

A. Alan Blind
Vice President

Consolidated Edison Company of New York, Inc.
Indian Point Station
Broadway & Bleakley Avenue
Buchanan, NY 10511
Telephone (914) 734-5340
Fax: (914) 734-5718
blinda@coned.com

October 16, 2000

Re: Indian Point Units No. 1 and
No. 2
Docket No. 50-003 and
No. 50-247
NL 00-125

Document Control Desk
US Nuclear Regulatory Commission
Mail Station P1-137
Washington, DC 20555

Subject: Revision to Emergency Plan

In accordance with 10 CFR 50.54(q) and 10 CFR 50.4(b)(5), Con Edison submits herewith a controlled copy of changes to the Emergency Plan procedures for Indian Point Units Nos. 1 and 2. These changes do not reduce the effectiveness of the Emergency Plan and the Emergency Plan as a whole continues to meet the standard of 50.47(b) and the requirements of Appendix E to 10 CFR 50.

Should you or your staff have any questions, please contact Mr. Frank Inzirillo, Manager Emergency Planning.

Sincerely,



Enclosure

A045

cc: Mr. Hubert J. Miller (2 copies)
Regional Administrator - Region I
US Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406-1498

Mr. Patrick D. Milano, Senior Project Manager (without copy)
Project Directorate I-1
Division of Licensing Project Management
US Nuclear Regulatory Commission
Mail Stop 0-8-C2
Washington, DC 20555

Senior Resident Inspector (without copy)
US Nuclear Regulatory Commission
PO Box 38
Buchanan, NY 10511

TO: Emergency Planning Document Controlled Copy # 14 Holder

FROM: Emergency Planning Document Custodian

SUBJECT: Emergency Planning Document Update

Please update your controlled copy of the documents listed below as specified with the copy(s) attached. It is requested that the update be completed within 3 days of the effective date shown on the document cover page.

Please sign this memo indicating that you have completed the update as specified and return to:

Consolidated Edison
Indian Point Nuclear Generating Station
Emergency Planning Department
Buchanan Service Center
Broadway & Bleakley Aves.
Buchanan, NY 10511
Attn: Document Custodian

Document #	Document Name	New Rev. #/ Date	Old Rev. #/ Date	Instructions
TOC	Emergency Plan Implementing Procedures Table of Contents	9/15/00	5/27/00	Replace entire document
IP-1030	Emergency Operations Facility	2	1	Replace entire document

Please indicate name and title of person responsible for maintenance of assigned controlled copy: _____
Name Title

Update completed as specified: _____
Signature of Controlled Copy Holder Date

Emergency Plan Implementing Procedures Table of Contents

Procedure No.	Procedure Title	Rev. No.	Effective Date
IP-1001	Mobilization of Onsite Emergency Organization	10	3/28/00
IP-1002	Emergency Notification and Communication	20	5/27/00
IP-1003	Planned Discharge of Containment Atmosphere During Accident Conditions	6	9/1/99
IP-1004	Post Accident Offsite Environmental Surveys, Sampling and Counting	5	9/1/99
IP-1005	MS-2 / SPA-3 to Determine Thyroid Burdens	6	9/1/99
IP-1006	Site Perimeter Survey	6	9/1/99
IP-1007	Dose Assessment	10	9/1/99
IP-1008	Personnel Radiological Check and Decontamination	6	9/1/99
IP-1009	Radiological Check and Decontamination of Vehicles	7	9/1/99
IP-1012	Onsite Medical Emergency	9	4/30/98
IP-1013	Protective Action Recommendations	7	9/1/99
IP-1014	Radiological Check of Equipment Before It Leaves the Site	6	9/1/99
IP-1015	Mobilization and Operational Procedure for Offsite Monitoring Teams	7	9/13/99
IP-1016	Obtaining Meteorological Data	12	9/1/99
IP-1017	Issuance and Use of Radiological Equipment Stored in the Command Guard House	9	9/1/99
IP-1018	Media Relations Mobilizing During Emergencies	7	5/27/00
IP-1019	Corporate Response Center	8	9/1/99
IP-1020	Airborne Activity Determination	7	9/1/99
IP-1021	Manual Update, Readout and Printout of Proteus Plant Parameter Data	5	9/1/99
IP-1022	Obtaining Meteorological, Radiological and Dose Assessment Data from MIDAS	5	9/1/99
IP-1023	Operations Support Center (OSC)	13	3/28/00
IP-1024	Emergency Classification	7	9/1/99

Emergency Plan Implementing Procedures Table of Contents

Procedure No.	Procedure Title	Rev. No.	Effective Date
IP-1025	Handling Fire Department Personnel Fighting Fires in the Controlled Area	7	9/1/99
IP-1027	Personnel Accountability and Evacuation	11	5/27/00
IP-1028	Onsite (Out of Plant) Surveys	7	9/1/99
IP-1030	Emergency Operations Facility (EOF)	2	9/15/00
IP-1031	Air Raid Alert	7	9/1/99
IP-1032	Tornado Emergency	5	9/1/99
IP-1035	Technical Support Center (TSC)	15	3/28/00
IP-1036	Estimation of Population dose Within the 10 Mile Emergency Planning Zone	6	9/1/99
IP-1037	Obtaining Offsite Reuter-Stokes Monitor Data	8	9/1/99
IP-1039	Offsite Contamination Checks	8	9/1/99
IP-1040	Relocation of Personnel Dosimetry Facilities	6	9/1/99
IP-1041	Use of the Triton for Monitoring Radiogas	5	9/1/99
IP-1042	In-Plant Radiological Surveys and Sampling	6	9/1/99
IP-1044	Cancelled	--	5/27/00
IP-1045	Activation of Alternate Emergency Operations Facility	8	9/1/99
IP-1046	Responsibilities of Con Edison Personnel During Emergencies at Unit No. 3	7	9/1/99
IP-1047	Obtaining Offsite Exposure Rates From Midas Using a Data Terminal	7	9/1/99
IP-1048	Termination and Recovery	8	5/27/00
IP-1049	Cancelled	--	5/27/00
IAP-10	Shift Manager	14	3/28/00
IAP-12	Watch Health Physics Technician (WHPT)	8	9/1/99
IAP-14	Cancelled	--	5/27/00

CONTROLLED COPY

Emergency Operations Facility

Prepared by: Allen Lee *Allen Lee* 9/10/00
Print Name Signature Date

Technical Reviewer: Kelly Walker *c. walker* 9/11/00
Print Name Signature Date

Reviewer: RICHARD BURNS *R Burns* 9/11/2000
Print Name Signature Date

Reviewer: David L. Smith *David L Smith* 9/11/00
Print Name Signature Date

Reviewer: _____
Print Name Signature Date

SNSC Review: Previous SNX # 2706 No SNSC Required P.D. 9/12/00
Meeting Number Signature Secretary Date

Approval: Frank Inzirillo *Frank Inzirillo* 9/14/00
Print Name Signature Date

Effective Date: 9/15/00

_____ Biennial Review _____
Reviewer/Date Reviewer/Date

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1.0 PURPOSE

To describe the activation and operation of the Emergency Operations Facility (EOF)

2.0 DISCUSSION

None

3.0 PRECAUTIONS AND LIMITATIONS

EOF habitability checks are necessary to ensure long-term manning of the EOF. Should conditions exist which may result in a loss of long-term habitability of the EOF, evaluate the need for relocation of emergency response functions to the Alternate EOF in accordance with IP-1045 "Activation of Alternate Emergency Operations Facility."

4.0 EQUIPMENT AND MATERIALS

4.1 The following types of equipment and materials are available for use in the EOF

4.1.1 Plant information systems:

- EDDS
- SAS
- Proteus
- Meteorological Displays

4.1.2 Radiological equipment needed to perform offsite monitoring:

- Field Monitoring kits
- Survey equipment for performance of facility habitability checks

4.1.3 Dose Assessment and plume tracking equipment:

- MIDAS
- MEANS
- Map table

4.1.4 Communication systems needed to transfer important data to offsite authorities:

- V-Band communications consoles
- Telephones
- Fax Machines

4.1.5 Procedures and forms:

- IP2 Emergency Plan
- IP2 Emergency Plan Implementing Procedures
- Position Binders
- Forms

4.1.6 Office Supplies

4.2 The key to the EOF is located in a break glass container in the EOF entry way.

5.0 INSTRUCTIONS

- 5.1 The Emergency Director (ED) shall follow the instructions outlined in Attachment 1, Emergency Director Checklist.
- 5.2 The EOF Manager shall follow the instructions outlined in Attachment 2, EOF Manager Checklist.
- 5.3 The Offsite Radiological Assessment Director (ORAD) shall follow the instructions outlined Attachment 3, Offsite Radiological Assessment Director (ORAD) Checklist
- 5.4 The Dose Assessment Health Physicist (DAHP) shall follow the instructions outlined in Attachment 4, Dose Assessment Health Physicist Checklist.
- 5.5 The Midas Operator shall follow the instructions outlined Attachment 5, Midas Operator Checklist.
- 5.6 The Survey Team Health Physicist (STHP) shall follow the instructions outlined in Attachment 6, Survey Team Health Physicist Checklist.
- 5.7 The Technical Advisor to Emergency Director shall follow the instructions outlined in Attachment 7, Technical Advisor (TA) Checklist
- 5.8 The EOF Communicator #1 shall follow the instructions outlined in Attachment 8, EOF Communicator #1. Checklist
- 5.9 The EOF Communicator #2 shall follow the instructions outlined in Attachment 9, EOF Communicator #2. Checklist
- 5.10 The EOF Clerical Staff shall follow the instructions outlined in Attachment 10, EOF Clerks. Checklist

6.0 REFERENCES

- 6.1 IP-1021, "Manual Update and Readout of Proteus Plant Parameter Data"
- 6.2 IP-1024, "Emergency Classification"
- 6.3 IP-1027, "Site Personnel Accountability and Evacuation"
- 6.4 IP-1048, "Termination & Recovery"

7.0 ATTACHMENTS

- 7.1 Attachment 1, Emergency Director Checklist
- 7.2 Attachment 2, EOF Manager Checklist
- 7.3 Attachment 3, Offsite Radiological Assessment Director (ORAD) Checklist
- 7.4 Attachment 4, Dose Assessment Health Physicist (DAHP) Checklist
- 7.5 Attachment 5, MIDAS Operator Checklist
- 7.6 Attachment 6, Survey Team Health Physicist (STHP) Checklist
- 7.7 Attachment 7, ED Technical Advisor Checklist
- 7.8 Attachment 8, EOF Communicator #1 Checklist
- 7.9 Attachment 9, EOF Communicator #2 Checklist
- 7.10 Attachment 10, EOF Clerical Staff Checklist

8.0 ADDENDUM

- 8.1 Addendum 1, EOF Layout
- 8.2 Addendum 2, NYS Radiological Data Form (Part I & II) (Form IP-1030-1)
- 8.3 Addendum 3, Sample Form - Normal EOF Staffing (Form IP-1030-2)
- 8.4 Addendum 4, Sample Form - EOF Radiological Survey Map (Form IP-1030-3)
- 8.5 Addendum 5, Directions to NYS EOC
- 8.6 Addendum 6., EPA 302.4 Nuclide Table (Form IP-1030-4)
- 8.7 Addendum 7, Sample Form - Offsite Survey Team Data Sheet (Form IP-1030-5)
- 8.8 Addendum 8, Directions to AEOF

Attachment 1
Emergency Director Checklist

Sheet 1 of 8

<u>Initial Responsibility/Activity</u>	<u>Notes</u>
<p>1.0 Assume the position of Emergency Director.</p> <p>1.1 Upon arrival at the EOF review facility status boards, EDDS and any other available sources to become familiar with current plant status.</p> <p>1.2 Obtain a briefing from the acting ED. (if the EOF has not been activated, either the SM or EPM will be the acting ED in the Central Control Room and they can be contacted via the direct EOF-CCR ring-down on the V-Band console)</p> <p>A. Use an Essential Information Checklist (Form IP-1035-2) to document the briefing.</p> <p>B. Request additional information on current status of emergency classification, response activities and offsite notifications.</p> <p>1.3 IF the EOF has NOT been activated THEN:</p> <p>A. Request the CCR to fax copies of all NYS Radiological Emergency Data Forms used to make offsite notifications to the EOF for your review.</p> <p>B. IF an EOF Manager is NOT yet present THEN assign individuals to the following positions as they become available:</p> <ol style="list-style-type: none"> 1. ED Technical Advisor 2. Offsite Radiological Assessment Director (ORAD) 3. Dose Assessment Health Physicist (DAHP) 4. MIDAS Operator 5. EOF Communicator #1 6. EOF Communicator #2 7. EOF Clerical Staff <p>C. IF additional personnel are needed THEN call or direct someone to call additional individuals using the Emergency Telephone Directory.</p>	

Attachment 1
Emergency Director Checklist

Sheet 2 of 8

<u>Initial Responsibility/Activity(cont.)</u>	<u>Notes</u>
<p>D. WHEN there is sufficient EOF staff present to assume the following emergency responsibilities:</p> <ul style="list-style-type: none"> • Assess plant conditions and classify emergencies. • Perform dose assessment and make protective action recommendations (PARs) • Make notifications to offsite authorities <p>THEN declare the EOF activated, announce facility activation within the facility and record activation time in the ED ERO Log.</p> <p>E. WHEN ready to assume the role of ED, perform a formal turnover with the acting ED (SM or EPM in the Central Control Room):</p> <ul style="list-style-type: none"> • Review the latest transmitted NYS Radiological Emergency Data Form (Part I & II). Determine the time that the next follow-up notifications will be required. • Coordinate the official time of turnover to ensure it will not interfere with or delay required emergency classification, offsite notifications, briefings or issuance of PARs. • Once the determination has been made to formally turnover ED responsibilities, make an announcement to EOF personnel that you are now the Emergency Director. <p>F Inform, or direct the EOF Manager to inform, the following individuals that you have assumed the duties of Emergency Director and that the EOF is activated.</p> <ol style="list-style-type: none"> 1. Emergency Plant Manager (TSC) 2. Shift Manager (CCR) 3. Company Spokes person or JNC Director (if activated) 4. CIG Duty Officer <p>G Direct EOF Manager or EOF Communicator #2 to notify Offsite Agencies of the time that the EOF was activated:</p> <ol style="list-style-type: none"> 1. NRC via ENS 2. NYS and 4 Counties via RECS 	

