

ENTERGY NUCLEAR NORTHEAST  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT  
P.O. BOX 110, LYCOMING, NY 13093  
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DATE: JUNE 9, 2003  
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SUBJECT: EMERGENCY PLAN AND IMPLEMENTING PROCEDURES

Enclosed are revisions to your assigned copy of the JAFNPP Emergency Plan and Implementing Procedures. Please remove and **DISCARD** the old pages. Insert the attached, initial and date this routing sheet and return the completed routing sheet to *Cathy Izyk in the Emergency Planning Department within 15 days*. If this transmittal is not returned within 15 days, your name will be removed from the controlled list.

VOLUME 2 Update List Dated JUNE 9, 2003

DOCUMENT	PAGES	REV. #	INITIALS/DATE
EAP-4	REPLACE ALL AND PLACE REVISION LABELS (Rev. 33) OVER THE THREE COLORED PULL OUT MAPS THAT CURRENTLY SAY Rev. 32	32	
EAP-16.2	REPLACE ALL	2	

VOLUME 3 Update List Dated JUNE 9, 2003

DOCUMENT	PAGES	REV. #	INITIALS/DATE
EAP-42	REPLACE ALL	20	

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**EMERGENCY PLAN IMPLEMENTING PROCEDURES/VOLUME 2  
UPDATE LIST**

**CONTROLLED COPY # 34**

Date of Issue: JUNE 9, 2003

Procedure Number	Procedure Title	Revision Number	Date of Last Review	Use of Procedure
N/A	TABLE OF CONTENTS	REV. 19	02/98	N/A
IAP-1	EMERGENCY PLAN IMPLEMENTATION CHECKLIST	REV. 30	05/03	Continuous
IAP-2	CLASSIFICATION OF EMERGENCY CONDITIONS	REV. 24	05/03	Continuous
EAP-1.1	OFFSITE NOTIFICATIONS	REV. 48	05/03	Informational
EAP-2	PERSONNEL INJURY	REV. 26	01/03	Informational
EAP-3	FIRE	REV. 23	08/02	Informational
EAP-4	DOSE ASSESSMENT CALCULATIONS	REV. 33	06/03	Reference
EAP-4.1	RELEASE RATE DETERMINATION	REV. 16	05/03	Reference
EAP-5.1	DELETED (02/94)			
EAP-5.2	DELETED (04/91)			
EAP-5.3	ONSITE/OFFSITE DOWNWIND SURVEYS AND ENVIRONMENTAL MONITORING	REV. 9	08/02	Informational
EAP-6	IN-PLANT EMERGENCY SURVEY/ENTRY	REV. 17	05/03	Informational
EAP-7.1	DELETED (02/94)			
EAP-7.2	DELETED (02/94)			
EAP-8	PERSONNEL ACCOUNTABILITY	REV. 61	05/03	Reference
EAP-9	SEARCH AND RESCUE OPERATIONS	REV. 11	05/03	Informational
EAP-10	PROTECTED AREA EVACUATION	REV. 17	05/03	Informational
EAP-11	SITE EVACUATION	REV. 19	05/03	Informational
EAP-12	DOSE ESTIMATED FROM AN ACCIDENTAL RELEASE OF RADIOACTIVE MATERIAL TO LAKE ONTARIO	REV. 11	04/02	Reference
EAP-13	DAMAGE CONTROL	REV. 14	06/02	Informational
EAP-14.1	TECHNICAL SUPPORT CENTER ACTIVATION	REV. 23	05/03	Informational
EAP-14.2	EMERGENCY OPERATIONS FACILITY ACTIVATION	REV. 21	05/03	Informational
EAP-14.5	OPERATIONAL SUPPORT CENTER ACTIVATION AND OPERATION	REV. 14	03/00	Informational

# EMERGENCY PLAN IMPLEMENTING PROCEDURES/VOLUME 2 UPDATE LIST

Date of Issue:         JUNE 9, 2003        

Procedure Number	Procedure Title	Revision Number	Date of Last Review	Use of Procedure
EAP-14.6	HABITABILITY OF THE EMERGENCY FACILITIES	REV. 15	05/03	Informational
EAP-15	EMERGENCY RADIATION EXPOSURE CRITERIA AND CONTROL	REV. 11	06/02	Informational
EAP-16	PUBLIC INFORMATION PROCEDURE	REV. 7	05/03	Informational
EAP-16.2	JOINT NEWS CENTER OPERATION	REV. 2	06/03	Informational
EAP-17	EMERGENCY ORGANIZATION STAFFING	REV. 106	05/03	Informational
EAP-18	DELETED (12/93)			
EAP-19	EMERGENCY USE OF POTASSIUM IODINE (KI)	REV. 22	05/03	Informational
EAP-20	POST ACCIDENT SAMPLE, OFFSITE SHIPMENT AND ANALYSIS	REV. 9	06/02	Reference
EAP-21	DELETED (12/85)			
EAP-22	DELETED (02/98)			
EAP-23	EMERGENCY ACCESS CONTROL	REV. 11	06/02	Informational
EAP-24	EOF VEHICLE AND PERSONNEL DECONTAMINATION	REV. 9	06/02	Informational
EAP-25	DELETED (02/94)			

EAP-4  
Rev. No. 33

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Rev. No. 33

ENTERGY NUCLEAR OPERATIONS, INC.  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT  
EMERGENCY PLAN IMPLEMENTING PROCEDURE

DOSE ASSESSMENT CALCULATIONS

EAP-4

REVISION 33

APPROVED BY:

[Signature]  
RESPONSIBLE PROCEDURE OWNER

DATE:

6/6/03

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June 9, 2003

FIRST ISSUE ☐

FULL REVISION ☐

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PERIODIC REVIEW DUE DATE: MAY 2008



