along the wall		IR _____ _____
Depressurization of the RPV using Portable Power Supplies			
(6)- Power Supplies (Battery Pack, Rectifier Box and Charger)			
<b>Perform Battery Status Check for each battery pack</b> (Refer to Page 5 of 5 this attachment for Status Check procedure). Replace every 5 years, record last replaced date.			
Battery Status Check for Battery (Box #1)			
Battery Status Check for Battery (Box #2)			
Battery Status Check for Battery (Box #3)			
Battery Status Check for Battery (Box #4)			
Battery Status Check for Battery (Box #5)			
Battery Status Check for Battery (Box #6)			

\_\_\_\_\_  
 Performed by (Print/Initial/Date)      Supervisor Approval (Print/Initial/Date)\*\*      E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 1E, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)

Item/Equipment	Sat				Unsat				Corrective Action (If Unsat)
	1	2	3	4	1	2	3	4	
<b>Portable Power Supply Battery Status Check</b>	<b>Perform the following for each power supply, status checks can be performed in parallel.</b>								IR _____ _____
Verify the Charger does NOT indicate a RED LED (IF a red LED is indicated remove charge from service, initiate CR)									
Turn off Charger AND wait 15 minutes									
Verify the Rectifier Box is plugged in the Dual AC Outlet on the battery pack unit									
Turn on the AC outlet switch on the battery pack unit									
Verify the VARIAC is On AND adjusted to ~ 125 VDC as indicated on the battery pack unit									
Depress the Battery Status Switch									
Verify the Battery Level Indicates "F" (full, 4 LEDs lit) (If Battery does not indicate full, initiate a CR an order new battery pack Symbol# 91-36-305)									
Turn off the Variac									
Turn off the AC Outlet Switch on the battery pack unit									
Turn on the Charger									
Verify the Charger LED indicates Yellow OR Green									

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**



Attachment 1E, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)

NFPA 805 ERV Batteries

Item/Equipment	Sat						Unsat						Corrective Action (If Unsat)
	1	2	3	4	5	6	1	2	3	4	5	6	
Portable Power Supply Battery Status Check	<b>Perform the following for each power supply, status checks can be performed in parallel.</b>												IR _____ _____
Verify the Charger does NOT indicate a RED LED (IF a red LED is indicated remove charge from service, initiate CR)													
Turn off Charger AND wait 15 minutes													
Verify the Rectifier Box is plugged in the Dual AC Outlet on the battery pack unit													
Turn on the AC outlet switch on the battery pack unit													
Verify the VARIAC is On AND adjusted to ~ 125 VDC as indicated on the battery pack unit													
Depress the Battery Status Switch													
Verify the Battery Level Indicates "F" (full, 4 LEDs lit) (If Battery does not indicate full, initiate a CR an order new battery pack Symbol# 91-36-305)													
Turn off the Variac													
Turn off the AC Outlet Switch on the battery pack unit													
Turn on the Charger													
Verify the Charger LED indicates Yellow OR Green													

Performed by (Print/Initial/Date)

Supervisor Approval  
(Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 1E, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)

**AC Power Panel**

As shown in Figure 3 below, the AC Power Panel contains the Battery Status Switch, Battery Level Indicator, AC Outlets Switch, AC Power Light, Fault Light, and dual AC Outlets.

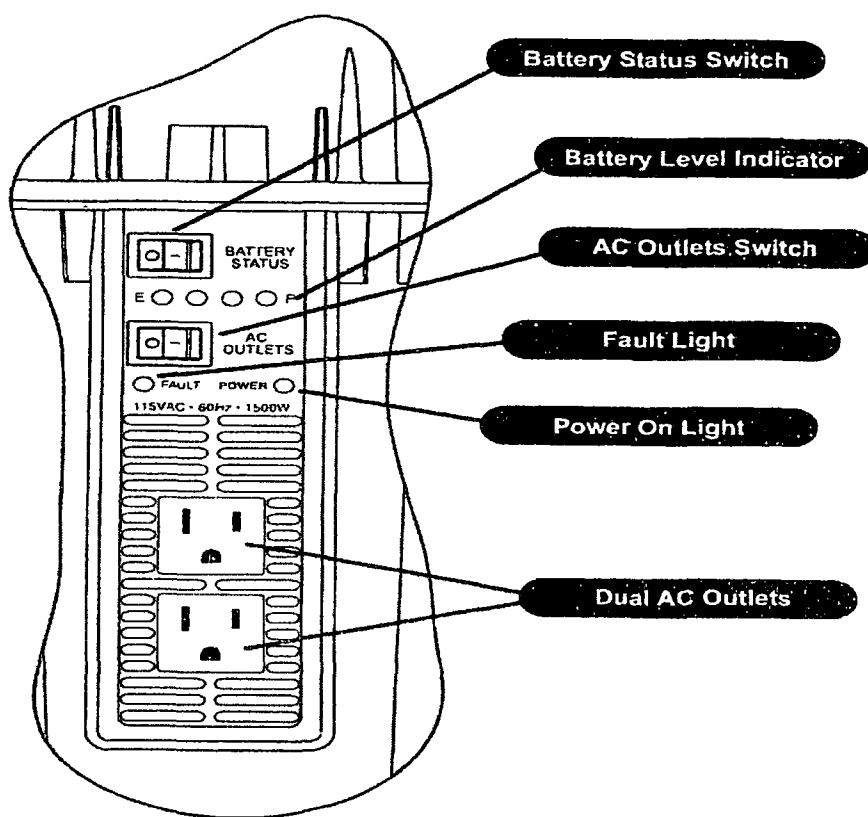


Figure 3 - AC Power Panel

**Attachment 1F, OPERATIONS DAMAGE REPAIR MATERIALS**

(Supports N1-DRP-OPS-001 / N2-DRP-OPS-001)  
 (Stored on Floor in Security East Building)

<b>ANNUAL INVENTORY</b>
Record Seal Number _____

Item/Equipment	Min. Qty	Sat	Unsat	Corrective Action (If Unsat)
Adjustable wrenches (12")	(4)			IR _____ _____
Pipe Wrenches (assorted sizes) (2) 24" (1) 18" (1) 10"	(4)			
Phillips head screw drivers (assorted sizes)	(6)			
Straight Blade Screw Drivers (assorted sizes)	(8)			
Dental tools (Assorted sizes)	(3)			
Needle nose pliers	(1)			
Line-men pliers	(1)			
Wire Stripper	(1)			
Open End/Box End Wrenches SAE ¼ to ¾ inch	(9)			
Open End/Box End Wrench SAE 7/8 inch	(3)			
Open End/Box End Wrench 15/16 inch	(2)			
Open End/Box End Wrench SAE 1 inch	(2)			
Razor Knife	(1)			
Ratcheting Straps	(2)			

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

Attachment 1F, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)

(Supports N1-DRP-OPS-001 / N2-DRP-OPS-001)

(Stored on Floor in Security East Building)

QUARTERLY:	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one)	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
<p>My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.</p> <p>Indicate IR # if seal not intact      IR _____</p> <p>Date completed: _____</p> <p>_____</p> <p>Completed by: (Print Name)</p> <p>_____</p> <p>Completed by: (Signature)</p>	

\_\_\_\_\_  
Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
Emergency Preparedness review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**



**Attachment 1G, OPERATIONS DAMAGE REPAIR MATERIALS**

(Supports N1-DRP-OPS-001 / N2-DRP-OPS-001 and S-DRP-OPS-003)  
 (Stored in Box in the bed of the B.5.b Hose Trailer stored in either the  
 NMP2 Cooling Tower Flume Screen House or Chemical Injection Building)

ANNUAL INVENTORY			
Record Seal Number _____			
Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<b>Damage Repair Materials Stored in Trailer Tool Box</b>	Allen wrench is in a plastic bag.		
(10) – Hoses straps			
(1) – Discharge Manifold (6" inlet to four 2.5" and one 6" valve outlets)			
(1) – Suction Manifold (four 2.5" checked inlets to one 6" outlet)			
(1) – 24 ounce hammer			
(1) – Allen wrench (used to adjust relief valve on discharge manifold)			
(1) – large Bolt Cutter			
(1) – 1 ½" open end wrench			
(1) - Ozzie Master Oscillating Monitor Nozzle with hose wrench. If Ozzie Nozzle is not on B5B Trailer, contact the Fire Marshal to verify the nozzle is offsite for maintenance. If it is, mark UNSAT and document in CR.			IR _____ _____
(2) – 2" trailer hitch balls			
(2) – 2 5/16" trailer hitch balls			
(4) – 2" trailer draw bars with various drop lengths			
(3) – 2.5" wye connection fittings with check valves			
(6) – Spanner wrenches			
(2) – Hydrant Wrenches			
(1) – Set of Jumper Cables			
(8) – Door stops			
Barrel Mover (for moving chemical barrels if blocking trailer movement)			
Pallet Mover (for moving pallets if blocking trailer movement)			

**Attachment 1G, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)**

(Supports N1-DRP-OPS-001 / N2-DRP-OPS-001 and S-DRP-OPS-003)  
 (Stored in Box in the bed of the B.5.b Hose Trailer stored in either the  
 NMP2 Cooling Tower Flume Screen House or Chemical Injection Building)

ANNUAL INVENTORY (CONTINUED)			
Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<b>Damage Repair Materials Stored on Trailer</b>			IR _____ _____
(23) – 100' six inch hose lengths with Storz couplings			
(6) – 100' 3" hose lengths with 2.5" connections (Black Hose Bags)			
(6) – 50' 3" hose lengths with 2.5" connections (Red Hose Bags)			
(6) – 10' hard suction hose lengths			
(1) – 6" Barrel Strainer (connected to one hard suction hose)			
(1) – 6" Floating Strainer			
(1) – 6" Flow Meter			
(1) – Test Throttle Valve Assembly			

Performed by (Print/Initial/Date)  
 (List of all individuals performing inspection below.)

Fire Marshal Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 1G, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)

QUARTERLY:	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one)	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____	
_____ Completed by: (Print Name)	
_____ Completed by: (Signature)	

\_\_\_\_\_  
 Fire Marshal approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
 Emergency Preparedness review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

**Attachment 1H, OPERATIONS DAMAGE REPAIR MATERIALS**

(Supports N1-DRP-OPS-001 / N2-DRP-OPS-001)  
 (Stored in NMP2 Reactor Bldg 261' elevation HCU area)

QUARTERLY INVENTORY		
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Year: _____	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)	<input type="checkbox"/> Other

Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<b>N2 hose and regulator for N1-DRP-OPS-001 and N2-DRP-OPS-001</b>  Section 7.6 Venting the Primary Containment to the Secondary Containment without AC power			IR _____ _____
(1) – N2 Hose and Regulator for charging HCU's			

Performed by (Print/Initial/Date) \_\_\_\_\_ Supervisor Approval (Print/Initial/Date)\*\* \_\_\_\_\_ E. P. Review (Print/Initial/Date) \_\_\_\_\_

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***





**Attachment 11, OPERATIONS DAMAGE REPAIR MATERIALS**

(Supports S-DRP-OPS-003)

(Stored on B.5.b pump in Security West Bldg 261' Garage)

<b>ANNUAL INVENTORY</b>
Record Seal Number _____

Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<b>On B.5.b Portable Pump Trailer-Small Toolbox</b>			
(2) – 2" Trailer Draw Bars			IR _____ _____
(2) – 2" Trailer Hitch Balls			
(1) – 1 ½ " Open End Wrench			
(1) – Pipe Wrench			
(1) – Draw Bar Pin			
(1) Allen Wrench (used to adjust relief valve on pump suction)			
1 pair 16' jumper cables			
In Battery case: Verify battery age, replace every 3 years; last replaced _____			

Performed by (Print/Initial/Date)  
 (List of all individuals performing inspection below.)

Fire Marshal Approval  
 (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

Attachment 1I, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)

QUARTERLY:	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one)	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____	
_____	
Completed by: (Print Name)	
_____	
Completed by: (Signature)	

\_\_\_\_\_  
Fire Marshal approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
Emergency Preparedness review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

**Attachment 1J, OPERATIONS DAMAGE REPAIR MATERIALS**

(Supports N2-DRP-OPS-002)

(Stored in BOX N2-DRP-OPS-002 CONTAINMENT VENTING TOOLBOX)

<b>ANNUAL INVENTORY</b>
Record Seal Number _____

Item/Equipment	Sat	Unsat	Corrective Action (If Unsat)
<b>Connection Wire (10#,120') for N2-DRP-OPS-002 Section 6.3.1</b> Containment Venting Through GTS using Div II UPS Power	Cable is in a plastic bag		
<b>MISCELLANEOUS TOOLS</b>			
(1) ~ 10-in-1 Screwdriver/Nut Driver			
(1) ~ Multi-Purpose 6-in-1 Tool			
(1) ~ Wire Stripper (10 AWG)			IR _____
(1) ~ 7-Piece Cushion-Grip Screwdriver Set			_____
(1) ~ Wire Crimper (10 AWG) *			
(1) ~ Wire Cutter			
(20) ~ Brady Label Packs (4 boxes)			
(10) ~ Butt-splices (10 AWG to 10 AWG)			

\* Record Crimper Calibration expiration date: \_\_\_\_\_ **Replace or calibrate crimper one quarter before the expiration date.** NOTE: Crimper expiration date is labeled on the handle.

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review

(Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 1J, OPERATIONS DAMAGE REPAIR MATERIALS (Continued)

(Supports N2-DRP-OPS-002)

(Stored in BOX N2-DRP-OPS-002 CONTAINMENT VENTING TOOLBOX)

QUARTERLY:	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one)	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
Wire Crimper (10 AWG) *Expiration Date: _____ New Seal #: _____	*Record Crimper Calibration expiration date: Replace or calibrate crimper one quarter before the expiration date. NOTE: Crimper expiration date is labeled on the handle.
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____	
_____ Completed by: (Print Name)	
_____ Completed by: (Signature)	

\_\_\_\_\_  
Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
Emergency Preparedness review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 2, SECURITY BUILDING INVENTORY: AMBULANCE AND FIRE KIT UNIT 2

Location: Security Unit 2

<b>ANNUAL INVENTORY</b> (performed 4 <sup>th</sup> quarter)
Record Seal Number _____

Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
<b>Tackle Box</b>				IR _____ _____
*1	DLRs (with 2 controls) and issue sheets	(50)		
*2	Finger Rings (with 1 pair controls)	(6 pair)		
<b>Foot Locker</b>				
Item/Equipment	Min. Qty	Sat	Unsat	
1	Masking Tape 2"	(2 rolls)		
2	Sealed Sets of PCs	(3)		
3	Disposable Gloves	(1 box)		
4	Bandage Scissors	(2)		
5	Herculite Green	(1)		
6	Herculite Yellow or White	(2)		
7	Clip Board, Pencils	(1)		
8	Paper Pads	(1)		
9	Plastic Bags (assorted)	(4)		

**NOTE:** \* Separate sealed box

Performed by (Print/Initial/Date) \_\_\_\_\_ Supervisor Approval (Print/Initial/Date)\*\* \_\_\_\_\_ E. P. Review (Print/Initial/Date) \_\_\_\_\_

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 2, SECURITY BUILDING INVENTORY: AMBULANCE AND FIRE KIT UNIT 2  
(Continued)**

Location: Security Unit 2

QUARTERLY:	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Annual inventory performed 4 <sup>th</sup> quarter	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____	
_____ Completed by: (Print Name)	
_____ Completed by: (Signature)	

\_\_\_\_\_  
 Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
 Emergency Preparedness review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

**Attachment 3, RADIATION PROTECTION SUPPLIES AND EQUIPMENT  
OSC/TSC/ONSITE/DOWNWIND**

Location: OSC Storeroom – Unit 1 – El. 261'

ANNUAL INVENTORY (performed 4 <sup>th</sup> quarter)				
Record Seal Number _____				
Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
<b>PROTECTIVE EQUIPMENT</b>				
1	Flashlights*	(30)		
2	Extra D-Cell Batteries*	(50)		
3	KI Tablets Due Date: _____	(200)		
<b>SUPPLIES</b>				
1	P-5 keys to Environmental Stations	(3)		
2	Key to Softball Field	(1)		
3	New York State Road Map	(3)		
4	Oswego County Maps	(3)		
5	Rolls of Tape	(20)		
6	Misc. Plastic Bags			
7	Disc Smears	(10 bx)		
8	Maslin Cloth	(10 pk)		
9	Extension Cord	(6)		
10	Latex Gloves	(10 bx)		
11	Rubber Boots	(6 pr)		
12	Rain Suits	(6)		
13	Rad Rope ( <i>at least 100'</i> )			
14	Step off Pads	(4)		
15	Radiation Material Tags ( <i>paper</i> )	(40)		
16	Radiation Signs and Inserts	(3)		
17	Plastic Booties	(40 pr)		
18	½ Amp Fuse for VAMP	(1)		

IR \_\_\_\_\_  
\_\_\_\_\_

Performed by (Print/Initial/Date) \_\_\_\_\_ Supervisor Approval (Print/Initial/Date)\*\* \_\_\_\_\_ E. P. Review (Print/Initial/Date) \_\_\_\_\_

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 3, RADIATION PROTECTION SUPPLIES AND EQUIPMENT  
 OSC/TSC/ONSITE/DOWNWIND (Continued)**

Location: OSC Storeroom – Unit 1 – El. 261'

QUARTERLY:	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Annual inventory performed 4 <sup>th</sup> quarter	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____	
_____ Completed by: (Print Name)	
_____ Completed by: (Signature)	

\* Record Battery expiration date: \_\_\_\_\_ **Replace batteries before the expiration date.**  
 NOTE: Battery expiration date is labeled on the battery. If batteries do not have expiration date then replace during the annual inspection.

\_\_\_\_\_  
 Supervisor approval (Print/Initial/Date)\*\*      \_\_\_\_\_  
 Emergency Preparedness review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**



**Attachment 4A, RADIOLOGICAL MONITORING EQUIPMENT OSC/TSC/ONSITE/DOWNWIND**

**Location: OSC Storeroom – Unit 1 EI. 261'**

ANNUAL INVENTORY (performed 4 <sup>th</sup> quarter)					
Record Seal Number _____					
Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)	
<b>EQUIPMENT</b>					
1	Count Rate Meter (verify in cal)	(7)			IR _____ _____
2	Dose Rate Meter (0-5R/hr) (verify in cal)	(4)			
3	Dose Rate Meter (0-50R/hr)(verify in cal)	(6)			
4	Sealed Silver Zeolite Air Sample Packs (each contains) • 1 Petri Dish • 1 Particulate Filter • 2 Collection Envelopes	(15)			
5	Sealed Charcoal Air Sample Packs (each contains) • 1 Petri Dish • 1 Particulate Filter • 2 Collection Envelopes	(20)			
6	Radeco AC Air Sampler (verify in cal)	(10)			
7	Spare Fuse for Radeco	(10)			
8	Radeco DC Air Sampler (verify in cal)	(3)			
9	Head for Air Sampler	(10)			
10	Multigas Detector	(1)			
11	Gym Bags	(10)			
<b>DOSIMETRY</b> – Located in Box in Unit 1 RP Office					
1	DLRs (with 2 Controls)	(50)			IR _____ _____
2	Finger Rings (with 1 pair Controls)	(40 pr)			
3	Dosimeters (0-1500 mRem)	(20)			
4	Dosimeters (0-5 Rem)	(20)			
5	Dosimeters (0-50 Rem)	(5)			
6	Dosimetry Issue Sheets	(2)			
7	Dosimeter Charger	(1)			

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 4A, RADIOLOGICAL MONITORING EQUIPMENT OSC/TSC/ONSITE/DOWNWIND  
(Continued)**

**Location: OSC Storeroom – Unit 1 El. 261'**

<b>QUARTERLY:</b>	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Annual inventory performed 4 <sup>th</sup> quarter	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____ _____	
Completed by: (Print Name)	
_____ Completed by: (Signature)	

\_\_\_\_\_  
 Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
 Emergency Preparedness review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

Attachment 4B, MISC. R.P. EQUIPMENT

<b>QUARTERLY INVENTORY</b> (performed 4 <sup>th</sup> quarter)					
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Year: _____		<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)		<input type="checkbox"/> Other	
Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)	
1. Hand and Foot Monitor (TSC) Serial #: _____ Cal. Due: _____ Serial #: _____ Cal. Due: _____	(2)			IR _____ _____	
2. PING (TSC) Serial #: _____ Cal. Due: _____	(1)				
3. VAMP (TSC Rad Assessment Room) Serial #: _____ Cal. Due: _____	(1)				
4. VAMP (OSC Core) Serial #: _____ Cal. Due: _____	(1)				
5. Frisker RM-14 Serial #: _____ Cal. Due: _____	(1)				

Performed by (Print/Initial/Date) \_\_\_\_\_ Supervisor Approval (Print/Initial/Date)\*\* \_\_\_\_\_ E. P. Review (Print/Initial/Date) \_\_\_\_\_

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 5, RADIATION PROTECTION SUPPLIES AND EQUIPMENT EOF

Location: EOF Dock and Storage Area

ANNUAL INVENTORY (performed 4 <sup>th</sup> quarter)				
Record Seal Number _____				
Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
<b>PROTECTIVE EQUIPMENT</b>				
1	Prot. Clothing ( <i>complete sealed pks</i> )	(10 sets)		
2	Flashlights *	(4)		
3	Extra D-Cell Batteries *	(8)		
4	KI Tablets Due Date: _____	(50)		
5	Sealed Silver Zeolite Air Sample Packs (each contains) • 1 Petri Dish, 1 Particulate Filter • 2 Collection Envelopes	(6)		
6	Sealed Charcoal Air Sample Packs (each contains) • 1 Petri Dish, 1 Particulate Filter • 2 Collection Envelopes	(6)		
7	Boots	(3 Pair)		
8	Shovels	(2)		
9	Rainsuits	(4)		
10	Key to Softball Field	(1)		
11	New York State Road Map	(1)		
12	Rolls of Tape (2")	(4)		
13	Adhesive Labels	(10)		
14	Tie Labels	(10)		
15	Plastic Bag Ties	(10)		
16	Tape Measure (100 ft.)	(1)		
17	Water Sample Container (1 gal.)	(12)		
18	Grass Clippers	(1)		
19	Pruning Shears	(1)		
20	Mallet	(1)		
21	Magnetic Pocket Compass	(1)		
22	Twine	(3 rolls)		
23	Garden Trowel	(1)		
24	Red Florescent Tape	(1)		
25	Stakes	(20)		
26	"P-5" keys to Environmental Stations	(1)		

IR \_\_\_\_\_  
\_\_\_\_\_

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date\*\*)

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 5, RADIATION PROTECTION SUPPLIES AND EQUIPMENT EOF (Continued)

Location: EOF Dock and Storage Area

QUARTERLY:	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Annual inventory performed 4 <sup>th</sup> quarter	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____	
_____ Completed by: (Print Name)	
_____ Completed by: (Signature)	

\_\_\_\_\_  
 Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
 Emergency Preparedness review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

**Attachment 6, RADIOLOGICAL MONITORING EQUIPMENT EOF**

Location: EOF Dock and Storage Area

<b>ANNUAL INVENTORY</b> (performed 4 <sup>th</sup> quarter)
Record Seal Number _____

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
<b>DOSIMETRY BOX (sealed)</b>					
1	DLRs (with 2 Controls)	(100)			
2	Dosimeters (0-500 mRem)	(8)			
3	Dosimeters (0-5 Rem)	(4)			
4	Dosimetry Issue Sheets				

\_\_\_\_\_  
 Performed by (Print/Initial/Date)      Supervisor Approval (Print/Initial/Date)\*\*      E. P. Review      (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

Attachment 6, RADIOLOGICAL MONITORING EQUIPMENT EOF (Continued)

Location: EOF Dock and Storage Area

QUARTERLY:					
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Annual inventory performed 4 <sup>th</sup> quarter			<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)		
Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)	
<b><u>EQUIPMENT</u></b>					
1	Count Rate Meters (verify in cal)	(4)			IR _____ _____
2	Dose Rate Meters (verify in cal)	(3)			
3	Radeco AC Air Sampler with Spare Fuse (verify in cal)	(2)			
4	Radeco DC Air Sampler (verify in cal)	(1)			
5	Head for Air Sampler	(2)			
6	Check Source (for meters)	(1)			
7	Dosimeter Charger *	(1)			
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact.  Indicate IR # if seal not intact    IR _____  Date completed: _____  _____ Completed by: (Print Name)  _____ Completed by: (Signature)					

Supervisor approval (Print/Initial/Date)\*\*

Emergency Preparedness review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 7, RADIATION PROTECTION SUPPLIES AND EQUIPMENT OFFSITE ASSEMBLY AREA**

**Location: Offsite Assembly Area –Volney Service Center**

**NOTE:** Located in the NMP OAA Supply cabinet in the NW corner of the building

<b>ANNUAL INVENTORY</b> (performed 4 <sup>th</sup> quarter)
Record Seal Number _____

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions
<b>SUPPLIES: in cabinet</b>					
1	Misc. Plastic Bags	(10)			
2	Disc Smears	(3 bx)			
3	Muslin Cloth	(3 pkg)			
4	Extension Cord	(1)			
5	Surgical Gloves	(3 bx)			
6	Cotton Liners	(12 pr)			
7	Gym Bags	(3)			
8	Rad Rope (at least 50')	(50')			
9	Rad Material Tags	(6)			
10	Cotton Tip Swabs	(1 pkg)			
11	Surgical Scrub Brushes	(5)			
12	Step off Pads	(4)			IR _____
13	Bandage Scissors	(2)			_____
14	Soap bars	(2)			
15	Shampoo	(1)			
16	Pocket Watch	(3)			
17	Masking Tape	(5 Rolls)			
18	Material ID Tags	(10)			
19	Rad Plastic Bags	(6)			
<b>PROTECTIVE EQUIP.: in cabinet</b>					
1	Disposable Coveralls	(1 box)			
2	Paper Bath Towels	(25)			
3	Paper Hand Towels	(2 pkg)			
4	Plastic Shoe Covers	(10)			
5	Shovels	(2)			

Performed by \_\_\_\_\_  
(Print/Initial/Date)

Supervisor Approval \_\_\_\_\_  
(Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**



**Attachment 7, RADIATION PROTECTION SUPPLIES AND EQUIPMENT OFFSITE ASSEMBLY  
(Continued)**

**Location: Offsite Assembly Area –Volney Service Center**

**NOTE:** Located in the NMP OAA Supply cabinet in the NW corner of the building - Contact National Grid for access requirements Monday - Friday Business Hours Only

<b>QUARTERLY:</b>	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Annual inventory performed 4 <sup>th</sup> quarter	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____	
_____ Completed by: (Print Name)	
_____ Completed by: (Signature)	

\_\_\_\_\_  
Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
Emergency Preparedness review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 8, OSWEGO HOSPITAL NUCLEAR EMERGENCY CABINET INVENTORY**

**Location: Hallway Adjacent to X-Ray Dept or closet next to Conference/Rad. Treatment Rm**

<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Year: _____	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)	<input type="checkbox"/> Other
---	--	--------------------------------

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions
1	Pre-Cut Green Herculite	(1)			IR _____ _____
2	Step-Off Pads	(2)			
3	Masking Tape	(10)			
4	Radiation Signs	(10)			
5	Yellow & Magenta Rope	(3)			
6	Magnets	(6)			
7	Yellow Trash Bags	(10)			
8	Dosimeter Charger * (1 battery & 1 AC)	(2)			
9	Sample Taking Kit (contents IAW Plan)	(1)			
11	Accident Proc. Poster	(1)			
12	<b>Sealed Protective Clothing Kits</b>	(10)			
	DLR badge	Due Date: _____			
	(0-200 mRem) Dosimeter,	Due Date: _____			
	(0-500 mRem) Dosimeter,	Due Date: _____			
13	Decontamination Table Top	(1)			
14	Hose / Nozzle for Decontamination Table Top	(2)			
15	Yellow Water Receptacles	(2)			
16	Yellow Trash Receptacles	(2)			
17	Movable Base for Trash Receptacles	(2)			
18	Lead Pig	(1)			
19	White/Yellow Plastic Matting	(2)			
20	Portable Stanchion	(1)			
21	Radiation Tags (tie) – misc.	(10)			
22	Radiation Tags (adhesive) – misc.	(10)			
23	Disc Smears	(50)			
24	Atomic Wipes	(50)			
25	Extension Cord (for count rate meter)	(1)			
26	<b>Count Rate Meter (NMP),</b>				
	SN	Due Date			
			(1)		
27	<b>Dose Rate Meter (NMP),</b>				
	SN	Due Date			
			(1)		
28	<b>NMP Check Source</b>				
	Number: _____		(1)		

Attachment 8, OSWEGO HOSPITAL NUCLEAR EMERGENCY CABINET INVENTORY (Continued)

Location: Hallway Adjacent to X-Ray Dept or closet next to Conference/Rad. Treatment Rm

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions	
29	Dosimeters (O-5R)(NMP)	(5)			IR _____ _____	
30	Control DLR (NMP), Due Date: _____	(2)				
31	Dosimetry Issue Log and (NMP) Cross Reference to Kit #					
32	The Oswego Hospital Plan for the Decontamination and Treatment of the Radioactively Contaminated Patient (located at nurses' station)	(1)				
<b>Decontamination Kit Inventory</b>						
1	<b>Skin decontamination agents</b> -may include: Betadine, Phisoderm, Clorox, boraxo soap, shampoo in any combination	(5)				
2	<b>Wound Decontaminants</b> – may include: Saline, hydrogen peroxide or others deemed appropriate	(3)				
<b>Decontamination Materials</b>						
3	EZ Scrubs	(10)				
4	Waterproof drapes (chux pads)	(10)				
5	Decon pads	(2)				
6	Cotton tipped applicators	(15)				
7	Pairs of surgical gloves	(8)				
8	Gauze pads (4 x 4)	(7)				
9	Solution bowl	(1)				
10	Irrigation syringe	(1)				
11	Shave prep kit	(1)				
12	Irri-jet syringe system	(1)				
<b>Miscellaneous Items</b>						
14	Decontamination Procedure	(1)				
15	Skin Cream	(1)				
16	Tegaderm dressing or equivalent	(5)				
17	Steri-drape	(2)				
18	Marker	(1)				
19	Pen	(1)				
20	Nail Clipper	(1)				
21	Surgical Tape	(2)				
22	Write on plastic bags	(10)				
23	Forceps	(1)				
24	EMT Scissors	(2)				

\* Record Battery expiration date: \_\_\_\_\_ **Replace batteries before the expiration date.**  
 NOTE: Battery expiration date is labeled on the battery. If batteries do not have an expiration date then replace during the annual inspection.