Attachment 1
Emergency Director Checklist
Sheet 3 of 8

<u>Initial Responsibility/Activity(cont.)</u>	<u>Notes</u>
<p>1.4 IF relieving another Emergency Director in the EOF THEN perform a formal turnover with the current Emergency Director:</p> <ul style="list-style-type: none"> A. Review the Emergency Director's activity log B. Obtain briefing from current ED on the emergency and any actions the have been competed or are in progress using an Essential Information Checklist (Form IP-1035-2) to document the briefing. C. Once the formal turnover is complete direct the EOF Manager to inform the EOF, TSC, CCR and JNC that you are now the Emergency Director. 	
<u>Continuous Responsibility/Activity</u>	<u>Notes</u>
<p>2.0 Maintain personnel accountability in the EOF</p> <p>2.1 Direct EOF personnel that are required to temporarily leave the EOF area to inform the EOF Manager before leaving the work area.</p> <p>2.2 If you leave the area, upon your return, obtain a briefing from the EOF Manager on any events that have occurred while you were away.</p>	
<p>3.0 Maintain a log:</p> <p>3.1 Maintain or direct the EOF Manager to maintain a log using Form IP-1023-4, ERO Log Sheet</p> <p>3.2 Log when you assume the duties of Emergency Director (and EOF activation if not previously done).</p> <p>3.3 Log significant decisions and important details used to make decisions. (emergency classification changes and protective actions recommendations)</p> <p>3.4 Log all significant communications with other members of the ERO and all communications with individuals offsite.</p> <p>3.5 IF you have assigned someone to maintain the ED log THEN periodically review the log for accuracy.</p>	

Attachment 1
Emergency Director Checklist
Sheet 4 of 8

<u>Continuous Responsibility/Activity (con't)</u>	<u>Notes</u>
<p>4.0 Classify emergency conditions. (non-delegable)</p> <p>4.1 Review plant conditions with the Emergency Plant Manager in the TSC and ED Technical Advisor.</p> <p>4.2 Review offsite radiological data with the ORAD and EOF Manager.</p> <p>4.3 Compare current information and recommendations with the thresholds on the EAL Wall Chart, Procedure IP-1024, Emergency Classification and the EAL Technical Basis Document.</p> <p>4.4 Solicit recommendation for change of classification from the Emergency Plant Manager.</p> <p>4.5 Escalate the emergency classification when appropriate.</p> <p>4.6 Notify the Emergency Plant Manager and the EOF Staff when and at what time the new emergency classification is made.</p>	
<p>5.0 Make protective action recommendations (PARs). (non-delegable)</p> <p style="text-align: center;">NOTE:</p> <p>Protective Action Recommendations (PARs) are to be made only at the General Emergency classification</p> <p>5.1 Determine, with the assistance of the ORAD and EOF Manager, the appropriate PAR per IP-1013, Protective Action Recommendations</p> <p>5.2 Reevaluate the adequacy of PARs when plant conditions, dose projections, meteorological, or environmental conditions change.</p> <p>5.3 Confer with State authorities prior to PAR issuance, if possible.</p> <p>5.4 PARs shall be transmitted to offsite authorities within 15 minutes of the decision to make the PAR using the offsite notification methods as specified in Step 6.0 below.</p>	

Attachment 1
Emergency Director Checklist
Sheet 5 of 8

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>6.0 Direct initial notification of emergency classification and/or PARs to offsite authorities (State, local and NRC). (non-delegable)</p> <p style="text-align: center;">NOTE:</p> <p>Initial offsite notifications to State and local authorities must be completed within 15 minutes of making an emergency declaration or PAR. Notification of the NRC must be completed within 1 hour.</p> <p>6.1 Direct the EOF Manager to complete a NYS Radiological Emergency Data Form Part I</p> <p>6.2 Review and approve (sign) the completed NYS Radiological Emergency Data Form (non-delegable).</p> <p>6.3 Direct the EOF Manager to have EOF Communicator #2 transmit data on the form to the State and Local authorities and the NRC and report to you when task is complete.</p>	
<p>7.0 Direct periodic update notification to offsite authorities</p> <p>7.1 Direct the EOF Manager to complete a NYS Radiological Emergency Data Form (Parts I & II) at the following frequencies:</p> <p>A When there has been a significant change in release rates and/or meteorological conditions.</p> <p style="text-align: center;"><u>OR</u></p> <p>B When there has been a significant change in plant conditions.</p> <p style="text-align: center;"><u>OR</u></p> <p>C Approximately every 30 minutes when conditions are static.</p> <p>7.2 Review and approve the completed NYS Radiological Emergency Data Forms (non-delegable).</p> <p>7.3 Direct the EOF manager to have EOF Communicator #2 transmit data on the form to State and Local authorities and the NRC and report to you when task is complete.</p>	

Attachment 1
Emergency Director Checklist

Sheet 6 of 8

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>8.0 Brief offsite representatives (State, Local, FEMA and NRC)</p> <p>8.1 Upon their arrival at the EOF, brief offsite representatives on:</p> <ul style="list-style-type: none"> A. emergency events B. current plant conditions C. emergency response activities currently underway D. offsite radiological release status E. dose assessment and PARs <p>8.2 Conduct periodic briefing of offsite representatives as deemed appropriate.</p>	
<p>9.0 Review and approve ConEd news releases (non-delegable)</p> <p>9.1 Maintain the EOF Information Liaison apprised of current emergency status and any significant events that may be of public interest.</p> <p>9.2 Ensure that the EOF Information Liaison obtains a copy of any news release prior to issue for your review and approval.</p> <p>9.3 Direct copies of news releases be given to offsite representatives in the EOF upon approval.</p> <p>9.4 Confer with the Company Spokesperson at the JNC and the EOF Manager and ORAD if there is any question as to the accuracy of the proposed news release prior to approval.</p>	
<p>10.0 Conduct periodic facility briefings</p> <p>10.1 Coordinate with the EOF Manager to schedule the conduct of periodic facility briefings. Establish a briefing schedule of approximately every 30 minutes or as conditions change.</p> <p>10.2 Use an Essential Information Checklist (Form IP1035-2) as a guide for leading the briefings.</p> <p>10.3 Direct the ED Technical Advisor and the ORAD to participate in briefing facility personnel on current plant status and offsite radiological conditions respectively.</p> <p>10.4 Emphasize what the major tasks and priorities are during every briefing.</p> <p>10.5 Direct EOF staff to review there procedure to ensure required actions are being performed.</p>	

Attachment 1

Emergency Director Checklist

Sheet 7 of 8

<u>Continuous Responsibility/Activity (cont.)</u>	
<p>11.0 Approve emergency radiation exposures and KI issuance for ConEd Workers outside the Protected Area (non-delegable)</p> <p>11.1 When requested by the EOF Manager and/or ORAD, approve emergency radiation exposures and/or issuance of KI for ConEd emergency workers outside the Protected Area Fence.</p> <p>11.2 Authorize emergency exposures up to 1 Rem TEDE for all monitoring team personnel dispatched from the EOF and other EOF staff as required. Ensure this authorization is documented in the ED's Log Sheet.</p> <p>11.3 <u>IF</u> emergency measures require additional exposure <u>THEN</u> authorize raising the blanket emergency exposure limit 1 Rem at a time up to a limit of 5 Rem</p> <p>11.4 Review, when requested by ORAD or EOF Manager, emergency exposures beyond 5 Rem on an individual basis. Exposure in excess of 5 Rem shall be authorized using an Emergency Exposure Authorization sheet (Form IP-1023-6).</p>	
<p>12.0 Acquire and allocate ConEd and external resources as needed to support emergency response.</p> <p>12.1 Review personnel, equipment and supply needs with the EPM.</p> <p>12.2 Make all Nuclear Organization resources available to supply needed items.</p> <p>12.3 Direct the EOF Manager to interface and coordinate with the ConEd Corporate organization to acquire needed equipment and resources that are not under the direct control of the Nuclear Organization.</p> <p>12.4 Request support from INPO and Federal authorities when needed.</p>	
<p>13.0 IF the emergency is classified as a General Emergency THEN direct evacuation of onsite non-essential personnel.</p>	
<p>14.0 IF the emergency is classified as a Site Area Emergency THEN review procedure IP-1027, Personnel Accountability and Evacuation for evacuation or dismissal of non-essential personnel.</p>	

Attachment 1

Emergency Director Checklist

Sheet 8 of 8

<u>Continuous Responsibility/Activity (cont.)</u>	
<p>15.0 Terminate the emergency and enter the Recovery Phase.</p> <p>15.1 Refer to IP-1048, Termination and Recovery, for guidance on entry into Recovery Phase.</p> <p>15.2 Identify and assign a Recovery Manager.</p> <p>15.3 Notify the Recovery Manager of the intention to enter recovery and request his/her presence in the EOF.</p> <p>15.4 IF there was a radiological release THEN direct the Emergency Plant Manager to have a survey team survey the Recovery Center (Vice President, Nuclear Power Office complex, 72' elevation).</p> <p>15.5 Terminate the emergency and officially enter the Recovery Phase.</p> <p>15.6 Formally turnover the emergency organization to the Recovery Manager</p> <p>15.7 Direct notification of the following locations that Indian Point has entered the Recovery Phase:</p> <ul style="list-style-type: none"> A. The NRC via Energy Notification System (ENS) B. State and Counties using a NYS Radiological Emergency Data Form – Part I, via the RECS C. Corporate Information Group (CIG) D. All activated emergency response centers (TSC/OSC and JNC) <p>15.8 Ensure that a written summary of the event is provided to State and Counties per IP-1048, Termination and Recovery</p>	
<u>Closeout Responsibility/Activity</u>	
<p>16.0 Direct all Emergency Response Organization Managers to review documentation generated during the emergency</p> <p>16.1 Verify all required documentation has been completed.</p> <p>16.2 Verify accuracy of documentation.</p> <p>16.3 Provide additional documentation such as summary reports or closeout reports that could assist in recovery of station.</p>	
<p>17.0 Have ERO members provide all logs and records to the Recovery Manager upon termination of the emergency and entry into the Recovery Phase.</p>	

Attachment 2
EOF Manager
Sheet 1 of 10

<u>Initial Responsibility/Activity</u>	<u>Notes</u>
<p>1.0 Assume the position of EOF Manager.</p> <p>1.1 Upon arrival at the EOF review facility status boards, EDDS information and any other available sources to become familiar with current plant status.</p> <p>1.2 Obtain briefing from the Emergency Director</p> <p>A. Use an Essential Information Checklist (Form IP-1035-2) to document briefing items.</p> <p>B. Request any additional information on current status of emergency response.</p> <p>1.3 <u>IF</u> the EOF has <u>NOT</u> been activated <u>THEN</u>:</p> <p>A. <u>IF</u> the NYS Radiological Emergency Data Form (Part I & II) completed by the CCR are not available in the EOF <u>THEN</u>. Request CCR fax copies to EOF</p> <p>B. Review notification forms, noting time next notification is due.</p> <p>C. Assign individuals to the following positions:</p> <ol style="list-style-type: none"> 1. ED Technical Advisor 2. Offsite Radiological Assessment Director (ORAD) 3. Dose Assessment Health Physicist (DAHP) 4. MIDAS Operator 5. EOF Communicator #1 6. EOF Communicator #2 7. EOF Clerical Staff <p>D. <u>WHEN</u> the following minimum staff is available <u>THEN</u> inform the On-Call ED that you are ready to activate the EOF.</p> <ol style="list-style-type: none"> 1. Offsite Radiological Assessment Director (ORAD) 2. EOF Communicator #2 3. Additional personnel as deemed necessary for the EOF to perform it's functions based on the current emergency conditions. <p>E. Review Normal EOF Staffing (Form IP-1030-2) to verify full EOF Staffing.</p>	

Attachment 2
EOF Manager
 Sheet 2 of 10

<u>Initial Responsibility/Activity(cont.)</u>	<u>Notes</u>
<p>F IF additional personnel are required THEN:</p> <ol style="list-style-type: none"> 1. IF it is during normal working hours THEN call or assign someone to call Access Control (ext. 5327) in the Energy Education Center for additional personnel. 2. IF the needed individuals are NOT available onsite THEN call or assign someone to call individuals at home using the Emergency Telephone Directory. <p>G WHEN the On-Call Emergency Director assumes ED responsibilities from the acting ED in the CCR THEN:</p> <ol style="list-style-type: none"> 1. Inform the following locations that _____ (name) _____ is now the Emergency Director and that the EOF is activated. <ol style="list-style-type: none"> (a) TSC – TSC Manager (734-5587) (b) CCR – Shift Manager (734-5299) (c) JNC (if activated) – Utility Work Room (734-5065) (d) CIG (212-580-8689) 2. Direct EOF Communicator #2 to inform the NRC via the ENS phone that the EOF is activated. <p>H Establish EOF Security</p> <ol style="list-style-type: none"> 1. Request temporary guard for EOF entrance from the Site Security Supervisor 2. Direct Security to allow access only to personnel who show a valid ID from the following organizations unless authorized: <ol style="list-style-type: none"> (a) ConEd or NYPA (b) State, Counties (Putnam, Orange, Rockland or Westchester) or PSC (c) NRC or FEMA <p>I. Send (or ensure they have reported) State and County Liaisons to EOCs. Provide them with the following directions:</p> <ol style="list-style-type: none"> (a) Direct that the Liaisons should provide technical assistance to EOC personnel and direct any other request to the EOF (b) Direct the Liaisons NOT to talk to the press and direct any media questions to the JNC 	