## REVISION SUMMARY SHEET

## REV. NO.

- 33
- Added note in section 5.2.3.K.7 that discusses steps that need to be repeated for on going releases.
  - Added note in section 5.2.3.P.10 to ensure that proper steps are taken for forecasted dose rates.
  - Added section 5.2.3.P.11 to give instructions if the release is ongoing.
- 32
- Add "onsite and in-plant" to section 4.2 for clarity
  - Added met data access method for simulator
  - Incorporated several notes into procedure steps in section 5.2.3.Q and 5.2.3.A
  - Add direction to section 5.2.3.Q regarding ERPAs for evacuation - utilizing both the model and the flowchart, and the concern for lake/land breeze considerations.
  - Change the title of section 5.4 to read USING MONITOR READINGS TO ESTIMATE WHEN A PAR WILL BE REACHED BASED ON PROJECTED DOSE
  - Added direction in 5.4 for use of TEDE dose.
  - Added note in section 5.4 to reference attachment 7 for calculations.
  - Incorporated cautions into boxes and added wording regarding notifying offsite agencies within 15 minutes of PAR changes.
  - Added Section 5.5.
  - Modified Attachment 1 and 2 to add a caution in the GE section for 15 minute notification requirements.
  - Add caution for lake/land breeze on Attachment 2.
  - Updated Attachment 4 with current 2001 population estimates ERPA'S
  - Change to Attachment 5 to add lines to the 3-inch section for data recording.
  - Added attachment 6.
  - Add attachment 7.
  - Added attachment 8.
- 31
- In the table of section 5.2.1 and 5.2.3.F added "Direct Connect OR".
  - Added note in section 5.2.3.N.3.
  - Added section 5.4 - Monitor reading estimate.
- 30
- Added 5.5.2 D, to turn on modem.

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## 1.0 PURPOSE

To provide the methods for performing dose assessment and determining protective actions during accident conditions at James A. FitzPatrick Nuclear Power Plant.

## 2.0 REFERENCES

### 2.1 Performance References

2.1.1 EAP-4.1, RELEASE RATE DETERMINATION

2.1.2 EAP-5.3, ONSITE/OFFSITE DOWNWIND SURVEYS AND ENVIRONMENTAL MONITORING

2.1.3 EAP-42, OBTAINING METEOROLOGICAL DATA

### 2.2 Developmental References

2.2.1 EAP-4.1, RELEASE RATE DETERMINATION

2.2.2 EAP-5.3, ONSITE/OFFSITE DOWNWIND SURVEYS AND ENVIRONMENTAL MONITORING

2.2.3 EAP-42, OBTAINING METEOROLOGICAL DATA

## 3.0 INITIATING EVENTS

3.1 A General Emergency has been declared

OR

3.2 A vented gaseous release exceeds alarm setpoints

OR

3.3 An unmonitored gaseous release is suspected or underway.

## 4.0 RESPONSIBILITIES

### 4.1 Shift Manager/Emergency Director (SM/ED)

The SM/ED is responsible for ensuring that Protective Action Recommendations (PARs) are developed in accordance with this procedure.

**4.2 TSC Rad Support Coordinator (TSC RSC)**

The TSC RSC is responsible to the Emergency Director for managing the radiological monitoring and assessment aspects on-site and in-plant during an emergency and of those functions specified in Step 4.3 until relieved of those functions by the EOF.

**4.3 EOF Rad Support Coordinator (EOF/RSC)**

The EOF/RSC is responsible to the Emergency Director for managing the radiological monitoring and assessment aspects offsite during an emergency.

**4.4 Dose Assessment Coordinator (DAC)**

The DAC is responsible for managing the offsite dose aspects of an emergency, in order to assess the radiological consequences to the public.

**4.5 Chemistry Technician/Rad Protection Technician**

The on-shift chemistry technician is responsible to the Emergency Director for conducting dose assessment from the control room and assisting the SM/ED with information related to offsite notification and protective action recommendations. The on-shift radiation protection technician is responsible to the SM/ED for conducting surveys as directed.

**5.0 PROCEDURE****5.1 Control Room Dose Assessment and Protective Action Recommendations**

Utilize Attachment 1, Initial Protective Actions, for control room dose assessment and protective action recommendations.

## 5.2 Augmented Dose Assessment

Dose projection shall be completed using the EDAMS computer located in the Control Room, Technical Support Center or Emergency Operations Facility as follows:

### 5.2.1 General Information

#### A. Locations

EDAMS software and hardware is located as follows:

LOCATION	HARDWARE	PRINTERS	METE DATA CONNECTION
Control Room	Personal Computer and Monitor	HP LaserJet	Direct Connect
Technical Support Center	Personal Computer and Monitor	Seiko D-Scan, HP LaserJet	Direct Connect
Emergency Operations Facility #1	Personal Computer and Monitor	Seiko D-Scan, HP LaserJet	Direct Connect OR Dial-up Modem
Emergency Operations Facility #2	Personal Computer and Monitor	HP LaserJet	Direct Connect OR Dial-up Modem

#### B. Computer problems

IF at any time problems are experienced with the computer, MOVE to another location that has the EDAMS software and continue.

C. The dose assessment program is called RADDPOSE V and is part of the EDAMS package.

D. Meteorological data is automatically sent (via direct connect or modem) to RADDPOSE V and EDAMS by the Meteorological Monitoring System (MMS). The user can use this data or manually input meteorological data.

E. Source term and release rate determination is discussed in procedure EAP-4.1.

F. Software documentation is available for the EDAMS code and is maintained by the Emergency Planning Coordinator.

### 5.2.2 EDAMS Dose Model Limitations

- A. The EDAMS menu from the EDAMS icon only allows the operation of one DOS application at a time.
- B. Dose rates and deposition rates reported by the model are the maximum for the sector; not necessarily the dose rate or deposition rate at the center of the sector. This avoids the situation of a narrow (stable) plume slipping between receptor points and being missed.
- C. Deposition data reported is not intended for an environmental evaluation; its intent is to indicate areas of potentially high ground level concentrations.
- D. Forecast mode results may at times exceed real-time results; this is due to the forecast mode having a greater internal time step.
- E. A calculation limitation of the dose assessment model occurs when an extreme wind (direction) shift takes place. The model may not calculate doses in sectors that the plume skips over entirely within a single 15 minute interval advection step.