Performed by (Print/Initial/Date) \_\_\_\_\_ Supervisor Approval (Print/Initial/Date)\*\* \_\_\_\_\_ E. P. Review (Print/Initial/Date) \_\_\_\_\_

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 9, PERSONNEL DECONTAMINATION ROOM SUPPLIES INVENTORY UNIT 1**

**Location: U1 OSC Storeroom**

<b>ANNUAL INVENTORY</b> (performed 4 <sup>th</sup> quarter)
Record Seal Number _____

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
1	Coveralls	(6)			IR _____ _____
2	Paper Bath Towels	(6)			
3	Paper Hand Towels	(6)			
4	Disposable Gloves	(1 box)			
5	Assorted Plastic Bags	(6)			
6	4 x 4 Steri Pads	(1)			
7	Scissors ( <i>Bandage Type</i> )	(1)			
8	Shampoo	(4)			
9	Shaving Cream	(2)			
10	Disposable Razors	(1)			
11	Cotton Swabs	(1 box)			
12	Surgical Scrub Brushes	(10)			
13	Masking Tape	(2)			
14	Sample Envelopes	(6)			
15	Assorted Radiation/ Contamination Tags	(6)			
16	Soap	(10)			

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

Attachment 9, PERSONNEL DECONTAMINATION ROOM SUPPLIES INVENTORY UNIT 1 (Continued)

Location: U1 OSC Storeroom

<b>QUARTERLY:</b>	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Annual inventory performed 4 <sup>th</sup> quarter	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____	
_____ Completed by: (Print Name)	
_____ Completed by: (Signature)	

\_\_\_\_\_  
 Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
 Emergency Preparedness review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

Attachment 10, PERSONNEL DECONTAMINATION ROOM SUPPLIES INVENTORY UNIT 2

Location: U2, 261' ACB

ANNUAL INVENTORY (performed 4 <sup>th</sup> quarter)					
Record Seal Number _____					
	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
1	Coveralls	(6)			IR _____ _____
2	Paper Bath Towels	(6)			
3	Paper Hand Towels	(6)			
4	Disposable Gloves	(1 box)			
5	Assorted Plastic Bags	(6)			
6	4 x 4 Steri Pads	(1)			
7	Scissors ( <i>Bandage Type</i> )	(1)			
8	Shampoo	(4)			
9	Shaving Cream	(2)			
10	Disposable Razors	(1)			
11	Cotton Swabs	(1 box)			
12	Surgical Scrub Brushes	(10)			
13	Masking Tape	(2)			
14	Sample Envelopes	(6)			
15	Assorted Radiation/Contamination Tags	(6)			
16	Soap	(10)			

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review

(Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 10, PERSONNEL DECONTAMINATION ROOM SUPPLIES INVENTORY UNIT 2  
(Continued)

Location: U2, 261' ACB

<b>QUARTERLY:</b>	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Annual inventory performed 4 <sup>th</sup> quarter	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____	
_____ Completed by: (Print Name)	
_____ Completed by: (Signature)	

\_\_\_\_\_  
Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
Emergency Preparedness review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 11, TECHNICAL SUPPORT CENTER

QUARTERLY:					
Quarter 1 2 3 4 Year	Post Drill / Exercise / Event Date: (circle appropriate)				Other:
Item / Equipment	Min. Qty	Sat	Unsat	Corrective Actions (if Unsat)	
Fax	(1)				
Paper	(1 ream)				
Managed Print copier/printer/fax	(1)				
Managed print copier/printer/fax	(1)				
Compass Rose (2' x 2')	(1)				
Pump Curve Book, Unit 1					
<b>Diagrams / drawings</b>					
Electrical Diagrams, Unit 1	(1 set)				
Electrical Diagrams, Unit 2	(1 set)				
Isometrics, Unit 1	(1 set)				
Mechanical Diagrams, Unit 2	(1 set)				
P&IDs, Unit 1	(1 set)				
P&IDs, Unit 2	(1 set)				
<b>Diagrams / drawings</b>					
Maps (20 mile radius or larger)	(1)				
Control and Instrument Power, Figure IX-2	(1)				
Electrical Feeds, Unit 1 Area Rad Monitors	(1)				
Electrical Feeds, Unit 1 Process Rad Monitors	(1)				
Electrical Power Distribution diagram (EEM01A/B)	(1)				
Emergency Operating Procedure (EOP) Flow Charts, U1	(1 set)				
Emergency Operating Procedure (EOP) Flow Charts, U2	(1 set)				
Generalized Station Drawing, Unit 1 (on wall)	(1)				
Generalized Station Drawing, Unit 2 (on wall)	(1)				
Reactor Vessel Drawing, Unit 1	(1)				
Reactor Vessel Drawing, Unit 2	(1)				
Station Power Distribution, C19409C, Sh 1B	(1)				
Severe Accident Procedure (SAP) Flow Charts, U1	(1)				
Severe Accident Procedure (SAP) Flow Charts, U2	(1)				
Emergency Action Levels (EAL), Unit 1	(1)				
Emergency Action Levels (EAL), Unit 2	(1)				
S-EDMG-01, Loss of Large Areas of Station	(1)				
Eating/Drinking/Smoking Is/Is Not Authorized Sign	(1)				
Release Is/Is Not in Progress Sign	(1)				



## Attachment 11, TECHNICAL SUPPORT CENTER (Continued)

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
	<b>Emergency Classifications Signs</b>				
	Emergency Class	(1)			
	Unusual Event	(1)			
	Alert	(1)			
	Site Area Emergency	(1)			
	General Emergency	(1)			
	<b>Procedure/Documents</b>				
1	Chemistry Surveillance Procedures (CSP), Unit 2	(1)			
2	Core Operating Limits Report (COLR)	(1)			
3	Damage Repair Procedures, (DRP), Unit 1/Unit 2	(1)			
4	Emergency Chemistry Procedures (ECP), Unit 1	(1)			
5	Emerg. Prep. Implementing Procedures (EPIP)	(3)			
6	Emerg. Prep. Maintenance Procedures (EPMP)	(2)			
7	Final Safety Analysis Report (FSAR), Unit 1	(1)			
8	FSAR Appendices & Supplements, Unit 1	(1)			
9	Fuel Handling Procedures (FHP), Unit 1	(1)			
10	Fuel Handling Procedures (FHP), Unit 2	(1)			
11	Generation Administrative Procedures (GAP)	(1)			
12	INPO Emergency/Resources Manual	(1)			
13	New York State Radiological Emergency Preparedness Plan	(1)			
14	Nuclear Interfacing Procedures (NIP)	(1)			
15	Oswego County Radiological Emergency/Preparedness Plan	(1)			
16	Radiation Protection Administrative Procedures (S-RAP)	(1)			
17	RP Technical & Analytical Procedures (RTP), U1/U2	(1)			
18	RP Implementing Procedures (RPIP), 2 books	(1)			
19	Emergency Action Level (EAL) Reference Manual	(1)			
20	Emergency Operating Procedures Bases (EOP), U1	(1)			
21	Emergency Operating Procedures Bases (EOP), U2	(1)			
22	Technical Support Reference Guide, Unit 1	(1)			
23	Technical Support Reference Guide, Unit 2	(1)			
24	Reactor Engineering Procedures (REP), Unit 2	(1)			
25	Reactor Engineering Surv. Procedures (RESP), Unit 2 (2 volumes)	(1)			
26	Site Emergency Plan (SEP)	(1)			
27	Site RP Technical & Analytical Procedures (RTP)	(1)			
28	Special Operating Procedure (SOP), Unit 1 (2 binders in the TSC conference room)	(1)			
29	Oswego Hospital Plan	(1)			

Attachment 11, TECHNICAL SUPPORT CENTER (Continued)

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
<b>Procedure/Documents (cont)</b>					
30	Technical Specification Amendment Letters (4 volumes)	(1)			
31	Technical Specifications, Unit 1	(1)			
32	Improved Technical Specifications, Unit 2 (4 volumes)	(1)			
33	Unit 1 and Unit 2 Fire Pre-Plans	(1)			
34	Updated Safety Analysis Report (USAR), Unit 2 (in Rad Assessment Room)	(1)			
35	Waste Handling Procedures (WHP)	(1)			
36	Steam Tables (6 <sup>th</sup> edition book)	(1)			
	Area Rad Monitor Board, Unit 1	(1)			
	Area Rad Monitor Board, Unit 2	(1)			
	Emergency Events Status Board	(1)			
	Equipment Survey/Sample Status Board	(1)			
	In-plant Survey Board	(1)			
	Plant Status Board, Unit 1	(1)			
	Plant Status Board, Unit 2	(1)			
	Plant Trending Board	(1)			
	Process RAD Monitor Status Board, Unit 1	(1)			
	Process RAD Monitor Status Board, Unit 2	(1)			
	10 Mile Emergency Planning Zone	(1)			
	Primary Evacuation Routes	(1)			
	Offsite Survey Locations	(1)			
	Siren Locations	(1)			
	2000 Population Estimates	(1)			
	Calculators	(1)			
	Cassette Tapes	(2)			
	Flashlight	(2)			
	Liquid Cleaner for Status Boards	(1)			
	Portable Cassette Recorder	(1)			
	Sleeping Cots (Collapsible)	(12)			
	<b>Batteries:</b>				
	AA Cell	(6)			
	C Cell	(6)			
	D Cell	(6)			
	KI Tablets Due Date: _____	(50)			
<p>* Record Battery expiration dates: _____</p> <p><b>Replace batteries before the expiration date.</b> NOTE: Battery expiration date is labeled on the battery. If batteries do not have an expiration date then replace during the annual inspection.</p>					

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 12, EOF (EMERGENCY OPERATION FACILITY)

QUARTERLY:					
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Year		<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)		<input type="checkbox"/> Other	
Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (if Unsat)	
<b>Diagrams/Drawings</b>					
<b>Status Boards:</b>					
Emergency Event Status Board	(1)				
Plant Trending Board	(1)				
<b>Procedures/Documents: (CART)</b>					
Emerg. Prep. Implementing Procedures (EPIP)	(2)				
Emerg. Prep. Maint. Procedures (EPMP)	(2)				
Site Emergency Plan (SEP)	(1)				
<b>Diagrams/Drawings</b>					
1 Plant Status Board Unit 1	(1)				
2 Plant Status Board Unit 2	(1)				
3 Emerg. Op. Proc. (EOP) Flow Charts, Unit 1	(1 set)				
4 Emerg. Op. Proc. (EOP) Flow Charts, Unit 2	(1 set)				
5 Reactor Vessel Drawings, Unit 1	(1)				
6 Reactor Vessel Drawings, Unit 2	(1)				
7 Emergency Action Levels (EAL), Unit 1	(2)				
8 Emergency Action Levels (EAL), Unit 2	(2)				
9 S-EDMG-01, Loss of Large Area of Station	(1)				
10 Severe Accident Proc. (SAP) Flow Charts, U1	(1)				
11 Severe Accident Proc. (SAP) Flow Charts, U2	(1)				
<b>Procedures/Documents: (BOOKSHELF)</b>					
1 Core Operating Limits Report (COLR)	(1)				
2 Emergency Operation Procedures, Unit 1	(1)				
3 Emergency Operation Procedures, Unit 2	(1)				
4 Emerg Prep Implementing Procedures (EPIP)	(1)				
5 Emerg Prep Maintenance Procedures (EPMP)	(1)				
6 Final Safety Analysis Report (FSAR), Unit 1	(4 vol)				
7 Updated Safety Analysis Report (USAR), Unit 2	(28 vol)				
8 INPO Resources Manual	(1)				
9 Site Emergency Plan (SEP)	(1)				
10 Special Operating Procedures (SOP), Unit 1	(1)				
11 Tech Specification Amendment Letters, Unit 1	(1)				
12 Technical Specifications, Unit 1	(1)				
13 Improved Technical Specifications, Unit 2	(1)				
14 Technical Support Reference Guide, Unit 1	(1)				
15 Technical Support Reference Guide, Unit 2	(1)				
<b>Hardware</b>					
Managed Print copier/printer/fax	(1)				
Procedure computer	(1)				
Procedure computer UPS	(1)				

IR \_\_\_\_\_  
\_\_\_\_\_

Attachment 12, EOF (EMERGENCY OPERATION FACILITY) (Continued)

Item/Equipment	Min. Qty	Unsat	Corrective Actions (if unsat)	
<b>DOSE ASSESSMENT ROOM</b>				
Maps with Overlays:	(1)		IR _____ _____	
10 mile radius	(1)			
50 mile radius	(1)			
Map Azimuth Indicator	(1)			
<b>Procedures/Documents</b>				
Emerg Prep Implementing Procedures (EPIP)	(1)			
Emerg Prep Maintenance Procedures (EPMP)	(1)			
Site Emergency Plan (SEP)	(1)			
Environmental Protection Manual of Protective Action Guides and Protective Actions for Nuclear Incidents (EPA-400)	(1)			
Evacuation Time Estimate	(1)			
NYS Rad Emerg Prep Plan and Procedures	(1)			
Oswego County Rad Emerg Prep Plan & Procedures	(1)			
Managed Print copier/printer/fax	(1)			
EDAMs Computer	(2)			
EDAMs Printer	(1)			
Procedure computer	(1)			
Procedure computer UPS	(1)			
Downwind Survey/Sample Status Board	(1)			

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 13, EMERGENCY VENTILATION FILTER LOG**

**1.0 PROCEDURE**

1.1 Determine the time that the TSC ventilation ran (in hours) by subtracting the previous quarter's reading from the current quarter's reading and dividing that value by 60.

1.2 Send this sheet to:

- TSC Ventilation System Engineer

Complete the following:

Quarter (Circle) 1 2 3 4

Current quarter run time indicator value: \_\_\_\_\_

Previous quarter run time indicator value: \_\_\_\_\_

Total Run Time Hours: \_\_\_\_\_

\_\_\_\_\_  
Performed by (Print/Initial/Date)

\_\_\_\_\_  
Supervisor Approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 14, OPERATIONS SUPPORT CENTER (OSC)

QUARTERLY:		
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Year	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)	<input type="checkbox"/> Other

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
	Emergency Classification Signs				
	Clocks	(1)			
	Mechanical P&ID Diagrams – Unit 1	(1 set)			
	Mechanical P&ID Diagrams – Unit 2	(1 set)			
	<b>Procedures/Documents</b>				
	Damage Repair Procedures (DRP)	(1)			
	Emerg. Prep. Impl. Procedures (EPIP)	(1)			
	Emerg. Prep. Maint. Procedures (EPMP)	(1)			
	Site Emergency Plan (SEP)	(1)			
	<b>Telephones:</b>				
	Outside Line (any 349 or 342 exchange)	(1)			
	OSC Communicator	(1)			
	EIS Operator	(1)			
	Clerical	(1)			
	DCT Coord Phone	(1)			
	RPTC Phone	(1)			
	TSC-OSC PA Speaker	(1)			
	Drill Controller Line	(1)			
	Radio Charger	(2)			
	Radios	(12)			
	Managed Print copier/printer/fax	(1)			
	Aperture Card Cabinet Unit 1 and Unit 2	(Set)			

IR \_\_\_\_\_  
\_\_\_\_\_

Performed by (Print/Initial/Date)      Supervisor Approval (Print/Initial/Date)\*\*      E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 15, JOINT INFORMATION CENTER JIC

<b>QUARTERLY:</b>		
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Year: _____	<input type="checkbox"/> Post Drill/Exercise/Event: Date: _____ (circle appropriate)	<input type="checkbox"/> Other

Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)	
Computer	(1)			IR _____ _____	
TV with VCR	(1)				
Projector	(1)				
Teleconference Camera	(1)				
Teleconference equipment	(1)				
Drill Controller Line Telephone headsets:	(1)				
60-second clock	(1)				
Video Monitor/TV					
Clock	(1)				
Computer(s)	(2)				
Tech Info Line Telephone headset:	(1)				
<b>Procedures/Documents</b>					
Emerg Plan Implementing Procedures (EPIP)	(1)				
Emerg Plan Maintenance Procedures (EPMP)	(1)				
Site Emergency Plan (SEP)	(1)				
Emergency Action Level Reference Manual	(1)				
Unit 1 and Unit 2 EAL Charts	(1 ea)				
Video Monitor/TV	(2)				
Sign-off rubber stamp (in drawer)	(1)				
AA* Record Battery expiration date:	(6)				
AAA* ReCord Battery expiration date:	(6)				
C* Record Battery expiration date:	(6)				
D* Record Battery expiration date:	(6)				
9V* Record Battery expiration date:	(6)				
* Record Battery expiration dates. <b>Replace batteries before the expiration date.</b> NOTE: Battery expiration date is labeled on the battery. If batteries do not have an expiration date then replace during the annual inspection					
<b>Electronic Signs</b>					
Check signs for proper recall of the following displays: "No Emergency", "Unusual Event", "Alert", "Site Area Emergency", "General Emergency"	N/A				

## Attachment 15, JOINT INFORMATION CENTER JIC (Continued)

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
	Toner	(1)			
	Copier paper	(1)			
	<b>RUBBER STAMPS</b>				
	Drill	(1)			
	Exercise Only	(1)			
	Reviewed by	(1)			
	Managed Print copier/printer/fax	(4)			
	Fax rubber stamp	(1)			
	Clock	(1)			
	TV	(1)			
	Rumor Control – Media Response Inquiry and Off Air Monitor Forms	(50)			
	Video cassette recorder/TV	(1)			
	Rumor Control – Media Response Inquiry and Off Air Monitor Forms	(50)			
	DVD Players	(4)			
	TVs	(4)			
	Head phones	(1)			
	Computer/Monitor	(1)			
	Scanner	(1)			
	Tone Alert Radio	(1)			
	DVDs	(10)			
1	Video Projector	(1)			
2	Audio cassettes	(25)			
3	Video cassettes	(25)			
4	Overhead projector	(1)			
5	Slide projector	(1)			



Attachment 15, JOINT INFORMATION CENTER JIC (Continued)

Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions(If Unsat)
Wireless MICs	(1)			IR _____ _____
Multi-box	(1)			
<b>Registration Logs:</b>				
Blue	(50)			
Pink	(50)			
Yellow	(50)			
Badge Holders	(100)			
<b>Badges:</b>				
Blue	(100)			
Pink	(100)			
Yellow	(100)			
<b>Press Kits:</b>				
Nine Mile 1	(10)			
Nine Mile 2	(10)			
JAF	(10)			
Tables	(16)			
Chairs	(80)			
Computer, with local mouse and keyboard	(1)			
Flat microphones	(4)			
Remote controls (VCR, mouse, projector)	(3)			

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 16A, DAMAGE CONTROL TOOL BOX INVENTORY (MECHANICAL)**

Location: U1 Screenhouse

ANNUAL INVENTORY					
Record Seal Number _____					
	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
<b>MECHANICAL TOOL LISTING</b>					
1	Hack Saws	(2)			
2	2' Level	(1)			
3	Wrecking Bars	(2)			
4	Crow Bar	(1)			
5	½" Drill	(1)			
6	3/8" Drill	(1)			
7	6" C-Clamps	(2)			
8	6' Wooden Rules	(2)			
9	2 lb. Slugging Hammer	(1)			
10	Large Rubber Hammers	(2)			
11	12 oz. Machinist Hammers	(2)			
12	16 oz. Machinist Hammers	(2)			
13	50' Extension Cord	(1)			
14	25' Extension Cord	(1)			
15	Low Voltage Lead Light	(1)			
16	Fluorescent Lights	(2)			
17	¾" Socket Set ¾" to 2"	(1)			
18	1/16" to ½" by 1/64" Drill Indexes	(2)			
19	18" Adjustable Wrench	(2)			
20	12" Adjustable Wrench	(4)			
21	10" Adjustable Wrench	(4)			
22	7" Vise Grip Pliers	(1)			
23	10" Vise Grip Pliers	(1)			
24	½ Ton to ¾ Ton Chain Fall	(1)			
25	50' Length ½" Rope	(1)			
26	6" Adjustable Wrench	(4)			
27	Duckbill Snips	(2)			
28	Straight Snips	(2)			
29	Regular Standard Pliers	(2)			
30	Large Channel Lock Pliers	(2)			
31	Torpedo Levels	(2)			
32	100' Steel Tape	(1)			
33	10 lb. Slugging Hammer	(1)			
34	Screwdriver Set ( <i>Flat and Phillips</i> )	(1)			
35	½" Socket Set 3/8" to 1 ¼"	(1)			
36	¼" Shackles	(2)			

IR \_\_\_\_\_  
\_\_\_\_\_

Attachment 16A, DAMAGE CONTROL TOOL BOX INVENTORY (MECHANICAL) (Continued)

Location: U1 Screenhouse

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (If Unsat)
37	3/8" Shackles	(2)			IR _____ _____
38	1/2" Shackles	(2)			
39	Allen Wrench Set	(1)			
40	10" Pipe Wrench	(1)			
41	14" Pipe Wrench	(1)			
42	18" Pipe Wrench	(1)			
43	Inspection Mirror	(1)			
44	Grey Tape	(2)			
45	Masking Tape	(2)			
46	Nuclear Grade Pipe Sealant	(2)			
47	Pairs Work Gloves	(4)			
48	Baling Wire	(1)			
49	Large Wire Brushes	(2)			
50	Small Wire Brushes	(2)			
51	Pair Ear Plugs	(6)			
52	G.F.I.	(1)			
53	1" Putty Knife	(1)			
54	2" Putty Knife	(1)			
55	24" Pipe Wrench	(1)			
56	Porta Band Saw	(1)			
57	5/8" Shackles	(2)			
58	3/4" Shackles	(1)			
59	36" Pipe Wrench	(1)			
60	Nose Bag	(1)			
*61	Flashlight: Record Battery expiration date: _____	(2)			
62	Never-Seize	(1)			
63	RTV #106 or equivalent	(1)			

\* Record Battery expiration date: \_\_\_\_\_ **Replace batteries before the expiration date.**  
 NOTE: Battery expiration date is labeled on the battery. If batteries do not have an expiration date then replace during the annual inspection.

Performed by (Print/Initial/Date) \_\_\_\_\_ Supervisor Approval (Print/Initial/Date)\*\* \_\_\_\_\_ E. P. Review (Print/Initial/Date) \_\_\_\_\_

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 16A, DAMAGE CONTROL TOOL BOX INVENTORY (MECHANICAL) (Continued)

Location: U1 Screenhouse

QUARTERLY:	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one)	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.	
Indicate IR # if seal not intact      IR _____	
Date completed: _____ _____	
Completed by: (Print Name) _____	
Completed by: (Signature) _____	

\* Record Battery expiration date: \_\_\_\_\_ **Replace batteries before the expiration date.**  
 NOTE: Battery expiration date is labeled on the battery. If batteries do not have an expiration date then replace during the annual inspection.

\_\_\_\_\_  
 Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
 Emergency Preparedness review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 16B, DAMAGE CONTROL TOOL BOX INVENTORY (I&C)

Location: U1 Screenhouse

ANNUAL INVENTORY					
Record Seal Number _____					
	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (if Unsat)
<b>INSTRUMENTATION AND CONTROL LISTING</b>					
1	Hand Tool Box	(2)			
2	Current Source/Test Set	(1)			
3	Air Regulators (0-30 psig,0-100 psig,0-300 psig)	(3)			
4	Meter Test Lead Set	(1)			
5	Soldering Gun	(1)			
6	Tubing Cutter	(1)			
7	Tubing Cutter-Spare Wheel	(1)			
8	1/4" Tubing Bender	(1)			
9	Pipe Wrench 6"	(1)			
10	Pipe Wrench 10"	(1)			
11	Open/Box End Wrench Set #K-25	(1)			
12	Nut/Screw Driver Roll Set	(1)			
13	Adjustable Wrench 4"	(1)			
14	Adjustable Wrench 6"	(1)			
15	Adjustable Wrench 8"	(2)			
16	Adjustable Wrench 10"	(1)			
17	Vise Grip Pliers 7"	(1)			IR _____
18	Channel Loc Pliers 7"	(1)			_____
19	Channel Loc Pliers 10"	(1)			
20	Wire Stripper/Crimper	(1)			
21	Needle Nose-Straight. 5 1/2"	(1)			
22	Needle Nose-Straight. 6"	(1)			
23	Needle Nose-Offset 5 1/2"	(1)			
24	Needle Nose-Offset 6"	(1)			
25	Diag. Cutter - 4"	(2)			
26	Diag. Cutter - 5"	(1)			
27	Pliers /Cutter Combination	(1)			
28	Holding Tweezers	(1)			
29	Allen Key Set	(1)			
30	Hex Socket Driver Set	(1)			
31	Socket Set - 1/4" Drive	(1)			
32	Screwdriver-Standard 6"	(1)			
33	Screwdriver-Standard 4"	(1)			
34	Screwdriver-Phillips 6"	(1)			
35	Screwdriver-Phillips 4"	(1)			
36	Screwdriver-Phillips 3"	(1)			

## Attachment 16B, DAMAGE CONTROL TOOL BOX INVENTORY (I&amp;C) (Continued)

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Action
37	Screwdriver-Pocket 2"	(1)			
38	Screwdriver-Holding 3"	(1)			
39	Screwdriver-Holding 4"	(1)			
40	Screwdriver-Holding 6"	(1)			
41	Screwdriver-Holding Combo	(1)			
42	Pocket Rule 6"	(1)			
43	Examination Mirror	(1)			
44	Gauge Pointer Puller	(1)			
45	Alignment Tool(non-conductive screw driver)	(1)			
** 46	Electronic Grade Silicone Rubber, 1 Tube, Expiration Date: _____	(1)			
47	"Snoop" Leak Detector	(1)			
48	Black Electrical Tape	(1)			
49	8" Tie-Wraps with Label	(5)			
50	¼" Copper Tubing	(50')			
51	¼" Tygon Tubing	(50')			
52	Disposable Surgeons Gloves	(2)			
53	White Maslin Wipes	(2)			
54	Surface Prep Cleaner	(1)			
55	¼" Whitey Valve SS-IVS4	(1)			
56	¼" Whitey Valve B-IVS4	(1)			
57	Pens, Pencil & Paper Pad				
<b>Miscellaneous Fittings:</b>					
58	Nuts (1/4" Swagelok)	(20)			
	Inner Ferrules (1/4" Swagelok)	(20)			
	Outer Ferrules (1/4" Swagelok)	(20)			
	¼" NPT Male x ¼"Swagelok Union	(12)			
	¼" NPT Male x 3/8"Swagelok Union	(3)			
	¼" NPT Male x ½"Swagelok Union	(3)			
	¼" Swagelok Tee's	(3)			
	1/8" NPT Female x ¼"Swagelok Elbow	(1)			
	1/8" NPT Female x ¼"Swagelok Union	(1)			
** 59	Nitrogen Tank with Cart Hydro Test Date: _____	(1)			

**Attachment 16B, DAMAGE CONTROL TOOL BOX INVENTORY (I&C) (Continued)**

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (if Unsat)
Nitrogen Tank Accessories ( <i>in tool box</i> )					
60	Thread Sealant Expiration Date: _____ *	(1)	<input type="checkbox"/>	<input type="checkbox"/>	IR _____ _____
	Regulator: Victor #43781	(1)	<input type="checkbox"/>	<input type="checkbox"/>	
	Tubing	(1)	<input type="checkbox"/>	<input type="checkbox"/>	
	Adapter Fittings	(1)	<input type="checkbox"/>	<input type="checkbox"/>	
	Instructions	(1)	<input type="checkbox"/>	<input type="checkbox"/>	
61	Thermometer 50°F – 250°F	(1)	<input type="checkbox"/>	<input type="checkbox"/>	
62	Safety Glasses	(1)	<input type="checkbox"/>	<input type="checkbox"/>	
63	Test Equipment Power Cord	(1)	<input type="checkbox"/>	<input type="checkbox"/>	
64	GFI	(1)	<input type="checkbox"/>	<input type="checkbox"/>	

\*If this item will expire before the next inventory, then order or obtain replacements.