Attachment 2
EOF Manager
Sheet 3 of 10

<u>Initial Responsibility/Activity(cont.)</u>	<u>Notes</u>
<p>J Notify or direct the EOF Communicator #2 to notify Offsite Agencies that the EOF is now activated:</p> <ol style="list-style-type: none"> 1. NRC via ENS 2. NYS and 4 Counties via RECS <p>1.4 IF relieving another EOF Manager THEN perform a formal turnover with the current EOF Manager:</p> <ol style="list-style-type: none"> A Review the Emergency Director’s activity log B Obtain briefing form current EOF Manager on the emergency and any actions the have been completed or are in progress. C Announcement to the EOF that you are now the EOF Manager. 	
<u>Continuous Responsibility/Activity</u>	<u>Notes</u>
<p>2.0 Maintain personnel accountability in the EOF</p> <p>2.1 Direct EOF personnel to inform you and sign out with Security if they must temporarily leave the EOF.</p> <p>2.2 IF you are temporarily leaving the work area THEN</p> <ol style="list-style-type: none"> A Inform the Emergency Director if you are leaving the work area. B Upon return, obtain a briefing from the Emergency Director on any events that have occurred while you were away. 	
<p>3.0 Assist the ED in maintenance of ED Log</p> <p>3.1 Use Form IP-1023-4, ERO Log Sheet to log information.</p> <p>3.2 Log when the Emergency Director assumed the duties of ED (and EOF activation if not previously done).</p> <p>3.3 Log when you assumed the duties of EOF Manager.</p> <p>3.4 Log significant decisions and important details used to make decisions. (Emergency classification changes and protective actions recommendations shall be logged)</p> <p>3.5 Log significant communications with other members of the ERO and all communications with individuals offsite.</p>	

Attachment 2
EOF Manager
 Sheet 4 of 10

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>4.0 Keep the ED informed of changing conditions that may cause an upgrade in the Emergency Classification.</p> <p>4.1 Review plant data with ED Technical Advisor</p> <p>4.2 Review offsite radiological data with ORAD.</p> <p>4.3 Compare current information and recommendations with EAL Wall Chart, Procedure IP-1024, Emergency Classification and the EAL Technical Basis Document.</p> <p>4.4 Inform the ED of any possible changes in the Emergency Classification</p>	
<p>5.0 Assist the ED in determining the appropriate Protective Action Recommendations to Offsite Authorities.</p> <p style="text-align: center;">NOTE:</p> <p>Protective Action Recommendations (PARs) will only be made for the General Emergency Classification</p> <p>5.1 Determine with the assistance of the ORAD the appropriate PAR per IP-1013, Protective Action Recommendations</p> <p>5.2 Reevaluate the adequacy of PARs when plant conditions, dose projection, meteorological, or environmental measurements change.</p> <p>5.3 Confer with State authorities prior to PAR issuance, if possible.</p> <p>5.4 Once the ED makes or changes a PAR it shall be transmitted to offsite authorities using a NYS Radiological Emergency Data Form, Part I, within 15 minutes of the decision to make the PAR.</p>	
<p>6.0 Notify the Nuclear Facility Safety Committee (NFSC) Chairman</p> <p>6.1 IF the classification was due to exceeding Technical Specifications 2.1 or 2.2 limits THEN inform the NFSC Chairman that the T.S. has been exceeded.</p>	

Attachment 2
EOF Manager
 Sheet 5 of 10

<u>Continuous Responsibility/Activity (cont.)</u>	
<p>7.0 IF the ED changes the emergency classification THEN ensure notification of State and Local authorities be completed within 15 minutes.</p> <p>7.1 Complete (or designate the completion of) a NYS Radiological Emergency Data Form (Part I)</p> <p>7.2 Have the ED review and approve the completed NYS Radiological Emergency Data Form (The ED approval is non-delegable).</p> <p>7.3 Direct EOF Communicator #2 to transmit data on form to State and Local authorities and report to you when task is complete.</p> <p>7.4 Direct transmittal of form data to NRC as soon as possible but no later than 1 hour.</p>	
<p>8.0 Direct periodic updates to offsite authorities be prepared</p> <p style="text-align: center;">NOTE:</p> <p>Completion and transmittal of part II of the NYS Radiological Emergency Data Form may not be needed if there has been no significant release of radioactive materials.</p> <p>8.1 Complete (or designate the completion of) a NYS Radiological Emergency Data Form (Parts I & II) at the following times:</p> <p style="margin-left: 20px;">A When there has been a significant change in release rates and/or meteorological data.</p> <p style="margin-left: 20px;">B When there has been a significant change in plant conditions.</p> <p style="margin-left: 20px;">C OR approximately every 30 minutes if conditions are static.</p> <p>8.2 Present completed form to the ED for review and approval. (The ED's Approval is non-delegable.)</p> <p>8.3 Direct EOF Communicator #2 to transmit data on form to State and Local authorities and the NRC and report to you when task is complete.</p>	

Attachment 2
EOF Manager
 Sheet 6 of 10

<u>Continuous Responsibility/Activity (cont.)</u>	
<p>9.0 Assist the ED in briefing offsite representatives (State, Local, FEMA and NRC)</p> <p>9.1 Upon their arrival at the facility, offsite representatives should be briefed on:</p> <ul style="list-style-type: none"> A. emergency events B. current plant conditions C. emergency response activities currently underway D. offsite radiological release status E. dose assessment and PARs <p>9.2 Coordinate with ED the periodic briefing of offsite representatives as deemed appropriate.</p>	
<p>10.0 Evaluate the need to evacuate all Non-Essential Personnel and recommend evacuation to ED if conditions warrant.</p> <p>10.1 Check with the EPM on conditions within the Protected Area and the ORAD on conditions outside the Protected Area.</p> <p>10.2 Review IP-1027, Personnel Accountability and Evacuation</p> <p>10.3 Evacuation should occur at a Site Area Emergency, if radiological plume direction does not preclude.</p> <p>10.4 <u>IF</u> conditions exist at an Alert that could warrant evacuation <u>THEN</u> consider evacuation of non-essential personnel from site.</p>	
<p>11.0 Assist the ED in periodic facility briefings</p> <p>11.1 Coordinate with the Emergency Director to schedule the conduct of periodic facility briefings. Establish a briefing schedule of approximately every 30 minutes or as conditions change.</p> <p>11.2 Use Form IP1035-2, Essential Information Checklist as a guide for leading the briefings.</p> <p>11.3 Direct the ED Technical Advisor and the ORAD to participate in briefing facility personnel on current plant status and offsite radiological conditions respectively.</p> <p>11.4 Emphasize what the major tasks and priorities are.</p>	

Attachment 2
EOF Manager
Sheet 7 of 10

<u>Continuous Responsibility/Activity (cont.)</u>	
<p>12.0 Track EOF Staff emergency exposures.</p> <p>12.1 Monitor actual or potential EOF personnel exposures or potential exposures and request ED to authorize emergency exposures and the issuance of KI to ConEd emergency workers outside the Protected Area. (ED authorization of emergency exposures is non-delegable)</p> <p>12.2 IF EOF staff must receive exposure THEN request the ED authorize emergency exposures up to 1 Rem TEDE for all monitoring team personnel dispatched from the EOF and remainder of staff as required. Document this authorization in the ED's ERO Log Sheet.</p> <p>12.3 IF emergency measures require additional exposure THEN request the ED to raise the emergency exposure limit 1 Rem at a time up to a total exposure of 5 Rem.</p> <p>12.4 Evaluate when requested by ORAD, emergency exposures beyond 5 Rem on an individual basis. Request the ED authorize these exposures using Form IP-1023-6, Emergency Exposure Authorization general guidelines (more details are listed on the authorization form).</p> <p>A. ERO members may receive up to 5 Rem TEDE (per event) for any required emergency activities.</p> <p>B. ERO members may be authorized emergency exposures up to 10 Rem TEDE to protect vital equipment.</p> <p>C. ERO members may be authorized emergency exposures up to 25 Rem TEDE to save a life.</p> <p>D. Individuals may volunteer to receive greater than 25 Rem TEDE to save a life.</p> <p>E. Authorize the issuance of KI when requested for any large exposures or expected large exposures to the thyroid.</p>	

Attachment 2
EOF Manager

Sheet 8 of 10

<u>Continuous Responsibility/Activity (cont.)</u>	
13.0	IF additional resources are need to support emergency response THEN assist ED in making request to Federal agencies or other non-ConEd organizations.
14.0	Relocation of the EOF
14.1	<p>IF the following conditions are present THEN perform an organized evacuation of the EOF to the AEOF.</p> <ul style="list-style-type: none"> • Exposure rates > 80 mRem/Hr TEDE OR 500mRem/Hr TODE • Projected Whole Body Dose for a 12 hour period is > 1 Rem TEDE OR Thyroid Dose >5 Rem TODE • Airborne concentrations which may result in exceeding occupational limits for inhalation specified in 10CFR20, Appendix B, Table 1. <p>Evacuation may be performed at rates below those listed based on plant conditions and response needs.</p>
14.2	IF there has been a core melt sequence where large amounts of fission products (other than noble gases) are in the containment atmosphere AND containment failure is judged imminent THEN consider starting relocation to the AEOF.
14.3	IF time permits THEN have a relief shift report to the AEOF and perform turnover prior to evacuation of EOF.
14.4	<p>Determine the speed at which the relocation of personnel should occur giving consideration to the following items:</p> <ol style="list-style-type: none"> A. Consider the impact of immediate relocation vs. projects in progress. B. Current radiological conditions within the EOF and the Plant. C. Radiological conditions en route. D. The adequacy of response from the alternate location.
14.5	Coordinate evacuation of the EOF with the ED and the EPM transferring ED responsibilities back to the EPM if another ED can not assume responsibilities at the AEOF
14.6	Direct copies of Addendum 8, Directions to AEOF be provided to EOF Staff.
14.7	Request that the EPM announce the decision to evacuate and ensure relief shift is made aware of re-location.

Attachment 2
EOF Manager
Sheet 9 of 10

<u>Continuous Responsibility/Activity (cont.)</u>	
<p>15.0 Termination of the emergency and entering the Recovery Phase. (The ED is responsible for directing entry into the Recovery Phase)</p> <p>15.1 Refer to IP-1048, Termination and Recovery, for guidance on entry into Recovery Phase.</p> <p>15.2 The ED shall assign a Recovery Manager</p> <p>15.3 Notify the Recovery Manager of the intention to enter recovery and request his/her presence in the EOF</p> <p>15.4 IF there was a radiological release THEN direct the Emergency Plant Manager to have a survey team survey the Recovery Center.</p> <p>15.5 De-escalate the Emergency and officially enter the Recovery Phase</p> <p>15.6 Formally turnover the emergency organization to the Recovery Manager</p> <p>15.7 Notify the following locations that Indian Point has entered the Recovery Phase:</p> <ul style="list-style-type: none"> A. The NRC via Energy Notification System (ENS) B. State and Counties using information on a NYS Radiological Emergency Data Form Part I, via the RECS C. Corporate Information Group D. All activated emergency response centers (TSC/OSC and JNC) <p>15.8 Ensure that a written summary of the event is provided to State and Counties per IP-1048, Termination and Recovery</p>	

Attachment 2
 EOF Manager
 Sheet 10 of 10

<u>Closeout Responsibility/Activity</u>	
16.0	Direct EOF Staff to return all equipment to proper storage locations.
17.0	Review all documentation the EOF Staff maintained during the emergency:
17.1	Ensure logs, forms and other documentation are complete
17.2	Ensure all temporary procedures used and/or developed are properly documented for use by Recovery Organization so that necessary actions can be taken for plant operations
18.0	Provide all logs and records to the Recovery Manager upon termination of the emergency and entry into the Recovery Phase.

Attachment 3
Offsite Radiological Assessment Director (ORAD)
Sheet 1 of 8

<u>Initial Responsibility/Activity</u>	<u>Notes</u>
<p>1.0 Assume the position of ORAD.</p> <p>1.1 Review facility status boards, EDDS information and any other available sources to become familiar with current plant status.</p> <p>1.2 Obtain briefing from the EOF Manager or Emergency Director</p> <p style="padding-left: 20px;">A. Use an Essential Information Checklist (Form IP-1035-2) to document briefing items.</p> <p style="padding-left: 20px;">B. Request any additional information on current status of emergency response.</p> <p>1.3 <u>IF</u> the EOF has <u>NOT</u> been activated <u>THEN</u>:</p> <p style="padding-left: 40px;"><u>NOTE:</u> Offsite Dose Assessment and Radiological Monitoring responsibilities may be transferred to the ORAD before the EOF is fully activated.</p> <p style="padding-left: 20px;">A. <u>WHEN</u> the following minimum staff is available <u>THEN</u> inform the EOF Manager or the ED that you are ready to assume responsibilities for offsite dose assessment and offsite monitoring.</p> <p style="padding-left: 40px;">1. On or Offsite Survey Team Members (2)</p> <p style="padding-left: 40px;">2. EOF Communicator #1</p> <p style="padding-left: 20px;">B. <u>WHEN</u> ready to assume dose assessment and offsite (outside Protected Area) monitoring responsibilities from the CCR <u>THEN</u> contact the CCR and formally assume these responsibilities.</p> <p style="padding-left: 20px;">C. Review Normal EOF Staffing (Form IP-1030-2) to verify full EOF Staffing for offsite radiological tracking.</p> <p style="padding-left: 20px;">D. <u>IF</u> additional personnel are required <u>THEN</u> inform the EOF Manager to direct callout of needed personnel.</p> <p style="padding-left: 20px;">E. Notify the EOF staff that you have assumed these responsibilities.</p>	

Attachment 3
Offsite Radiological Assessment Director (ORAD)

Sheet 2 of 8

<u>Initial Responsibility/Activity (con't)</u>	<u>Notes</u>
<p>F Direct the MIDAS Operator to disarm (or disarm IAW steps in MIDAS Operator's Checklist) the Halon Fire Protection System (Real emergencies only)</p> <p>G <u>IF</u> there has been a release of radioactive to the environment <u>THEN:</u></p> <ol style="list-style-type: none"> 1. Direct the MIDAS Operator to place (or place IAW steps in MIDAS Operator's Checklist) the EOF ventilation in the internal recirculation mode. 2. Contact the Unit #3 Control Room and request that NYPA Offsite Monitoring Teams report to EOF <p>H <u>IF</u> the CCR performed offsite dose assessments and made a Protective Action Recommendation <u>THEN:</u></p> <ol style="list-style-type: none"> 1. Obtain and review NYS Radiological Emergency Data Form - Part I and Part II 2. Verify or have the Dose Assessment HP verify dose assessment calculations. 3. Evaluate Protective Action Recommendations. 4. Notify the ED or CCR if there are any discrepancies. <p>1.4 <u>IF</u> relieving another ORAD <u>THEN</u> perform a formal turnover with the current ORAD:</p> <ol style="list-style-type: none"> A Review the current ORAD's activity log B Obtain briefing form current ORAD on the emergency and any actions the have been competed or are in progress. C Make an announcement to the EOF Staff that you are now the ORAD. 	