### 5.2.3 Dose Assessment Using EDAMS Computer

**NOTE:** The dose assessment model has many capabilities beyond those used in this procedure. Utilize the "EDAMS Operators Manual" for further reference.

#### CAUTION:

Protective Action Recommendations (PARs) must be transmitted to the State and County within 15 minutes of declaring an Emergency, changing emergency classification, or changing Protective Action Recommendations.

- A. IF during the course of dose assessment, the dose to the population is projected to exceed 1 Rem TEDE or 5 Rem CDE Thyroid, THEN immediately advise the ED that the General Emergency criteria have been met.

- B. Use Attachment 2 Augmented Dose Assessment Protective Actions, for guidance when performing dose assessment activities at the TSC or EOF.
- C. Ensure that the black switch on the CR and TSC meteorological panels is positioned to the Niagara Mohawk (B) position.
- D. Energize the EDAMS computer power strip to provide power to the computer, monitor, and printer.
- E. Ensure the modem is ON (powered on).
- F. Select the "Login" icon from the EDAMS icons and select "Continue" at the plant picture screen.
- G. Select the appropriate menu item based on your location as follows:

<u>Location:</u>	<u>Menu Choice:</u>
CR	Direct connect to Met Data
TSC	Direct connect to Met Data
EOF	Direct connect OR Automatic Dial-in to Met Data
Simulator	Automatic Dial-in to Met Data

- H. When the login routine finishes, close the login window screen by selecting "OK".
- I. From the EDAMS icons, select JAF Raddose-V.
- J. Select "Continue" at the plant picture screen.
- K. From the Raddose-V start up menu, select "Begin New Incident."

L. At the Raddose-V Accident Scenario Definition screen, enter the following information:

1. Reactor Trip Date - date the reactor was scrammed or shutdown.
2. Reactor Trip Time (24-hour format) - time the reactor was scrammed or shutdown.
3. Release Date - date the release to atmosphere began, or is projected to begin.
4. Release Time (24-hour format) - time the release to atmosphere began, or is projected to begin.
5. Lake Surface Temp (Degrees F) - Enter the known lake surface temperature, or use the historical default value provided.
6. Operator Initials - Enter 2 or 3 initials, then press ENTER.
7. Select "Accept" to accept and continue.

NOTE: Steps M-P must be repeated for ongoing releases to ensure that "forecasted" dose will account for dose from both the existing release rate, AND dose from the plume established in the environment from previous time steps.

M. At the Raddose-V main menu, select "Enter/Edit Source Term Data."

N. At the Raddose-V Source Term Data Entry Screen, proceed as follows:

1. Utilize Attachment 6, DOSE ASSESSMENT ACCIDENT TYPE SELECTION FLOWCHART as a guide to determine the most appropriate accident type.
2. Select "Accident Type" by pressing the "F2" key, or by using the mouse, then choosing the accident type which most closely matches current conditions. Your selection determines which default isotopic mix is used for upcoming calculations (refer to Attachment 3, Analyzed Accident Types).



3. When asked, "Is this release Elevated?" select "Yes" for elevated releases or "No" for ground releases. (A stack release is elevated; all other releases are ground releases.)

NOTE: Back calculation cannot be used on first time step.

4. Select the "Method" used to determine the release rate by pressing the "F2" key, or by using the mouse, then choosing the appropriate method based on available information.
  5. Select the Iodine release rate "Method" by hitting the "F2" key, or by using the mouse. Enter the "Monitor Reading" and "Release Rate" if required.
  6. Up to three Accident Types (three release paths) can be entered by using the down arrow key (9) to select type 2 and 3.
  7. When the source term data entry screen has been completed, select "Accept" to accept data and return to the Raddose-V main menu.
- O. At the Raddose-V main menu, the menu bar will highlight the appropriate elevated and/or ground meteorological data choices based on your input in step M.2.
1. If direct met data input is being used, the appropriate ground and/or elevated met data will automatically be displayed for the current time step.
  2. Select "Accept" to accept data, OR select "Requery MMS" to update the met data.
  3. IF met data is not available via the MMS, THEN enter met data obtained from alternate sources, as outlined in EAP-42, OBTAINING METEOROLOGICAL DATA.

**NOTE:** To determine an estimated monitor reading to reach a PAG, refer to step 5.4

P. At the Raddose-V main menu, select "Perform Calculations."

1. The map of the 10-mile Emergency Planning Zone (EPZ) will appear with centerline dose rates after the model has calculated the actual model doses.

**NOTE:** This data SHOULD NOT be used for PARs. PARs should be based on forecast data, which will be the dose to be avoided by the protective action.

2. Select "Continue" to continue.
3. At the Raddose-V output menu, select "Continue Calculations".
4. At the Raddose-V main menu, select "Perform a Forecast".

**NOTE:** A new time step must be added to perform a forecast.

5. Verify meteorology and source term data as required. Select "Accept" to accept.
6. Enter "Forecast Period" (i.e. release duration). Use 4 hours as a default value. Select "OK".
7. When asked, "Has a General Emergency been declared?" enter "Yes" or "No".
8. The forecast mode map will be displayed, including TEDE and CDE thyroid doses, and PARs. Select "Continue" to continue.
9. Select "Go to Report Menu".
10. Select "Print Complete Dose/Dose Rate Report".