\*\* Hydrostatic Testing required at least every 5 years.

The following items are included as stock items in the M & TE storeroom:

- Digital DVM
- Test Gauge 0-30 psig 0.1 subdivision,
- Test gauge 0-100 psig 0.1 subdivision
- Digital Pressure calibrator or equivalent
- Fluke Temperature probe.

Performed by (Print/Initial/Date) \_\_\_\_\_ Supervisor Approval (Print/Initial/Date)\*\* \_\_\_\_\_ E. P. Review (Print/Initial/Date) \_\_\_\_\_

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 16B, DAMAGE CONTROL TOOL BOX INVENTORY (I&C) (Continued)

Location: U1 Screenhouse

<b>QUARTERLY:</b>	
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one)	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)
<p>My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.</p> <p>Indicate IR # if seal not intact      IR _____</p> <p>Date completed: _____</p> <p>_____</p> <p>Completed by: (Print Name)</p> <p>_____</p> <p>Completed by: (Signature)</p>	

\_\_\_\_\_  
Supervisor approval (Print/Initial/Date)\*\*

\_\_\_\_\_  
Emergency Preparedness review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**



Attachment 17, ELECTRIC DAMAGE REPAIR EQUIPMENT INVENTORY

Location: Unit 1 Storeroom

<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Year: _____		<input type="checkbox"/> Post Drill/Exercise/Event: Date: _____ (circle appropriate)			<input type="checkbox"/> Other	
	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (if Unsat)	
<b>UNSEALED INVENTORY ONLY - Every Quarter VERIFY</b>						
1	Triplex 4/0 Cu 5 KV Insulated Cable with 1/0 Cu. 5KV Insulated Ground Reel Stands Large Arbor	(500')  (2) (1)			IR _____  _____	
2	Triplex #2 AWG Cu, 600V Insulated Cable	(1000')				
3	1 Conductor #4/0	(600')				
4	1 Conductor #2 AWG	(600')				
5	Breaker Elevator Hand Crank (GE for Magna -Blast Circuit Breaker)	(1)				
6	Bus Grounding Cables (Material for 3 sets)	(3 sets)				
7	Portable Compressed Air Cylinders	(4)				
8	Cable Quad #4 and #6	(1)				
9	Safety Switch, 600 Volt/200 Amp	(1)				
10	Portable 60 KW Generator (Sym # 97-11-705) (Pipe Fab shop lean-to, north of U2 Engineering Building)	(1)				
11	575v/480v Transformer (Sym # 93-14-022)	(1)				
<b>SEALED INVENTORY (Tool Box) – Quarterly</b>						
My signature indicates that I have personally verified that the cabinet/inventory is sealed and the seal is intact or IR has been generated.						
Indicate IR # if seal not intact      IR _____						
Date completed: _____						
_____ Completed by: (Print Name)			_____ Completed by: (Signature)			

Supervisor approval (print/initial/date)\*\*

Emergency Preparedness review (print/initial/date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 16, ELECTRIC DAMAGE REPAIR EQUIPMENT INVENTORY

Annually Verify items 1-40 below					IR #
	Item/Equipment	Min. Qty	Sat	Unsat	
1	1 Conductor #10 SIS Wire	(20')			IR _____ _____
2	1 Conductor #12 SIS Wire	(20')			
3	Friction Tape	(12)			
4	T35 Tape	(12)			
5	T95 Tape	(12)			
6	3M 88 Tape	(12)			
7	Kellems Cable Support Grips Model No. RR250-HE or equivalent	(2)			IR _____ _____
8	Kellems Cable Support Grips Model No. RR150-HE or equivalent	(2)			
9	Burndy Hyline No. YS28, #4/0 Splices or equivalent	(8)			
10	Burndy Hyline No. YS2C, #2 Splices or equivalent	(2)			
11	Burndy Hylink No. YSM27, Parallel Splices or equivalent	(1)			
12	Burndy Hylink No. YSM25, Parallel Splices or equivalent	(1)			
13	Burndy Hylug No. YA28-2N 4/0 Terminal or equivalent	(3)			
14	Burndy Hylug No. YA25-2N 1/0 Terminal or equivalent	(1)			
15	Burndy Hylug No. YA2C-2N #2 Terminal or equivalent	(8)			
16	Burndy Reducing Adaptor No. Y2825R or equivalent (4/0 to 1/0)	(2)			
17	Burndy Reducing Adaptor No. Y2826R or equivalent (4/0 to 2/0)	(2)			
18	Burndy Hylug Ring – Tongue Terminals – No. YAV10-T3 or equivalent	(4)			
19	(2) Fuse 6 Amp (for Powerboard 171 Control Circuit)	(2)			
20	(2) Fuse 10 Amp	(2)			
21	Silicon Bronze 1/2" x 1-1/2" Hex Head Bolt	(20)			
22	Silicon Bronze 1/2" Hex Nut	(20)			
23	Silicon Bronze 1/2" Flat Washer	(40)			
24	Silicon Bronze 1/2" Lock Washer	(20)			
<b>Spare Fuses</b>					IR _____ _____
25	6 Amp	(2)			
	10 Amp	(2)			
26	Burndy Hytool Crimping tool MY28 or equivalent	(1)			
27	Burndy Crimping Tool MY29-3 or equivalent	(1)			
28	Hacksaw and 20 extra blades	(1)			
29	5/8" Ratchet Wrench (for Breaker Closing Spring Charging)	(1)			
30	Wrenches and Screwdrivers to Cable and Wire Disconnection	(2 sets)			
31	Cable Cutting and Splicing Tools	(2 sets)			
32	Insulated Fuse Pullers	(2)			
33	Fire Retardant Putty	(1)			
34	#12 AWG Ring-Tongue Terminals	(4)			
35	1/2 x 3/4 NPT Bushing	(1)			
36	3/4 NPT Street E11	(1)			
37	Air Regulator Assembly	(1)			
38	High Pressure Air Hose with Swivel Fitting	(10')			
39	Cable Lugs #4 and #6	(1)			
40	Switch, 1 ND, 1 NC, SPDT	(2)			

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

EP Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 18, UNIT 1 PLANT EQUIPMENT STATUS BOARD (SAMPLE)**

TIME:		STATE:			
PRESSURE RELIEF VALVES (ERV)		OPEN	CLOSED	INOP	
(111)	108A				
(112)	108B				
(121)	108C				
(122)	108D				
(113)	108E				
(131)	108F				
SYSTEMS		OPERATING	ISOLATED	STANDBY	INOP
REACTOR RECIRC PUMPS	11				
	12				
	13				
	14				
	15				
ADS					
EMERGENCY COOLING	LOOP 11				
	LOOP 12				
LIQUID POISON SYSTEM	11				
	12				
CRD PUMP	11				
	12				
FEEDWATER PUMP	11				
	12				
	13				
CONDENSATE BOOSTER PUMP	11				
	12				
	13				
CONDENSATE PUMP	11				
	12				
	13				
CORE SPRAY	111				
	112				
	121				
	122				
EMERGENCY VENTILATION SYSTEM	LOOP 11				
	LOOP 12				
REACTOR WATER CLEANUP SYSTEM	11				
	12				
	AUX				
DRYWELL INTEGRITY					
PRIMARY CONT. INTEGRITY INTACT (DRYWELL)		YES	NO		
SECONDARY CONT. INTEGRITY INTACT (RX BLDG)		YES	NO		
CONTAINMENT SPRAY	Loop	OPERATING		STANDBY	INOP
		SPRAY MODE	TORUS COOLING		
		111			
		112			
		121			
122					

Attachment 18, UNIT 1 PLANT EQUIPMENT STATUS BOARD (SAMPLE) (Continued)

SHUTDOWN COOLING		Loop	OPERATING	STANDBY	INOP
		11			
		12			
		13			
POWER AVAILABILITY					
OFFSITE:		AVAILABLE	NOT AVAILABLE	INOP	
115KV	101 NORTH / LINE 1				
	101 SOUTH / LINE 4				
ONSITE		OPERATING	STANDBY	INOP	
DIESEL GENERATOR	102				
	103				
BATTERY BOARD	11				
	12				

INDICATE STATUS WITH AN "X" OR CROSS OUT CONDITION THAT DOES NOT APPLY.

Attachment 19, UNIT 2 PLANT EQUIPMENT STATUS BOARD (SAMPLE)

MAJOR PARAMETERS				TREND		MISC. SYSTEM/COMPONENT STATUS			
Rx Pressure		psig				<b>INBOARD MSIV STATUS</b>			
Rx Level		Inches				6A	6B	6C	6D
RX S/D		Y/N				OPEN	OPEN	OPEN	OPEN
APRM		%				CLOSED	CLOSED	CLOSED	CLOSED
GEN OUT		Mwe				<b>OUTBOARD MSIV STATUS</b>			
Core Power		MWth				7A	7B	7C	7D
DW Temp		F				OPEN	OPEN	OPEN	OPEN
DW Press		psig				CLOSED	CLOSED	CLOSED	CLOSED
Sup Pool Air Temp		F				<b>REACTOR WATER SYSTEM</b>			
Air Press		psig				<b>RWCU A</b>			
Water Temp		F				ON	STBY	INOP	
Water Level		ft				<b>RWCU B</b>			
						ON	STBY	INOP	
<b>SAFEGUARDS STATUS</b>						<b>SYS STATUS</b>			
SLC TANK LEVEL		gal				ISOLATED	NOT ISOLATED		
SLC FLOW RATE		gpm				<b>ADS</b>			
						AUTO	INHIBIT	ACTUATED	
GTS SYSTEM			ON	STBY	INOP	<b>RHR SYSTEM STATUS</b>			
						A	B	C	
						LPCI			
						Containment Spray			
						Shutdown Cooling			
						Steam Condensing			
						Suppression Pool Cool			
						Suppression Pool Spray			
Primary Containment Integrity (Drywell)		YES	NO			<i>Indicate status with an X</i>			
Second. Cont. Integrity (Rx Bldg)		YES	NO			<b>DRWELL</b>			
						<b>TREND</b>			
						HYDROGEN			
						OXYGEN			
						<b>POWER SOURCES AVAILABLE</b>			
						115 KV Line 5			
						115 KV Line 6			
						DIV 1 DG			
						DIV 2 DG			
						DIV 3 DG			
						DIV 1 4 KV SWGR			
						DIV 2 4 KV SWGR			
						DIV 3 4 KV SWGR			
						DIV 1 DC BUS			
						DIV 2 DC BUS			
						DIV 3 DC BUS			
						Normal Station			
						Battery			
						A	B	C	
						AVAIL	AVAIL	AVAIL	
						NOT AVAIL	NOT AVAIL	NOT AVAIL	

Cross out the status that does not apply. Use arrows to indicate trend where appropriate.

**Attachment 20, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE**

**1.0 GENERAL GUIDELINES**

NOTE: Attachment 25 provides guidance for completing Attachments 25A through 25G.

- 1.1 Determine the required testing using the matrix in Section 2.0.
- 1.2 Perform the testing of each communications system per the associated attachment.
- 1.3 The surveillance is considered successful if all "Sat" boxes are checked.
- 1.4 Initiate corrective actions on all "Unsat" entries per Step 3.0.
  - B. Record details of failure and initiated corrective actions in appropriate "Remarks" section.
  - C. After repair/correction, perform surveillance (only with agency that was "Unsat") and record on new attachment.

**2.0 REQUIRED TESTING FREQUENCY**

	RECS	Commercial Telephone	ENS Telephone	Dedicated Line	Radio (Console)	Radio (Portable)
Unit 1 Control Room	M	M	M	A	A	
Unit 2 Control Room	M	M	M	A	A	
EOF	M	*M	*M	A	A	A
OSC					A	A
TSC		M	M	A	A	
JIC		M		A	A	
Oswego County EOC					A	

M = Monthly      A = Annually

\*PERFORMED BY JAF

**Attachment 20, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE  
(Continued)**

**3.0 REPORTING PROBLEMS**

**3.1 Radiological Emergency Communication System (RECS) Failure**

- A. Call Verizon at 1-315-890-8806 and report the problem, requesting immediate response.

Reference the applicable circuit number as follows:

Syracuse/Oswego phones:	36LCGS606351
Albany phones:	34LCGS606365
Syracuse to Albany circuit:	59685986

- B. Report failure to NYS Warning Point at 1-518-292-2200

**3.2 Radio Failures**

Contact the NMP Maintenance I&C on call supervisor.

**3.3 Commercial Telephone and Dedicated Lines**

Complete a "Telephone Request Form" and fax to Facilities per the instructions on the form.

**NOTE:** With a Dedicated Line, use the "Circuit Number" in place at the "Extension" number on the "Telephone Request Form."

**3.4 ENS Telephones**

Immediately report any "Unsat" results as follows:

Failure Location	Report to:
Control Room, Unit 1	Unit 1 SM
Control Room, Unit 2	Unit 2 SM
Both TSC ENS Phones	Unit 1 SM

Report failure to NRC Operations Center at one of the following numbers.

- (301) 816-5100
- (301) 951-0550

IF requested by the NRC Operations Center, call MCI Worldcom, (888) 387-7821, for assistance.

**Attachment 20A, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE****RADIOLOGICAL EMERGENCY COMMUNICATIONS SYSTEM (RECS) TESTING (MONTHLY)****1.0 PROCEDURE****NOTES**

- RECS calls are only initiated from the Unit 1/Unit 2 Control Rooms for performing this attachment testing.
- Unless the RECS line at the EOF is currently staffed, it may be necessary to call the EOF to request assistance in the testing. Numbers that may be called to obtain assistance are: 592-0652, 592-0658, 592-0660, 592-0655

- 1.1 Pick up the handset and dial A\*.

**NOTE**

DEPRESS PUSH TO TALK SWITCH IN THE HANDSET TO TALK.

- 1.2 After about 10 seconds state the following:

"This is a test. This is a test of the RECS line from the (*state location*), please stand by for roll call."

- 1.3 State each agency's name as they appear on the RECS Testing Sheet. As each agency responds, check "Sat" or "Unsat."

**NOTE**

- "Sat" = agency responded without comment
- "Unsat" = anything beside "Sat" response

- 1.4 For any agency not answering roll call, use the contact telephone number to contact someone and inform them of RECS test, then repeat Step 1.3.

- 1.5 When roll call is completed, state:

"This concludes the test of the RECS line from the (*state location*)."

- 1.6 Should an agency fail to answer, contact them by telephone, and if necessary, repeat Steps 1.1 through 1.3 for the problem agency only.

- 1.7 Any unsat results should be reported to the SRO in charge of the Control Room for implementing actions per CNG-EP-1.01-1015, NMP State and Local Notifications.

- 1.8 Initiate a CR for any unsat results.



Attachment 20A, RECS TESTING SHEET. (Continued)

Month \_\_\_\_\_ Year \_\_\_\_\_

Agency	Contact Telephone #	Tested From		Remarks  Initiate CR for any unsat result.)
		Unit 1 CR	Unit 2 CR	
Nine Mile Point Unit 1 CR	349-5201	N/A	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	IR _____ _____
Nine Mile Point Unit 2 CR	349-5202	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	N/A	
Fitzpatrick CR	349-6666	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	
Oswego County 911 Center	343-1313	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	
Oswego County EOC	591-9150	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	
NYS Warning Point	(518) 292-2200	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	
EOF	592-0671	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 20B, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE  
COMMERCIAL TELEPHONE TESTING (MONTHLY)**

**1.0 PROCEDURE**

- 1.1 For each "Location" listed, test the telephone by placing and receiving a call to any other telephone.
- 1.2 Check to "Sat" or "Unsat" box on the "Commercial Telephone Testing Sheet."

**NOTE**

- "Sat" = agency responded without comment
- "Unsat" = anything beside "Sat" response

Month \_\_\_\_\_ Year \_\_\_\_\_

Location	Telephone #	Results	Remarks
EOF Comm Area	592-0671	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	
TSC Comm Rm	349-2487	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	
Offsite Assembly Area	592-0125 no test required <sup>1</sup>	-----	-----
Unit 1 Control Room	no test required <sup>1</sup>	-----	-----
Unit 2 Control Room	no test required <sup>1</sup>	-----	-----
Joint Information Center	592-3720 (in Rumor Control)	<input type="checkbox"/> Sat <input type="checkbox"/> Unsat	

<sup>1</sup>No test is required from the Control Rooms or Offsite Assembly Area since their telephones are used regularly.

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 20C, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE**

**EMERGENCY NOTIFICATION SYSTEM (ENS) TESTING (MONTHLY)**

1.0 PROCEDURE

1.1 For Control Rooms

- A. Call the Control Room and ask for the time of the daily plant operations status call from the NRC Operations Center to the Control Room from the SM.
- B. Record "Sat" or "Unsat" on the ENS Testing Sheet (next page).

**NOTE**

- "Sat" = agency responded without comment
- "Unsat" = anything beside "Sat" response

1.2 For TSC

**NOTE**

For testing purposes, all "700" phone numbers listed are considered Emergency Notification System (ENS) lines.

- A. Notify each unit Control Room and inform them of the testing.
- B. Verify the operability at each ENS phone listed on the ENS Testing Sheet by placing and receiving a call from any other ENS phone.
- C. Record "Sat" or "Unsat" on the ENS Testing Sheet.
- D. Notify each Control Room that testing is complete. As necessary notify the U1 Shift Manager of any Unsat TSC ENS phone line per Step 3.4 of this procedure.

**Attachment 20C, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE (Continued)**  
**ENS TELEPHONE TESTING SHEET**

Month \_\_\_\_\_ Year \_\_\_\_\_

**CONTROL ROOM UNIT 1**

Daily Operations Status Call: Date \_\_\_\_\_ Time (24 Hour) \_\_\_\_\_  Sat  Unsat

**CONTROL ROOM UNIT 2**

Daily Operations Status Call: Date \_\_\_\_\_ Time (24 Hour) \_\_\_\_\_  Sat  Unsat

**TSC**

Phone	Phone No.	Location	Sat	Unsat	Corrective Actions (if unsat)
ENS	700-371-5324	NRC Room			IR _____
ENS	700-371-5324	Tech Assessment Room			IR _____
HPN	700-371-5329	NRC Room			IR _____
HPN	700-371-5329	RAM Desk			IR _____
PMCL	700-371-5326	NRC Core			IR _____
RSCL	700-371-5327	NRC Core			IR _____
MCL	700-371-5323	NRC Room			IR _____

**NOTE:** For ENS lines at the EOF, testing is completed by JAF.

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 20D, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE**

**DEDICATED TELEPHONE TESTING (ANNUALLY)**

1.0 PROCEDURE

- 1.1 The dedicated line will automatically ring or flash the other end when the handset is lifted.
- 1.2 Verify that someone is available at the other end to test.
- 1.3 Verify proper operation by initiating, receiving, and transmitting from each end of each line listed on the "Dedicated Telephone Testing Sheet."
- 1.4 As each line is tested, mark "Sat" or "Unsat" on the Testing Sheet.
- 1.5 Tech Info Line – call and verify conference call capability.

**NOTE**

- "Sat" = agency responded without comment
- "Unsat" = anything beside "Sat" response

Year: \_\_\_\_\_

Location	Phone Line	Sat	Unsat	CORRECTIVE ACTIONS IF UNSAT
Unit 1 Control Room	E.D. Hotline 36 LCGL 199800			IR _____ _____
	Tech Info Line (conference line)			
Unit 2 Control Room	E.D. Hotline 36 LCGL 199800			
	Tech Info Line (conference line)			
EOF	E.D. Hotline 36 LCGL 199800			
	Tech Info Line (conference line)			
TSC	E.D. Hotline 36 CGL 199800			
	Chemistry Coord. Phone			
	Tech Info Line (conference line)			
JIC	Tech Info Line (conference line)			
OSC	E.D. Hotline 36 CGL 199800			
	RPTC phone			
	OSC Damage Ctrl Coord. Phone			

Performed by (Print/Initial/Date) \_\_\_\_\_

Supervisor Approval (Print/Initial/Date)\*\* \_\_\_\_\_

E. P. Review (Print/Initial/Date) \_\_\_\_\_

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 20E, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE**  
**RADIO CONSOLE TESTING (ANNUALLY)**

## 1.0 PROCEDURE

1.1 When testing from the TSC, Unit 1 or Unit 2 Control Room: (testing must include each console and each channel listed on Page 2 of 2)

- A. Turn the volume knob on the Select Audio speaker to the twelve o'clock position.
- B. Depress the "Volume" button on the "Rad/Teams" module until the light next to "full" is lit.
- C. Utilizing a person equipped with an EP portable radio, verify the selected channel, and depress the "Transmit" button and give a short test message to the portable radio.
- D. Repeat Steps a through c for all required channels as per the Radio Console Testing Sheet.
- E. Record "Sat" or "Unsat" on the Testing Sheet.

**NOTE**

- "Sat" = agency responded without comment
- "Unsat" = anything beside "Sat" response

1.2 Testing from the EOF

- A. Turn the volume knob to the twelve o'clock position.
- B. Select channel to be tested using the up-arrow or down-arrow buttons until the desired channel number is displayed.
  - 1) Utilizing a person equipped with an E.P. Portable Radio, on the same channel, depress the "transmit" bar on the microphone and give a short test message to the portable radio.
  - 2) Repeat steps a through c for all required channels, as per the Radio Console Testing Sheet.
  - 3) Record "SAT" or "UNSAT" on the Testing Sheet using the criteria in 1.1.e.

1.3 Testing from the OSC, County EOC, JIC

- A. Utilizing a person equipped with an EP portable radio, verify the selected channel, and depress the "Transmit" button and give a short test message to the portable radio.
- B. Repeat Steps a through c for all required channels as per the Radio Console Testing Sheet.
- C. Record "Sat" or "Unsat" on the Testing Sheet

Attachment 20E, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE (Continued)

RADIO CONSOLE TESTING SHEET

Year \_\_\_\_\_

TESTED FROM	CHANNEL						
Unit 1 Control Room (one console only)	Admin <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	Rad Teams (CH #13) <input type="checkbox"/> Sat <input type="checkbox"/> Unsat					
Unit 2 Control Room (one console only)	Admin <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	Rad Teams (CH #13) <input type="checkbox"/> Sat <input type="checkbox"/> Unsat					
EOF (Rad Assmt Rm)	Admin <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	Rad Teams (CH #13) <input type="checkbox"/> Sat <input type="checkbox"/> Unsat					
TSC (Comm. Rm)	Admin <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	U1 Fire <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	U2 RP <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	U2 Maint <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	U2 Fire <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	U1 Maint <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	
OSC		U1 Fire <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	U1 RP <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	U1 Maint/I&C <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	U2 Fire <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	U2 RP <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	U2 Maint/I&C <input type="checkbox"/> Sat <input type="checkbox"/> Unsat
JIC	Admin <input type="checkbox"/> Sat <input type="checkbox"/> Unsat	Rad Teams (CH #13) <input type="checkbox"/> Sat <input type="checkbox"/> Unsat					

Remarks: \_\_\_\_\_

Indicate IR for Unsat items      IR \_\_\_\_\_

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 20F, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE**  
PORTABLE RADIO TESTING (ANNUALLY)

**1.0 PROCEDURE**

- 1.1 Portable radios are tested by calling another radio and having another radio call back.
- 1.2 Turn on the radios to be tested and select any available onsite channel.
- 1.3 Transmit a short test message. Verify transmission on another radio.
- 1.4 On the other radio, transmit a short test message. Verify reception on the other radio.
- 1.5 Check "Sat" or "Unsat" on the Portable Radio Testing Sheet.

**NOTE**

- "Sat" = agency responded without comment
- "Unsat" = anything beside "Sat" response

Year: \_\_\_\_\_

	ITEM	Indicate Radio Number (if applicable)	SAT	UNSAT	Corrective Actions (if unsat)
1	OSC Core (12)	HT-#			
		HT-#			
		HT-#			
		HT-#			
		HT-#			
		Add'l radios (6)			
2	OSC Storeroom (12)				IR _____ _____
	• Habitability	HT-#			
	• PAS Sample	HT-#			
	• PAS Analysis	HT-#			
	• Downwind B	HT-#			
	• Downwind C	HT-#			
	• Inplant 1	HT-#			
	• Inplant 2	HT-#			
	• Inplant 3	HT-#			
	• Inplant 4	HT-#			
• Inplant 5	HT-#				
• OSC Spares	HT-#				
		HT-#			
3	RP Fire Response				
	Unit 1 (TB 248')	HT-#			
	Unit 2 (RB ACB)	HT-#			



Attachment 20F, EMERGENCY FACILITY COMMUNICATIONS SURVEILLANCE (Continued)

	ITEM	Indicate Radio Number (if applicable)	SAT	UNSAT	Corrective Actions (if unsat)
4	Offsite Assembly Area Facility (OAA)				IR _____ _____
	Offsite	HT-#			
	Offsite	HT-#			
	Offsite	HT-#			
5	Emergency Operation Facility (EOF)				
	Offsite	HT-#			
	Offsite	HT-#			
	Offsite	HT-#			
6	Joint Information Center(JIC-Security)	HT-#			
7	Vehicles				
	• Chemistry #2-1883				
	• Maint Lockshop #3-1113				
	• RP #5-484				
	• U2 M&TE #2-1792				
	• BM & G #2-1802				
	• BM & G #2-1893				
	• EP #6-1004				
	• EP #6-1005				
	• EP #6-1006				
• EP #3-1					
8	EA Engineering	HT-#			
9	Control Room Emer. Comm. Equip. Kits				
	• Unit 1	HT-#			
	• Unit 2	HT-#			
10	Offsite Fire Department radios (12) (Unit 2 Security)				
11	B.5.b Radios (6) Unit 2 Security (1 <sup>st</sup> Floor-B.5.b storage area)				

Comments:

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 20G, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE  
PORTABLE RADIO BATTERY EXCHANGE (QUARTERLY)**

**NOTE**

One week before this test, request replacement batteries from the Radio Shop in sufficient quantities to accommodate all HTs listed in Attachment 25F.

- 1.0 PROCEDURE
- 1.1 Remove the battery attached to the portable radio.
- 1.2 Obtain an acceptable replacement battery.
- 1.3 Attach the replacement battery to the portable radio.
- 1.4 Replace portable radio in charger.
- 1.5 When all batteries are replaced complete "Portable Radio Battery Exchange Sheet"

Portable radio battery exchange completed for the \_\_\_\_\_ quarter of \_\_\_\_\_ (year)

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 20H, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE SATELLITE PHONE CHECK (QUARTERLY)**

**A. PROCEDURE**

1. Perform a test of the satellite phones using the instructions below.
2. For fixed satellite phones (desk phone), test will include calling both **from** the designated satellite phones as well as calling **to** the designated satellite phones.
3. For portable satellite phones, test will be to place a call **from** the portable satellite phone.
4. For portable satellite phones also swap the battery on the phone for a battery in the charger and verify the charger is operating correctly.
5. Record results in applicable table.

**B. CALLING FROM A FIXED SATELLITE PHONE**

1. Pick up the receiver on one of the brown telephone sets, marked "Satellite phone."
2. You should immediately hear a dial tone.
  - a. If no dial tone is heard, or a busy signal is heard, hang up the phone for 60 seconds and pick up the receiver again.
  - b. If you are still unable to hear a dial tone after 60-seconds hang-up, contact the IT Support Center at 315-349-4300 from another phone and report the number of the non-working satellite phone.
3. To make a call:
  - a. If calling a number within the U.S. (cellular or land line), dial 0-0-1, followed by the full 10-digit telephone number, that is 0-0-1-315-349-5201.
  - b. If calling another satellite phone, dial 0-0, followed by the 12-digit satellite phone number, that is, 0-0-8816-5145-9879. A list of other NMP satellite phone numbers is provided below.
  - c. Once the number has been dialed, you will hear a series of tones for approximately 30 seconds before the other phone begins to ring.
4. If you do not hear any tones or ringing after 45 seconds, hang up the phone for 60 seconds and return to step 1.
  - a. Once the other phone begins to ring, proceed as during a normal telephone call.