Attachment 3

Offsite Radiological Assessment Director (ORAD)

Sheet 3 of 8

<u>Continuous Responsibility/Activity</u>	<u>Notes</u>
<p>2.0 Ensure habitability surveys are performed in the EOF</p> <p>2.1 Assign an HP Technician to the position of Survey Team Health Physicist (STHP) providing them the following instructions:</p> <p style="padding-left: 20px;">A Perform steps in Attachment 6, Survey Team Health Physicist (STHP) Checklist</p> <p>2.2 IF there is a potential for surface or airborne contamination with in the EOF THEN</p> <p style="padding-left: 20px;">A Suspend eating and drinking until you ensure EOF food and drinking water supplies are consumable.</p> <p style="padding-left: 20px;">B Determine the survey and radiological controls needed for the EOF based on plant conditions and whether there has been a release or not.</p> <p style="padding-left: 20px;">C Provide further guidance to STHP on frequency of surveys and on the level of contamination controls required.</p> <p>2.3 IF the following conditions are present THEN inform the EOF Manager and/or the ED that an organized evacuation of the EOF to the AEOF should be considered.</p> <ul style="list-style-type: none"> • Exposure rates > 80 mRem/Hr TEDE OR 500mRem/Hr TODE • Projected Whole Body Dose for a 12 hour period is > 1 Rem TEDE OR Thyroid Dose >5 Rem TODE • Airborne concentrations which may result in exceeding occupational limits for inhalation specified in 10CFR20, Appendix B, Table 1. <p>2.4 Evacuation may be performed at rates below those listed based on plant conditions and response needs.</p>	

Attachment 3
Offsite Radiological Assessment Director (ORAD)

Sheet 4 of 8

<p>3.0 Maintain personnel accountability in the EOF</p> <p>3.1 Keep apprised of the whereabouts of Field Monitoring Teams and other personnel assigned to you at all times.</p> <p>3.2 <u>IF</u> you are temporarily leaving the work area <u>THEN</u></p> <p style="padding-left: 20px;">A Inform the EOF Manager if you are leaving the work area.</p> <p style="padding-left: 20px;">B Upon return, obtain a briefing from the EOF Manager on any events which have occurred while you were away.</p>	
<p>4.0 Maintain a Log</p> <p>4.1 Use Form IP-1023-4, ERO Log Sheet to log information.</p> <p>4.2 Log when you assumed the duties of ORAD.</p> <p>4.3 Log significant decisions and important details used to make decisions.</p>	
<p>5.0 Develop and provide recommendations for EAL and classification level changes based on radiological considerations to the ED.</p> <p>5.1 Compare dose projection and field survey results with EAL criteria to determine the impact on the existing classification level.</p> <p>5.2 Notify the ED of any EALs effected by changes in radiological conditions.</p>	
<p>6.0 Develop and provide recommendations for offsite PARs based on radiological considerations to the ERM.</p> <p>6.1 Notify the ED of any changes in radiological conditions which may effect the PAR</p> <p>6.2 Use procedure IP-1013, Protective Action Recommendations to determine proper PAR.</p> <p>6.3 Document ConEd PARs whenever a General Emergency is declared.</p> <p>6.4 Review PARs whenever radiological conditions change significantly.</p>	

Attachment 3
Offsite Radiological Assessment Director (ORAD)

Sheet 4 of 8

<u>Continuous Responsibility/Activity (con't)</u>	<u>Notes</u>
<p>7.0 Maintain communications with the TSC Radiological Advisor to discuss radiological conditions and on and off site response actions.</p> <p>7.1 Contact the TSC Radiological Advisor for information on releases or potential releases and plant conditions which may lead to offsite radiological effects.</p> <p>7.2 Periodically contact the TSC Radiological Advisor to provide updates on new dose projections, results of environmental monitoring and to provide technical assistance as needed.</p>	
<p>8.0 Coordinate and direct the dose assessment and environmental monitoring efforts.</p> <p>8.1 Supervise the activities of the Dose Assessment HP, MIDAS Operator, EOF Communicator #1 and the Field Monitoring Teams</p> <p>8.2 Ensure the Health Physics Network (HPN) is manned when requested by the NRC</p> <p>8.3 Determine the periodicity of dose projection calculations.</p> <p style="padding-left: 20px;">A Direct the Dose Assessment HP to perform offsite dose projections using IP-1007, Dose Assessment.</p> <p style="padding-left: 20px;">B Direct MIDAS Operator to obtain dose projections, plume plot and Reuter-Stokes Senti System readings, using IP-1047, Obtaining Offsite Exposure Rates from MIDAS using Data Terminal and IP-1037, Obtaining Offsite Reuter-Stokes Monitoring Data.</p> <p>8.4 Analyze dose assessment and environmental information to determine any actual or potential offsite consequences of the event.</p> <p>8.5 Determine anticipated plume based on meteorological data.</p> <p>8.6 Mark plume front and times on map table map.</p> <p>8.7 Based on projected plume travel path select offsite sample points and indicate them on Form IP-1030-5.</p>	

Attachment 3

Offsite Radiological Assessment Director (ORAD)

Sheet 6 of 8

<u>Continuous Responsibility/Activity (con't)</u>	<u>Notes</u>
<p>8.8 Determine special instructions to be provided to monitoring teams:</p> <p>A IF the expected thyroid dose is greater than 25 Rem THEN consider issuing KI</p> <p>B Team tracking efforts should be directed to limit their exposure to less than 5 Rem for the entire emergency.</p> <p>8.9 Teams should not go into radiation fields greater than 1 Rem/hr without specific directions from you. Direct On and Offsite Monitoring to survey anticipated plume path:</p> <p>A Direct EOF Communicator #1 to:</p> <ol style="list-style-type: none"> 1. Brief teams on expected doses, plume path and any special instructions or safety precautions (such as use of KI, respirators, or protective clothing). 2. Have teams pick up samples from designated sample points. 3. Direct environmental monitoring be performed to confirm dose projections and track any offsite radioactive plume. <p>8.10 Compare projected doses with actual readings taken by field monitoring teams.</p> <p>8.11 Determine which ERPAs are affected by any release and verify proper PARs have been issued.</p> <p>8.12 Conduct periodic briefings with the ED and the EOF Manager to discuss the status of offsite radiological information and assessments.</p> <p>8.13 Compare dose assessment and environmental monitoring efforts with state personnel in the State EOC and/or in the EOF.</p> <p>8.14 Compare dose assessment and environmental monitoring efforts with the NRC Environmental Dose Assessment Coordinator once the NRC Site Team is in the EOF.</p>	

Attachment 3

Offsite Radiological Assessment Director (ORAD)

Sheet 7 of 8

<p>9.0 Evaluate and direct the requirements for offsite emergency exposure.</p> <p>9.1 Track EOF Staff emergency exposures.</p> <p>A Monitor EOF personnel exposures or potential exposures and request ED to Authorize Emergency Exposures and the issuance of KI to ConEd emergency workers outside the Protected Area. (ED authorization of exposures is non-delegable)</p> <p>B IF EOF staff must receive exposure THEN request the ED authorize emergency exposures up to 1 Rem TEDE for all monitoring team personnel dispatched from the EOF and remainder of staff as required. This authorization shall be documented in the ED's ERO Log Sheet.</p> <p>C IF emergency measures require additional exposure THEN request the ED to the raise the emergency exposure limit 1 Rem at a time up to 5 Rem.</p> <p>D Emergency exposures beyond 5 Rem shall be authorized on an individual basis. Request the ED authorize these exposures using Form IP-1023-6, Emergency Exposure Authorization. General guidelines (more details are listed on authorization form)</p> <ol style="list-style-type: none">1. ERO members may receive up to 5 Rem TEDE (per event) for any required emergency activities.2. ERO members may be authorized emergency exposures up to 10 Rem TEDE to protect vital equipment.3. ERO members may be authorized emergency exposures up to 25 Rem TEDE to save a life.4. Individuals may volunteer to receive greater than 25 Rem TEDE to save a life. <p>9.2 Request authorization for the issuance of KI for any large exposures or expected large exposures to the thyroid.</p> <p>9.3 Direct the use of protective clothing and respirators as necessary for ConEd workers outside the Protected Area.</p> <p>9.4 IF emergency workers are exposed to airborne activities THEN make arrangements for monitoring internal exposures.</p>	
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Attachment 3
Offsite Radiological Assessment Director (ORAD)

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<u>Continuous Responsibility/Activity</u> (con't)	<u>Notes</u>
<p>10.0 Report releases to the Environmental Protection Agency (EPA)</p> <p>10.1 IF any radionuclide release exceeds the value listed in Appendix B to § 302.4, (Form IP-1030-4) Title 40CFR302 THEN</p> <p>A Notify the EPA National Response Center (phone number in Emergency Telephone Directory).</p> <p>B Direct Communicator to identify report is pursuant to 40CFR302.</p> <p>10.2 Document details of any communications with EPA.</p>	
<p><u>Closeout Responsibility/Activity</u></p>	
<p>11.0 Direct Staff to return all equipment to proper storage locations.</p>	
<p>12.0 Review all documentation the EOF Radiological Staff maintained during the emergency:</p> <p>12.1 Ensure logs, forms and other documentation are complete</p> <p>12.2 Ensure all temporary procedures used and/or developed are properly documented for use by Recovery Organization so that necessary actions can be taken for plant operations</p>	
<p>13.0 Provide all logs and records to the Recovery Manager upon termination of the emergency and entry into the Recovery Phase.</p>	

Attachment 4
Dose Assessment Health Physicist (DAHP)

Sheet 1 of 4

<u>Initial Responsibility/Activity</u>	<u>Notes</u>
<p>1.0 Assume the position of DAHP.</p> <p>1.1 Review facility status boards, EDDS information and any other available sources to become familiar with current plant status.</p> <p>1.2 Obtain briefing from the ORAD or EOF Manager</p> <p style="padding-left: 20px;">A. Use an Essential Information Checklist (Form IP-1035-2) to document briefing items.</p> <p style="padding-left: 20px;">B. Review NYS Radiological Emergency Data Form, Part II if copy is available.</p> <p style="padding-left: 20px;">C. Request any additional information on current status of emergency response.</p> <p>1.5 <u>IF</u> relieving another DAHP <u>THEN</u> perform a formal turnover with the current DAHP:</p> <p style="padding-left: 20px;">D Review the current DAHP activity log</p> <p style="padding-left: 20px;">E Obtain briefing form current DAHP on the emergency and any actions the have been competed or are in progress.</p> <p>1.3 Inform the ORAD that you are now the DAHP.</p>	
<u>Continuous Responsibility/Activity</u>	<u>Notes</u>
<p>2.0 <u>IF</u> you are temporarily leaving the work area <u>THEN</u></p> <p>2.1 Inform the ORAD you are leaving the work area.</p> <p>2.2 Upon return, obtain a briefing from the ORAD on any events which have occurred while you were away.</p>	
<p>3.0 Maintain a Log</p> <p>3.1 Use Form IP-1023-4, ERO Log Sheet to log information.</p> <p>3.2 Log when you assumed the duties of DAHP.</p> <p>3.3 Log significant decisions and important details used to make decisions.</p>	

Attachment 4
Dose Assessment Health Physicist (DAHP)

Sheet 2 of 4

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>4.0 Evaluate Plant Radiological Data</p> <p>4.1 Obtain Form 42c data from EDDS display, SAS printouts or fax copies received from the TSC.</p> <p>4.2 Review radiation monitor readings and evaluate for actual or potential radiological releases.</p> <p>4.3 Contact the TSC Radiological Advisor for additional information on plant radiological conditions and assistance in interpreting data.</p> <p>4.4 IF there are any indications of a radiological release THEN perform step 5.0 of this checklist.</p>	
<p>5.0 <u>IF there has been a release or potential release of radioactive materials from the plant THEN:</u></p> <p>5.1 Give meteorological data, iodine to noble gas ratio and release rates to the MIDAS operator and direct him/her to perform dose projections</p> <p><u>OR</u></p> <p>5.2 Perform dose projections utilizing procedure IP-1007, Dose Assessment.</p>	
<p>6.0 Assist the ORAD in directing Onsite and Offsite Monitoring Teams to survey locations.</p> <p>6.1 Use overlays to obtain an approximation of the plume location</p> <p>6.2 Determine which emergency sampling sites would be appropriate to send the offsite monitoring teams to.</p> <p>6.3 Use Xu/Q values to approximate relative values between locations.</p>	

Attachment 4
Dose Assessment Health Physicist (DAHP)