**NOTE:** Performance of the following step is necessary to ensure that "forecasted" dose will account for dose from both the current release rate, AND dose from the plume established in the environment from previous time steps.

11. IF the release is ongoing, THEN add a new time step, AND repeat the "Calculation" and "Forecast" actions described in steps M-P.

**NOTE:** County and State Protective Action Recommendations (PARs) take many factors into account that NMP/JAF procedures do not (i.e., road conditions, special population needs, Evacuation Travel Time Estimates, evacuation scenarios, and shelter vs. evacuation doses). Therefore, differences in PARs may occur. The Rad Support Coordinator must account for differences in Protective Action Recommendations when those exist. PARs should not be modified to match County or State PARs without justification.

**CAUTION:**

Protective Action Recommendations (PARs) must be transmitted to the State and County within 15 minutes of declaring an Emergency, changing emergency classification, or changing Protective Action Recommendations.

**Q. Protective Action Recommendations (PARs)**

1. Since the Nine Mile Point/J.A. FitzPatrick (NMP/JAF) Site is contained in ERPA 1, any recommendation made for ERPA 1 must also apply to all NMP/JAF personnel not required to be onsite for the emergency.
2. The RADDPOSE model factors in meteorological conditions such as lake/land breeze that the Attachment 2 flowchart does not. Therefore, the model needs to be considered even during situations where no release is occurring.

3. The EDAMS RADDOSE V program will recommend PARs for each ERPA, based upon the dose assessment (in forecast mode).
  - a. Ensure that both the RADDOSE ERPAs recommended for Evacuation, and the Attachment 2 ERPAs recommended for evacuation are considered when developing PARs.
  - b. For ERPAs recommended by RADDOSE for evacuation, ensure that both Dose PARs and Plant PARs are included.
4. Initiate or revise PARs based upon this recommendation (and previous recommendations, if made).

R. Notification

1. Record the revised PAR for each ERPA on the Part 1 Notification Form (EAP-1.1, Attachment 1) and give to the ED for approval.
  2. Record PARs on Attachment 4 map or wall displays in the TSC or EOF, if appropriate.
- S. Update the RADDOSE-V Model at 15-minute intervals or as directed by the Dose Assessment Coordinator.

5.3 Downwind Survey Dose Estimates

- 5.3.1 Use Attachment 5, Downwind Survey Worksheet, to record field data transmitted to the dispatch center.
- 5.3.2 Projected Deep Dose Equivalent (DDE) is approximately equal to TEDE Projected Dose
  - A. Use field information recorded on the Downwind Survey Worksheet, Attachment 5, to perform projected dose calculations.
  - B. Obtain the estimated duration of release from the Emergency Director and record it on Attachment 5. If it is unknown, use 4 hours as a first estimate.

- C. Complete the calculations, as shown, on Attachment 5 to determine DDE projected doses for each sampling location.

#### 5.3.3 CDE Thyroid Projected Dose

- A. Use field information recorded on the Downwind Survey Worksheet, Attachment 5, to perform CDE Thyroid Projected Dose.
- B. Obtain the estimated duration of release from the Emergency Director and record it on Attachment 5.
- C. Calculate the I-131 concentration in accordance with Attachment 5.
- D. Complete the calculations, as shown, on Attachment 5 to determine thyroid rate and CDE thyroid projected doses for each location for which data has been recorded.

#### 5.3.4 Results

- A. Provide the results of the DDE and CDE thyroid projected dose calculations from steps 5.3.2 and 5.3.3 to the individual tasked with calculating protective action recommendations.

### 5.4 Using monitor readings to estimate when a PAR will be reached based on projected dose

**NOTE:** Attachment 7 may be utilized to perform the following calculations:

- 5.4.1 To determine the estimated monitor reading needed to reach a **Child Thyroid dose** of 5rem CDE, perform the following:
  - A. Perform a forecast using EDAMS;
  - B. Divide the Child Thyroid CDE dose (forecasted), by the release point monitor reading (mr/hr, cpm, cps);

- C. Divide the result from 5.4.1.B into 5 rem. This result becomes the estimated monitor reading corresponding to 5rem CDE for the forecast duration, based on the inputted flow rate, monitor reading and meteorology at the time the data was taken.
- D. To determine the estimated monitor reading needed to reach a TEDE dose of 1 rem, perform the following:
1. Perform a forecast using EDAMS;
  2. Divide the TEDE dose (forecasted), by the release point monitor reading (mr/hr, cpm, cps) ;
  3. Divide the result from 5.4.2.B into 1 rem. This result becomes the estimated monitor reading corresponding to 1rem CDE for the forecast duration, based on the inputted flow rate, monitor reading and meteorology at the time the data was taken.

## 5.5 Proactive Action Recommendations (PARs) beyond 10 miles

- 5.5.1 If projected doses exceed the following values at 10 miles;

EPA Protective Action Guidelines	
TEDE (Rem)	CDEt (Rem)
>1	>5

Then PARs need to be developed beyond the 10 mile EPZ. PARs can be developed using the EDAMS routine that calculates Dose Rates at a point of interest.

- 5.5.2 Chose several points of interest that will encompass the postulated plume beyond the 10 miles (bound the plume). Determine the dose rate. Multiply the dose rate by the expected duration of the release to determine the TEDE or CDEt. Make additional PARS based on this data and by using existing geo-political boundaries (i.e. towns, cities, etc.). List those recommendations on the Part 1 form or provide additional detail on supplemental forms. If PARS extend beyond the border of Oswego County request assistance from NY State staff to make proper notifications.