Attachment 20H, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE  
SATELLITE PHONE CHECK (QUARTERLY) (CONTINUED)

**C. CALLING TO A FIXED SATELLITE PHONE**

1. To call any NMP satellite phone from a company 349-xxxx number, dial 8-0-1-1, followed by the 12-digit satellite number, that is, 8-0-1-1-8816-5145-9879.
2. To call any NMP satellite phone from an offsite telephone or cellular phone, dial 0-1-1, followed by the 12-digit satellite number, that is, 0-1-1-8816-5145-9879.
3. In either case, there will be approximately a 30-second delay after dialing the number before the satellite phone begins to ring.

**D. REPLACING BATTERIES IN PORTABLE SATELLITE PHONES**

1. **PRIOR** to placing a call from the portable satellite phone, replace the battery on the phone with one available from the charger in the facility.
2. Place the battery taken from the phone onto the battery charger; observe the charger for proper operation.

**E. CALLING FROM A PORTABLE SATELLITE PHONE**

1. To make a call from a portable satellite phone:
  - a. Take the phone to an outside location.
  - b. Follow the directions included with the phone for placing a call.

Attachment 20H, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE  
 SATELLITE PHONE CHECK (QUARTERLY) (CONTINUED)

Location	Fixed Satellite Phone Line	Sat (Incoming/Outgoing)	Unsat (Incoming/Outgoing)	Corrective Action if unsat
U1 Control Room	8816 5145 9879			IR _____ _____
	8816 5145 9878			
	8816 4146 5811			
	8816 5145 9874			
	8816 5145 9876			
U2 Control Room	8816 2241 5442			
	8816 5145 9877			
	8816 5145 9873			
	8816 5145 9883			
	8816 4148 7617			
TSC	8816 5145 9875			
	8816 5145 9881			
	8816 2241 5441			
	8816 2241 5443			
	8816- 5145 9880			

Attachment 20H, EMERGENCY RESPONSE FACILITY COMMUNICATIONS SURVEILLANCE  
SATELLITE PHONE CHECK (QUARTERLY) (CONTINUED)

Location	Portable Satellite Phone Line	Battery Replaced	Call Sat	Call Unsat	Corrective Action if unsat
TSC	8816 2244 3950	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IR _____ _____
	8816 2244 3951	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	8816 2244 3952	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	8816 2244 3953	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Battery Charger Operation (4)	N/A	<input type="checkbox"/>	<input type="checkbox"/>	
EOF	8816 2244 3954	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Battery Charger Operation (1)	N/A	<input type="checkbox"/>	<input type="checkbox"/>	

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 21A, RESPIRATORY EQUIPMENT MONTHLY INVENTORY

<b>UNIT 1</b>	
Month: _____ Year: _____	<input type="checkbox"/> Post Drill/Exercise/Event: Date: _____ (circle appropriate) <input type="checkbox"/> Other

[N0321]

Use	On-site Location	Min. No. Resp.	Min. No. Canister	Canister Manufacture Date(1)	Canister Expiration Date	Sat (2)	Unsat
RP Supplies & Equip.	U1 Storeroom	40	80				
		+3 XL					
		+3 SM					

- NOTE:**
1. Combination cartridges good for 3 years from date of manufacture when in original bag
  2. If quantity in inventory is greater than or equal to minimum, indicate inventory is Sat. DO NOT record actual number available.

Provide IR # for resolution for unsat items and any other details:

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Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 21A, RESPIRATORY EQUIPMENT MONTHLY INVENTORY (Continued)

<b>UNIT 2</b>	
Month: _____ Year: _____	<input type="checkbox"/> Post Drill/Exercise/Event: Date: _____ (circle appropriate) <input type="checkbox"/> Other

[N0321]

Use	On-site Location	Min. No. Resp. (2)	Min. No. Canister (2)	Canister Manufacture Date (1)	Canister Expiration Date	Sat	Unsat
Control Room	U2 Control Bldg, 306'	10	20				

- NOTE:**
1. Combination cartridges good for 3 years from date of manufacture when in original bag.
  2. If quantity in inventory is greater than or equal to minimum, indicate inventory is sat. DO NOT record actual number available.

Provide IR # for resolution for Unsat items and any other details:

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Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**



Attachment 21B, RESPIRATORY EQUIPMENT MONTHLY INVENTORY

EOF		
<input type="checkbox"/> Month: _____ <input type="checkbox"/> Year: _____	<input type="checkbox"/> Post Drill/Exercise/Event: Date: _____ (circle appropriate)	<input type="checkbox"/> Other

	Use	Offsite Location	Min. No. Resp.	Min. No. Canister	Canister Manufacture Date	Canister Expiration Date	Sat	Unsat
1	R.P. Supplies & Equipment	EOF	10	20				

<u>Provide IR # for resolution for Unsat items and any other details:</u>

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 21C, RESPIRATORY EQUIPMENT MONTHLY INSPECTION SCOTT PAK

<input type="checkbox"/> Month: _____ <input type="checkbox"/> Year: _____	<input type="checkbox"/> Post Drill/Exercise / Event: Date: _____ (circle appropriate)	<input type="checkbox"/> Other
---	---	--------------------------------

Inspection completed per S-RPIP-4.4.

#	Locations	Scott Pak's	Spare Tanks	Face Pieces	Inspection Completed by	Date
1	Unit 1 Control Room 277'	8	16	(2) Small, (3) Large, (2) XL	Name: Signature:	
2	Unit 1 Turbine Building 261'	7	7	None	Name: Signature:	
3	Unit 1 Screen House 261'	5	5	None	Name: Signature:	
4	Unit 1 Admin Building 277'	5	5	None	Name: Signature:	
5	Unit 1 Store Room 261' (Spares)	5	10	(3) Small, (4) Large, (3) XL	Name: Signature:	
6	Unit 1 SCBA Air Compressor Room (Spares)	1 (min.)	1 (min.)	None	Name: Signature:	
7	Unit 2 Control Room 306'	10	10	(2) Small, (3) Large, (2) XL	Name: Signature:	
8	Unit 2 Screenwell 261'	5	5	None	Name: Signature:	
9	Unit 2 Access Passage 261'	7	7	None	Name: Signature:	

Provide IR # for resolution for Unsat items and any other details:


Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 22, ALTERNATE POWER SUPPLIES FOR PORTABLE AIR SAMPLERS**

<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Year: _____	<input type="checkbox"/> Post Drill/Exercise/Event: Date: _____ (circle appropriate)	<input type="checkbox"/> Other
---	--	--------------------------------

	EMERGENCY VEHICLE A.C. INVERTERS	Operation		Corrective Actions (If Unsat)
	Vehicle Number	Sat	Unsat	
1.	#2-1883 ( <i>Environmental Preparedness</i> )			IR _____ _____
2.	#3-1113 ( <i>Environmental Protection</i> )			
3.	#2-1893 ( <i>BM &amp; G</i> )			
4.	#6-1004 ( <i>Emergency Preparedness</i> )			
5.	#6-1005 ( <i>Emergency Preparedness</i> )			
6.	#6-1006 ( <i>Emergency Preparedness</i> )			

**NOTE:** Perform test with vehicle operating, using an AC-High Volume Air Sampler and run for 5 minutes. Ensure heat, A/C, radios, and wipers are off before test.

DETAILS/ITEMS RESOLVED	By	Date

Performed by (Print/Initial/Date) \_\_\_\_\_ Supervisor Approval (Print/Initial/Date)\*\* \_\_\_\_\_ E. P. Review (Print/Initial/Date) \_\_\_\_\_

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 23, EMERGENCY FACILITIES DOSIMETRY LISTING**

	Item/Equipment	Min. Qty	Control	Sat	Unsat	Corrective Actions (if unsat)
<b>Rad Monitoring Equipment (OSC/TSC/Onsite/Downwind) - In Box for U-1 RP Office:</b>						
1	Whole Body (DLR)	(50)	(2)			IR _____ _____
2	Extremity (Rings)	(40 pr)	(1 pr)			
3	Dosimeters (0-1500 mR)	(20)	NA			
4	Dosimeters (0-5 R)	(20)	NA			
5	Dosimeters (0-50 R)	(5)	NA			
6	Dosimetry Issue Sheets	(2)	NA			
<b>Rad Monitoring Equipment Emergency Operations Facility - In Box for EOF (contact Environmental)</b>						
1	Whole Body (DLR)	(100)	(2)			
2	Dosimeters (0-500 mR)	(8)	NA			
3	Dosimeters (0-5 R)	(4)	NA			
4	Dosimetry Issue Sheets	(2)	NA			
<b>Ambulance &amp; Fire Kit - In Box for U-2 Security</b>						
1	Whole Body (DLR)	(50)	(2)			
2	Extremity (Rings)	(6 pr)	(1 pr)			
3	Dosimetry Issue Sheets	(2)	NA			
<b>Oswego Hospital In Box for Oswego Hospital (contact Environmental)</b>						
*1	Whole Body (DLR)	(10)	(2)			
*2	Dosimeters (0-200 mR)	(10)	NA			
*3	Dosimeters (0-500 mR)	(10)	NA			
4	Dosimeters (0-5R)	(5)	NA			
5	Dosimetry Issue Sheets	(2)	NA			

\*Should be placed in plastic bags as 10 sets. Each set contains one of each item.

As Required Inventory \_\_\_\_ ( ) N/R      Annual Inventory \_\_\_\_ ( ) N/R

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 24, EMERGENCY DOSIMETRY ISSUE SHEET

Facility Kit Location: \_\_\_\_\_

DLR Number	Date On DLR	Name	WB	EXT	SS#	Individual's Address (Street, City, State, Zip)	Issued /Returned Date/Time	Result MRem

\*DO NOT ISSUE – CONTROL DLR

\*CONTROL DLR NUMBER \_\_\_\_\_

\*CONTROL DLR NUMBER \_\_\_\_\_

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 25, PROCESS RAD MONITORING BOARD - UNIT 1

PROCESS RAD MONITORING BOARD – UNIT 1 (Sample)

Date (MM/DD/YY): \_\_\_\_\_

Time	Monitors	Trend *	Time	Monitors	Trend *
	<b>Steam Line Rad Monitor</b>			<b>CR Vent Monitor</b>	
	111 _____ mR/hr			Sys 11 _____ cpm	
	121 _____ mR/hr			Sys 12 _____ cpm	
	112 _____ mR/hr				
	122 _____ mR/hr			<b>Drywell Rad Monitor</b>	
				263' Ch 11 _____ R/hr	
	<b>E CNDSR Vent Rad Monitor</b>			301' Ch 12 _____ R/hr	
	111 _____ mR/hr				
	121 _____ mR/hr			<b>Reactor Building PING</b>	
	112 _____ mR/hr			P _____ cpm _____ µCi/cc	
	122 _____ mR/hr			I _____ cpm _____ µCi/cc	
				NG _____ cpm _____ µCi/cc	
	<b>Drywell CAM</b>				
	_____ Cpm			<b>Turbine Building PING</b>	
				P _____ cpm	
	<b>Rx Bldg. Vent Exh Rad Monitor</b>			µCi/cc	
	11 _____ mR/hr			I _____ cpm	
	12 _____ mR/hr			µCi/cc	
				NG _____ cpm	
	<b>Service Water Discharge Monitor</b>			µCi/cc	
	_____ Cpm				
				<b>Radwaste 261' PING</b>	
	<b>Radwaste Discharge Monitor</b>			P _____ cpm	
	A _____ cps			µCi/cc	
	D _____ cps			I _____ cpm	
				µCi/cc	
	<b>Stack Gas Monitor</b>			NG _____ cpm	
	112-07A _____ cpm _____ µCi/sec			µCi/cc	
	112-08A _____ cpm _____ µCi/sec				
	RN 10° _____ cps _____ µCi/sec			<b>Total Stack Flow</b>	
	RN 10B _____ cps _____ µCi/sec			_____ SCFM	
	<b>Ejector Offgas Rad Monitor</b>			<b>High Range Stack Effluent (teletector)</b>	
	Ch 1 _____ mR/hr			_____ mR/hr	
	Ch 2 _____ mR/hr				

\* Trend Symbols: ↑ = Increasing ↓ = Decreasing → = No Change

Attachment 26, PROCESS RAD MONITORING BOARD - UNIT 2

PROCESS RAD MONITORING BOARD – UNIT 2 (Sample)

Date (MM/DD/YY): \_\_\_\_\_

Time	Monitor (#/Name)/Reading	Trend *
	<b>WRGMS-TB/SGTS-Stack RE 170 Station (Manual)</b>	
	1. Particulate _____ $\mu\text{Ci}/\text{sec}$	
	2. Iodine _____ $\mu\text{Ci}/\text{sec}$	
	3. Noble Gas _____ $\mu\text{Ci}/\text{sec}$	
	Stack Flow _____ SCFM	
	<b>WRGMS-Rx/RW Bldg-Vent RE 180 Station (Manual)</b>	
	1. Particulate _____ $\mu\text{Ci}/\text{sec}$	
	2. Iodine _____ $\mu\text{Ci}/\text{sec}$	
	3. Noble Gas _____ $\mu\text{Ci}/\text{sec}$	
	Stack Flow _____ SCFM	
	<b>Service Water Monitors</b>	
	82-SW146A _____ $\mu\text{Ci}/\text{ml}$	
	91-SW146B _____ $\mu\text{Ci}/\text{ml}$	
	<b>Rad Waste Liquid Effluent Monitor</b>	
	8-LWS206 _____ $\mu\text{Ci}/\text{ml}$	
	<b>Cooling Tower Blowdown</b>	
	70-CWS157 _____ $\mu\text{Ci}/\text{ml}$	
	<b>Service Water Monitors</b>	
	81-SWP23A _____ $\mu\text{Ci}/\text{ml}$	
	90-SWP23B _____ $\mu\text{Ci}/\text{ml}$	
	<b>Reactor Building Ventilation (SGTS off) Above</b>	
	77-HVR14A-Ch 1 _____ $\mu\text{Ci}/\text{cc}$	
	Ch 2 _____ $\mu\text{Ci}/\text{cc}$	
	86-HVR14B _____ $\mu\text{Ci}/\text{cc}$	
	<b>Below</b>	
	78-HVR32A-Ch 1 _____ $\mu\text{Ci}/\text{cc}$	
	Ch 2 _____ $\mu\text{Ci}/\text{cc}$	
	87-HVR32B _____ $\mu\text{Ci}/\text{cc}$	
	<b>Standby Gas Treatment (Post Treatm't)</b>	
	68-GTS105 _____ $\mu\text{Ci}/\text{cc}$	
	<b>Offgas Monitors (Before Charcoal)</b>	
	63-OFG13A _____ $\mu\text{Ci}/\text{cc}$	
	64-OFG13B _____ $\mu\text{Ci}/\text{cc}$	

\* Trend Symbols:  
 ↑ = Increasing ↓ = Decreasing → = No Change

Time	Monitor (#/Name)/Reading	Trend *
	<b>Containment High Rg Drywell Area EI 261</b>	
	79-RMS1A _____ R/hr	
	88-RMS1B _____ R/hr	
	80-RMS1C _____ R/hr	
	89-RMS1D _____ R/hr	
	<b>Above Suppression Pool</b>	
	27-RMS139 _____ R/hr	
	<b>Main Steam Rad Monitor (Manual)</b>	
	MSS 46A _____ mR/hr	
	MSS 46B _____ mR/hr	
	MSS 46C _____ mR/hr	
	MSS 46D _____ mR/hr	
	<b>Continuous Air Mon. (Drywell Atmos.)</b>	
	74-CMS10A-Ch 1 _____ $\mu\text{Ci}/\text{cc}$	
	Ch 2 _____ $\mu\text{Ci}/\text{cc}$	
	83-CMS10B-Ch 1 _____ $\mu\text{Ci}/\text{cc}$	
	Ch 2 _____ $\mu\text{Ci}/\text{cc}$	
	<b>Rx Bldg Vent/Recirc Mode (SGTS On)</b>	
	39-HVR229-Ch 1 _____ $\mu\text{Ci}/\text{cc}$	
	Ch 2 _____ $\mu\text{Ci}/\text{cc}$	
	<b>Auxiliary Bay Vent N.</b>	
	34-HVR237-Ch 1 _____ $\mu\text{Ci}/\text{cc}$	
	Ch 2 _____ $\mu\text{Ci}/\text{cc}$	
	<b>Auxiliary Bay Vent S.</b>	
	35-HVR238-Ch 1 _____ $\mu\text{Ci}/\text{cc}$	
	Ch 2 _____ $\mu\text{Ci}/\text{cc}$	
	<b>Turbine Building Vent</b>	
	65-HVT206-Ch 1 _____ $\mu\text{Ci}/\text{cc}$	
	Ch 2 _____ $\mu\text{Ci}/\text{cc}$	
	<b>Rad Waste Equipment Exhaust</b>	
	16-HVW195-Ch 1 _____ $\mu\text{Ci}/\text{cc}$	
	Ch 2 _____ $\mu\text{Ci}/\text{cc}$	
	<b>Rad Waste Tank Exhaust</b>	
	17-HVW196-Ch 1 _____ $\mu\text{Ci}/\text{cc}$	
	Ch 2 _____ $\mu\text{Ci}/\text{cc}$	
	<b>Rad Waste Building Ventilation</b>	
	18-HVW197-Ch 1 _____ $\mu\text{Ci}/\text{cc}$	
	Ch 2 _____ $\mu\text{Ci}/\text{cc}$	









Attachment 30, EQUIPMENT SURVEY/SAMPLE STATUS BOARD

EQUIPMENT SURVEY/SAMPLE STATUS BOARD (Sample)

UNIT <input type="checkbox"/> 1 <input type="checkbox"/> 2		DATE:		THIS <input type="checkbox"/> IS A DRILL <input type="checkbox"/> IS NOT A DRILL	
EQUIPMENT				TEAMS	
TITLE/ID	CONDITION	CORRECTIVE ACTION	RETURNED TO SERVICE	NAME/LEADER	TEAM STATUS
TITLE			<input type="checkbox"/> ESTIMATED DATE _____ TIME _____	TEAM ID _____ LEADER _____	<input type="checkbox"/> STANDBY <input type="checkbox"/> BRIEFING TIME DISPATCHED _____
ID			<input type="checkbox"/> COMPLETED DATE _____ TIME _____	_____	<input type="checkbox"/> ON THE JOB <input type="checkbox"/> OTHER _____
TITLE			<input type="checkbox"/> ESTIMATED DATE _____ TIME _____	TEAM ID _____ LEADER _____	<input type="checkbox"/> STANDBY <input type="checkbox"/> BRIEFING TIME DISPATCHED _____
ID			<input type="checkbox"/> COMPLETED DATE _____ TIME _____	_____	<input type="checkbox"/> ON THE JOB <input type="checkbox"/> OTHER _____
TITLE			<input type="checkbox"/> ESTIMATED DATE _____ TIME _____	TEAM ID _____ LEADER _____	<input type="checkbox"/> STANDBY <input type="checkbox"/> BRIEFING TIME DISPATCHED _____
ID			<input type="checkbox"/> COMPLETED DATE _____ TIME _____	_____	<input type="checkbox"/> ON THE JOB <input type="checkbox"/> OTHER _____
TITLE			<input type="checkbox"/> ESTIMATED DATE _____ TIME _____	TEAM ID _____ LEADER _____	<input type="checkbox"/> STANDBY <input type="checkbox"/> BRIEFING TIME DISPATCHED _____
ID			<input type="checkbox"/> COMPLETED DATE _____ TIME _____	_____	<input type="checkbox"/> ON THE JOB <input type="checkbox"/> OTHER _____
TITLE			<input type="checkbox"/> ESTIMATED DATE _____ TIME _____	TEAM ID _____ LEADER _____	<input type="checkbox"/> STANDBY <input type="checkbox"/> BRIEFING TIME DISPATCHED _____
ID			<input type="checkbox"/> COMPLETED DATE _____ TIME _____	_____	<input type="checkbox"/> ON THE JOB <input type="checkbox"/> OTHER _____
TITLE			<input type="checkbox"/> ESTIMATED DATE _____ TIME _____	TEAM ID _____ LEADER _____	<input type="checkbox"/> STANDBY <input type="checkbox"/> BRIEFING TIME DISPATCHED _____
ID			<input type="checkbox"/> COMPLETED DATE _____ TIME _____	_____	<input type="checkbox"/> ON THE JOB <input type="checkbox"/> OTHER _____
TITLE			<input type="checkbox"/> ESTIMATED DATE _____ TIME _____	TEAM ID _____ LEADER _____	<input type="checkbox"/> STANDBY <input type="checkbox"/> BRIEFING TIME DISPATCHED _____
ID			<input type="checkbox"/> COMPLETED DATE _____ TIME _____	_____	<input type="checkbox"/> ON THE JOB <input type="checkbox"/> OTHER _____

NOTE:\*\* INDICATES SAME AS BEFORE



**Attachment 32, AREA RAD MONITORS - UNIT 1**

Date (MM/DD/YY) \_\_\_\_\_ Time (24 Hour): \_\_\_\_\_

(Process Computer Displayed Time)

No.	Location	Results (Mr/hr)	Trend *
1	SE Plant Entrance TB 261'		
2	New Fuel Storage Area Room RB 318'		
3	Control Room AB 277'		
4	I&C Shop TB 277'		
5	Generator Area TB 300' W		
6	Shaft Pump Area TB 300' E		
7	Cond Pump Valve Cond Bay 261' NE		
8	Outside MSIV Room TB 261'		
9	N of Battery Board Rm TB 261'		
10	Cond Demin Valve Room TB 257'		
11	Regen. Room TB 261'		
12	Truck Bay TB 261'		
13	Old Radwaste Bldg 225' (Retired in Place)		
14	Old Radwaste Bldg S of Stairs 229'		
15	Old Radwaste Bldg Control Room 261'		
16	Old Radwaste Bldg Door to Pusher Room 261'		
17	Inner TIP Room RB 249'		
18	West End of Shield Wall RB 340'		
19	RX Bldg NE Corner 198'		
20	Closed Loop Cooling Area RB 298'		
21	Clean Up Pump Area RB 261'		
22	Rx Bldg NE 281'		
23	CRD Accumulator Area RB 237'		
24	Lg Equipment Decon Rm TB 261'		
25	Rx Bldg E Wall 340'		
26	High Level Chem Lab TB 261'		
27	Rx Bldg NW 318'		
28	North Instr Room RB 237'		
29	Refuel Bridge (Low Range) RB 340'		
RFB	Refuel Bridge (High Range) Process Monitor		
30	New RW Bldg N of Decon Panl 261'		
31	New RW Bldg West Wall 247'		
32	New RW Bldg South Wall		
33	Off Gas Bldg West of Stairs 229'		

\* Trend Symbols: ↑ = Increasing ↓ = Decreasing → = No Change

## Attachment 33, AREA RAD MONITORS - UNIT 2

## AREA RAD MONITORS – UNIT 2 (Sample)

Date (MM/DD/YY) \_\_\_\_\_

Time (24 Hour) \_\_\_\_\_

(DRMS Computer Displayed Time)

No.	#-ARM Monitor	Location	Results (MR/hr)	Trend *
1	19-RMS108	RB 289' Southeast CRD Maintenance Area		
2	21-RMS144	RB 261' CRD Module Area South		
3	22-RMS106	RB 261' Entrance Area		
4	23-RMS143	RB 261' CRD Module Area North		
5	24-RMS145	RB 240' Sample Sink		
6	25-RMS105	RB 240' TIP Drive Mechanical Equipment Area		
7	27-RMS139	RB 215' Suppression Pool		
8	26-RMS2B	RB 215' Recirc Pump Instrument Panel B		
9	28-RMS2A	RB 215' Recirc Pump Instrument Panel A		
10	29-RMS101	Auxiliary Bay North 175' RHS Heat Exchange Equipment Room		
11	31-RMS104	RB 175' Equipment Drains Sumps & Pumps West		
12	32-RMS103	Auxiliary Bay South 175' RHS Heat Exchange Equipment Room		
13	33-RMS102	RB 175' Equipment Drains Sumps & Pumps East		
14	42-RMS112	RB 354' Fuel Handling Platform		
15	43-RMS111	RB 354' Fuel Handling Platform		
16	48-RMS119	TB 250'NE Condenser Area		
17	49-RMS138	TB 250'N Feedwater Pumps		
18	56-RMS135	TB 250'W Air Removal Pumps		
19	57-RMS116	TB 250'SW Cond. Pumps/TBCLC Hx Pumps		
20	58-RMS154	TB 250'SE Hot Water Hx Room		
21	59-RMS192	TB 306' Gas Effluent Monitor Area (Vital Area Monitor)		
22	60-RMS191	TB 306' Low-Level Count Room (Vital Area Monitor)		
23	69-RMS193	Main Stack 261' Gas Effluent Monitor Area (Vital Area Monitor)		
24	71-RMS130	CB 261' Remote Shutdown Panel Area		

\* Trend Symbols: ↑ = Increasing ↓ = Decreasing → = No Change

**Attachment 34, EMERGENCY PROCEDURES TELEPHONE NUMBERS QUARTERLY PHONE CHECKS**

**1.0 PROCEDURE**

1.1 For each person/organization listed, verify that the number(s) listed in the procedure listed are correct.

**NOTE**

Only procedures which contain phone numbers are listed in this attachment.

1.2 Check "SAT" if the number is verified correct.

1.3 If the number is incorrect or no longer working, then perform the following:

A. Evaluate the impact and generate a change document (Future PCR, PCR, Revision, etc) to any affected EIPs or EPMPs; listed under Procedure Reference.

1.4 For all other discrepancies which cannot be resolved, record the discrepancy in the Remarks section and notify the Emergency Preparedness Organization.





Attachment 35, EMERGENCY KEY INVENTORY

QUARTERLY						
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Year: _____		<input type="checkbox"/> Post Drill/Exercise/Event: Date: _____ (circle appropriate)		<input type="checkbox"/> Other		
(Ensure seal is replaced following inspection.)						
		GM-5	S-8	Site Vehicles	JIC (Master)	Seal #
TSC	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	X <sup>1</sup>	X <sup>1</sup>			
OSC <sup>3</sup>	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT		Verify keys per Attachment 42, page 2			
JIC	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT		X <sup>2</sup>		X <sup>2</sup>	
OAA	<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT		X <sup>4</sup>			
If any of the keys are missing: <ul style="list-style-type: none"> <li>• Record any discrepancies in remarks section including IR number written as a result of discovery of gap.</li> <li>• Contact the person who signed the key out last as an effort to locate it. If this is unsuccessful, call the Lock Shop at x1108 and request a replacement.</li> </ul>						

<sup>1</sup> Contained in "break away" box outside facility.

<sup>2</sup> Contained in key box inside NMP/JAF Room.

<sup>3</sup> Contained in keybox inside OSC.

<sup>4</sup> Located on outside of cabinet at OAA emergency supply area.

Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Performed by (Print/Initial/Date)      Supervisor Approval (Print/Initial/Date)\*\*      E. P. Review      (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

**Attachment 35, EMERGENCY KEY INVENTORY (Continued)**

OSC Key Box Quarterly Inventory – Ensure all keys are within box.. Check sign out log if identify any missing. Follow instructions on page 1 if cannot locate any key listed.					
	Identification	Description	Owner	Sat	Unsat
1					
2	06-1004	Ford Escape	Emergency Preparedness		
3	02-1802	Cargo Van	Building Maintenance & Grounds		
4	03-1012	Pickup Truck	Mechanical Maintenance		
5	04-0668	Stake Rack Truck w/ Hydraulic Lift	Mechanical Maintenance		
6	06-1005	Ford Escape	Emergency Preparedness		
7	03-1210	Pickup Truck	Warehouse		
8	03-1221	Pickup Truck	Radiation Protection		
9	03-1113	Pickup Truck	Maintenance Lockshop		
10	06-1006	Ford Escape	Emergency Preparedness		
11	02-1792	Cargo Van	M&TE		
12	03-1216	Pickup Truck	Mechanical Maintenance		
13	03-1214	Pickup Truck	Electrical Maintenance		
14					
15	02-1893	Cargo Van	Building Maintenance & Grounds		
16	03-0908	Pickup Truck	BM&G		
17					
18					
19	02-0902	Cargo Van	Information Technology		
20					
21	02-1883	Cargo Van	Chemistry		
22					
23	05-0576	SUV	I&C		
24					
25					
26	S-8				
27					
28					
29					
30	WH1	Storeroom			
31	2D25	Volney-OAA			
32	P-5	Environmental Cabinet			
33	MED-1	1 <sup>st</sup> Aid Kit 261'			
34	COMP-1	Security Computer			
35	CH-751				
36	A112	Damage Repair Kit			
37	BM	U1 Tool Carts			
38	SA267/324XB	U2 Tool Carts			
39	MB31/MB369	Drawing Cabinets			
40					
41	EOP Cart 1	261' Security Bldg.			
42	EOP Cart 2	261' Rx Outside			
43	EOP Cart 3	247' Tunnel			
44	EOP Cart 4	SW Bldg West			
45	GM-8	Kitchen/Restroom			

**Attachment 36, PERSONNEL ACCOUNTABILITY CARDREADER QUARTERLY CHECKS**

**1.0 PROCEDURE**

- 1.1 At each Accountability Cardreader listed, activate the reader with the site ID card and observe the illumination of both the green and red light.
- 1.2 Check the "SAT" column for the appropriate Cardreader if both green and red lights work.
- 1.3 If the reader does not activate or the green light or red light does not illuminate:
  - A. Check the "Unsat" column for the appropriate Card Reader.
  - B. Inform the Security Supervisor (x1007)
  - C. Inform the respective Shift Manager (x5201 – Unit 1) (x5202 – Unit 2)

Quarter: 1 2 3 4		YEAR:					
MNEMONIC	DESCRIPTION	LOCATION	SAT	UNSAT	IR # if Unsat		
AC106E77	U1/U2 Passageway	U1, el. 277'					
AC186E61	Admin. Bldg Hallway (by FIN Team Room)	U1, el. 261'					
AC187E61	Women's Locker Room	U1, el. 261'					
AC189E61	Men's Locker Room	U1, el. 261'					
AC188E61	Men's Locker Room	U1, el. 261'					
AC199E50	TSC	U1, el. 250'					
ST102D61	Security Annex, North Door	U1, el. 261'					
AA209D77	Security East (277')	U2, el. 277'					
AC209E61	Access Control Bldg. - by OCC	U2, el. 261'					
AC210E61	L Building - West	U2, el. 261'					
AC214E77	L Building - South	U2, el. 277'					
AC223E61	K Building - West	U2, el. 261'					
AC219E61	K Building - Center South	U2, el. 261'					
AC220E61	K Building - South Locker Area	U2, el. 261'					
AC221E61	K Building - Center North	U2, el. 261'					
AC225E61	Operations Building - Center North	U2, el. 261'					
AC226E77	Operations Building - Center North	U2, el. 277'					
AC227E61	Maintenance Bldg. - North	U2, el. 261'					
AC228E61	Maintenance Bldg. - South	U2, el. 261'					
AC229E77	Maintenance Bldg. - North	U2, el. 277'					
AC230E77	Maintenance Bldg. - South	U2, el. 277'					

Performed by (Print/Initial/Date)      Supervisor Approval (Print/Initial/Date)\*\*      E. P. Review      (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**



Attachment 38, UNIT 1 CONTROL ROOM INVENTORY

<b>QUARTERLY</b>		
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Year	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)	<input type="checkbox"/> Other

	Item/Equipment	Min Qty	Sat	Unsat	Corrective Actions
<b>PROCEDURES / DOCUMENTS:</b>					
1	Emergency Plan Implementing Procedures (EPIP)	(1)			
	Emergency Plan Maintenance Procedures (EPMP)	(1)			
	Emergency Action Level Reference Manual	(1)			
	Site Emergency Plan (SEP)	(1)			
	Emergency Operating Procedure (EOP) Bases	(1)			
	EPIP-EPP-08 (for chemistry Technician use)	(1)			
<b>DIAGRAMS / DRAWINGS</b>					
2	Emergency Operating Proc (EOP) Flow Charts	(1 set)			
	Severe Accident Procedure (SAP) Flow Charts	(1 set)			
	Emergency Action Levels (EAL) Diagram	(1)			
<b>FORMS / BINS</b>					
	Medical Emergency Checklist	(15)			
	HazMat Flowchart	(10)			
	Fire Fighting Checklist	(15)			
<b>EQUIPMENT</b>					
	Potassium Iodide Pills (expiration greater than 90 days)	(60)			

Performed by (Print/Initial/Date)      Supervisor Approval (Print/Initial/Date)\*\*      E. P. Review (Print/Initial/Date)

***\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).***

Attachment 39, UNIT 2 CONTROL ROOM INVENTORY

<b>QUARTERLY</b>		
<input type="checkbox"/> Quarter: 1 2 3 4 (circle one) Year	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)	<input type="checkbox"/> Other

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions
<b>PROCEDURES / DOCUMENTS:</b>					
1	Emergency Plan Implementing Procedures (EPIP)	(1)			
	Emergency Plan Maintenance Procedures (EPMP)	(1)			
	Emergency Action Level Reference Manual	(1)			
	Site Emergency Plan (SEP)	(1)			
	Emergency Operating Procedure (EOP) Bases	(1)			
	EPIP-EPP-08 (for chemistry Technician use)	(1)			
<b>DIAGRAMS / DRAWINGS</b>					
2	Emergency Operating Proc (EOP) Flow Charts	(1 set)			
	Severe Accident Procedure (SAP) Flow Charts	(1 set)			
	Emergency Action Levels (EAL) Diagram	(1)			
<b>FORMS / BINS</b>					
	Medical Emergency Checklist	(15)			
	HazMat Flowchart	(10)			
	Fire Fighting Checklist	(15)			
<b>EQUIPMENT</b>					
	Potassium Iodide Pills (expiration greater than 90 days)	(60)			

Performed by (Print/Initial/Date)      Supervisor Approval (Print/Initial/Date)\*\*      E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 40, COUNTY AND STATE EOC SURVEILLANCE

TASK	COUNTY EOC			STATE EOC			Corrective Actions (if Unsat)
<b>COMPUTERS</b>	Date performed:			Date performed:			
"708" parameter screen							
• Logs on	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
• Prints	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
EDAMS Computer							
• EPMP-EPP-03 checks performed	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
EDAMS Computer							
• EPMP-EPP-03 checks performed	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
EIS computer							
• Logs on	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
• Prints	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
NMP Tech Rep DSL/WiFi connection	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
<b>PROCEDURES</b>							
EPIP-EPP's							
• All procedures present	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
• All procedures are current	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
EPMP-EPP's							
• All procedures present	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
• All procedures are current	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
SEP							
• Present	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
• Current	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	
NMP Tech Rep binder							
• NMP Emergency Telephone Directory current	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	

Attachment 40, COUNTY AND STATE EOC SURVEILLANCE (Continued)

TASK	COUNTY EOC			STATE EOC			Corrective Actions if Unsat
	Date performed:			Date performed:			
Other documents (UFSAR/USAR, Tech Specs)							
<ul style="list-style-type: none"> <li>General condition</li> </ul>	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	<input type="checkbox"/> Sat	<input type="checkbox"/> Unsat	<input type="checkbox"/> NA	IR _____ _____

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review (Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**



**Attachment 41, ANNUAL PROXIMITY SUIT INVENTORY**

Located by Downwind Survey Team lockers (in NE corner of U1 Storeroom)

<input type="checkbox"/> Year _____	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (Circle appropriate)	<input type="checkbox"/> Other
-------------------------------------	--	--------------------------------

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (For Unsat)
1	Small size proximity suit including: <ul style="list-style-type: none"> <li>• Head Gear, with face shield</li> <li>• 2 Booties</li> <li>• 2 Gloves</li> <li>• Jacket and Pants</li> </ul>	1			IR _____ _____
2	Medium size proximity suit including: <ul style="list-style-type: none"> <li>• Head Gear, with face shield</li> <li>• 2 Booties</li> <li>• 2 Gloves</li> <li>• Jacket and Pants</li> </ul>	2			
3	Extra Large size proximity suit including: <ul style="list-style-type: none"> <li>• Head Gear, with face shield</li> <li>• 2 Booties</li> <li>• 2 Gloves</li> <li>• Jacket and Pants</li> </ul>	1			

Performed by (Print/Initial/Date) \_\_\_\_\_ Supervisor Approval (Print/Initial/Date)\*\* \_\_\_\_\_ E. P. Review (Print/Initial/Date) \_\_\_\_\_

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 42, VEHICLE INVENTORY

<input type="checkbox"/> Month: _____	<input type="checkbox"/> Post Drill/Exercise/Event: Date: _____	<input type="checkbox"/> Other
<input type="checkbox"/> Year: _____	(circle appropriate)	

VEHICLE NUMBER	DESCRIPTION	PROCEDURE	Sat	Unsat	Corrective Actions (If unsat)
3-1123	Operations (Fire Brigade Pickup)	EPMP-EPP-02, S-DRP-OPS-003			IR _____ _____
3-1011*	Maintenance Pickup	EPMP-EPP-02, S-DRP-OPS-003			
3-1214*	Maintenance Pickup	EPMP-EPP-02, S-DRP-OPS-003			
3-1012	Maintenance Pickup	EPMP-EPP-02, S-DRP-OPS-003			
3-0003 Δ	Security I&C Tahoe	EPMP-EPP-02, S-DRP-OPS-003			
6-0001 Δ	Security Suburban	EPMP-EPP-02, S-DRP-OPS-003			
2-1883 †	Chemistry	EPMP-EPP-02, CNG-EP-1.01-1015			
3-1113 †	Maintenance Lockshop Pickup	EPMP-EPP-02, CNG-EP-1.01-1015			
2-1792 †	M&TE Cargo van	EPMP-EPP-02, CNG-EP-1.01-1015			
2-1802	BM & G Cargo van	EPMP-EPP-02, CNG-EP-1.01-1015			
2-1893 †	BM & G Cargo van	EPMP-EPP-02, CNG-EP-1.01-1015			
6-1004 †	EP SUV	EPMP-EPP-02, CNG-EP-1.01-1015			
6-1005 †	EP SUV	EPMP-EPP-02, CNG-EP-1.01-1015			
6-1006 †	EP SUV	EPMP-EPP-02, CNG-EP-1.01-1015			

- \* Keys to these company vehicles are contained in each control room's break glass key box and at Security.
- † Keys to these company vehicles are maintained in the OSC and at Security.
- Δ Keys to these company vehicles are maintained at Security.
- \*\* Key to this company vehicle is contained in each control room's break glass key box and with Fire Marshall.

Details/Items Resolved: (IF vehicles are changed out referenced procedures AND keys shall be updated.)

\_\_\_\_\_  
Performed by  
(Print/Initial/Date)

\_\_\_\_\_  
Supervisor Approval  
(Print/Initial/Date)

\_\_\_\_\_  
EP Review  
(Print/Initial/Date)

**Attachment 43, NMPNS INTERIM FLOOD PROTECTION EQUIPMENT INVENTORY**

Annual Inventory and Condition Check		
<input type="checkbox"/> Third Quarter Year _____	<input type="checkbox"/> Post Drill/Exercise/Event Date: _____ (circle appropriate)	<input type="checkbox"/> Other

**NOTE:** The tow-able trailer containing the Flood Protection Equipment is located on West side of the Sea-van Storage Bldg in the equipment staging area.

	Item/Equipment	Min. Qty	Sat	Unsat	Corrective Actions (IR written for any Unsat Items)
<b>PROCEDURES / DOCUMENTS:</b>					
1	Emergency Plan Implementing Procedures (EPIP), EPIP-EPP-26 Attachment 1, Table 1 verify current revision	(2)			
	Emergency Plan Implementing Procedures (EPIP), EPIP-EPP-26 Attachment 1, Table 2 verify current revision	(2)			
	Emergency Plan Implementing Procedures (EPIP), EPIP-EPP-26 Attachment 1, Figure 1 verify current revision	(2)			
	Emergency Plan Implementing Procedures (EPIP), EPIP-EPP-26 Attachment 1, Figure 2 verify current revision	(2)			
<b>DIAGRAMS / DRAWINGS</b>					
2	FloodStop Equipment User Aid Diagram, titled "Installation of FloodStop"	(2 sets)			
<b>EQUIPMENT</b>					
3	FloodStop Self-filling Barriers <sup>(1)</sup>	(19)			
	FloodStop Barriers <sup>(1)</sup>	(19)			
	FloodStop Multi-hubs <sup>(1)</sup>	(45)			
	FloodStop Connectors <sup>(1)</sup>	(62)			
	FloodStop Connector Removal Tool	(4)			
	Wet-Service Vacuums	(2)			
	Socket Wrench Set	(1)			
	Extension Cords	(2)			
<b>TRAILER</b>					
4	Tires – proper inflation and condition	N/A			
	Hitch device - in working condition				
	Exterior Condition – no visible damage	N/A			
	Interior Condition – no visible damage or leaks	N/A			

Notes

- (1) Visually inspect each FloodStop Barrier, Connector, and Multi-hub for damage and defects. Examine the EDPM sealing material and verify in good condition, no damage that would compromise sealing capability or cuts that completely cross the sealing material face.

Performed by (Print/Initial/Date)

Supervisor Approval (Print/Initial/Date)\*\*

E. P. Review  
(Print/Initial/Date)

**\*\*It is the department supervisor's responsibility to ensure inventory and paperwork are complete and received by EP within fourteen days of completion (per 5.3.A.5).**

Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-56-1

Procedure/Document Number: Site Emergency Plan		Revision: 63
Equipment/Facility/Other: Other		
Title: Site Emergency Plan		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Editorial corrections to:</p> <ul style="list-style-type: none"> <li>- Align entire document to one revision</li> <li>- Replace CENG with Exelon</li> <li>- Reflect Title Changes</li> <li>- Update procedure references to correct procedures</li> </ul>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input checked="" type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

<b>9</b>	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>
<b>10</b>	Fire Protection Program – Operating license condition	<input type="checkbox"/>
<b>11</b>	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
<b>12</b>	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
- One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.

**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition). Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

**Editorial corrections to:**

- Align entire document to one revision
- Replace CENG with Exelon
- Reflect Title Changes
- Update procedure references to correct procedure

YES  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

NO  
Continue to  
next part

## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION**

Editorial Changes only

**Part VI. Approval:**

Preparer Name (Print) Budd Westermann	Preparer Signature <i>B Westermann</i>	Date: 12/10/14
Reviewer Name (Print) Julie Gillard	Reviewer Signature <i>Julie Gillard</i>	Date: 12/11/14
Approver Name (Print) Budd Westermann	Approver Signature <i>B Westermann</i>	Date: 12-12-14

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

Tracking Number: 2014-56-2

Procedure/Document Number: Site Emergency Plan		Revision: 63
Equipment/Facility/Other: Other		
Title: Site Emergency Plan		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Update the SEP to remove references to EDAMS and incorporate URI/RASCAL</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input checked="" type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>
10	Fire Protection Program – Operating license condition	<input type="checkbox"/>
11	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
12	Other (provide title):	<input type="checkbox"/>



**Attachment 4, 10 CFR 50.54 (q) Screening Form**

<p><b>APPLICABILITY CONCLUSION</b></p> <p><input type="checkbox"/> If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.</p> <p><input checked="" type="checkbox"/> One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.</p> <p><input type="checkbox"/> One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.</p>		
<p><b>Part IV. Editorial Change</b></p> <p>Is this activity an editorial change (refer to Editorial Definition). Check appropriate box(es) below and complete justification?</p> <p><input type="checkbox"/> Procedure Title Change</p> <p><input type="checkbox"/> Reference or annotation change</p> <p><input type="checkbox"/> Correction of location description</p> <p><input type="checkbox"/> Correction of typographical errors and punctuation</p> <p><input type="checkbox"/> Reformatting changes that do not change intent, purpose, or order of procedural steps</p> <p><input type="checkbox"/> Changes on plant drawing grid coordinates</p> <p><input type="checkbox"/> Change to position titles when no responsibilities for that position have changed</p> <p><input type="checkbox"/> Correction in page or step numbering</p> <p><input type="checkbox"/> Other (provide description)</p> <p><b>Justification:</b></p>	<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p>	<p><input checked="" type="checkbox"/> NO Continue to next part</p>

## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input checked="" type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION**

**Part VI. Approval:**

Preparer Name (Print) Budd Westermann	Preparer Signature <i>Budd Westermann</i>	Date: 12/10/14
Reviewer Name (Print) Julie Gillard	Reviewer Signature <i>Julie Gillard</i>	Date: 12/11/14
Approver Name (Print) Budd Westermann	Approver Signature <i>Budd Westermann</i>	Date: 12-12-14

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

Tracking Number: 2014-56-3

Procedure/Document Number: Site Emergency Plan		Revision: 63
Equipment/Facility/Other: Other		
Title: Site Emergency Plan		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Incorporate the NMP Alternative Facilities into the SEP and update references from old Howard Road Alternate Facility to use the Alternative Facilities as the new Alternate Facilities as well.</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input checked="" type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>
10	Fire Protection Program – Operating license condition	<input type="checkbox"/>
11	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>12</b>	Other (provide title):	<input type="checkbox"/>
<p><b>APPLICABILITY CONCLUSION</b></p> <p><input type="checkbox"/> If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.</p> <p><input checked="" type="checkbox"/> One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.</p> <p><input type="checkbox"/> One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.</p>		
<p><b>Part IV. Editorial Change</b></p> <p>Is this activity an editorial change (refer to Editorial Definition). Check appropriate box(es) below and complete justification?</p> <p><input type="checkbox"/> Procedure Title Change</p> <p><input type="checkbox"/> Reference or annotation change</p> <p><input type="checkbox"/> Correction of location description</p> <p><input type="checkbox"/> Correction of typographical errors and punctuation</p> <p><input type="checkbox"/> Reformatting changes that do not change intent, purpose, or order of procedural steps</p> <p><input type="checkbox"/> Changes on plant drawing grid coordinates</p> <p><input type="checkbox"/> Change to position titles when no responsibilities for that position have changed</p> <p><input type="checkbox"/> Correction in page or step numbering</p> <p><input type="checkbox"/> Other (provide description)</p> <p><b>Justification:</b></p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p>
		<p><input checked="" type="checkbox"/> NO Continue to next part</p>

## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input checked="" type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input checked="" type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input checked="" type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

BASIS FOR CONCLUSION

Part VI. Approval:

Preparer Name (Print) Budd Westermann	Preparer Signature <i>Budd Westermann</i>	Date: 12/10/14
Reviewer Name (Print) Julie Gillard	Reviewer Signature <i>Julie Gillard</i>	Date: 12/11/14
Approver Name (Print) Budd Westermann	Approver Signature <i>Budd Westermann</i>	Date: 12-12-14

Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-56-4

Procedure/Document Number: Site Emergency Plan		Revision: 63
Equipment/Facility/Other: Other		
Title: Site Emergency Plan		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>This change incorporates Revision 1 of Supplement 3 of NUREG 0654, "Criteria for Preparation and Evaluation for Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants".</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input checked="" type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>
10	Fire Protection Program – Operating license condition	<input type="checkbox"/>
11	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>



Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>12</b>	Other (provide title):	<input type="checkbox"/>
<p><b>APPLICABILITY CONCLUSION</b></p> <p><input type="checkbox"/> If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.</p> <p><input checked="" type="checkbox"/> One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.</p> <p><input type="checkbox"/> One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.</p>		
<p><b>Part IV. Editorial Change</b></p> <p>Is this activity an editorial change (refer to Editorial Definition). Check appropriate box(es) below and complete justification?</p> <p><input type="checkbox"/> Procedure Title Change</p> <p><input type="checkbox"/> Reference or annotation change</p> <p><input type="checkbox"/> Correction of location description</p> <p><input type="checkbox"/> Correction of typographical errors and punctuation</p> <p><input type="checkbox"/> Reformatting changes that do not change intent, purpose, or order of procedural steps</p> <p><input type="checkbox"/> Changes on plant drawing grid coordinates</p> <p><input type="checkbox"/> Change to position titles when no responsibilities for that position have changed</p> <p><input type="checkbox"/> Correction in page or step numbering</p> <p><input type="checkbox"/> Other (provide description)</p> <p><b>Justification:</b></p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

**Part V. Regulatory Requirement/Emergency Planning Element/Function Screening** (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.

1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input checked="" type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION**

**Part VI. Approval:**

Preparer Name (Print) Budd Westermann	Preparer Signature <i>Budd Westermann</i>	Date: 12/10/14
Reviewer Name (Print) J. Gillard	Reviewer Signature <i>J. Gillard</i>	Date: 12/11/14
Approver Name (Print) Budd Westermann	Approver Signature <i>Budd Westermann</i>	Date: 12-12-14

Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-56-5

Procedure/Document Number: Site Emergency Plan		Revision: 63
Equipment/Facility/Other: Other		
Title: Site Emergency Plan		
<p><b>Part I.</b> Description of the Activity (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Remove refrence to JAFNPP Chemistry Lab from SEP</p>		
<p><b>Part II.</b> Activity Previously Reviewed?</p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input checked="" type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>
10	Fire Protection Program – Operating license condition	<input type="checkbox"/>
11	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
12	Other (provide title):	<input type="checkbox"/>

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
- One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.

**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition).  
Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

YES  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

NO  
Continue to  
next part

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input checked="" type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form




23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

BASIS FOR CONCLUSION

Part VI. Approval:

Preparer Name (Print) Budd Westermann	Preparer Signature 	Date: 12/10/14
Reviewer Name (Print) J. Gillard	Reviewer Signature 	Date: 12/11/14
Approver Name (Print) Budd Westermann	Approver Signature 	Date: 12-12-14

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

Tracking Number: 2014-56-2

Procedure/Document Number: Site Emergency Plan	Revision: 63
Equipment/Facility/Other: Other	
Title: Site Emergency Plan	
<p><b>Part I. Description of the Activity (event or action or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</b></p> <p>Update the SEP to remove references to EDAMS and incorporate URI/RASCAL</p>	
<p><b>Part II. Description and Review of Licensing Basis Affected by the Proposed Change:</b></p> <p>Section 1.1 Acronyms - Deleted acronym for EDAMS</p> <p>Section 6.5 - Deleted Reference to EDAMS. New section:</p> <p>6.5 DOSE ASSESSMENT METHODS AND TECHNIQUES (NUREG 0654 II.I.6, II.I.8, II.I.10)</p> <p>The NMPNS has established a method for relating various measured environmental media activity levels to dose rates for key isotopes and gross radioactivity measurements. NMPNS has formulated provisions for estimating integrated dose from the projected and actual dose rates (refer to CNG-EP-1.01-1025). The results of these calculations can then be tabulated and compared with applicable protective action guides.</p> <p>The information most important in determining offsite consequences is source term, dose assessment, environmental measurements and dose projections. The following paragraphs describe these dose assessment terms and techniques.</p> <p>Section 6.5.2 - complete rewrite to remove EDAMS as method of dose assessment and incorporate URI/RASCAL. New Section 6.5.2:</p> <p>6.5.2 Offsite Radiological Dose Assessment Process (NUREG 0654 II.I.4, II.I.5, II.I.6)</p> <p>Dose assessment or projection represents the calculation of an accumulated dose at some time in the future if current or projected conditions continue. During an accident, the Plant Parameter Display System and personal computers will provide the ERO with the timely information required to make decisions. Radiological and meteorological instrumentation readings are used to project dose rates at predetermined distances from the station, and to determine the integrated dose received. Dose assessment methods used by Exelon personnel to project offsite doses include:</p> <ol style="list-style-type: none"> <li>a. Monitored Release Points - This method utilizes the plant's effluent radiation monitors and system flow rates. Effluent release points are used to directly calculate a release rate. The point of the release determines the way the source term is affected and is adjusted by the dose assessment process.</li> <li>b. Containment Leakage/Failure - This method uses a variety of containment failures or leak rates in conjunction with available source term estimations to develop a release rate to the environment. A direct vent of containment can be modeled as a failure to isolate.</li> <li>c. Release Point Samples - This method uses a sample at the release point and an estimated flow rate to develop a release rate at the point of release.</li> </ol>	



**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

d. **Field Monitoring Team Data** - This method uses a field survey or sample and the atmospheric model to back calculate a release rate and ratio concentrations of radioactive material at various points up and downwind of plume centerline.

The computer applications used to provide dose calculations are evaluated against the EPA-400 plume exposure Protective Action Guides (PAGs) applicable for the early phase of an accident. These evaluations place an emphasis on determining the necessity for offsite protective action recommendations. Dose assessment actions will be performed in the following sequence:

a. **First, Onset of a release to 1 hour post-accident:**

1) Shift personnel will rely on a simplified computerized dose model to assist them in developing offsite dose projections using real time data from effluent monitors and site meteorology.

b. **Second, 1 hour post-accident to event termination:**

1) Estimates of off-site doses based on more sophisticated techniques are provided. Dedicated ERO personnel will analyze the offsite consequences of a release using more complex computerized dose modeling. These additional methods are able to analyze more offsite conditions than the simplified quick method, as well account for more specific source term considerations

Renumbered steps 6.5.2.b, 6.5.3, 6.5.4 to new steps 6.5.3, 6.5.4, 6.5.5 respectively

Deleted old step 6.5.5.a removing reference to EDAMS. Renumbered old 6.5.5.b to 6.5.5.a

Deleted step 7.3.3.h, removing reference to EDAMS

**Part III. Describe How the Proposed Change Complies with Relevant Emergency Preparedness Regulation(s) and Previous Commitment(s) Made to the NRC:**

URI/RASCAL, version 2, provides results that have been shown to be representative for the topography, meteorological regimes (e.g., valley effects or sea breeze) of most sites and is the code used by the NRC to perform site assessments when they participate in exercises.

URI incorporates site specific terrain, release pathways, process reduction factors, filter efficiencies, monitor response information, meteorological tower features and other data that "customizes" URI to the point where it is not a "standard" or "generic" dose assessment model when properly configured for a specific site. The URI dose assessment program retains all of the site specific parameters and inputs that were common to the EDAMS program. Therefore, there are no changes to site specific parameters and inputs that impact compliance with the program requirements.

All of the site specific parameters are retained with the URI program. Specific analyses were performed to validate the release pathway calculations.

Reference NMP 10 CFR 50.54(q) 2014-30 (CNG-EP-1.01-1025, Rev 00100) for detailed analysis description.

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

**Part IV. Description of Emergency Planning Standards, Functions and Program Elements Affected by the Proposed Change (from Attachment 4, 10 CFR 50.54 (q) Screening Form Part V):**

10 CFR 50.47(b) planning standards as follows:

(9) Adequate methods, systems, and equipment for assessing and monitoring actual or potential offsite consequences of a radiological emergency condition are in use.

**Part V. Description of Impact of the Proposed Change on the Effectiveness of Emergency Plan Functions:**

1. The impact of the change to the URI dose assessment model with regard to the emergency classification and action level scheme, facility system and effluent parameters are unchanged after this change. The URI system will continue to provide the necessary data for EAL classifications just as EDAMS has. The method continues to be a manual review of the EALs based on the output of the program. The timeliness is unchanged with URI for this purpose as the method of determination still allows NMP to declare within the required 15 minutes. This change sustains the effectiveness of the planning standard.

2. The methods, systems and equipment for assessing and monitoring the actual or potential offsite consequences of a radiological emergency condition have been tested with the URI system for Nine Mile Point. There is no change in the method to determine the offsite consequences as a result of the change to the URI software regarding the planning standard and the timeliness to assess and monitor remain the same. Therefore, the function is sustained with this change.

3. EDAMS and URI software both provide the capability for the site to develop protective actions based on plant data. Both utilize in plant monitors and meteorological towers owned by Exelon and Entergy in order to develop these protective actions. Nine Mile Point continues to maintain the capability to develop accurate protective actions for the emergency workers and public, including the impact of releases from multiple release points. This change is deemed to sustain the planning standard function and does not change the timeliness of the actions.


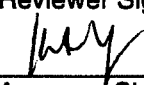
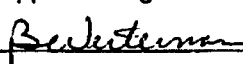
**Part VI. Effectiveness Evaluation Conclusion**

Answer the following questions about the proposed change.

1	Does the proposed change comply with 10 CFR 50.47(b) and 10 CFR 50 Appendix E?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
2	Does the proposed change maintain the effectiveness of the emergency plan (for example, no reduction in effectiveness)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
3	Does the proposed change constitute an emergency action level scheme change?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

If questions 1 or 2 are answered NO, or question 3 answered YES, reject the proposed change, modify the proposed change and perform a new evaluation or obtain prior NRC approval under provisions of 10 CFR 50.90. If questions 1 and 2 are answered YES, and question 3 answered NO, implement applicable change process(es).