Sheet 3 of 4

<u>Continuous Responsibility/Activity</u> (con't)	<u>Notes</u>
<p>7.0 Evaluate the offsite survey data.</p> <p>7.1 Calculate the charcoal / silver zeolite iodine and particulate activities using procedure IP-1020, Airborne Radioiodine Determination.</p> <p>7.2 Determine the equivalent thyroid and whole body exposure rates utilizing Procedure IP-1007, "Dose Assessment"</p> <p>7.3 Complete Form IP-1030-5, Offsite Survey Data and review data with the ORAD</p>	
<p>8.0 Establish communications with the NRC via the HPN phone line.</p> <p>8.1 Dial the number listed on the V-Band console or listed in the Emergency Telephone Directory.</p> <p>8.2 Inform the NRC that the EOF is activated and performing offsite dose assessment activities. Brief them on any potential releases and answer any questions.</p> <p>8.3 <u>IF</u> requested by the NRC to stay on <u>THEN</u> stay on the line and request the ORAD to locate another individual to assist in HPN line communications.</p> <p>8.4 <u>IF</u> continuous communications are not requested <u>THEN</u> receive calls from the NRC on the HPN when phone rings.</p>	

Attachment 4
Dose Assessment Health Physicist (DAHP)

Sheet 4 of 4

<u>Continuous Responsibility/Activity</u> (con't)	<u>Notes</u>
<p>9.0 Review Reuter-Stokes Sentri readings.</p> <p>9.1 Obtain the readings from the MIDAS Operator</p> <p>9.2 Compare the projected values and the measured offsite exposure rates with the Reuter-Stokes readings</p> <p>9.3 <u>IF</u> there are large discrepancies <u>THEN</u> Inform the ORAD and continue to gather and analyze data to resolve values.</p> <p>9.4 Present Reuter-Stokes data to ORAD for review</p>	
<u>Closeout Responsibility/Activity</u>	
<p>10.0 Return all equipment to proper storage locations.</p>	
<p>11.0 Review all documentation the DAHPs maintained during the emergency:</p> <p>A. Ensure logs, forms and other documentation are complete</p> <p>B. Ensure any items which need follow up investigations are identified to be completed during the Recovery Phase</p>	
<p>12.0 Provide all logs and records to the ORAD upon termination of the emergency and entry into the Recovery Phase.</p>	

Attachment 5
MIDAS Operator

Sheet 1 of 4

<u>Initial Responsibility/Activity</u>	<u>Notes</u>
<p>1.0 Assume the position of MIDAS Operator.</p> <p>1.1 Sign in on the Facility Sign-in Board</p> <p>1.2 Review facility status boards, EDDS information and any other available sources to become familiar with current plant status.</p> <p>1.3 Obtain briefing from the DAHP or the ORAD</p> <p style="padding-left: 20px;">A. Review NYS Radiological Emergency Data Form, Part II if copy is available.</p> <p style="padding-left: 20px;">B. Request any additional information on current status of emergency response.</p> <p>1.4 <u>IF</u> relieving another MIDAS Operator <u>THEN</u> perform a formal turnover with the current MIDAS Operator:</p> <p style="padding-left: 20px;">A. Review the current MIDAS Operator activity log</p> <p style="padding-left: 20px;">B. Obtain briefing form current MIDAS Operator on the emergency and any actions the have been competed or are in progress.</p> <p>1.5 Inform the DAHP that you are now the MIDAS Operator.</p> <p>1.6 <u>IF</u> the facility has <u>NOT</u> been activated <u>THEN</u></p> <p style="padding-left: 20px;">A. Check operability and availability of MIDAS equipment, Reuter-Stokes Systems and Meteorological data.</p> <p style="padding-left: 20px;">B. Report any equipment problems to the DAHP or ORAD.</p>	
<u>Continuous Responsibility/Activity</u>	<u>Notes</u>
<p>2.0 <u>IF</u> you are temporarily leaving the work area <u>THEN</u></p> <p>2.1 Inform the DAHP or ORAD you are leaving the work area.</p> <p>2.2 Upon return, obtain a briefing from the DAHP or ORAD on any events which have occurred while you were away.</p>	

Attachment 5
MIDAS Operator

Sheet 2 of 4

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>3.0 Maintain a Log</p> <p>3.1 Use Form IP-1023-4, ERO Log Sheet to log information.</p> <p>3.2 Log when you assumed the duties of MIDAS Operator.</p> <p>3.3 Log significant decisions, important details used to make decisions and any equipment operability issues.</p>	
<p>4.0 <u>WHEN</u> directed by the ORAD <u>THEN</u> disarm the EOF Halon System</p> <p>4.1 Obtain the key to the FIKE Fire Suppression System control panel from the EOF key locker.</p> <p>4.2 Open the upper compartment of the FIKE control panel located on the west wall of the EOF next to the key locker.</p> <p>4.3 Toggle the module switch (the switch is located in the lower left corner of the panel.) from the "Armed" position to the "S1" position.</p> <p>4.4 <u>IF</u> the ORAD does <u>NOT</u> direct this action <u>THEN</u> ask the ORAD if the action is required.</p>	
<p>5.0 <u>WHEN</u> directed by the ORAD <u>THEN</u> place the EOF ventilation on internal recirculation.</p> <p>5.1 Obtain the key to the EOF Electrical Equipment Room from the EOF key locker.</p> <p>5.2 Locate the EOF HVAC damper control system switches on the East wall of the EOF Electrical Equipment Room.</p> <p>5.3 Rotate all three (3) damper control knobs CLOCKWISE to close the dampers.</p> <p>5.4 Place the three (3) AC Unit control switches to the "OVERRIDE" (up) position</p> <p>5.5 Inform the ORAD and log when you have placed ventilation system in recirculation and return key to key locker.</p> <p>5.6 <u>IF</u> the ORAD does <u>NOT</u> direct this action <u>THEN</u> ask the ORAD if the action is required.</p>	

Attachment 5
MIDAS Operator

Sheet 3 of 4

<u>Continuous Responsibility/Activity (con't)</u>	<u>Notes</u>
<p>6.0 Maintain the MET Data Status Board</p> <p>6.1 Use procedure IP-1016, Obtaining Meteorological Data to retrieve weather predictions.</p> <p>6.2 Obtain the latest measured MET data from MIDAS every 15 minutes.</p> <p style="padding-left: 20px;">A Update the MET Data Status Board to display the correct data.</p> <p style="padding-left: 20px;">B Notify the ORAD of any changes in the meteorological data.</p> <p>6.3 Obtain weather predictions from MIDAS and/or Weather Bureau</p> <p style="padding-left: 20px;">A Update the MET Data Status Board to display the correct data.</p> <p style="padding-left: 20px;">B Notify the ORAD of any significant changes in the weather forecast data</p>	
<p>7.0 Obtain Reuter-Stokes data.</p> <p>7.1 Use procedure IP-1037, Obtaining Reuter-Stokes Monitor Data to obtain radiological data.</p> <p>7.2 IF any readings indicate above background levels THEN inform the DAHP and ORAD immediately of the readings.</p>	
<p>8.0 Obtain radiological release data and perform dose projections as directed.</p> <p>8.1 Use procedure IP-1022, Obtaining Meteorological and Dose Assessment Data from MIDAS</p> <p>8.2 Review MIDAS dose assessment data with the DAHP and ORAD</p>	

Attachment 5
MIDAS Operator
Sheet 4 of 4

<u>Closeout Responsibility/Activity</u>	
<p>9.0 Rearm the EOF Halon System</p> <p>9.1 Obtain the key to the FIKE Fire Suppression System control panel from the EOF key locker.</p> <p>9.2 Open the upper compartment of the FIKE control panel located on the west wall of the EOF next to the key locker.</p> <p>9.3 Toggle the module switch (the switch is located in the lower left corner of the panel.) from the "S1" (up) position to the "Armed" (down) position.</p>	
<p>10.0 Return the EOF ventilation to normal.</p> <p>10.1 Obtain the key to the EOF Electrical Equipment Room from the EOF key locker.</p> <p>10.2 Locate the EOF HVAC damper control system switches on the East wall of the EOF Electrical Equipment Room.</p> <p>10.3 Rotate all three (3) damper control knobs COUNTER - CLOCKWISE half way to open the dampers.</p> <p>10.4 Place the three (3) AC control switches to the "NORMAL" (down) position</p>	
<p>11.0 Return all equipment used by MIDAS Operators to it's proper storage locations.</p>	
<p>12.0 Review all documentation the MIDAS Operator maintained during the emergency:</p> <p>12.1 Ensure logs, forms and other documentation are complete</p> <p>12.2 Ensure any items which need follow up investigations are identified to be completed during the Recovery Phase</p>	
<p>13.0 Provide all logs and records to the ORAD upon termination of the emergency and entry into the Recovery Phase.</p>	

Attachment 6
Survey Team Health Physicist (STHP)

Sheet 1 of 4

<u>Initial Responsibility/Activity</u>	<u>Notes</u>
<p>1.0 When directed by the ORAD assume the position of STHP.</p> <p>1.1 Sign in on the Facility Sign In Board.</p> <p>1.2 Periodically review this checklist throughout the emergency to determine which actions are appropriate for current conditions.</p> <p>1.3 IF relieving another STHP THEN perform a formal turnover with the current STHP:</p> <p>A. Review the current EOF survey data</p> <p>B. Obtain briefing form current STHP on the emergency and any actions the have been competed or are in progress.</p>	
<u>Continuous Responsibility/Activity</u>	<u>Notes</u>
<p>2.0 Confer with the ORAD or DAHP on the need to set up EOF Radiological Controls. When directed set up EOF entrance as follows:</p> <p>2.1 Set up stanchions, rope barricade, and frisker in the main hall entrance to EOF work area.</p> <p>2.2 Set frisker alarm to two (2) times background.</p> <p>2.3 Set up Step Off Pads (SOPs) at entrance.</p> <p>A IF hallway contamination levels are LESS THAN 1000 dpm/100 cm² THEN use SOP labeled "CHECK SHOES BEFORE STEPPING HERE"</p> <p>B IF hallway contamination levels are GREATER THAN 1000 dpm/100 cm² THEN use SOP labeled "REMOVE PROTECTIVE CLOTHING BEFORE STEPPING HERE"</p> <p>AND</p> <p>C Place a waste receptacle and clean shoe covers near the SOP location.</p> <p>2.4 Post the door in the upper level EOF near the Clerks as "Emergency Exit Only"</p> <p>2.5 Check to ensure door to West stairwell (to upper EOF) is locked.</p>	

Attachment 6
Survey Team Health Physicist (STHP)

Sheet 2 of 4

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>3.0 Monitor Habitability of the EOF</p> <p>3.1 Survey building using an Ion Chamber instrument approximately every 30 minutes. Survey times can be changed at the discretion of the ORAD.</p> <p>3.2 Take Beta and Gamma readings throughout occupied areas of the EOF and hallways record readings on EOF Radiological Survey (Form IP-1030-3).</p> <p>3.3 Take smears at building entrance, EOF entrance and in hallways. Record results on EOF Radiological Survey (Form IP-1030-3)</p> <p>3.4 IF any readings are found to be above background THEN inform the ORAD or DAHP immediately.</p> <p>3.5 Use procedure IP-1041, "Use of Triton to Monitor for Radiogas" to set up the Triton monitor.</p> <p>3.6 IF Triton monitor alarms or surveys indicate contamination THEN monitor air in the EOF</p> <p>A Set up air sampler near HP Work Area</p> <p>B IF beta survey results are greater than 50 mr/hr OR the iodine-131 activity on a charcoal filter cartridge is greater than 10 –8 uCi/cc THEN use silver zeolite filter cartridge.</p> <p>C Set up MS-2/SPA-3 Counter in the lower level of the EOF by the HP area.</p> <p>D Determine airborne air activity using procedure IP-1020, Airborne Activity Determination. Record results EOF Radiological Survey (Form IP-1030-3).</p>	
<p>4.0 IF the Security Guards do NOT bring two (2) radios THEN obtain Emergency Planning Radios</p> <p>4.1 Call the Command Guard House and request they send the two (2) Emergency Planning Radios to the EOF</p> <p>4.2 Provide radios to Security Guards</p>	

Attachment 6

Survey Team Health Physicist (STHP)

Sheet 3 of 4

<u>Continuous Responsibility/Activity</u> (con't)	<u>Notes</u>
<p>5.0 Assign Dosimetry</p> <p>5.1 IF the EOF Security Guards do NOT have a TLD or dosimeter THEN assign a TLD badge and dosimeter to the EOF Security Guards.</p> <p>5.2 Place one (1) each TLD badge and dosimeter in the upper and lower areas of the EOF work areas to monitor EOF personnel exposures.</p> <p>5.3 Ensure Onsite and Offsite Monitoring Team members are issued TLD badges and dosimeter.</p>	
<p>6.0 Personnel Exposure Control - ALARA</p> <p>6.1 IF ConED Emergency Personnel outside the Protected Area must receive emergency exposures THEN confer with the ORAD and EOF Manager to establish controls and limits.</p> <p>A Emergency Exposures may be authorized by the Emergency Director up to 5 Rem for the event regardless of prior year-to-date exposures.</p> <p>B Limits will normally be set at 1 Rem and raised 1 Rem at a time up to 5 Rem.</p> <p style="text-align: center;"><u>NOTE</u></p> <p>EOF Communicator #1 shall track exposures of on and offsite monitoring team members.</p> <p>6.2 IF any ConEd emergency workers outside the Protected Area are receiving radiological exposures THEN record exposures on Individual Exposure Tracking Log (Form IP-1023-3)</p> <p>6.3 Maintain Total Effective Dose Equivalent (TEDE) less than established emergency exposure limits.</p> <p>6.4 IF any worker must receive greater than 5 Rem THEN Have the ORAD request the ED authorize these exposures using Form IP-1023-6, Emergency Exposure Authorization.</p>	
<p>7.0 IF directed to determine thyroid burdens THEN use procedure IP-1005, MS-2 / SPA-3 to Determine Thyroid Burden.</p>	

Attachment 6

Survey Team Health Physicist (STHP)

Sheet 4 of 4

<u>Continuous Responsibility/Activity</u> (con't)	<u>Notes</u>
8.0 <u>IF</u> directed to perform onsite surveys <u>THEN</u> use procedure IP-1028, Onsite (Out of Plant) Field Surveys.	
9.0 <u>IF</u> directed to perform site perimeter surveys <u>THEN</u> use procedure IP-1006, Site Perimeter Survey.	
10.0 <u>IF</u> directed to perform personnel contamination checks and decontamination <u>THEN</u> use procedure IP-1008, Personnel Radiological Check and Decontamination.	
11.0 <u>IF</u> directed to perform vehicle contamination checks and decontamination <u>THEN</u> use procedure IP-1009, Radiological Check and Decontamination of Vehicles.	
12.0 <u>IF</u> directed to check equipment leaving the site <u>THEN</u> use procedure IP-1014, Radiological Check of Equipment Before it leaves the Site.	
<u>Closeout Responsibility/Activity</u>	
<p>13.0 Review all documentation the STHPs maintained during the emergency:</p> <p>13.1 Ensure logs, forms and other documentation are complete</p> <p>13.2 Ensure any items which need follow up investigations are identified to be completed during the Recovery Phase</p>	
14.0 Provide all logs and records to the ORAD upon termination of the emergency and entry into the Recovery Phase.	