## 6.0 ATTACHMENTS

1. INITIAL PROTECTIVE ACTIONS - Pull out color flowchart
2. AUGMENTED DOSE ASSESSMENT AND PROTECTIVE ACTIONS - Pull out color flowchart
3. ANALYZED ACCIDENT TYPES
4. 2001 POPULATION ESTIMATES EMERGENCY RESPONSE PLANNING AREAS
5. DOWNWIND SURVEY WORKSHEET
6. DOSE ASSESSMENT ACCIDENT TYPE SELECTION FLOWCHART
7. CALCULATION FORM WHEN USING MONITOR READINGS TO ESTIMATE WHEN A PAR WILL BE REACHED BASED ON PROJECTED DOSE
8. SOURCE TERM ENTRY FOR FIRST 15 MINUTE TIME STEP OF A REFUEL ACCIDENT WHEN BUILDING ISOLATION HAS OCCURRED AND THE RELEASE IS THROUGH THE STACK
9. SOURCE TERM FOR A REFUEL ACCIDENT THAT RESULTS IN AN UNFILTERED RELEASE PATHWAY



# ATTACHMENT 1 INITIAL PROTECTIVE ACTIONS

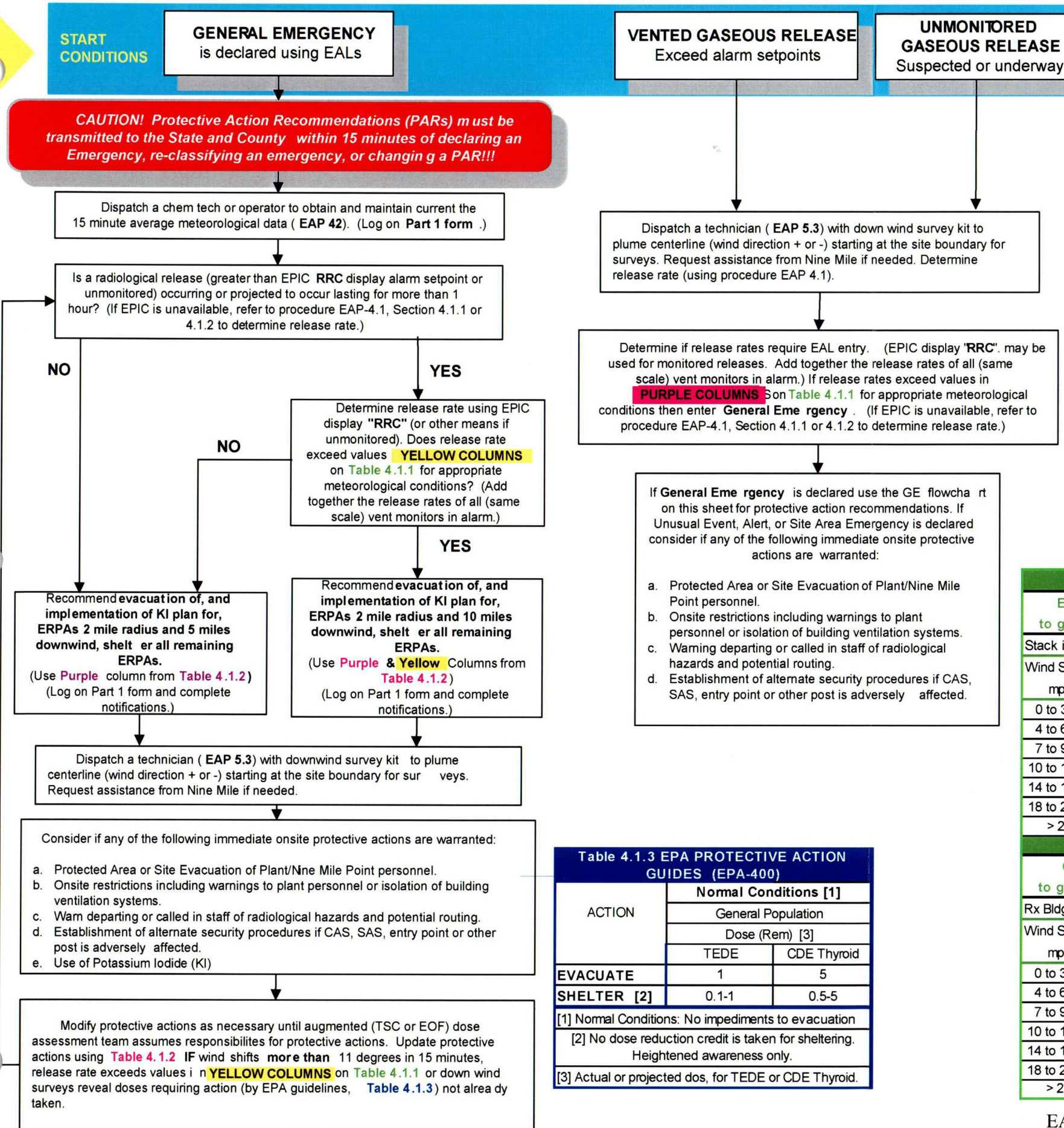


Table 4.1.2 GENERAL EMERGENCY EVACUATION ERPAs

Wind Direction From	This column includes 2 mile radius ERPAs and ERPAs 5 miles downwind.	This column includes only the ERPAs 5 to 10 miles downwind.
214 to 222	1,2,3,26,27	14,29
223 to 233	1,2,3,26,27	14,29
234 to 240	1,2,3,7,26,27	14,15,29
241 to 254	1,2,3,4,7,26,27	14,15,29
255 to 262	1,2,3,4,7,26,27	14,15,16,17,29
263 to 278	1,2,3,4,7,9,26,27	8,14,15,16,17,29
279 to 292	1,2,3,4,5,7,9,26,27	8,14,15,16,17,18,29
293 to 305	1,2,3,4,5,7,9,10,26,27	8,14,15,16,17,18,29
306 to 311	1,2,3,4,5,7,9,10,26,27	8,14,15,16,17,18,19,20,29
312 to 332	1,2,3,4,5,7,9,10,26,27	8,14,15,16,17,18,19,20
333 to 340	1,2,3,4,5,9,10,11,26,27	8,15,16,17,18,19,20,21,25
341 to 349	1,2,3,4,5,9,10,11,26,27	8,17,18,19,20,21,24,25
350 to 356	1,2,3,5,6,9,10,11,26,27	8,12,13,18,19,20,21,22,24,25
357 to 12	1,2,3,5,6,9,10,11,26,27	12,13,18,19,20,21,22,23,24,25
13 to 20	1,2,3,5,6,10,11,26,27	12,13,18,19,20,21,22,23,24,25
21 to 51	1,2,3,5,6,10,11,26,27	12,13,19,20,21,22,23,24,25,28
52 to 56	1,2,3,5,6,11,26,27	12,13,19,20,21,22,23,24,28
57 to 61	1,2,3,5,6,11,26,27	12,13,19,21,22,23,24,28
62 to 70	1,2,3,6,11,26,27	12,13,19,21,22,23,24,28
71 to 89	1,2,3,6,26,27	12,13,21,22,23,24,28
90 to 95	1,2,3,6,26,27	28
96 to 114	1,2,3,26,27	28
115 to 146	1,2,3,26,27	28
147 to 213	1,2,3,26,27	28,29