**Part VII. Approval:**

Preparer Name (Print) B. Westermann	Preparer Signature 	Date: 12-10-14
Reviewer Name (Print) K. Yunkor	Reviewer Signature 	Date: 12/12/14
Approver Name (Print) B. Westermann	Approver Signature 	Date: 12-12-14

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**Tracking Number: 2014-56-3

Procedure/Document Number: Site Emergency Plan	Revision: 63
Equipment/Facility/Other: Other	
Title: Site Emergency Plan	
<p><b>Part I. Description of the Activity (event or action or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</b></p> <p>Incorporate the NMP Alternative Facilities into the SEP and update references from old Howard Road Alternate Facility to use the Alternative Facilities as the new Alternate Facilities as well.</p>	
<p><b>Part II. Description and Review of Licensing Basis Affected by the Proposed Change:</b></p> <p>Section 1.2 Definitions - Changed reference for Off-site Assembly Area from Howard Road Service Center to Oswego County Airport. New definition:</p> <p>OFFSITE ASSEMBLY AREA (OAA) Specific location outside the NMPNS 10 mile EPZ for the assembly of personnel in the event of an exclusion area evacuation. This area is typically the Oswego County Airport, Hanger K; in the town of Volney.</p> <p>Section 6.7.1.c - Changed reference to Howard Road Service Center as Off-site Assembly Area to Oswego County Airport. New Section:</p> <p>c. Owner Controlled Area (OCA) Evacuation (NUREG 0654 II.J.1.a, b, c, II.J.1.d, II.J.2, II.J.4)</p> <p>CNG-EP-1.01-1009 describes the evacuation of non essential personnel from the NMPNS protected area via the Security Buildings to the Offsite Assembly Area. It also includes, as appropriate, the evacuation of individuals from the NMPNS OCA, including the Nuclear Learning Center, Energy Center, Sewage Treatment Facility and all other NMPNS site locations to their homes or Offsite Assembly Area</p> <p>The Off-site Assembly Area is normally the Oswego County Airport, Hanger K, in Volney (Fulton). The Emergency Director may specify alternate routes or alternate locations, if appropriate. Personnel will use privately owned vehicles to evacuate. Security personnel help ensure that personnel proceed to the Offsite Assembly Area. JAFNPP is advised of the NMPNS OCA evacuation and the projected dose rates which could affect their personnel. The decision to implement an OCA evacuation is the responsibility of the Emergency Director. The decision is based on the declaration of a Site Area Emergency in which a radioactive release is anticipated or in progress, the declaration of a General Emergency, or upon declaration of a site evacuation by JAFNPP.</p> <p>New Section 7.1.7 describing Alternative Facility:</p> <p>7.1.7 Alternative Facility</p> <p>The Alternative Facility maintains the capability for staging the TSC/OSC emergency response organization personnel in the event of a hostile action. This alternative facility has the capability for communications with the emergency operations facility, control room, and plant security and the capability for engineering assessment activities, including damage control team planning and preparation. Consistent with NRC EPFAQ No. 2013-</p>	

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

005, the EOF will satisfy the offsite notification responsibilities for the Alternative Facility. The Alternative Facility is located at the Nine Mile/Fitzpatrick EOF on County Route 176, just outside Fulton, NY, adjacent to the Oswego County Airport.

Renumbered old sections 7.1.7 and 7.1.8 to 7.1.8 and 7.1.9 respectively.

Section 7.4.4 - Changed reference for Offsite Assembly Area from Howard Road Service Center to Oswego County Airport. New Section:

7.4.4 Off-site Assembly Area (NUREG 0654 II.J.3, II.J.4, II.K.5.b, II.K.7)

The purpose of the Off-site Assembly Area (OAA) is to provide a location for the assembly, monitoring, and, if necessary, decontamination of the personnel who leave the site following an Exclusion Area Evacuation.

The Oswego County Airport, Hanger K; in Volney, New York, is designated as the Off-site Assembly Area. This facility is located approximately 12 miles from the site.

Appendix A - Letters of Agreement. Updated Letter of Agreement #11 to remove National Grid for use of Howard Road Center and incorporate Oswego County Airport.

Appendix J, Drawing J-2 - Updated floor plan to incorporate Alternative TSC/OSC for NMP and JAFNPP

**Part III. Describe How the Proposed Change Complies with Relevant Emergency Preparedness Regulation(s) and Previous Commitment(s) Made to the NRC:**

The Site Emergency Plan is being revised to incorporate EP-AA-112-700 series procedures. These procedures comply with 10 CFR 50, Appendix E, Section IV.E.8.d requirements which state:

d. For nuclear power reactor licensees, an alternative facility (or facilities) that would be accessible even if the site is under threat of or experiencing hostile action, to function as a staging area for augmentation of emergency response staff and collectively having the following characteristics: the capability for communication with the emergency operations facility, control room, and plant security; the capability to perform offsite notifications; and the capability for engineering assessment activities, including damage control team planning and preparation, for use when onsite emergency facilities cannot be safely accessed during hostile action. The requirements in this paragraph 8.d must be implemented no later than December 23, 2014, with the exception of the capability for staging emergency response organization personnel at the alternative facility (or facilities) and the capability for communications with the emergency operations facility, control room, and plant security, which must be implemented no later than June 20, 2012.

This change to the SEP will ensure compliance with the operation of Alternative TSC/OSC as directed by the above regulation

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

**Part IV. Description of Emergency Planning Standards, Functions and Program Elements Affected by the Proposed Change (from Attachment 4, 10 CFR 50.54 (q) Screening Form Part V):**

10 CFR 50.47(b)(6) - Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.

10 CFR 50.47(b)(8) - Adequate emergency facilities and equipment to support the emergency response are provided and maintained.

**Part V. Description of Impact of the Proposed Change on the Effectiveness of Emergency Plan Functions:**

This change supports implementation of EP Rulemaking required by 10 CFR 50, Appendix E, Section IV.E.8.d.

This function is currently fulfilled by an alternate facility with limited capability and direction provided. These implementations will encompass Alternative Facility requirements, response by the station to fulfill Emergency Response capability, and enhances the Emergency Plan response.

There is no timeliness associated with Alternative Facility activation or operation.

This change is considered improving the effectiveness of the Site Emergency Plan.

**Part VI. Effectiveness Evaluation Conclusion**

Answer the following questions about the proposed change.

- 1 Does the proposed change comply with 10 CFR 50.47(b) and 10 CFR 50 Appendix E?
- 2 Does the proposed change maintain the effectiveness of the emergency plan (for example, no reduction in effectiveness)?
- 3 Does the proposed change constitute an emergency action level scheme change?

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

If questions 1 or 2 are answered NO, or question 3 answered YES, reject the proposed change, modify the proposed change and perform a new evaluation or obtain prior NRC approval under provisions of 10 CFR 50.90. If questions 1 and 2 are answered YES, and question 3 answered NO, implement applicable change process(es).

**Part VII. Approval:**

Preparer Name (Print) B. Westermann	Preparer Signature <i>B. Westermann</i>	Date: 12-10-14
Reviewer Name (Print) K. Yurkon	Reviewer Signature <i>K. Yurkon</i>	Date: 12/12/14
Approver Name (Print) B. Westermann	Approver Signature <i>B. Westermann</i>	Date: 12-12-14

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

Tracking Number: 2014-56-4

Procedure/Document Number: Site Emergency Plan	Revision: 63						
Equipment/Facility/Other: Other							
Title: Site Emergency Plan							
<p><b>Part I.</b> Description of the Activity (event or action or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>This change incorporates Revision 1 of Supplement 3 of NUREG 0654, "Criteria for Preparation and Evaluation for Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants".</p>							
<p><b>Part II.</b> Description and Review of Licensing Basis Affected by the Proposed Change:</p> <p>Updated Section 6.7.2.c to incorporate updated PAR requirements as delineated by NUREG 0654, Supplement 3, Rev 1. New Section:</p> <p style="margin-left: 40px;">c. <u>Protective Action Guides and Recommendation of Protective Action Recommendations</u> (NUREG 0654 II.J.7, II.J.10.m)</p> <p style="margin-left: 40px;">Protective Action Guides (PAG's) identify protective actions to be taken prior to or following a significant release of radioactive material. They are based on NUREG-0654/FEMA-REP-1, Rev 1, Supplement 3, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" and Frequently Asked Questions (FAQ) documented in "EPFAQ 2013-004 Final Response". PAGs for the "plume phase" have been established by the US Environmental Protection Agency.</p> <p style="margin-left: 40px;">The numerical guides for TEDE and <math>CDE_{Thyroid}</math> (child) dose to the general public are listed below. The procedure used by NMPNS personnel in determining the appropriate protective action recommendation (PAR) is detailed in CNG-EP-1.01-1013. PARs are reviewed prior to issuance to assess their potential impact on offsite response organization activities.</p> <div style="margin-left: 40px; border: 1px solid black; padding: 10px; text-align: center;"> <p><b>Protective Action Guidelines</b> Early or Plume Phase</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;"></th> <th style="width: 33%;">TEDE (rem)</th> <th style="width: 33%;"><math>CDE_T</math> (rem)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Evacuate</td> <td style="text-align: center;">&gt;1</td> <td style="text-align: center;">&gt;5</td> </tr> </tbody> </table> </div>			TEDE (rem)	$CDE_T$ (rem)	Evacuate	>1	>5
	TEDE (rem)	$CDE_T$ (rem)					
Evacuate	>1	>5					
<p>The following principles guide the formulation of PARs for the NMPNS:</p> <ul style="list-style-type: none"> <li>• Evacuation is the preferred method of protecting the public in the event of a significant radiological release. EPA 400 Protective Action Guidelines are used.</li> <li>• NMPNS does consider sheltering due to Controlled Containment Venting with release durations of &lt; 1 hour and dose assessments do not exceed the EPA PAGs.</li> <li>• If determined to be appropriate by New York State or Oswego County Officials, thyroid</li> </ul>							

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

prophylaxis may be provided to the general public. NMPNS recommendations include implementation of the KI Plan in order to be consistent with offsite plans.

Refer to 50.54(q) for CNG-EP-1.01-1013, Rev 00100, for detailed analysis of updated PAR methodology and process.

**Part III. Describe How the Proposed Change Complies with Relevant Emergency Preparedness Regulation(s) and Previous Commitment(s) Made to the NRC:**

Implementation of NUREG 0654, Supplement 3 does not result in a reduction in the effectiveness of the Emergency Plan or its' implementing procedures. The Plan and procedures:

- Provide a range of protective actions including sheltering, evacuation and KI where applicable.
- Implement protective actions for hostile actions.
- Utilize the Evacuation Time Estimates in determining staged evacuation requirements or actions taken during a Rapidly Progressing Severe Accident
- Maintain compliance with all Federal guidance, namely Supplement 3.
- Do NOT implement any PAR process that would relax PARs that have already been relayed to the OROs and are being implement by the public
- Do NOT implement any PAR process that would restrict the most effective PAR to be implemented.
- Do NOT change the dose assessment computer programs that results in a reduction of the options available to perform assessments.

**Part IV. Description of Emergency Planning Standards, Functions and Program Elements Affected by the Proposed Change (from Attachment 4, 10 CFR 50.54 (q) Screening Form Part V):**

10 CFR 50.47(b)(10): A range of protective actions has been developed for the plume exposure pathway EPZ for emergency workers and the public. In developing this range of actions, consideration has been given to evacuation, sheltering, and, as a supplement to these, the prophylactic use of potassium iodide (KI), as appropriate. Evacuation time estimates have been developed by applicants and licensees. Licensees shall update the evacuation time estimates on a periodic basis. Guidelines for the choice of protective actions during an emergency, consistent with Federal guidance, are developed and in place, and protective actions for the ingestion exposure pathway EPZ appropriate to the locale have been developed.




**Part V. Description of Impact of the Proposed Change on the Effectiveness of Emergency Plan Functions:**

This change supports implementation of 10 CFR 50.47(b)(1) and NUREG o654, Supp 3, Rev 1.

The Plan and procedures:

- Provide a range of protective actions including sheltering, evacuation and KI where applicable.
- Implement protective actions for hostile actions.
- Utilize the Evacuation Time Estimates in determining staged evacuation requirements or actions taken during a Rapidly Progressing Severe Accident
- Maintain compliance with all Federal guidance, namely Supplement 3.
- Do NOT implement any PAR process that would relax PARs that have already been relayed to the OROs and are being implement by the public
- Do NOT implement any PAR process that would restrict the most effective PAR to be implemented.
- Do NOT change the dose assessment computer programs that results in a reduction of the options available to perform assessments.

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

<p>There timeliness associated with the responsibility of the Utility to generate Protective Action Recommendations within 15 minutes is unaffected by this change.</p> <p>This change is considered improving the effectiveness of the Site Emergency Plan.</p>		
<p><b>Part VI. Effectiveness Evaluation Conclusion</b></p> <p>Answer the following questions about the proposed change.</p>		
1 Does the proposed change comply with 10 CFR 50.47(b) and 10 CFR 50 Appendix E?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
2 Does the proposed change maintain the effectiveness of the emergency plan (for example, no reduction in effectiveness)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
3 Does the proposed change constitute an emergency action level scheme change?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
<p>If questions 1 or 2 are answered NO, or question 3 answered YES, reject the proposed change, modify the proposed change and perform a new evaluation or obtain prior NRC approval under provisions of 10 CFR 50.90. If questions 1 and 2 are answered YES, and question 3 answered NO, implement applicable change process(es).</p>		
<p><b>Part VII. Approval:</b></p>		
Preparer Name (Print) B. Westermann	Preparer Signature 	Date: 12-10-14
Reviewer Name (Print) J. Yurkion	Reviewer Signature 	Date: 12/12/14
Approver Name (Print) B. Westermann	Approver Signature 	Date: 12-12-14



**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

Tracking Number: 2014-56-5

Procedure/Document Number: Site Emergency Plan	Revision: 63
Equipment/Facility/Other: Other	
Title: Site Emergency Plan	
<p><b>Part I.</b> Description of the Activity (event or action or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Remove refrence to JAFNPP Chemistry Lab from SEP</p>	
<p><b>Part II.</b> Description and Review of Licensing Basis Affected by the Proposed Change:</p> <p>Updated Section 7.3.2 to remove reference to JAFNPP Chemistry LAB. This lab is no longer in operation and is not an option that can be used for sample analysis. New section:</p> <p>7.3.2 <u>Offsite Assessment Facility</u> (NUREG 0654 II.C.3, II.C.4, II.H.6.c, II.H.12)</p> <p>a. The offsite emergency assessment facility is the EOF. This facility is described in Site Emergency Plan, Section 7.1.4.</p> <p>b. NMPNS maintains an agreement with JAFNPP to have environmental samples evaluated by a vendor maintained by JAFNPP. Post-accident radiological samples can be sent off-site to the JAFNPP vendor in the event that the NMPNS in-plant laboratory is unavailable for any reason. If the JAFNPP vendor cannot perform the analyses or cannot handle the number of analyses required, samples can be sent to the Calvert Cliffs Nuclear Plant laboratory, located in Lusby Maryland. This laboratory also has similar capabilities to the NMPNS Health Physics laboratory. These facilities are available 24 hours per day seven days per week as needed.</p>	
<p><b>Part III.</b> Describe How the Proposed Change Complies with Relevant Emergency Preparedness Regulation(s) and Previous Commitment(s) Made to the NRC:</p> <p>The ability to perform sample analysis is still maintained through letter of agreement with JAFNPP and use of their vendor. NMP maintains an agreement through Environmental that NMP will collect environmental samples for the entire site and deliver them to JAFNPP for analysis. JAFNPP engages a contractor to perform the analysis of these samples under normal monitoring and emergency conditions.</p>	
<p><b>Part IV.</b> Description of Emergency Planning Standards, Functions and Program Elements Affected by the Proposed Change (from Attachment 4, 10 CFR 50.54 (q) Screening Form Part V):</p> <p>10 CFR 50.57(b)(9): Adequate methods, systems, and equipment for assessing and monitoring actual or potential offsite consequences of a radiological emergency condition are in use</p>	
<p><b>Part V.</b> Description of Impact of the Proposed Change on the Effectiveness of Emergency Plan Functions:</p> <p>This change maintains the effectiveness of the emergency plan as the function to be able to evaluate environmental samples is maintained by NMP, backup is provided by JAFNPP contract, and via CCNPP via intercompany support.</p> <p>There is no timeliness related to t his function.</p> <p>This change is considered as maintaining the effectiveness of the Site Emergency Plan.</p>	
<p><b>Part VI.</b> Effectiveness Evaluation Conclusion</p>	

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

Answer the following questions about the proposed change.

- |   |   |   |  |
|---|---|---|--|
| 1 | Does the proposed change comply with 10 CFR 50.47(b) and 10 CFR 50 Appendix E?  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            |
| 2 | Does the proposed change maintain the effectiveness of the emergency plan (for example, no reduction in effectiveness)? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            |
| 3 | Does the proposed change constitute an emergency action level scheme change?  | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |

If questions 1 or 2 are answered NO, or question 3 answered YES, reject the proposed change, modify the proposed change and perform a new evaluation or obtain prior NRC approval under provisions of 10 CFR 50.90. If questions 1 and 2 are answered YES, and question 3 answered NO, implement applicable change process(es).

**Part VII. Approval:**

Preparer Name (Print) B. Westermann	Preparer Signature <i>B. Westermann</i>	Date: 12-10-14
Reviewer Name (Print) K. Yurkew	Reviewer Signature <i>K. Yurkew</i>	Date: 12/12/14
Approver Name (Print) B. Westermann	Approver Signature <i>B. Westermann</i>	Date: 12-12-14

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

Tracking Number: 2014-57

Procedure/Document Number: CNG-EP-1.01-1013		Revision: 00100
Equipment/Facility/Other: Other		
Title: Emergency Classification and PAR		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Update procedure to incorporate requirements of NUREG 0654, Supplement 3, Rev 1</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>	<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p>	<p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input checked="" type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>10</b>	Fire Protection Program – Operating license condition	<input type="checkbox"/>	
<b>11</b>	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>	
<b>12</b>	Other (provide title):	<input type="checkbox"/>	
<p><b>APPLICABILITY CONCLUSION</b></p> <p><input type="checkbox"/> If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.</p> <p><input checked="" type="checkbox"/> One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.</p> <p><input type="checkbox"/> One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.</p>			
<p><b>Part IV. Editorial Change</b></p> <p>Is this activity an editorial change (refer to Editorial Definition). Check appropriate box(es) below and complete justification?</p> <p><input type="checkbox"/> Procedure Title Change</p> <p><input type="checkbox"/> Reference or annotation change</p> <p><input type="checkbox"/> Correction of location description</p> <p><input type="checkbox"/> Correction of typographical errors and punctuation</p> <p><input type="checkbox"/> Reformatting changes that do not change intent, purpose, or order of procedural steps</p> <p><input type="checkbox"/> Changes on plant drawing grid coordinates</p> <p><input type="checkbox"/> Change to position titles when no responsibilities for that position have changed</p> <p><input type="checkbox"/> Correction in page or step numbering</p> <p><input type="checkbox"/> Other (provide description)</p> <p><b>Justification:</b></p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p>	<p><input checked="" type="checkbox"/> NO Continue to next part</p>

## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input checked="" type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

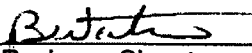
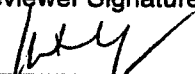

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION**

**Part VI. Approval:**

Preparer Name (Print) B. Westermann	Preparer Signature 	Date: 12/11/14
Reviewer Name (Print) K. Yurkon	Reviewer Signature 	Date: 12/12/14
Approver Name (Print) B. Westermann	Approver Signature 	Date: 12-12-14

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

Tracking Number: 2014-57

Procedure/Document Number: CNG-EP-1.01-1013	Revision: 00100												
Equipment/Facility/Other: Other													
Title: Emergency Classification and PAR													
<p><b>Part I. Description of the Activity</b> (event or action or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Update procedure to incorporate requirements of NUREG 0654, Supplement 3, Rev 1</p>													
<p><b>Part II. Description and Review of Licensing Basis Affected by the Proposed Change:</b></p> <p>This change accompanies a change to the Site Emergency Plan, SEP Rev 63. Relevant SEP Rev 63 section: 6.7.2.c</p> <p style="margin-left: 40px;">c. <u>Protective Action Guides and Recommendation of Protective Action Recommendations</u> (NUREG 0654 II.J.7, II.J.10.m)</p> <p style="margin-left: 40px;">Protective Action Guides (PAG's) identify protective actions to be taken prior to or following a significant release of radioactive material. They are based on NUREG-0654/FEMA-REP-1, Rev 1, Supplement 3, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" and Frequently Asked Questions (FAQ) documented in "EPFAQ 2013-004 Final Response". PAGs for the "plume phase" have been established by the US Environmental Protection Agency.</p> <p style="margin-left: 40px;">The numerical guides for TEDE and <math>CDE_{Thyroid}</math> (child) dose to the general public are listed below. The procedure used by NMPNS personnel in determining the appropriate protective action recommendation (PAR) is detailed in CNG-EP-1.01-1013. PARs are reviewed prior to issuance to assess their potential impact on offsite response organization activities.</p> <table border="1" style="margin-left: 40px; margin-top: 20px; border-collapse: collapse; text-align: center;"> <tr> <th colspan="3">Protective Action Guidelines</th> </tr> <tr> <th colspan="3">Early or Plume Phase</th> </tr> <tr> <th style="width:33%;"></th> <th style="width:33%;">TEDE (rem)</th> <th style="width:33%;"><math>CDE_T</math> (rem)</th> </tr> <tr> <td>Evacuate</td> <td>&gt;1</td> <td>&gt;5</td> </tr> </table>		Protective Action Guidelines			Early or Plume Phase				TEDE (rem)	$CDE_T$ (rem)	Evacuate	>1	>5
Protective Action Guidelines													
Early or Plume Phase													
	TEDE (rem)	$CDE_T$ (rem)											
Evacuate	>1	>5											
<p>The following principles guide the formulation of PARs for the NMPNS:</p> <ul style="list-style-type: none"> <li>• Evacuation is the preferred method of protecting the public in the event of a significant radiological release. EPA 400 Protective Action Guidelines are used.</li> <li>• NMPNS does consider sheltering due to Controlled Containment Venting with release durations of &lt; 1 hour and dose assessments do not exceed the EPA PAGs.</li> <li>• If determined to be appropriate by New York State or Oswego County Officials, thyroid prophylaxis may be provided to the general public. NMPNS recommendations include implementation of the KI Plan in order to be consistent with offsite plans.</li> </ul>													

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

**Part III. Describe How the Proposed Change Complies with Relevant Emergency Preparedness Regulation(s) and Previous Commitment(s) Made to the NRC:**

**Background and Scope**

In November 2011, the NRC issued Revision 1 of Supplement 3. This revision updates the previous version of Supplement 3 issued in July, 1996. Supplement 3 provides a protective action strategy development tool based on recent technical information and is intended for use by nuclear power reactor licensees to develop site-specific protective action recommendation procedures. Offsite response organizations (OROs) should use supplement 3 to develop protective action strategy guidance for decision makers. The guidance of Supplement 3 provides an acceptable method to comply with Appendix E to Part 50, Title 10 of the Code of Federal Regulation (10 CFR) Section IV, paragraph 3 in the use of evacuation time estimates in the formulation of protective action recommendations (PARs) for the plume exposure emergency planning zone, and provides guidance for the provisions of 10CFR47(b)(10) in the development of a range of PARs. Supplement 3 also provides guidance to support the information in NUREG-0654/FEMA-REP-1 that the U. S. Nuclear Regulatory Commission finds to be an acceptable method of meeting the requirements of 10 CFR 40 50.47(b)(7) for the development of a public information program.

On August 12, 2012 Frequently Asked Question (FAQ) 2012-005 was submitted to the NRC for clarification of the required implementation date. FAQ 1012-005 was answered by the NRC. This FAQ set the implementation date of the Supplement 3 requirements as no later than 12/23/2014.

This evaluation is for the implementation of Revision 1 of Supplement 3 of NUREG 0654, "Criteria for Preparation and Evaluation for Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants".

As part of the development process, the Nuclear Energy Institute (NEI) held numerous meetings with the NRC to develop guidance for the power plants for the implementation of Supplement 3. From those meetings, NEI developed and issued document NEI 12-10, "Guideline for Developing a Licensee Protective Action Recommendation Procedure Using NUREG-0654 Supplement 3", Revision 0. This document was never endorsed by the NRC though the NRC was provided copies of the document and the document content was used extensively when meeting with the NRC.

During the review of Supplement 3 and the development of NEI 12-10, questions were asked of the NRC for interpretation of the meaning of specific terms or requirements. Those questions were ultimately submitted to the NRC as part of the Frequently Asked Question (FAQ) process. Two sets of questions were submitted; one for the implementation date and eight additional questions related to the actual content of the document. Answers were returned by the NRC to all the questions.

**Off-site Response Organization Involvement**

Supplement 3 encourages the utilities to engage the off-site organizations in the development of the procedures and processes used to implement the Protective Action Recommendation (PAR) process. NEI 12-10 was developed to help meet this requirement. NEI 12-10 essentially broke down the requirements of Supplement 3 into distinct questions. These questions were then answered and either proposed directly to Oswego County or answers were developed with the help of Oswego County. Either way, answers were developed that both the licensee and Oswego County agreed to. Copies of NEI 12-10 are included as Attachment A to this evaluation and provide responses to each set of questions. Since the NEI 12-10 document was never endorsed by the NRC, the document was used as a guidance tool to help gather information and determine how to implement given portions of Supplement 3 in procedures, flowchart, forms, etc.



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Copies of the letter obtained from Oswego County is included in this evaluation as Attachment B indicating the participation and understanding of the process developed by the licensee based on the discussions. Oswego County ultimately understood that they were not bound by the utility supplied PAR and would make decisions based on provided data and plant conditions during the event, which could exceed or contradict PAR's supplied by the licensee.

This change is considered as complying with 10 CFR 50.47(b)(10) and NUREG 0654, Supplement 3, Rev 1

**Part IV. Description of Emergency Planning Standards, Functions and Program Elements Affected by the Proposed Change (from Attachment 4, 10 CFR 50.54 (q) Screening Form Part V):****10 CFR 50.47(b)(10) - Emergency Protective Actions**

A range of protective actions has been developed for the plume exposure pathway EPZ for emergency workers and the public. In developing this range of actions, consideration has been given to evacuation, sheltering, and, as a supplement to these, the prophylactic use of potassium iodide (KI), as appropriate. Evacuation time estimates have been developed by applicants and licensees. Licensees shall update the evacuation time estimates on a periodic basis. Guidelines for the choice of protective actions during an emergency, consistent with Federal guidance, are developed and in place, and protective actions for the ingestion exposure pathway EPZ appropriate to the locale have been developed.

- A range of public PARs is available for implementation during emergencies.
- Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities.
- A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.

Appendix E to 10 CFR 50 does not contain any support requirements. Informing criteria appear in NUREG-0654 in Sections II.J.1-8, Section II.J.10, and Supplement 3 and in the licensee's emergency plan.

**Part V. Description of Impact of the Proposed Change on the Effectiveness of Emergency Plan Functions:**

Implementation of NUREG 0654, Supplement 3 does not result in a reduction in the effectiveness of the Emergency Plan or its' implementing procedures. The Plan and procedures:

- Provide a range of protective actions including sheltering, evacuation and KI where applicable.
- Implement protective actions for hostile actions.
- Utilize the Evacuation Time Estimates in determining staged evacuation requirements or actions taken during a Rapidly Progressing Severe Accident
- Maintain compliance with all Federal guidance, namely Supplement 3.
- Do NOT implement any PAR process that would relax PARs that have already been relayed to the OROs and are being implemented by the public.
- Do NOT implement any PAR process that would restrict the most effective PAR to be implemented.
- Do NOT change the dose assessment computer programs in a way that results in a reduction of the options available to perform assessments.

**Implementation**

The following points are taken directly from Supplement 3 and provide a summation of the implementation evaluation results. Additional detail can be found in NMP's NEI 12-10 document.

**1. Notification of PAR's at a General Emergency**

The requirement to include PAR's within 15 minutes of the classification of a General Emergency remained unchanged. Implementation of the new PAR process continues to meet this requirement and therefore does not constitute a reduction in effectiveness of the emergency plan or its' implementing procedures.

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**2. Termination of Protective Actions**

The requirements for termination of protective actions remained unchanged with the implementation of the new PAR process. Implementation of the new PAR process does not constitute a reduction in effectiveness of the emergency plan or its' implementing procedures.

**3. Precautionary Protective Actions at a Site Area Emergency**

Nine Mile Point does not have an agreement to issue Protective Action Recommendations outside a General Emergency. This option within Supplement 3 is not applicable to NMP.

**4. Wind Persistence**

Wind persistence studies were completed to determine if wind direction changes could occur during the evacuation that would cause the licensee, and therefore the off-site organizations, to revise the PAR before the evacuation was completed. This is discussed in section 2.5 of Supplement 3. As stated in Supplement 3:

*Multiple changes in protective action direction may undermine credibility and increase shadow evacuations and thereby increase evacuation times. In such cases, it may be appropriate to include more than three downwind sectors in an expanded evacuation.*

The following table summarizes the number of sectors that were applied to NMP's initial PAR based on the wind persistence study results.