Attachment 7
Emergency Director Technical Advisor (TA)
 Sheet 1 of 3

<u>Initial Responsibility/Activity</u>	<u>Notes</u>
<p>1.0 Assume the position of TA.</p> <p>1.1 Sign in on the Facility Sign-in Board</p> <p>1.2 Review facility status boards, EDDS information and any other available sources to become familiar with current plant status.</p> <p>1.3 Confer with the Emergency Director and EOF Manager on emergency status</p> <p>1.4 IF relieving another TA THEN perform a formal turnover with the current TA:</p> <p style="padding-left: 20px;">A. Review the current TA activity log</p> <p style="padding-left: 20px;">B. Obtain briefing form current TA on the emergency and any actions the have been competed or are in progress.</p> <p>1.5 Inform the Emergency Director that you are now the TA.</p>	
<u>Continuous Responsibility/Activity</u>	<u>Notes</u>
<p>2.0 IF you are temporarily leaving the work area THEN</p> <p>2.1 Inform the DAHP or ORAD you are leaving the work area.</p> <p>2.2 Upon return, obtain a briefing from the DAHP or ORAD on any events which have occurred while you were away.</p>	
<p>3.0 Maintain a Log</p> <p>3.1 Use Form IP-1023-4, ERO Log Sheet to log information.</p> <p>3.2 Log when you assumed the duties of Emergency Director Technical Advisor.</p> <p>3.3 Log significant decisions, important details used to make decisions and any equipment operability issues.</p>	

Attachment 7

Emergency Director Technical Advisor (TA)

Sheet 2 of 3

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>4.0 Obtain and monitor plant data:</p> <p>4.1 Monitor plant data and operations information on the EOF-TSC-CCR dedicated phone line.</p> <p>4.2 Monitor plant data on the Emergency Data Display System (EDDS), SAS Computer Terminal and Proteus Computer.</p> <p>4.3 Advise ED on the following items:</p> <ul style="list-style-type: none"> A Any significant change in the condition of the plant B Any observable trends in plant data C Major Operator actions being undertaken D Any condition which may effect the emergency classification. <p>4.4 Advise the ORAD of any observed changes in plant radiological data.</p> <p>4.5 <u>IF</u> any of the EOF plant data computer systems are not functioning <u>THEN</u> inform a SAS/Proteus operator of malfunctions.</p>	
<p>5.0 Maintain Plant Status Chronology on easel pad.</p> <p>5.1 Enter major information on plant status or changes to plant status obtained from CCR or TSC</p> <p>5.2 WHEN easel sheet gets full THEN:</p> <ul style="list-style-type: none"> A Have Clerical Staff transcribe information onto log sheet, place sheet with TA logs. B Have Clerical Staff hang completed easel sheet on the wall between upper and lower levels of EOF. 	
<p>6.0 Assist ED in interpreting plant data</p> <p>6.1 Provide technical advice on plant operating procedures</p> <p>6.2 Provide technical advice on Severe Accident Management Guidelines.</p>	

Attachment 7
Emergency Director Technical Advisor (TA)

Sheet 3 of 3

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>7.0 Assist Emergency Director in conduct of briefings</p> <p>7.1 Assist the ED in preparations for facility briefings.</p> <p>7.2 When directed by the ED provide summary briefings of plant conditions to EOF Staff and/or offsite authorities present in the EOF.</p>	
<p>8.0 Return all equipment to it's proper storage locations.</p>	
<p>9.0 Review all documentation the ED Technical Advisors maintained during the emergency:</p> <p>9.1 Ensure logs, forms and other documentation are complete</p> <p>9.2 Ensure any items which need follow up investigations are identified to be completed during the Recovery Phase</p>	
<p>10.0 Provide all logs and records to the EOF Manager upon termination of the emergency and entry into the Recovery Phase.</p>	

Attachment 8
EOF Communicator No. 1

Sheet 1 of 4

<u>Initial Responsibility/Activity</u>	<u>Notes</u>
<p>1.0 Assume the position of EOF Communicator No. 1.</p> <p>1.1 Review facility status boards, Emergency Data Display System (EDDS) information and any other available sources to become familiar with current plant status.</p> <p>1.2 Obtain briefing from the Dose Assessment HP (DAHP) or the Offsite Radiological Assessment Director (ORAD).</p> <p style="padding-left: 20px;">A. Review onsite and offsite monitoring team data.</p> <p style="padding-left: 20px;">B. Request any additional information on current status of emergency response.</p> <p>1.3 <u>IF</u> relieving another communicator <u>THEN</u> perform a formal turnover with the current EOF Communicator No. 1:</p> <p style="padding-left: 20px;">A. Review the current EOF Communicator No. 1 activity log.</p> <p style="padding-left: 20px;">B. Obtain briefing from current EOF Communicator No. 1 on the emergency and any actions the have been completed or are in progress.</p> <p>1.4 Inform the ORAD and DAHP that you are now EOF Communicator No. 1.</p>	

Attachment 8
EOF Communicator No. 1

Sheet 2 of 4

<u>Continuous Responsibility/Activity</u>	<u>Notes</u>
<p>2.0 Transmit directions to the Offsite Teams</p> <p style="text-align: center;">Note:</p> <p style="text-align: center;">Offsite Teams are designated as Unit # 2 or Unit # 3</p> <p>2.1 Use the Radio or Cell Phones to communicate with teams.</p> <p>2.2 Confer with the ORAD and DAHP to determine the sample points and the expected whole body exposure rates based on dose projections.</p> <p>2.3 Enter selected sample point(s) and assigned team number on Form IP-1030-5, Offsite Survey Team Data Sheet.</p> <p>2.4 Contact the each team and direct them to the designated sample point providing following information:</p> <p style="margin-left: 40px;">A The expected whole body dose rates</p> <p style="margin-left: 40px;">B Methods of traversing the plume to keep their exposure as low as possible, such as going around plume or traveling through low field areas.</p> <p>2.5 Have teams verify instructions by repeating them back.</p>	
<p>3.0 Receive and Record Offsite Monitoring Team Data</p> <p>3.1 Have teams state sample point for which data is being transmitted.</p> <p>3.2 Record survey data on Form IP-1030-5, Offsite Survey Team Data Sheet.</p> <p>3.3 Verify numbers by repeating values back to Team</p> <p>3.4 Inform the ORAD or DAHP immediately of survey and sample results</p>	

Attachment 8
EOF Communicator No. 1

Sheet 3 of 4

<u>Continuous Responsibility/Activity (con't)</u>	<u>Notes</u>
<p>4.0 <u>Receive and Record Onsite Monitoring Team Data</u></p> <p>4.1 Have teams state sample locations for which data is being transmitted.</p> <p>4.2 Record survey data on Form 10, Monitoring Team Field Survey.</p> <p>4.3 Verify numbers by repeating values back to each team.</p> <p>4.4 Inform the ORAD or DAHP immediately of survey and sample results.</p>	
<p>5.0 <u>Maintain Onsite and Offsite Monitoring Team Exposure Records.</u></p> <p>5.1 <u>IF</u> any exposure rates are above background <u>THEN</u> obtain team member whole body exposure (dosimetry readings) each time they radio or call in.</p> <p>5.2 <u>IF</u> any team members are receiving radiological exposures <u>THEN</u> record exposures on Individual Exposure Tracking Log (Form IP-1023-3)</p>	
<p>6.0 <u>Keep Onsite and Offsite Teams informed of major changes in emergency status:</u></p> <p>6.1 Changes in emergency classification.</p> <p>6.2 Start or stop of any offsite releases of radioactive materials.</p>	
<p>7.0 <u>Obtain new sample locations and points from ORAD</u></p> <p>Repeat above steps to continue plume tracking until ORAD determined surveys and sampling are no longer necessary.</p>	

Attachment 8
EOF Communicator No. 1

Sheet 4 of 4

<u>Closeout Responsibility/Activity</u>		
8.0	Return all equipment to proper storage locations.	
9.0	Review all documentation EOF Communicator No. 1s maintained during the emergency:	
9.1	Ensure logs, forms and other documentation are complete	
9.2	Ensure any items which need follow up investigations are identified to be completed during the Recovery Phase	
10.0	Provide all logs and records to the ORAD upon termination of the emergency and entry into the Recovery Phase.	

Attachment 9
EOF Communicator No. 2
 Sheet 1 of 3

<u>Initial Responsibility/Activity</u>	<u>Notes</u>
<p>1.0 Assume the position of EOF Communicator No. 2.</p> <p>1.1 Review facility status boards, Emergency Data Display System (EDDS) information and any other available sources to become familiar with current plant status.</p> <p>1.2 Obtain briefing from the EOF Manager or the Emergency Director</p> <p style="padding-left: 20px;">A. Review NYS Radiological Emergency Data Form Part I data which has been transmitted</p> <p style="padding-left: 20px;">B. Request any additional information on current status of emergency response.</p> <p>1.3 IF relieving another communicator THEN perform a formal turnover with the current EOF Communicator No. 2:</p> <p style="padding-left: 20px;">A. Review the current EOF Communicator No. 2 activity log.</p> <p style="padding-left: 20px;">B. Obtain briefing from current EOF Communicator No. 2 on the emergency and any actions the have been completed or are in progress.</p> <p style="padding-left: 20px;">C. Determine the time the next notification update is due to be transmitted.</p> <p>1.4 Inform the EOF Manager and ED that you are now EOF Communicator No. 2.</p>	
<u>Continuous Responsibility/Activity</u>	<u>Notes</u>
<p>2.0 IF you are temporarily leaving the work area THEN</p> <p>2.1 Inform the EOF Manager you are leaving the work area.</p> <p>2.2 Upon return, obtain a briefing from the EOF Manager on any events which have occurred while you were away.</p>	
<p>3.0 Maintain a Log</p> <p>3.1 Use Form IP-1023-4, ERO Log Sheet to log information.</p> <p>3.2 Log when you assumed the duties of EOF Communicator No.2.</p> <p>3.3 Log all communications that are not already documented on Forms.</p>	

Attachment 9
EOF Communicator No. 2
 Sheet 2 of 3

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>4.0 Perform required notifications to Offsite Authorities.</p> <p style="text-align: center;">NOTE:</p> <p>Start notification of any change in classification within 15 minutes of the classification change.</p> <p>4.1 IF the emergency classification changes(upgrade, downgrade, terminates) THEN perform the following:</p> <p style="margin-left: 20px;">A Complete or obtain from ED a NYS Radiological Emergency Data Form Part 1 (Form IP-1030-1)</p> <p style="margin-left: 20px;">B Ensure the ED has signed the NYS Radiological Emergency Data Form to indicate approval for transmittal.</p> <p style="margin-left: 20px;">C Communicate the information on the completed form(s) to the offsite authorities per instructions on Alert/SAE/GE Upgrade/Update Notification Checklist (Form IP-1002-3)</p> <p>4.2 IF the emergency classification DOES NOT change THEN perform subsequent notifications as follows:</p> <p style="margin-left: 20px;">A Complete or obtain from ED a NYS Radiological Emergency Data Form (Part I) when any of the following conditions are met:</p> <ul style="list-style-type: none"> • It has been approximately 30 minutes since the last form was transmitted. • The plant status has changed (Stable, improving, degrading or entry into the recovery phase) • There has been a change in the status of an actual or potential radiological release. <p style="margin-left: 20px;">B IF there is a change in radiological release data THEN include transmittal of data on NYS Radiological Emergency Data Form Part II</p> <p style="margin-left: 20px;">C Ensure the ED has signed the NYS Radiological Emergency Data Form(s) to indicate approval for transmittal.</p> <p style="margin-left: 20px;">D Communicate the information on the completed form(s) to the offsite authorities per instructions on Alert/SAE/GE Upgrade/Update Notification Checklist (Form IP-1002-3)</p>	

Attachment 9
EOF Communicator No. 2

Sheet 3 of 3

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>5.0 WHEN directed by the Emergency Director (ED) THEN obtain accountability status from the OSC Manager and/ or Unit 3 Watch Supervisor.</p>	
<p><u>Closeout Responsibility/Activity</u></p>	
<p>6.0 Return all equipment to proper storage locations.</p>	
<p>7.0 Review all documentation EOF Communicator No. 2 maintained during the emergency:</p> <p>7.1 Ensure logs, forms and other documentation are complete</p>	
<p>8.0 Provide all logs and records to the EOF Manager upon termination of the emergency and entry into the Recovery Phase.</p>	