Table 4.1.1 PRECALCULATED DOSE ASSESSMENT VALUES

ELEVATED Release rate in Curies / Sec (Ci/s) to get 1 REM TEDE at the site boundary (.87 miles)					ELEVATED Release rate in Curies / Sec (Ci/s) to get 1 REM TEDE at 5 miles.				
Stack is elevated release					Stack is elevated release				
Wind Speed	Stability Class				Wind Speed	Stability Class			
mph	A	B/C	D	E/F/G	mph	A	B/C	D	E/F/G
0 to 3.99	2041	1124	3030	769	0 to 3.99	NA	NA	NA	NA
4 to 6.99	1975	909	769	769	4 to 6.99	35714	90909	7692	4348
7 to 9.99	5882	1515	1075	1250	7 to 9.99	52632	38462	2941	1724
10 to 13.99	7692	2083	1388	1724	10 to 13.99	50000	38462	3571	1961
14 to 17.99	11494	2857	1818	2273	14 to 17.99	66667	50000	4167	2500
18 to 21.99	14286	3704	2273	2776	18 to 21.99	83333	62500	5556	3226
> 22	17241	4348	2632	3226	> 22	102041	76923	6667	3846
VALUES ON ALL TABLE 4.1.1 ARE FOR 1 HR RELEASE DURATION.									
GROUND Release rate in Curies / Sec (Ci/s) to get 1 REM TEDE at the site boundary (.87 miles)					GROUND Release rate in Curies / Sec (Ci/s) to get 1 REM TEDE at 5 miles.				
Rx Bldg, Refuel Floor, Turbine Bldg., Radwaste and Unmonitored					Rx Bldg, Refuel Floor, Turbine Bldg., Radwaste and Unmonitored				
Wind Speed	Stability Class				Wind Speed	Stability Class			
mph	A	B/C	D	E/F/G	mph	A	B/C	D	E/F/G
0 to 3.99	1333	213	119	38	0 to 3.99	NA	NA	NA	NA
4 to 6.99	3226	286	143	48	4 to 6.99	153846	232558	1851852	NA
7 to 9.99	5556	526	250	83	7 to 9.99	90909	28571	6667	1031
10 to 13.99	7692	769	357	117	10 to 13.99	33333	6250	1235	192
14 to 17.99	10753	1075	500	164	14 to 17.99	62500	15625	3571	588
18 to 21.99	13514	1389	667	213	18 to 21.99	83333	20000	4762	769
> 22	16393	1667	833	256	> 22	102041	24390	5556	909

Table 4.1.3 EPA PROTECTIVE ACTION GUIDES (EPA-400)

ACTION	Normal Conditions [1]	
	General Population	
	Dose (Rem) [3]	
	TEDE	CDE Thyroid
EVACUATE	1	5
SHELTER [2]	0.1-1	0.5-5
[1] Normal Conditions: No impediments to evacuation		
[2] No dose reduction credit is taken for sheltering. Heightened awareness only.		
[3] Actual or projected dos, for TEDE or CDE Thyroid.		