Site Name	Number of Sectors	Wind Persistence Study EP Calculation ID
Nine Mile	Downwind sector + 2 on each side	EP-PAR-0403, Rev 0

The wind persistence was only applied to the initial PAR process for NMP. Any subsequent PAR uses the standard downwind sector + 1 sector on each side.

Copies of NMP's study have been assigned an EP Calculation ID number for record keeping purposes. ID Number is identified in the above table. The implementation of the studies is included in attachments to NMP's NEI 12-10 document.

Since Wind Persistence studies were allowed to be completed and applied per Supplement 3, Section 2.5, modifying the initial PAR to meet the study results is not considered a reduction in effectiveness of the emergency plan or the implementing procedures.

**5. Impediments to Evacuation**

Supplement 3 defines impediments to evacuation as:

- A) Evacuation Support (traffic control)
- B) Hostile Actions

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form****C) Weather or Natural Causes**

Each is discussed in detail below

**A) Evacuation Support**

Supplement 3, Page A-3, Note 2 discusses the need for Evacuation Support. The note includes the following statements:

*"Many sites have a low population density within 2 miles, and a lack of traffic control may not be considered an impediment. The licensee and OROs should discuss this element and reach an agreement."*

The option of including a sheltering delay time for implementation of Evacuation Support and a subsequent evacuation PAR when support was in place was discussed with Oswego County. It was determined that this consideration was unnecessary and not prudent. Oswego County concluded they would evaluate the existing traffic conditions at the time of the event and make its determination based on real-time data that would be unavailable to the licensee. Therefore, no considerations were placed in any procedures or flowcharts. These discussions with the states are documented in the NEI 12-10 documents for each site.

Not implementing this option is not considered a reduction in effectiveness of either the emergency plan or implementing procedures since it meets the requirements of Supplement 3.

**B) Hostile Actions**

Hostile Actions are considered a form of impediment to evacuation as outlined in Supplement 3, Page A-3, Note 2. Hostile Actions are considered separate forms of PARs and have a dedicated PAR process within the procedures and PAR flowcharts.

See the section on Initial Protective Actions and Hostile Actions for details relative to how PARs for Hostile Actions are initially implemented.

See the section on Expansion of Initial Protective Action Recommendations and Changes in Impediments Status for Hostile Action PAR updates

**C) Weather or Natural Causes**

Impediments of this type are discussed in detail in Supplement 3, Page A-3, Note 2. The third bullet describes this type of impediment as follows:

*In the event of adverse weather, licensees are not responsible for soliciting information or for making a determination that weather or other impediments (e.g., an earthquake or wildfire) for safe public evacuation exist at the time of the emergency. However, the licensee will consider an impediment to exist if OROs have previously notified it of such an impediment (e.g., roadways are closed because of deep snow). During the planning process, OROs may determine that the licensee does not need to consider adverse weather in its plant PAR procedures.*

The need for the consideration of this type of impediment was discussed with Oswego County and New York State and is documented in the NEI 12-10 documentation. The determination was made that inclusion of this requirement by the licensee into the process was inappropriate since they would not have adequate information available to them to make an informed decision.

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Since implementation of the impediments related to weather or other natural phenomenon is optional in Supplement 3 and must be agreed upon by the County, State, and licensee, the exclusion of this does not result in a reduction in effectiveness of the emergency plan or its implementing procedures.

**6. Staged Evacuation**

One of the more significant results of the NRC Advisory Committee on Reactor Safeguards review of the NRC PAR study, as discussed in Supplement 3, Section 1.4, was the conclusion that :

*"Staged evacuation is the preferred initial protective action in response to a General Emergency and should be considered.*

*Staged evacuation is more protective than immediate radial evacuation in many scenarios because it limits the exposure of those individuals closest to the plant. In some scenarios, the improved benefit is not large; however, in most every case, a staged evacuation speeds decision making, decreases demand on ORO traffic control and reception center resources, simplifies initial protective actions, and reduces public disruption."*

During the development of the NEI 12-10 document, the working group had questions about the need to incorporate staged evacuation in all cases, especially sites that had relatively sparse populations or where ETEs were small. This was driven by the box in Supplement 3, Page A-2, which states:

*"Evacuate 2 mile radius and SIP [Shelter in Place] 5 miles downwind, all others monitor, and prepare"*

From discussions with the off-site organizations, there was considerable concern that sheltering members of the public from 2 – 5 miles downwind would involve a very small population that had little or no effect on either groups' evacuation times and would only make the process more confusing and cumbersome. This process also seemed to contradict what was being said relative to the Rapidly Progressing Severe Accident, where if 90% of the entire EPZ can evacuate in < 3 hours, evacuation was the most appropriate protective action with no restrictions. Because of these concerns, FAQ 4 of EPFAQ 2014-004 was developed. This question discussed the conditions when staged evacuation is appropriate. The NRC response concluded that:

*"Licensees may compare the ETE results for a keyhole evacuation versus a staged evacuation and in some cases perform a site-specific dose based analysis to show the efficacy of alternate protective action strategies."*

As part of the development of the NEI 12-10 guidance document, the developers of the ETE's, along with the NEI working group, developed a method to determine the efficacy of staged evacuation at each site using ETE values for given areas. This methodology is discussed and evaluated in Appendix D of NEI 12-10. A summation of the results for the need to implement staged evacuation is in the following table:

Site	Staged Evacuation	Evac Expiration Time
Nine Mile	None	N/A

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Implementation of this requirement meets the intent of Supplement 3, Section 1.4 and FAQ 4 and therefore is not considered a reduction in effectiveness of the emergency plan or its' implementing procedures.

**7. Monitor and Prepare**

A change was made to all the notification forms to modify the wording relating to the addition of the term Monitor and Prepare. Monitor and Prepare is defined in Supplement 3, Section 4 as:

*A type of precautionary action intended to advise the public within the EPZ that a serious emergency at the nuclear power plant exi[s]ts and that it should monitor the situation and prepare for the possibility of evacuation, SIP, or other protective actions. Further, if an evacuation is underway, officials should ask individuals who are not involved in the evacuation to remain off the roadways to allow those who are instructed to evacuate to do so.*

The existing PAR notification forms used non-standard wording such as "advise the remainder of the EPZ to monitor EAS Messages" and "advise the remainder of the EPZ to monitor local radio stations". The PAR notification forms were updated to use the new terminology to coincide with Supplement 3 using the term "Monitor and Prepare".

Since this change brings the notification forms into compliance with the new Supplement 3 wording, it is not considered a reduction in effectiveness of the emergency plan or its' implementing procedures.

**8. Initial Protective Action Recommendations**

There are 3 basic initial Protective Action Recommendations that can be generated based on plant conditions. They are:

- a) Rapidly Progressing Severe Accident (RPSA)
- b) Hostile Action
- c) All other General Emergencies

The initial protective action determines all subsequent PARs. Each PAR is unique to the type of accident that is occurring and each type takes precedence over the other in the order listed above. Once one is met, the others are not evaluated. The definition and PAR for each is discussed below.

**a) Rapidly Progressing Severe Accident**

The Rapidly Progress Severe Accident (RPSA) is a new concept in PARs that was introduced with this revision of Supplement 3. The definition of an RPSA is discussed in Section 2.7 and states:

*"The emergency preparedness planning basis includes rapidly progressing scenarios that have a significant radioactive release in about 1 hour."*

Additionally, Supplement 3, Page A-1, Note 1 states:

*"A rapidly progressing severe incident is a General Emergency with a rapid loss of containment integrity (emergency action levels indicate containment barrier loss) and loss of the ability to cool the core. This path is used for scenarios in which containment integrity can be determined as by passed or immediately lost during a GE with core damage. If this scenario cannot be immediately confirmed, assume it is not taking place and answer no to this decision."*

As part of the NEI development process there was considerable effort expended in determining a more consistent definition of the ability to cool the core. EPFAQ 2013-004, FAQ 1, was submitted

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to the NRC for clarification. The NRC responded and provided a formalized set of criteria. They are:

1. *This protective action recommendation is the first after a General Emergency has been declared*

**AND**

2. *There is a loss of the containment barrier per the Emergency Action Levels*

**AND**

3. *Either of the following:*

- a. *Greater than or equal to Containment High Range Area Radiation Monitor Potential Loss EAL Threshold (20% Clad Damage)*

**OR**

- b. *A significant radiological release (greater than PAGs at boundary) in about an hour*

This same logic has been built into the PAR flowcharts but simplified to make it easier to follow.

1. The determination of "*This protective action recommendation is the first after a General Emergency has been declared*" has been implemented by only having the determination on the first page of the PAR flowcharts which is used only for the initial PAR.
2. The determination of "*There is a loss of the containment barrier per the Emergency Action Levels*" was maintained without modification since it is well defined in the Fission Product Barrier matrix of each sites EAL's.
3. Part "a" was implemented by using the High Range Radiation Monitor Potential Loss value in the EALs. This value is equivalent to 20% clad damage. Using the value instead of the generic statement supplied in the NRC response makes the determination less error likely.
4. Part "b" was implemented by using the statement, "Have the conditions for EAL RG1 been met". RG-1 is comprehensive in that it looks at 3 methods for determining if PAG's have been exceeded at or beyond the site boundary. They are:
  - Exceeding EAL Table R1 Values
  - Exceeding PAG's based on dose assessment results
  - Exceeding the PAGs based on field team readings

All three are an indication of a significant radiological release in about an hour.

Because of the severity of an accident associated with an RPSA, the PARs take in a downwind distance to 10 miles. However, there is contradictory instruction in Supplement 3 relative to what the PAR should actually be. Section 2.7 states:

*"For sites at which the 90-percent ETE for the general public of the full EPZ is less than approximately 3 hours, results showed that, for the rapidly progressing scenario,*

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*evacuation is the most appropriate protective action."*

In contrast to the Section 2.7 statements, Note 9 on page A-5 state:

*"The licensee should issue an evacuation PAR in scenario for which the 2 to 5 mile downwind sector evacuation time for 90-percent completion is 3 hours or less. If the ETE is longer, the licensee should recommend SIP."*

*"For all cases, the licensee should recommend SIP for the 5 to 10 mile downwind sectors."*

When developing the NEI 12-10 document, the NEI working group decided to use the statements in Section 2.7 as the relevant guidance since Supplement 3, Attachment A has statement such as:

*"Licensees for each nuclear power plant should develop site-specific strategies and decision tools/procedures for the site using the guidance provided below in collaboration with OROs responsible for protective action decision making."*

*The information in these notes that should be considered in developing the strategy is labeled as "Note." Background information is labeled as "Background Note" and is meant to be helpful in development efforts."*

Therefore, when developing the PARs for a RPSA, if the 90-percent ETE for the entire EPZ is about 3 hours or less, the PAR is to evacuate; essentially it is always considered to be "Safer to do so" and no discussions with the states are required during the accident. If the value was greater than about 3 hours, an evaluation was performed and is included in the NEI 12-10 document for each site. NMP has a 90% ETE <3 Hours.

Since implementation of the Rapidly Progressing Severe Accident and the associated PARs is a requirement of Supplement 3, this is not considered a reduction in effectiveness of the emergency plan or its' implementing procedures.

**b) Hostile Action**

Supplement 3 treats Hostile Actions as a form of impediment to evacuation. This is addressed in the second bullet in Note 2 on Page A-2. It states:

*In a hostile-action-based GE (armed Attack), OROs may determine that an initial recommendation to shelter in place (SIP) rather than evacuation is the preferred path. The licensee would discuss this element with the OROs and reach an agreement during the development process. The licensee would base procedures on the agreement and would not confer with the OROs before making the initial PAR notification."*

Discussions were held with Oswego County and New York State to determine the proper PAR during a hostile action event. Note that the reason for the General Emergency declaration does not have to be due to the Hostile Action Event. If any classifiable Hostile Action Event is occurring at the site, the hostile action event PAR will be implemented. The only exception is the Rapidly Progressing Severe Accident that takes precedence over the Hostile Action. All agreed that the initial PAR would be to Shelter a 5 mile radius. All also agreed that any subsequent PAR should be to Evacuate a 2 mile radius and any area beyond 2 miles should a dose assessment for an actual release exceed the EPA PAG's. Not all areas downwind will immediately be evacuated in a Hostile Action event should PAG's be exceeded. The off-site organizations were concerned that evacuating areas where PAGs were not exceeded would increase the number of people exiting the

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affected areas and could interfere with law enforcement actions. The off-site organizations felt evacuation of only those areas where PAGs were exceeded was sufficient.

If the conditions for evacuation exist during a Hostile Action event (PAGs exceeded), it is possible that staged evacuation may be necessary. The NEI working group, along with the ETE vendor, developed a method for the determination as to whether Staged Evacuation was necessary or not. The evaluation was included in NEI 12-10. Staged evacuations are not required at Nine Mile Point.

If, during the event, the Hostile Action is terminated at the site, the flowcharts revert back to the "All other GE processes" as described on the individual site PAR flowcharts.

Logic has been built into all the PAR flowcharts reflecting these agreements.

Since implementation of the Hostile Action and the associated PARs is a requirement of Supplement 3, this is not considered a reduction in effectiveness of the emergency plan or its' implementing procedures

**c) All other General Emergencies**

If the conditions for a Rapidly Progressing Severe Accident or a Hostile Action event are not met, then all other initial PARs will be based on plant conditions or what is referred to as "All other General Emergencies"

The All other General Emergency initial PAR process includes provisions to make Protective Action Recommendations for short term releases that were previously covered under RIS 2005-08.

Because it was not clear in Supplement 3 as to whether the requirements of RIS 2005-08 were still applicable, FAQ 2 of EPFAQ 2013-004 was asked to the NRC with the following answer:

*"Controlled venting could affect an area beyond initial evacuation orders. It is difficult to identify scenarios, other than controlled venting, that would include a short term release of known duration. In any case, augmented ERO radiological staff and decision makers should be aware of the possibility. A decision could be made in such cases to SIP for a short duration release, but such considerations would not be appropriate for control room guidance."*

The requirements of the RIS have not changed and therefore continue to be in the PAR flowcharts. Nor have the evacuate/shelter thresholds changed based on agreements. These continue to be if the expected dose is < PAGs, then shelter, otherwise evacuate.

The flowcharts have been updated to indicate that if the Protective Action Recommendation is being developed from the Control Room, then the PAR would be to evacuate. This is based on the NRC response to FAQ 2 as stated above.

No staged evacuation was required for Nine Mile Point. The initial PAR will be to evacuate a 2 mile radius and evacuate 2 – 5 miles downwind. The number of downwind sectors was based on the Wind Persistence study.

Since implementation of a PAR process that does not meet the requirements of a Rapidly Progressing Severe Accident or a Hostile Action is a requirement of Supplement 3, this is not considered a reduction in effectiveness of the emergency plan or its' implementing procedures

**6. Expansion of Initial Protective Action Recommendations**

Logic was developed for nine Mile Point relative to the expansion of PARs. Expansion of a PAR from the initial PAR can occur for any of the following reasons:



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- a. Change in Plant Conditions
- b. Change in Wind Directions
- c. Dose Assessment Exceeding the EPA Protective Action Guidelines (PAGs)

**a) Change in Plant Conditions**

Changes in plant conditions can result in a change to the protective action recommendations. Changes in conditions when related to PAR expansion was defined in the NRC's response to FAQ 6, in "EPFAQ 2013-004 Final Response" as follows:

*The plant is in a degraded or unknown condition if the conditions for General Emergency remain (i.e., if a General Emergency would be declared based upon the current conditions)*

If a General Emergency had been previously declared and subsequently conditions for a GE did not exist for a period of time, the wind direction could shift into downwind areas that would not currently be under a protective action (see change in Wind Directions below). If the conditions for the declaration of a GE were re-established, then a PAR upgrade would be immediately required.

Implementation of this requirement meets the intent of Supplement 3 and FAQ 6 and therefore is not considered a reduction in effectiveness of the emergency plan or its' implementing procedures.

**b) Change in Wind Directions**

If a change in wind direction occurs, Supplement 3, Section 2.6 requires evaluation of containment with a large source term be performed to determine if downwind areas should be evacuated or sheltered. How this evaluation was to be performed however was not clearly stated. FAQ 6, of EPFAQ 2013-004 was generated with the follow response:

*"The intent of guidance in Supplement 3, section 2.6 is to eliminate unnecessary protective actions."*

*"...evacuation of the public not at risk of exceeding EPA protective action guides is counterproductive. However, expansion of the PARs should be recommended if the licensee believes that containment may fail due to continuing degraded or unknown adverse plant conditions. The plant is in a degraded or unknown condition if the conditions for a General Emergency remain (i.e., if a General Emergency would be declared based upon current conditions). It is not intended that PARs be expanded with every wind shift if the General Emergency EAL are not met, even though the plant has not terminated the General Emergency."*

Therefore, if the conditions for the declaration of a General Emergency per the Emergency Action Levels (not just if the site is in a General Emergency) exist at the time of a wind direction change that affects new downwind areas, the PAR will be revised to include the new downwind areas.

The Rapidly Progressing Severe Accident affects areas to ten miles and all other GE conditions to five miles, with the exception of the Hostile Action event that is discussed in detail within this document.

Implementation of this requirement meets the intent of Supplement 3 and FAQ 6 and therefore is not considered a reduction in effectiveness of the emergency plan or its implementing procedures.

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**c) Dose Assessment Exceeding the EPA Protective Action Guidelines (PAGs)**

Supplement 3, Section 2.6 discusses the expansion of PARs to areas where the EPA PAGs have been exceeded.

*"Licensees will perform radiological assessments throughout the emergency and will recommend to OROs the need to take or expand protective actions if dose projections show that protective action criteria could be exceeded."*

Exceeding the PAGs automatically meets the criteria for meeting the conditions of a General Emergency via EAL RG-1. As such, downwind areas will automatically be placed under protective actions (see the discussions on changes in Plant Conditions and Wind Directions). However, due to other conditions such as terrain modeling or additional meteorological inputs that are modeled into the URI dose assessment computer programs, areas other than those that are directly downwind could exceed the PAG's. These areas would then have PAR's applied to them.

Implementation of this requirement meets the intent of Supplement 3, Section 2.6 and therefore is not considered a reduction in effectiveness of the emergency plan or its' implementing procedures.

The evaluation provided in Attachment A determined that the proposed change meets the requirements of 10 CFR 50.47(b)(10), and maintains the effectiveness of the Emergency Plan.

The requirement to generate PARS and notify responsible offsite agencies within 15 minutes is not affected by this change.

this change is considered as enhancing the effectiveness of the Site Emergency Plan as it updates the PAR process to be in compliance with 10 CFR 50.47(b)(10) and NUREG 0654, Supplement 3, Rev 1.


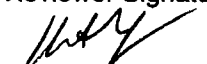
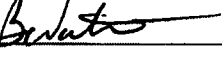
**Part VI. Effectiveness Evaluation Conclusion**

Answer the following questions about the proposed change.

1	Does the proposed change comply with 10 CFR 50.47(b) and 10 CFR 50 Appendix E?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
2	Does the proposed change maintain the effectiveness of the emergency plan (for example, no reduction in effectiveness)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
3	Does the proposed change constitute an emergency action level scheme change?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

If questions 1 or 2 are answered NO, or question 3 answered YES, reject the proposed change, modify the proposed change and perform a new evaluation or obtain prior NRC approval under provisions of 10 CFR 50.90. If questions 1 and 2 are answered YES, and question 3 answered NO, implement applicable change process(es).

**Part VII. Approval:**

Preparer Name (Print) B. Westermann	Preparer Signature 	Date: 12/11/14
Reviewer Name (Print) K. Furkan	Reviewer Signature 	Date: 12/16/14
Approver Name (Print) B. Westermann	Approver Signature 	Date: 12-16-16

Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-49

Procedure/Document Number: CNG-EP-1.01-1015 & EP-Form-ALL28		Revision: 00100 & R0
Equipment/Facility/Other: Facility		
Title: Emergency Notifications		
<p><b>Part I. Description of the Activity (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</b></p> <p>Change reference to alternate facilities to alternative facilities for emergency notifications .</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes (may be accomplished by a separate Applicability Determination procedure)</b></p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are NOT to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>10</b>	Fire Protection Program – Operating license condition	<input type="checkbox"/>
<b>11</b>	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
<b>12</b>	Other (provide title):	<input type="checkbox"/>
<p><b>APPLICABILITY CONCLUSION</b></p> <p><input type="checkbox"/> If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.</p> <p><input checked="" type="checkbox"/> One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.</p> <p><input type="checkbox"/> One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.</p>		
<p><b>Part IV. Editorial Change</b></p> <p>Is this activity an editorial change (refer to Editorial Definition). Check appropriate box(es) below and complete justification?</p> <p><input type="checkbox"/> Procedure Title Change</p> <p><input type="checkbox"/> Reference or annotation change</p> <p><input checked="" type="checkbox"/> Correction of location description</p> <p><input type="checkbox"/> Correction of typographical errors and punctuation</p> <p><input type="checkbox"/> Reformatting changes that do not change intent, purpose, or order of procedural steps</p> <p><input type="checkbox"/> Changes on plant drawing grid coordinates</p> <p><input type="checkbox"/> Change to position titles when no responsibilities for that position have changed</p> <p><input type="checkbox"/> Correction in page or step numbering</p> <p><input type="checkbox"/> Other (provide description)</p> <p><b>Justification:</b></p> <p><b>The ERO will be directed to staff the alternative emergency facilities instead of the alternate emergency facilities.</b></p>		<p><input checked="" type="checkbox"/> <b>YES</b> 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input type="checkbox"/> <b>NO</b> Continue to next part</p>

## Attachment 4, 10 CFR 50.54 (q) Screening Form

Part V. Regulatory Requirement/Emergency Planning Element/Function Screening (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

## Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>



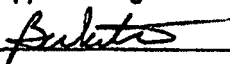
**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION**

The ERONS notification details change from directing the ERO to staff the alternate emergency facilities to the alternative emergency facilities. Just a one-word change to line-up with the name of the facility.

**Part VI. Approval:**

Preparer Name (Print) Julie Gillard	Preparer Signature 	Date: 12/4/2014
Reviewer Name (Print) Katie Yurkon	Reviewer Signature 	Date: 12/4/14
Approver Name (Print) Bubsterman	Approver Signature 	Date: 12-4-14

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

Tracking Number: 2014-50

Procedure/Document Number: EP-AA-112-200-F-19		Revision: B
Equipment/Facility/Other: Alternative Facility		
Title: Emergency Special Procedure Form		
<p><b>Part I. Description of the Activity (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</b></p> <p>Implement form for Alternative Facility.</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>10</b>	Fire Protection Program – Operating license condition	<input type="checkbox"/>
<b>11</b>	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
<b>12</b>	Other (provide title):	<input type="checkbox"/>
<p><b>APPLICABILITY CONCLUSION</b></p> <p><input checked="" type="checkbox"/> If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.</p> <p><input type="checkbox"/> One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.</p> <p><input type="checkbox"/> One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.</p>		
<p><b>Part IV. Editorial Change</b></p> <p>Is this activity an editorial change (refer to Editorial Definition). Check appropriate box(es) below and complete justification?</p> <p><input type="checkbox"/> Procedure Title Change</p> <p><input type="checkbox"/> Reference or annotation change</p> <p><input type="checkbox"/> Correction of location description</p> <p><input type="checkbox"/> Correction of typographical errors and punctuation</p> <p><input type="checkbox"/> Reformatting changes that do not change intent, purpose, or order of procedural steps</p> <p><input type="checkbox"/> Changes on plant drawing grid coordinates</p> <p><input type="checkbox"/> Change to position titles when no responsibilities for that position have changed</p> <p><input type="checkbox"/> Correction in page or step numbering</p> <p><input checked="" type="checkbox"/> Other (provide description)</p> <p><b>Justification:</b></p> <p><b>50.54q 2014-34 was performed on the Emergency Plan for implementation of the EP-AA-112-700 series procedures and checklist. This form is used in the Alternative Facility – Technical Manager checklist. No further action is required.</b></p>		<p><input checked="" type="checkbox"/> <b>YES</b> 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input type="checkbox"/> <b>NO</b> Continue to next part</p>



## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

## Attachment 4, 10 CFR 50.54 (q) Screening Form


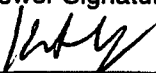

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.

If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION****Part VI. Approval:**

Preparer Name (Print) Julie Gillard	Preparer Signature 	Date: 12/4/14
Reviewer Name (Print) Katie Yurkon	Reviewer Signature 	Date: 12/4/14
Approver Name (Print) B. Westerman	Approver Signature 	Date: 12-10-14

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

Tracking Number: 2014-67

Procedure/Document Number: EPMP-EPP-13		Revision: 00400
Equipment/Facility/Other: Other		
Title: Equipment Important to Assuring the Implementation Capability of the Emergency Preparedness Program		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Superceed EPMP-EPP-13 with EP-AA-121 &amp; EP-CE-121-1004</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input checked="" type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

10	Fire Protection Program – Operating license condition	<input type="checkbox"/>
11	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
12	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
- One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.

**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition). Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

**EPMP-EPP-13 will be superseded by EP-AA-121 and EP-CE-121-1004. A one for one comparison was completed for these procedures and no information was lost between the two sets of procedures. Therefore this is considered an editorial change to incorporate EPMP-EPP-13 into Fleet procedure and format.**

YES  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

NO  
Continue to  
next part

## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>




**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION**

EPMP-EPP-13 will be superseded by EP-AA-121 and EP-CE-121-1004. A one for one comparison was completed for these procedures and no information was lost between the two sets of procedures. Therefore this is considered an editorial change to incorporate EPMP-EPP-13 into Fleet procedure and format.

**Part VI. Approval:**

Preparer Name (Print) B. Westermann	Preparer Signature 	Date: 12/18/14
Reviewer Name (Print) K. YORIKON	Reviewer Signature 	Date: 12/19/14
Approver Name (Print) B. Westermann	Approver Signature 	Date: 12/19/14

Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-53

Procedure/Document Number: EP-ChLst-EOF02	Revision: <u>04602</u>		
Equipment/Facility/Other: None			
Title: EOF Manager			
<p><b>Part I. Description of the Activity (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</b></p> <p>Added the following steps:                  2.1.10 <b>IF</b> the EOF is, or becomes uninhabitable, <b>THEN</b> the Emergency Director will transfer Command and Control responsibility back to the Control Room.                  A. The following are the preferred alternative locations for EOF personnel in the event the EOF becomes uninhabitable or otherwise unavailable:  <input type="checkbox"/> For Calvert Cliffs, consider relocation to the College of Southern Maryland, Prince Frederick Campus, 115 J.W. Williams Road, Prince Frederick, Md.  <input type="checkbox"/> For Ginna, consider relocation to the Nine Mile Point EOF, located on County Route 176, just outside Fulton, NY, adjacent to the Oswego County Airport.  <input type="checkbox"/> For Nine Mile Point, consider relocation to the Ginna EOF, located at 1255 Research Forest, Macedon, NY</p>			
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <input type="checkbox"/> Conforming document attached (optional)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; padding: 5px; vertical-align: top;"> <input type="checkbox"/> YES                      50.54(q)(3)                      Evaluation is NOT required. Enter justification below and complete Part VI                 </td> <td style="width:50%; padding: 5px; vertical-align: top;"> <input checked="" type="checkbox"/> NO Continue to next part                 </td> </tr> </table>	<input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI	<input checked="" type="checkbox"/> NO Continue to next part
<input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI	<input checked="" type="checkbox"/> NO Continue to next part		
<p><b>Part III. Applicability to Other Regulatory Change Control Processes (may be accomplished by a separate Applicability Determination procedure)</b></p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>			
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>	
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>	
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>	
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>	

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>
10	Fire Protection Program – Operating license condition	<input type="checkbox"/>
11	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
12	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
- One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.

**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition).  
Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

YES  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

NO  
Continue to  
next part



## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

## Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

## EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

## BASIS FOR CONCLUSION

The additional steps to this checklist are to support IER 13-10, Recommendation 7 which addresses staffing and rotations plans for long-duration events and Recommendation 9 which is to address or describe providing accommodations for personnel for long-duration events of more than 10 days. This recommendation is an action that is beyond design basis and not part of the Emergency Plan. This change does not affect any of the planning standards or program elements in Part V of this form or other applicable regulations as described within the Emergency Plan. No further evaluation is required for this change.