Attachment 10
EOF Clerical Staff

Sheet 1 of 4

<u>Initial Responsibility/Activity</u>	<u>Notes</u>
<p>1.0 Assume the position of EOF Clerical.</p> <p>1.1 Sign in on the Facility Sign-in Board</p> <p>1.2 Obtain briefing from the EOF Manager</p> <p>1.3 IF relieving another clerk THEN perform a formal turnover with the current clerk:</p> <p style="padding-left: 20px;">A. Review current emergency status</p> <p style="padding-left: 20px;">B. Obtain briefing from current Clerical Staff on the emergency and any actions the have been competed or are in progress.</p> <p>1.4 Inform the EOF Manager that you are now part of the EOF Clerical Staff.</p>	
<u>Continuous Responsibility/Activity</u>	<u>Notes</u>
<p>2.0 Process Plant Status Data</p> <p>2.1 IF the Emergency Data Display System (EDDS) is operating THEN perform the following:</p> <p style="padding-left: 20px;">A. Obtain computer printout of Forms 42a, 42b and 42c trend data screens every 15 minutes.</p> <p style="padding-left: 20px;">B. Make and distribute copies of updated Forms 42a, 42b and 42c to representative located in the EOF.</p> <p>Telecopy forms (a, b & c) to the following locations and record times sent in the Telecopy Log, Form 19:</p> <ul style="list-style-type: none"> • State • County EOCs • NRC • JNC 	

Attachment 10
EOF Clerical Staff

Sheet 2 of 4

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>2.2 <u>IF</u> the Emergency Data Display System (EDDS) is <u>NOT</u> operating <u>THEN</u> perform the following:</p> <ul style="list-style-type: none"> A. Inform the EOF Manager B. Receive Forms 42a, 42b and 42c via telecopier from the TSC. C. Prepare transparencies of forms and place on projector. D. Make and distribute copies of forms to NRC, FEMA, State and County Representatives at the EOF E. Telecopy forms (a, b & c) to the State and County EOCs, JNC and NRC and record times sent in the Telecopy Log (Form 19). <p>2.3 <u>IF</u> the Emergency Data Display System (EDDS) is <u>NOT</u> operating <u>AND</u> Forms 42a, 42b and 42c are <u>NOT</u> available via telecopier from the TSC <u>THEN</u> perform the following:</p> <ul style="list-style-type: none"> A. Inform the EOF Manager B. Receive data on Forms 42a, 42b and 42c from the EOF SAS Proteus Operator and the TSC C. Prepare transparencies of forms and place on projector. D. Make and distribute copies of updated Forms 42a, 42b and 42c to NRC, FEMA, State and County Representatives at the EOF. E. Telecopy forms (a, b & c) to the State and County EOCs, JNC and NRC and record times sent in the Telecopy Log (Form 19). <p>2.4 <u>IF</u> all of the following systems are <u>NOT</u> operating: EDDS, Telecopiers and EOF SAS Proteus Computer Terminals:</p> <p><u>THEN</u></p> <ul style="list-style-type: none"> A. Inform the EOF manager that equipment necessary to obtain plant data in the EOF is not operating B. Request the SAS / Proteus Operator obtain Form 42a, 42b and 42c data via phone from the TSC C. Distribute forms as specified in step 2.3 above.. 	

Attachment 10
EOF Clerical Staff

Sheet 3 of 4

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>3.0 Process the NYS Radiological Emergency Data Form Parts I & II as follows:</p> <p>3.1 Receive form(s) from the EOF Communicator #2, verifying that the form(s) are signed by the Emergency Director.</p> <p>3.2 Telecopy form(s) to NYS, Counties, JNC and NRC</p> <p>3.3 Record time of telecopy on Telecopy Log, Form 18</p> <p>3.4 Make and distribute copies of form to NRC, FEMA, State and County representatives in the EOF.</p> <p>3.5 Return original form to EOF Communicator #2</p>	
<p>4.0 Process the Offsite Survey Team Data (Form IP-1030-5) as follows:</p> <p>4.1 Receive form from the ORAD</p> <p>4.2 Make copies of form and distribute to NRC, FEMA, State and County representatives in the EOF.</p> <p>4.3 Telecopy form to NYS and County EOCs. (Ask the ORAD for the order in which to transmit forms to the counties.)</p>	
<p>5.0 Receive and distribute telecopies from outside sources as follows:</p> <p>5.1 Make copies of all documents received.</p> <p>5.2 Distribute to addressee if known</p> <p>5.3 For any document containing radiological data distribute copies to ORAD and NRC, FEMA, State and County representatives in the EOF.</p> <p>5.4 Maintain copies of all telecopies.</p>	

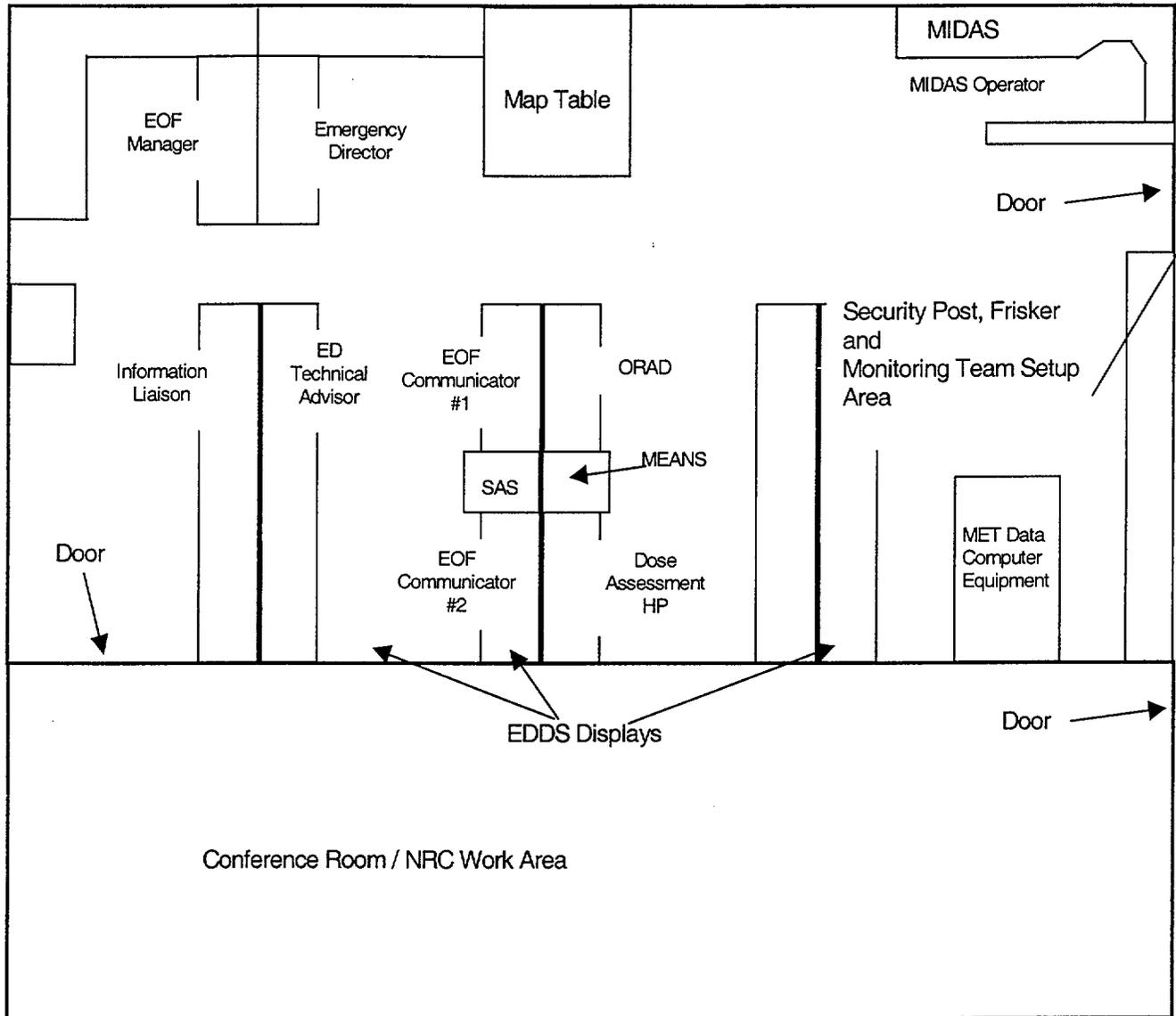
Attachment 10
EOF Clerical Staff

Sheet 4 of 4

<u>Continuous Responsibility/Activity (cont.)</u>	<u>Notes</u>
<p>6.0 Copy Chronology Easel Pad as follows:</p> <p>6.1 Receive completed easel pad from ED Technical Advisor</p> <p>6.2 Transcribe the information from the easel pad and give transcript to the ED Technical Advisor</p> <p>6.3 Tape the easel pad to the wall between the upper and lower levels of the EOF.</p>	
<p>7.0 Perform accountability duty for the Upper Level of the EOF as follows:</p> <p>7.1 Record the names and arrival times of personnel stationed in the upper level EOF.</p>	
<p><u>Closeout Responsibility/Activity</u></p>	
<p>8.0 Return all equipment to proper storage locations.</p>	
<p>9.0 Review all documentation maintained during the emergency by the clerical staff to ensure it is complete and organized.</p>	
<p>10.0 Provide all logs and records to the EOF Manager upon termination of the emergency and entry into the Recovery Phase.</p>	

Addendum 1
EOF Layout
Sheet 1 of 2

Lower Level Work Area

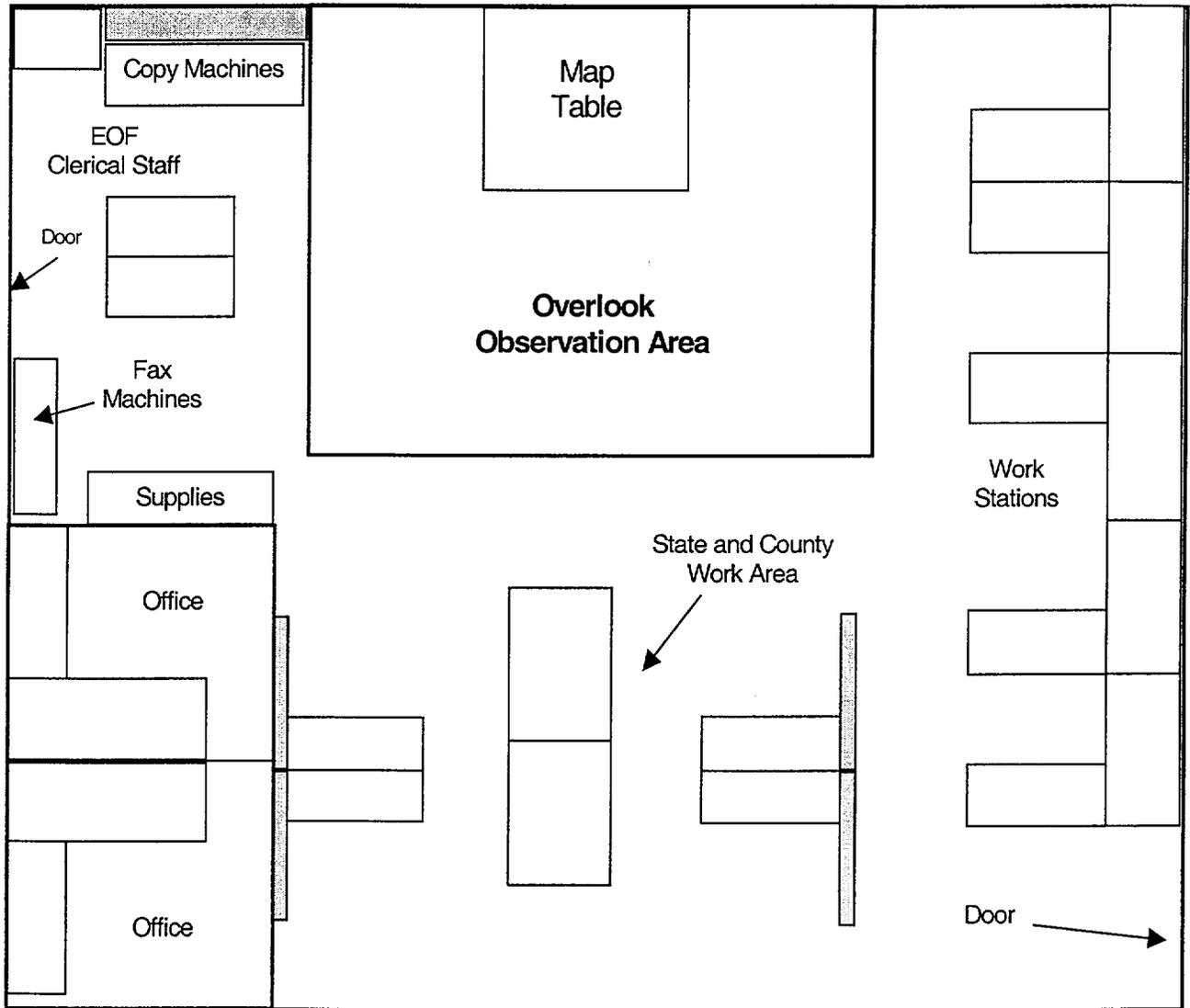


Addendum 1

EOF Layout

Sheet 2 of 2

Upper Level Work Area



Addendum 2

NYS Radiological Data Form (Part I) (Form IP-1030-1)

Sheet 1 of 2

CON EDISON

New York State

Radiological Emergency Data Form

Part I - General Information Instructions:

Circle or Fill-in Information as appropriate

1. This message being transmitted on: (Date) at: (Time) [] AM [] PM VIA: A. RECS B. Other

2. This is.... A. NOT an Exercise B. An Exercise

3. The Facility Providing this Information is: A. INDIAN POINT NUMBER 2 B. INDIAN POINT NUMBER 3

4. The Emergency A. Unusual Event B. Alert C. Site Area Emergency D. General Emergency E. Emergency Terminated F. Recovery G. Transportation Incident

5. This Emergency Classification Declared on: (Date) at: (Time) [] AM [] PM

6. Release of Radioactive Materials due to the Classified Event: A. No Release B. Release BELOW federally approved operating limits... C. Release ABOVE federally approved operating limits... D. Unmonitored Release - requiring evaluation

7. Protective Action Recommendations: A. No need for Protective Actions outside the site boundary. B. EVACUATE the following ERPAs: 1-51 grid. C. SHELTER all remaining ERPAs.