EAP-4

Rev. No. 33

DOSE ASSESSMENT CALCULATIONS

ATTACHMENT 1

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# ATTACHMENT 2 AUGMENTED DOSE ASSESSMENT PROTECTIVE ACTIONS

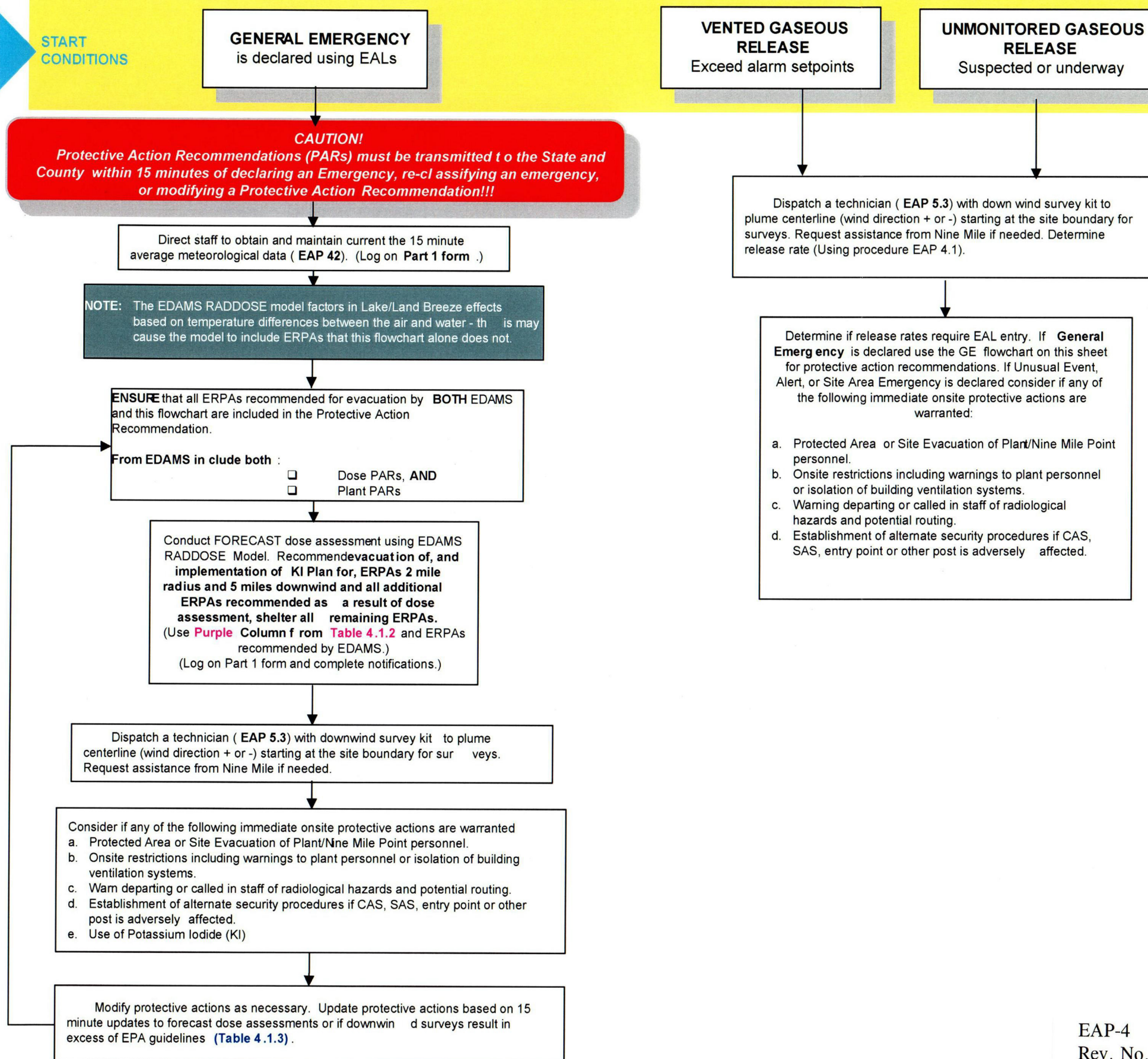
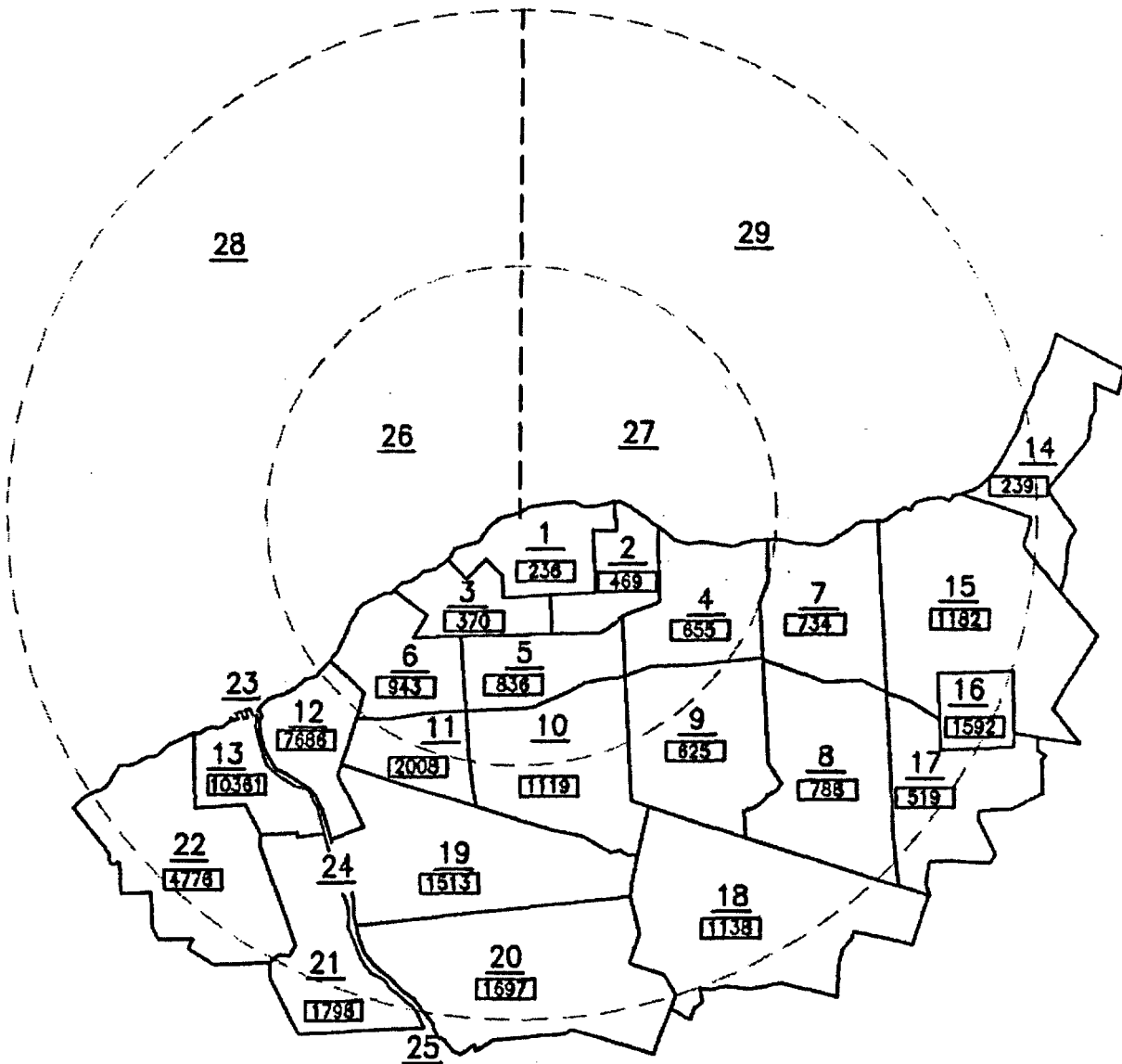