## Part VI. Approval:

Preparer Name (Print) <i>Katie Yurkon</i>	Preparer Signature <i>[Signature]</i>	Date: <i>12/4/14</i>
Reviewer Name (Print) <i>B. Westerman</i>	Reviewer Signature <i>[Signature]</i>	Date: <i>12-8-14</i>
Approver Name (Print) <i>B. Westerman</i>	Approver Signature <i>[Signature]</i>	Date: <i>12-8-14</i>

Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-52

Procedure/Document Number: EP-ChLst-EOF05		Revision: 01
Equipment/Facility/Other: None		
Title: EOF Administrative / Logistics Coordinator Checklist		
<p><b>Part I. Description of the Activity (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</b></p> <p>Added the following steps to support IER 13-10, Recommendation 7 and 9:</p> <p>2.3.6 If the HR Crisis Management Team is established, <b>then CONTACT</b> the HR Crisis Team Leader and <b>ENSURE</b> that relief/rotation schedules consider actions taken to support personnel adversely impacted by the event. (IER 13-10 Rec 9)</p> <p>2.3.7 If personnel are expected to remain at the site for an extended period of time due to an event that has caused or is expected to cause wide-spread disruption of local services and/or infrastructure in the vicinity of the site, <b>then ASSIST</b> the affected site in obtaining food, water, and other supplies, as required. (IER 13-10 Rec 7)</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>	<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p>	<p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes (may be accomplished by a separate Applicability Determination procedure)</b></p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in	<input type="checkbox"/>

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

	the amendment) – 10 CFR 50.90	
10	Fire Protection Program – Operating license condition	<input type="checkbox"/>
11	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
12	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
- One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.

**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition).  
Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

YES  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

NO  
Continue to  
next part

## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

## Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

## EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION

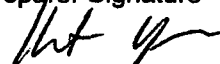
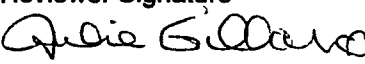

If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.

If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

## BASIS FOR CONCLUSION

The additional steps to this checklist are to support IER 13-10, Recommendation 5 which is to implement emergency and accident response strategies for an extreme external event. These actions are beyond design basis and do not affect any of the planning standards or program elements in Part V of this form or other applicable regulations as described within the Emergency Plan. No further evaluation is required for this change.

## Part VI. Approval:

Preparer Name (Print) KATIE YURIKON	Preparer Signature 	Date: 12/4/14
Reviewer Name (Print) Julie Gillard	Reviewer Signature 	Date: 12/5/14
Approver Name (Print) B. Westerman	Approver Signature 	Date: 12-8-14

Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-51

Procedure/Document Number: EP-ChLst-TSC15	Revision: 01		
Equipment/Facility/Other: None			
Title: TSC Administrative Staff Checklist			
<p><b>Part I. Description of the Activity (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</b></p> <p>Added the following steps to support IER 13-10, Recommendation 7 and 9:</p> <p>2.3.3 <b>IF</b> personnel are expected to remain at the site for an extended period of time due to an event that has caused or is expected to cause wide-spread disruption of local services and/or infrastructure in the vicinity of the site, <b>THEN</b> obtain support for these additional personnel, as follows: (IER 13-10 Rec 9)</p> <p style="margin-left: 20px;">A. Contact offsite support for food and water to be brought to site.</p> <p style="margin-left: 20px;">B. Arrange for sleeping area(s) to be established.</p> <p>2.3.4 Coordinate relief /continual staffing in support of the Control Room, TSC, and OSC: (IER 13-10 Rec 7)</p> <p style="margin-left: 20px;">A. <b>IF</b> the event is likely to require long-term staffing of the TSC/OSC, <b>THEN</b>:</p> <p style="margin-left: 40px;">1) Coordinate with the EOF Admin Logistics Coordinator to obtain required support from other fleet locations, utilities, or vendors to supplement the available site staff.</p> <p style="margin-left: 40px;">2) <b>IF</b> the HR Crisis Management Team is established, <b>THEN</b> contact the HR Crisis Team Leader and ensure that relief/rotation schedules consider actions taken to support personnel adversely impacted by the event.</p>			
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; padding: 5px;"> <input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI                 </td> <td style="width:50%; padding: 5px;"> <input checked="" type="checkbox"/> NO Continue to next part                 </td> </tr> </table>	<input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI	<input checked="" type="checkbox"/> NO Continue to next part
<input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI	<input checked="" type="checkbox"/> NO Continue to next part		
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>			
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>	
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>	
3	Appendix J, Primary Reactor Containment Leakage Testing requirements - 10 CFR 50.54(o)	<input type="checkbox"/>	
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification	<input type="checkbox"/>	

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

	Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>
10	Fire Protection Program – Operating license condition	<input type="checkbox"/>
11	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
12	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
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**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition).  
Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
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- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

YES  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

NO  
Continue to  
next part



## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
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2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
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8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
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11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
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## Attachment 4, 10 CFR 50.54 (q) Screening Form

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25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.

If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION**

The additional steps to this checklist are to support IER 13-10, Recommendation 7 which addresses staffing and rotations plans for long-duration events and Recommendation 9 which is to address or describe providing accommodations for personnel for long-duration events of more than 10 days. This recommendation is an action that is beyond design basis and not part of the Emergency Plan. This change does not affect any of the planning standards or program elements in Part V of this form or other applicable regulations as described within the Emergency Plan. No further evaluation is required for this change.

**Part VI. Approval:**

Preparer Name (Print) <i>Katie Yurkon</i>	Preparer Signature <i>[Signature]</i>	Date: <i>12/4/14</i>
Reviewer Name (Print) <i>Julie Gillard</i>	Reviewer Signature <i>[Signature]</i>	Date: <i>12/5/14</i>
Approver Name (Print) <i>B. Westermann</i>	Approver Signature <i>[Signature]</i>	Date: <i>12-8-14</i>

Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-48

Procedure/Document Number: EP-ChLst-TSC16		Revision: 1
Equipment/Facility/Other: Other		
Title: TSC EIS Operator		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Update and clarify instructions on logging in to EIS.</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>10</b>	Fire Protection Program – Operating license condition	<input type="checkbox"/>
<b>11</b>	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
<b>12</b>	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
- One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.

**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition).  
Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

YES  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

NO  
Continue to  
next part

## Attachment 4, 10 CFR 50.54 (q) Screening Form

Part V. Regulatory Requirement/Emergency Planning Element/Function Screening (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

## Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

## EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION



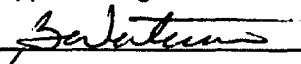
If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.

If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

## BASIS FOR CONCLUSION

EIS operation does not fall under a 50.47 planning standard, no 50.54(q) evaluation is required.

## Part VI. Approval:

Preparer Name (Print) Katie Yurkon	Preparer Signature 	Date: 11/20/2014
Reviewer Name (Print) Julie Gillard	Reviewer Signature 	Date: 11/20/14
Approver Name (Print) B. Westerman	Approver Signature 	Date: 11/20/14

Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-54

Procedure/Document Number: EPIP-EPP-04		Revision: 02100
Equipment/Facility/Other: Other		
Title: Personnel Injury or Illness		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Revise 10CFR50 Appendix R to 10CFR50 Appendix R/NFPA 805.</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b> Amendment 215 was approved by the NRC on 6/30/14 (TAC No. ME8800) which is attached along with the safety evaluation detailing conformance with the regulations.</p> <p><input checked="" type="checkbox"/> Conforming document attached (optional)</p>		<p><input checked="" type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

<b>10</b>	Fire Protection Program – Operating license condition	<input type="checkbox"/>
<b>11</b>	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
<b>12</b>	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
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**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition).  
Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

YES  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

NO  
Continue to  
next part



## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
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14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
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18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION**

**Part VI. Approval:**

Preparer Name (Print) Julie Gillard	Preparer Signature <i>Julie Gillard</i>	Date: 12/8/14
Reviewer Name (Print) Susanne Alfieri	Reviewer Signature <i>Susanne Alfieri</i>	Date: 12/10/14
Approver Name (Print) B Westerman	Approver Signature <i>B Westerman</i>	Date: 12-10-14



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

June 30, 2014

Mr. Christopher Costanzo  
Vice President Nine Mile Point  
Exelon Generation Company, LLC  
Nine Mile Point Nuclear Station, LLC  
P. O. Box 63  
Lycoming, NY 13093

**SUBJECT: NINE MILE POINT NUCLEAR STATION, UNIT NO. 1 – ISSUANCE OF AMENDMENT REGARDING TRANSITION TO A RISK-INFORMED, PERFORMANCE-BASED FIRE PROTECTION PROGRAM IN ACCORDANCE WITH 10 CFR 50.48(c) (TAC NO. ME8899)**

Dear Mr. Costanzo:

The U.S. Nuclear Regulatory Commission (NRC) has issued the enclosed Amendment No. 215 to Renewed Facility Operating License No. DPR-63 for the Nine Mile Point Nuclear Station, Unit No. 1 (NMP1). The amendment consists of changes to the license and Technical Specifications (TSs) in response to your application dated June 11, 2012, as supplemented by letters dated February 27, March 27, April 30, and December 9, 2013; and January 22, March 14, April 15, May 9, and May 23, 2014. Nine Mile Point Nuclear Station, LLC (NMPNS, the licensee), submitted a license amendment request (LAR) to revise the fire protection program in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR), Section 50.48(c), for NMP1 and change the license and TSs accordingly. Original application and the supplements were submitted before the Exelon Generation Company, LLC became the Operator of NMP1 on March 25, 2014.

Further, after the NRC approved the direct transfer of the operating authority for NMP1 from NMPNS, a subsidiary of Constellation Energy Nuclear Group, LLC (CENG), to Exelon Generation Company, LLC (Exelon, the licensee) and the conforming amendment to the Renewed Facility Operating License for Nine Mile Point Nuclear Station, Units 1 and 2, by letter dated March 28, 2014 (ADAMS Accession No. ML14087A274), Exelon stated that:

Prior to the license transfers, CENG made docketed submittals to the NRC that requested specific licensing actions, such as license amendment requests, relief requests, exemption requests, etc. Furthermore, in the application for the license transfers, Exelon stated that upon transfer of the licenses, Exelon would assume all current regulatory commitments made for these units. Accordingly, Exelon hereby adopts and endorses those docketed requests currently before the NRC for review and approval. Exelon requests that the NRC continue to process those pending actions on the schedules previously requested by CENG.

The amendment authorizes the transition of the NMP1 fire protection program to a risk-informed, performance-based program based on National Fire Protection Association (NFPA) 805, "Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants, 2001 Edition" (NFPA 805), in accordance with 10 CFR 50.48(c). NFPA 805 allows the use of performance-based methods such as fire modeling and risk-informed methods

C. Costanzo

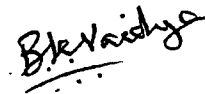
- 2 -

such as fire probabilistic risk assessment to demonstrate compliance with the nuclear safety performance criteria.

The fire protection license condition in NMP1's license and TS 6.4 are revised to reflect the use of NFPA 805. To reflect the proper pagination of the license, the amendment includes the license pages 5 through 13. However, only the text of the fire protection license condition, paragraph 2.D.(7) and TS Page 350 of Renewed Facility Operating License, are revised.

A copy of the related Safety Evaluation is also enclosed. A Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,



Bhalchandra Vaidya, Project Manager  
Plant Licensing Branch I-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-220

Enclosures:

1. Amendment No. 215 to DPR-63
2. Safety Evaluation

cc w/encls: Distribution via Listserv

Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-55-01

Procedure/Document Number: EPIP-EPP-28		Revision: 01900
Equipment/Facility/Other: Other		
Title: Firefighting		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Add NFPA 805 to developmental references.</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b> Amendment 215 was approved by the NRC on 6/30/14 (TAC No. ME8800) which is attached along with the safety evaluation detailing conformance with the regulations.</p> <p><input checked="" type="checkbox"/> Conforming document attached (optional)</p>		<p><input checked="" type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
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4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
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7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
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**Attachment 4, 10 CFR 50.54 (q) Screening Form**

<b>10</b>	Fire Protection Program – Operating license condition	<input type="checkbox"/>
<b>11</b>	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
<b>12</b>	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
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- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

YES  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

NO  
Continue to  
next part

## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
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9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
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13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

BASIS FOR CONCLUSION

Part VI. Approval:

Preparer Name (Print) Julie Gillard	Preparer Signature <i>Julie Gillard</i>	Date: 12/9/14
Reviewer Name (Print) Susanne Alfieri	Reviewer Signature <i>Susanne Alfieri</i>	Date: 12/10/14
Approver Name (Print) B. Westerman	Approver Signature <i>B. Westerman</i>	Date: 12-10-14



Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-55-02

Procedure/Document Number: EPIP-EPP-28		Revision: 01900
Equipment/Facility/Other: Other		
Title: Firefighting		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Correct title of Fire in Plant procedure from N1-SOP-09 to N1-SOP-21.1.</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

<b>10</b>	Fire Protection Program – Operating license condition	<input type="checkbox"/>
<b>11</b>	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
<b>12</b>	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
- One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.

**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition).  
Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

Correct procedure number from N1-SOP-09 to N1-SOP-21.1 for Fire In Plant procedure.

**YES**  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

**NO**  
Continue to  
next part

## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION**

**Part VI. Approval:**

Preparer Name (Print) Julie Gillard	Preparer Signature <i>Julie Gillard</i>	Date: 12/9/14
Reviewer Name (Print) Susanne Alfieri	Reviewer Signature <i>Susanne Alfieri</i>	Date: 12/10/14
Approver Name (Print) B. Westermann	Approver Signature <i>B. Westermann</i>	Date: 12-10-14

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

Tracking Number: 2014-55-03

Procedure/Document Number: EPIP-EPP-28		Revision: 01900
Equipment/Facility/Other: Other		
Title: Firefighting		
<p><b>Part I.</b> Description of the Activity (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Fix minor changes due to the changeover to fleet common ERO.</p>		
<p><b>Part II.</b> Activity Previously Reviewed?</p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>10</b>	Fire Protection Program – Operating license condition	<input type="checkbox"/>
<b>11</b>	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
<b>12</b>	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
- One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.

**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition).  
Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

**YES**  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

**NO**  
Continue to  
next part

## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION**

All changes are from cancelled EIPs to fleet CNG procedures that replaced them.

**Part VI. Approval:**

Preparer Name (Print) Julie Gillard	Preparer Signature <i>Julie Gillard</i>	Date: 12/9/14
Reviewer Name (Print) Susanne Alfieri	Reviewer Signature <i>Susanne Alfieri</i>	Date: 12/10/14
Approver Name (Print) B. Westerman	Approver Signature <i>B. Westerman</i>	Date: 12-10-14





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

June 30, 2014

Mr. Christopher Costanzo  
Vice President Nine Mile Point  
Exelon Generation Company, LLC  
Nine Mile Point Nuclear Station, LLC  
P. O. Box 63  
Lycoming, NY 13093

**SUBJECT: NINE MILE POINT NUCLEAR STATION, UNIT NO. 1 – ISSUANCE OF AMENDMENT REGARDING TRANSITION TO A RISK-INFORMED, PERFORMANCE-BASED FIRE PROTECTION PROGRAM IN ACCORDANCE WITH 10 CFR 50.48(c) (TAC NO. ME8899)**

Dear Mr. Costanzo:

The U.S. Nuclear Regulatory Commission (NRC) has issued the enclosed Amendment No. 215 to Renewed Facility Operating License No. DPR-63 for the Nine Mile Point Nuclear Station, Unit No. 1 (NMP1). The amendment consists of changes to the license and Technical Specifications (TSs) in response to your application dated June 11, 2012, as supplemented by letters dated February 27, March 27, April 30, and December 9, 2013; and January 22, March 14, April 15, May 9, and May 23, 2014. Nine Mile Point Nuclear Station, LLC (NMPNS, the licensee), submitted a license amendment request (LAR) to revise the fire protection program in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR), Section 50.48(c), for NMP1 and change the license and TSs accordingly. Original application and the supplements were submitted before the Exelon Generation Company, LLC became the Operator of NMP1 on March 25, 2014.

Further, after the NRC approved the direct transfer of the operating authority for NMP1 from NMPNS, a subsidiary of Constellation Energy Nuclear Group, LLC (CENG), to Exelon Generation Company, LLC (Exelon, the licensee) and the conforming amendment to the Renewed Facility Operating License for Nine Mile Point Nuclear Station, Units 1 and 2, by letter dated March 28, 2014 (ADAMS Accession No. ML14087A274), Exelon stated that:

Prior to the license transfers, CENG made docketed submittals to the NRC that requested specific licensing actions, such as license amendment requests, relief requests, exemption requests, etc. Furthermore, in the application for the license transfers, Exelon stated that upon transfer of the licenses, Exelon would assume all current regulatory commitments made for these units. Accordingly, Exelon hereby adopts and endorses those docketed requests currently before the NRC for review and approval. Exelon requests that the NRC continue to process those pending actions on the schedules previously requested by CENG.

The amendment authorizes the transition of the NMP1 fire protection program to a risk-informed, performance-based program based on National Fire Protection Association (NFPA) 805, "Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants, 2001 Edition" (NFPA 805), in accordance with 10 CFR 50.48(c). NFPA 805 allows the use of performance-based methods such as fire modeling and risk-informed methods

C. Costanzo

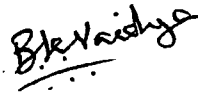
- 2 -

such as fire probabilistic risk assessment to demonstrate compliance with the nuclear safety performance criteria.

The fire protection license condition in NMP1's license and TS 6.4 are revised to reflect the use of NFPA 805. To reflect the proper pagination of the license, the amendment includes the license pages 5 through 13. However, only the text of the fire protection license condition, paragraph 2.D.(7) and TS Page 350 of Renewed Facility Operating License, are revised.

A copy of the related Safety Evaluation is also enclosed. A Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

A handwritten signature in black ink, appearing to read "B.V. Vaidya", with a horizontal line underneath.

Bhalchandra Vaidya, Project Manager  
Plant Licensing Branch I-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-220

Enclosures:

1. Amendment No. 215 to DPR-63
2. Safety Evaluation

cc w/encls: Distribution via Listserv

Attachment 4, 10 CFR 50.54 (q) Screening Form

Tracking Number: 2014-64-01

Procedure/Document Number: EPMP-EPP-02		Revision: 04900
Equipment/Facility/Other: Equipment		
Title: Emergency Equipment Inventories and Checklists		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Remove Attachments 1A-F, 2A-J, 4A-C, 5, 5A, 27A-C, 45 and 46. These Attachments will be incorporated in S-PM-004.</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input checked="" type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

<b>10</b>	Fire Protection Program – Operating license condition	<input type="checkbox"/>
<b>11</b>	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
<b>12</b>	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
- One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.

**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition).  
Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

YES  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

NO  
Continue to  
next part

## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

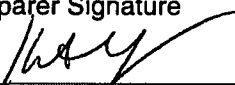
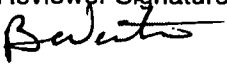
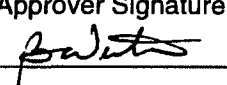
**EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION**

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

**BASIS FOR CONCLUSION**

This revision deletes inventories associated with Fire Protection, Medical/Rescue Equipment and Hazardous Waste and Spill Response. Fire protection, Medical Response and Hazardous Material Spills do not fall under a 50.47 planning standard, no 50.54(q) evaluation required.

**Part VI. Approval:**

Preparer Name (Print) Katie Yurkon	Preparer Signature 	Date: 12/15/12
Reviewer Name (Print) B Westermann	Reviewer Signature 	Date: 12-15-15
Approver Name (Print) B Westermann	Approver Signature 	Date: 12-15-15

**Attachment 4, 10 CFR 50.54 (q) Screening Form**

Tracking Number: 2014-64-02

Procedure/Document Number: EPMP-EPP-02		Revision: 04900
Equipment/Facility/Other: Equipment		
Title: Emergency Equipment Inventories and Checklists		
<p><b>Part I. Description of the Activity</b> (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</p> <p>Remove Spool Piece and Gaskets from Attachment 3B (to be renumbered Attachment 1 B with this revision).</p>		
<p><b>Part II. Activity Previously Reviewed?</b></p> <p>Is this activity a conforming change? (refer to Conforming Change Definition)</p> <p>If YES, identify the conforming source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change from the emergency preparedness program perspective is documented below:</p> <p><b>Justification:</b></p> <p><input type="checkbox"/> Conforming document attached (optional)</p>		<p><input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification below and complete Part VI</p> <p><input checked="" type="checkbox"/> NO Continue to next part</p>
<p><b>Part III. Applicability to Other Regulatory Change Control Processes</b> (may be accomplished by a separate Applicability Determination procedure)</p> <p><b>Check the applicable process(es) that initiated the change.</b></p> <p><b>NOTE:</b> For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are <b>NOT</b> to be included in this 50.54(q)(3) Screening.</p>		
1	Quality assurance programs - 10 CFR 50.54(a)	<input type="checkbox"/>
2	In Service Inspection/In Service Testing (ISI/IST) programs - 10 CFR 50.54(a)	<input type="checkbox"/>
3	Appendix J, Primary Reactor Containment Leakage Testing requirements – 10 CFR 50.54(o)	<input type="checkbox"/>
4	Physical Security Plan, the Safeguards Contingency Plan, the Guard Training and Qualification Plan, or the Cyber Security Plan - 10 CFR 50.54(p)	<input type="checkbox"/>
5	Interface between security and the emergency plan – 10 CFR 73.58	<input type="checkbox"/>
6	Changes, tests, or experiments (operating License) – 10 CFR 50.59	<input checked="" type="checkbox"/>
7	Changes, tests, or experiments (Independent Spent Fuel Storage Installation) – 10 CFR 72.48	<input type="checkbox"/>
8	Maintenance Rule – 10 CFR 50.65	<input type="checkbox"/>
9	Technical specification amendment (provided the change to the EP is specifically addressed in the amendment) – 10 CFR 50.90	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>10</b>	Fire Protection Program – Operating license condition	<input type="checkbox"/>
<b>11</b>	Alert and Notification System (ANS) (44 CFR 350.14)	<input type="checkbox"/>
<b>12</b>	Other (provide title):	<input type="checkbox"/>

**APPLICABILITY CONCLUSION**

- If there are no controlling change processes, continue the 50.54(q)(3) Screening Evaluation.
- One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening Evaluation for that portion of the activity.
- One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Effectiveness Evaluation is NOT required.

**Part IV. Editorial Change**

Is this activity an editorial change (refer to Editorial Definition).  
Check appropriate box(es) below and complete justification?

- Procedure Title Change
- Reference or annotation change
- Correction of location description
- Correction of typographical errors and punctuation
- Reformatting changes that do not change intent, purpose, or order of procedural steps
- Changes on plant drawing grid coordinates
- Change to position titles when no responsibilities for that position have changed
- Correction in page or step numbering
- Other (provide description)

**Justification:**

YES  
50.54(q)(3)  
Evaluation is  
NOT required.  
Enter  
justification  
below and  
complete Part  
VI

NO  
Continue to  
next part



## Attachment 4, 10 CFR 50.54 (q) Screening Form

<b>Part V. Regulatory Requirement/Emergency Planning Element/Function Screening</b> (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA-REP-1 Section II? Check the appropriate boxes.		
1	Responsibility for emergency response is assigned. [1]	<input type="checkbox"/>
2	The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]	<input type="checkbox"/>
3	The process ensures that on-shift emergency response responsibilities are staffed and assigned. [2]	<input type="checkbox"/>
4	The process for timely augmentation of on-shift staff is established and maintained. [2]	<input type="checkbox"/>
5	Arrangements for requesting and using off site assistance have been made. [3]	<input type="checkbox"/>
6	State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]	<input type="checkbox"/>
7	A standard scheme of emergency classification and action levels is in use. [4]	<input type="checkbox"/>
8	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]	<input type="checkbox"/>
9	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]	<input type="checkbox"/>
10	The public ANS meets the design requirements of FEMA-REP-10, Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]	<input type="checkbox"/>
11	Systems are established for prompt communication among principal emergency response organizations. [6]	<input type="checkbox"/>
12	Systems are established for prompt communication to emergency response personnel. [6]	<input type="checkbox"/>
13	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]	<input type="checkbox"/>
14	Coordinated dissemination of public information during emergencies is established. [7]	<input type="checkbox"/>
15	Adequate facilities are maintained to support emergency response. [8]	<input type="checkbox"/>
16	Adequate equipment is maintained to support emergency response. [8]	<input checked="" type="checkbox"/>
17	Methods, systems, and equipment for assessment of radioactive releases are in use. [9]	<input type="checkbox"/>
18	A range of public PARs is available for implementation during emergencies. [10]	<input type="checkbox"/>
19	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]	<input type="checkbox"/>
20	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.[10]	<input type="checkbox"/>
21	The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22	Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>

Attachment 4, 10 CFR 50.54 (q) Screening Form

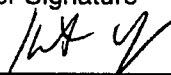


23	Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24	A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26	Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27	Training is provided to emergency responders. [15]	<input type="checkbox"/>
28	Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29	Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

EP ELEMENT/FUNCTION APPLICABILITY CONCLUSION

- If no Part V criteria are checked, a 50.54(q)(3) Effectiveness Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Effectiveness Evaluation.

BASIS FOR CONCLUSION

Part VI. Approval:

Preparer Name (Print) Katie Yurkon	Preparer Signature 	Date: 12/15/14
Reviewer Name (Print) B. Westerman	Reviewer Signature 	Date: 12-15-15
Approver Name (Print) B. Westerman	Approver Signature 	Date: 12-15-15

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**Tracking Number: 2014-64-02

Procedure/Document Number: EPMP-EPP-02	Revision: 04900
Equipment/Facility/Other: Other	
Title: Emergency Equipment Inventories and Checklists	
<p><b>Part I. Description of the Activity (event or action or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):</b></p> <p>Remove reference to Spool Piece and Gasket from new Attachment 1B inventory list. The spool piece was permanently hardpiped in place, it is no longer required to be in inventory</p>	
<p><b>Part II. Description and Review of Licensing Basis Affected by the Proposed Change:</b></p> <p>8.3.2 Maintenance and Inventory (NUREG 0654 II.F.3, II.H.10)</p> <p>Emergency supplies are inspected and inventoried as specified in EPMP-EPP-02.</p> <p>Instruments will be inspected for operability and calibration status in accordance with station calibration procedures. Instruments with expired calibrations or instruments with calibrations which will expire prior to the next inspection/inventory will be removed and calibrated, or replaced with calibrated equipment prior to their expiration date. Sufficient instruments are available to replace those removed from service for calibration or repair. Procedures for instrument calibration are contained in the station procedures. Calibration intervals meet or exceed any written recommendations of the manufacturers of the equipment. In addition, emergency communications systems involving dedicated telephone lines, base station, portable and console radios are tested periodically in accordance with EPMP-EPP-02.</p>	
<p><b>Part III. Describe How the Proposed Change Complies with Relevant Emergency Preparedness Regulation(s) and Previous Commitment(s) Made to the NRC:</b></p> <p>The proposed change ensures that Site inventories are updated and reflect the equipment in use..</p>	
<p><b>Part IV. Description of Emergency Planning Standards, Functions and Program Elements Affected by the Proposed Change (from Attachment 4, 10 CFR 50.54 (q) Screening Form Part V):</b></p> <p>10 CFR 50.47(b)(8) - Emergency Facilities and Equipment</p> <p>Adequate emergency facilities and equipment to support the emergency response are provided and maintained.</p> <ul style="list-style-type: none"> <li>• Adequate facilities are maintained to support emergency response.</li> <li>• Adequate equipment is maintained to support emergency response.</li> </ul>	
<p><b>Part V. Description of Impact of the Proposed Change on the Effectiveness of Emergency Plan Functions:</b></p> <p>The proposed change ensures that the current inventory reflects actual plant configuration.</p> <p>There is no timeliness associated with these inventories to fulfill an emergency planning standard.</p> <p>This change is considered as maintaining the effectiveness of the Emergency Plan.</p>	

**Attachment 5, 10 CFR 50.54 (q) Effectiveness Evaluation Form**

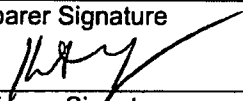

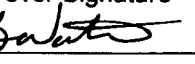
**Part VI. Effectiveness Evaluation Conclusion**

Answer the following questions about the proposed change.

- |   |   |   |  |
|---|---|---|--|
| 1 | Does the proposed change comply with 10 CFR 50.47(b) and 10 CFR 50 Appendix E?  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            |
| 2 | Does the proposed change maintain the effectiveness of the emergency plan (for example, no reduction in effectiveness)? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            |
| 3 | Does the proposed change constitute an emergency action level scheme change?  | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |

If questions 1 or 2 are answered NO, or question 3 answered YES, reject the proposed change, modify the proposed change and perform a new evaluation or obtain prior NRC approval under provisions of 10 CFR 50.90. If questions 1 and 2 are answered YES, and question 3 answered NO, implement applicable change process(es).

**Part VII. Approval:**

Preparer Name (Print) Katie Yurkon	Preparer Signature 	Date: 12/15/14
Reviewer Name (Print) B. Westermann	Reviewer Signature 	Date: 12-15-15
Approver Name (Print) B. Westermann	Approver Signature 	Date: 12-15-15