8. EAL Number: [] Brief [] Event [] Description []

9. The Plant status is: A. Stable B. Improving C. Degrading D. Hot Shutdown E. Cold Shutdown

10. Reactor Shutdown: A. Not Applicable B. (Date) at: (Time) [] AM [] PM

11. Wind Speed: Meters/Second at elevation 10 meters.

12. Wind Direction: (From) Degrees at elevation 10 meters.

13. Stability Class: A B C D E F G

14. Report By: (Communicator's Name) at Telephone Number (914) 737-8929

Message Received by: Message Ended at:

Emergency Director Review and Approval:

Addendum 2
 NYS Radiological Data Form (Part II) (Form IP-1030-1)
 Sheet 2 of 2

CON EDISON New York State <h2 style="text-align: center;">Radiological Emergency Data Form</h2>			
Part II - EP Form Part II:		Circle or Fill-in Information as appropriate	
14. Message transmitted at: DATE: _____ TIME: _____ FROM: _____			
16. General release information:			
A. RELEASE > TECH. SPEC STARTED AT: DATE: _____ TIME: _____		E. WIND SPEED: _____ M/SEC. AT ELEVATION: _____ (METERS)	
B. PROJECTED DURATION OF RELEASE: _____ (hrs.)		F. WIND DIRECTION: (FROM) _____ DEGREES	
C. RELEASE > TECH. SPEC. ENDED DATE: _____ TIME: _____		AT ELEVATION: _____ (METERS)	
D. REACTOR SHUTDOWN: N/A OR DATE: _____ TIME: _____		G. STABILITY CLASS: (PASQUILL A-G)	
17. Atmospheric release information:			
A. RELEASE FROM: <u>GROUND LEVEL</u> FT.		D. NOBLE GAS RELEASE RATE: _____ Ci/SEC.	
B. IODINE/NOBLE GAS RATIO _____ <small>(Assumed or Actual)</small>		E. IODINE RELEASE RATE: _____ Ci/SEC.	
C. TOTAL RELEASE RATE: _____ Ci/SEC.		F. PARTICULATE RELEASE RATE: _____ Ci/SEC.	
18. Waterborne release information:			
A. VOLUME OF RELEASE: _____ GALLONS		C. RADIONUCLIDES IN RELEASE:	
B. TOTAL CONCENTRATION (gross): _____ μ Ci/ml		D. TOTAL ACTIVITY RELEASED:	
19. Dose calculations (based on release duration of _____ Hrs.):			
CALCULATION IS BASED ON: (circle one)		TABLE BELOW APPLIES TO: (circle one)	
A. INPLANT MEASUREMENTS		A. ATMOSPHERE RELEASE	
B. FIELD MEASUREMENTS		B. WATERBORNE RELEASE	
C. ASSUMED SOURCE TERM			
DOSE			
DISTANCE	X μ /Q	TEDE (REM)	TODE (REM)
SITE BOUNDARY			
2 MILES			
5 MILES			
10 MILES			
MILES			
20. Field measurement of dose rates or surface contamination/deposition:			
MILE/SECTOR OR MILES/DEGREES	LOCATION OR SAMPLING POINT	TIME OF READING	DOSE RATE (mR/HR.) OR CONTAMINATION (μ Ci/m ²)
Emergency Director Review and Approval: _____			
Part II Page 1 of 1		Form IP-1030-1 Rev 1	

Addendum 3
Normal EOF Staffing (Form IP-1030-2)
 Sheet 1 of 1

Normal EOF Staffing

No.	Positions	Number Present	Number Needed	Called
1	Emergency Director			
1	EOF Manager			
1	Information Liaison			
1	Offsite Radiological Assessment Director			
1	ED Technical Advisor			
1	Dose Assessment Health Physicist			
1	Survey Team Health Physicist			
1	MIDAS Operator			
1	EOF Communicator #1			
1	EOF Communicator #2			
3	EOF Clerical Staff			
2	Onsite Monitoring Team Members			
4	Offsite Monitoring Team Members			
1	Technical Advisor to State EOC			
20	Total number of individuals assigned to EOF			

EOF Manager should enter number of each position needed based on event.

Form IP-1030-2 Rev 1

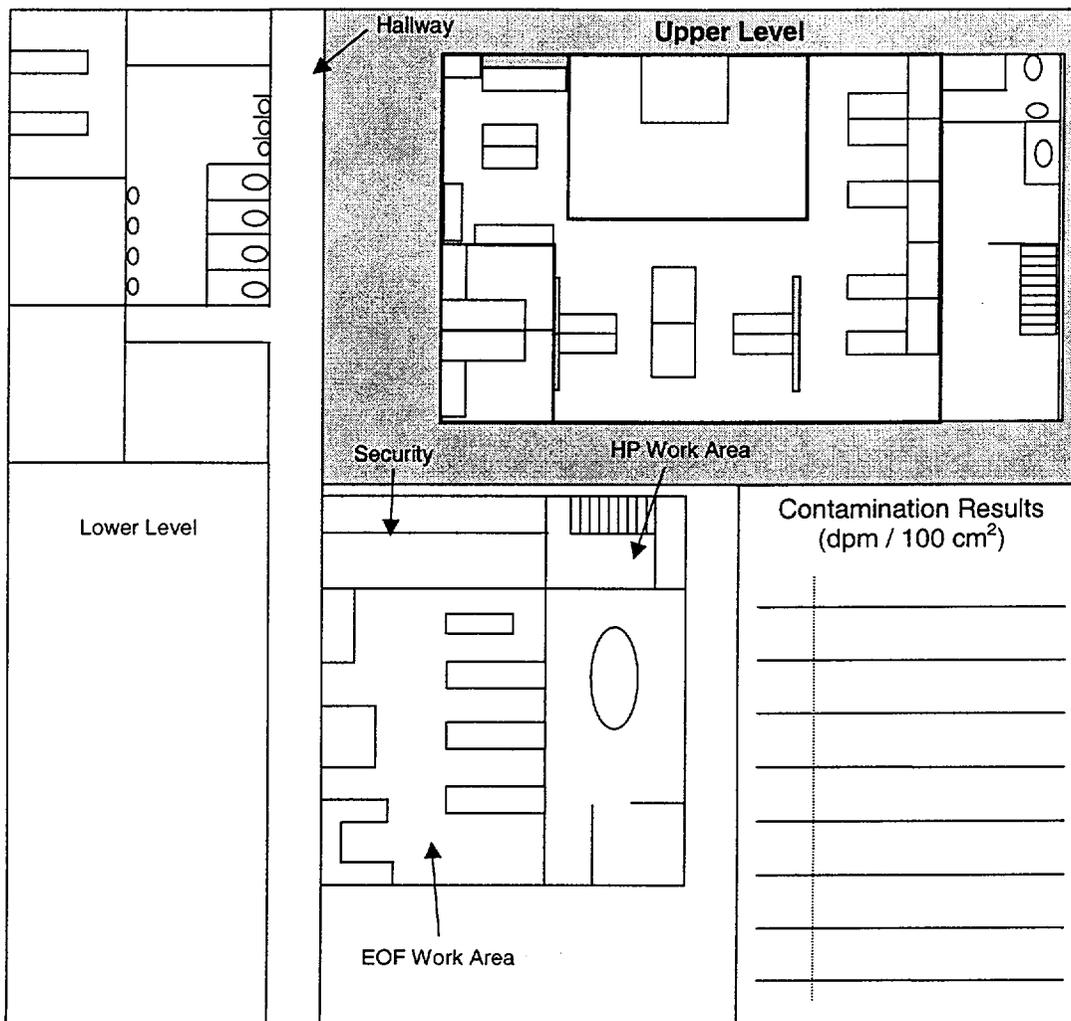
Addendum 4

EOF Radiological Survey Map (Form IP-1030-3)

Sheet 1 of 1

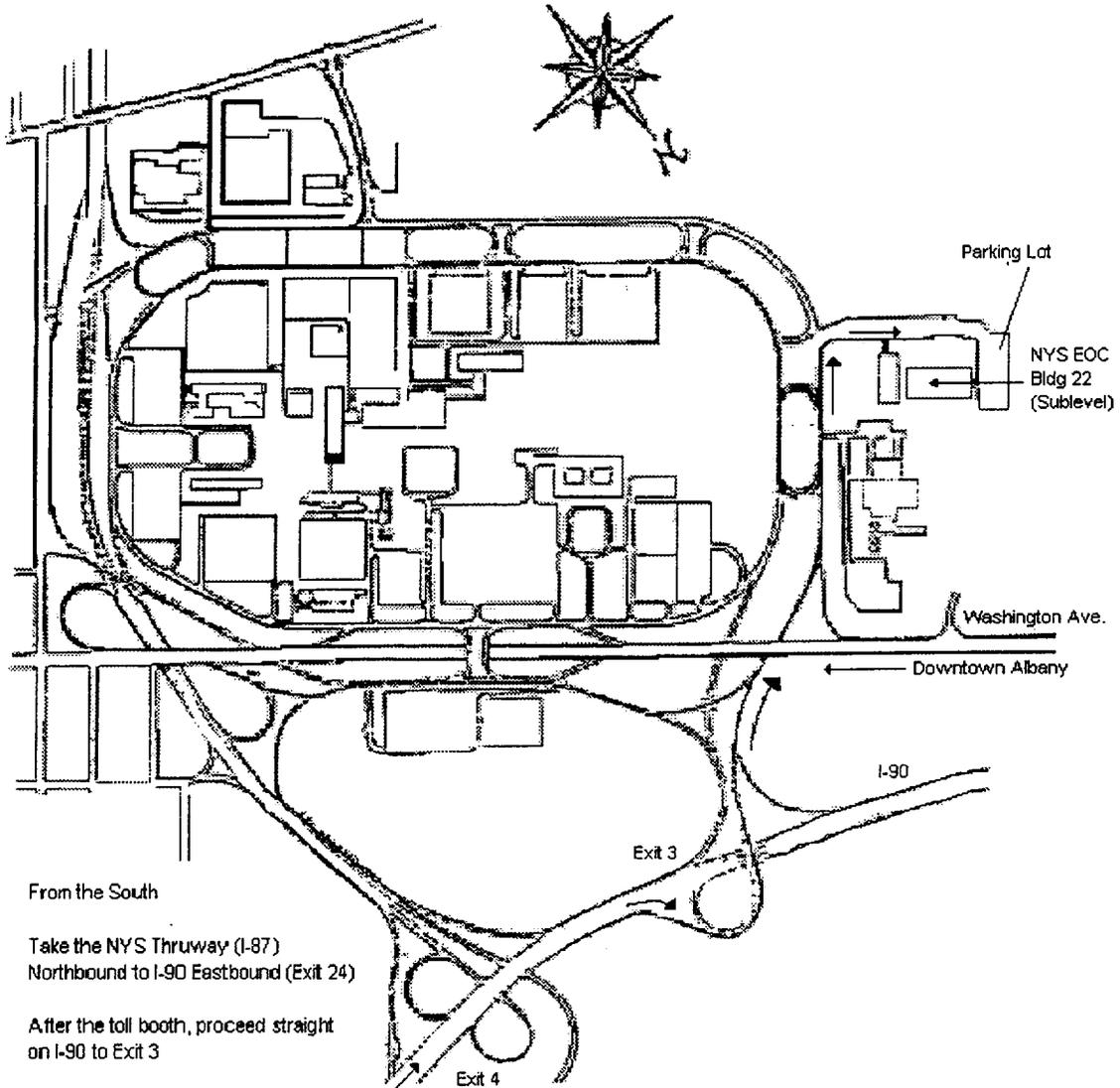
EOF Radiological Survey Map

By:		Area / Item: Occupied Areas EOF / Service Center	
Date:	Time:	Type of Survey: <input type="checkbox"/> Rad <input type="checkbox"/> Cont <input type="checkbox"/> Air	
Meter / Serial #		Smear Counter/ Serial #	
Map Key: __ =Dose Rate, * =Contact, β =Beta, O =Smear, H =Head, C =Chest, K =Knee, FL = Floor			
Air Sample Results:	RadioGas:	Particulate:	Charcoal:
Air Sample Counter / Serial #		Highest mr/hour Reading:	
Comments:			



Form IP-1030-3 Rev 0

Addendum 5
State Campus Office Building Map
Sheet 1 of 1



Addendum 6
Appendix B to § 302.4

The table of reportable amounts of radionuclides from CFR 40 PART 302—
DESIGNATION, REPORT-ABLE QUANTITIES, AND NOTIFICATION

Maintained current by Emergency Planning Department and distributed to ERO position binders where required.

The table is designated as Form IP-1030-4, titled "APPENDIX B TO § 302.4 –
RADIONUCLIDES"

Current Revision is 0

7 pages

Addendum 8
Directions to AEOF
Sheet 1 of 1

The Alternate Emergency Operations Facility (AEOF) is located in the Eastview Service Center. Eastview is located between Hawthorne and North Tarrytown off of the Saw Mill River Parkway

Directions:

1. From the Indian Point Site proceed to Route 9 and head SOUTH.
2. As you pass the "Harmon Railroad Yards" (approximately 8 miles) keep to the LEFT, and bear LEFT onto Route 9A (This will take you LEFT under the Route 9 overpass).
3. Follow Route 9A to the Saw Mill River Parkway (approximately 8 miles). At the entrance to the Saw Mill River Parkway you will see the County Police Headquarters.
4. Take the Saw Mill River Parkway SOUTH to the next exit, Route 100C.
5. At the end of the exit ramp make a LEFT and proceed to the Eastview Service Center entrance on the LEFT. Enter building through the southwest double doors.