Table 4.1.3 EPA PROTECTIVE ACTION GUIDES (EPA-400)		
ACTION	Normal Conditions [1]	
	General Population	
	Dose (Rem) [3]	
	TEDE	CDE Thyroid
EVACUATE	1	5
SHELTER [2]	0.1-1	0.5-5
[1] Normal Conditions: No impediments to evacuation		
[2] No dose reduction credit is taken for sheltering. Heightened awareness only.		
[3] Actual or projected dose, for TEDE or CDE Thyroid.		

Table 4.1.2 GENERAL EMERGENCY EVACUATION ERPAs		
Wind Direction From	This column includes 2 mile radius ERPAs and ERPAs 5 miles downwind.	This column includes only the ERPAs 5 to 10 miles downwind.
214 to 222	1,2,3,26,27	Additional ERPAs for evacuation are selected based on dose assessment using the EDAMS RADDose model.
223 to 233	1,2,3,26,27	
234 to 240	1,2,3,7,26,27	
241 to 254	1,2,3,4,7,26,27	
255 to 262	1,2,3,4,7,26,27	
263 to 278	1,2,3,4,7,9,26,27	
279 to 292	1,2,3,4,5,7,9,26,27	
293 to 305	1,2,3,4,5,7,9,10,26,27	
306 to 311	1,2,3,4,5,7,9,10,26,27	
312 to 332	1,2,3,4,5,7,9,10,26,27	
333 to 340	1,2,3,4,5,9,10,11,26,27	The EDAMS Raddose model factors in Lake/Land Breeze effects that this table does not consider.
341 to 349	1,2,3,4,5,9,10,11,26,27	
350 to 356	1,2,3,5,6,9,10,11,26,27	
357 to 12	1,2,3,5,6,9,10,11,26,27	
13 to 20	1,2,3,5,6,10,11,26,27	
21 to 51	1,2,3,5,6,10,11,26,27	
52 to 56	1,2,3,5,6,11,26,27	
57 to 61	1,2,3,5,6,11,26,27	
62 to 70	1,2,3,6,11,26,27	
71 to 89	1,2,3,6,26,27	
90 to 95	1,2,3,6,26,27	
96 to 114	1,2,3,26,27	
115 to 146	1,2,3,26,27	
147 to 213	1,2,3,26,27	



	New Accident Names/Analyzed Accidents per Attachment A of EAP-4	Loss of Coolant Accident	Control Rod Drop	Refueling Accident	Steam Line Break Two Phase	Steam Line Break	LOCA - Engineered Safety Feature Component Leakage
		loca.jaf	crd.jaf	rfa.jaf	slb2.jaf	slb2.jaf	esf.jaf
	OLD EDAMS Accident Name Used	Loss of Coolant Accident	Control Rod Drop	Refueling Accident		Steam Line Break Two Phase	Containment Design Basis Accident
	Analyzed Release Point	Elevated	Ground	Elevated	Ground	Ground	Elevated
NOBLE GASES (Ci/sec)	Nuclide	LOCA	CRD	RFA	SLB1	SLB2	CDBA
	Kr 83M	1.353E+00	1.577E-03	3.552E-04	1.517E-05	1.517E-05	1.154E-02*
	Kr 85M	2.906E+00	3.386E-03	1.657E-01	2.725E-05	2.725E-05	1.508E-04
	Kr 85	1.301E-01	1.156E-04	9.144E-01	8.917E-08	8.917E-08	3.658E-09
	Kr 87	5.572E+00	6.494E-03	2.695E-05	8.917E-05	8.917E-05	0.000E+00
	Kr 88	7.894E+00	9.200E-03	5.252E-02	8.917E-05	8.917E-05	0.000E+00
	Kr 89	9.817E+00	1.144E-02	0.000E+00	5.800E-04	5.800E-04	0.000E+00
	Kr subtotal	2.767E+01	3.221E-02	1.133E+00	8.008E-04	8.008E-04	1.508E-04
	XeI31m	6.825E-02	7.953E-05	1.669E-01	6.692E-08	6.692E-08	7.994E-05*
	XeI33m	9.942E-01	1.159E-03	1.991E+00	1.292E-06	1.292E-06	1.934E-03
	XeI33	2.386E+01	2.781E-02	5.379E+01	3.658E-05	3.658E-05	2.769E-02
	XeI35	3.081E+00	3.589E-03	1.238E+01	9.833E-05	9.833E-05	1.952E-01
	XeI35m	4.494E+00	5.239E-03	6.803E-01	1.158E-04	1.158E-04	5.686E-01
	XeI37	2.094E+01	2.440E-02	0.000E+00	6.692E-04	6.692E-04	0.000E+00
	XeI38	1.888E+01	2.316E-02	0.000E+00	3.975E-04	3.975E-04	0.000E+00
IODINES (Ci/sec)	Xe subtotal	7.332E+01	8.544E-02	6.901E+01	1.319E-03	1.319E-03	7.934E-01
	Noble Gas (NG) subtotal	1.010E+02	1.176E-01	7.014E+01	2.120E-03	2.120E-03	7.936E-01
	I131	3.406E-02	1.323E-04	2.439E-02	9.808E-04	9.808E-04	1.918E-03
	I132	4.975E-02	1.933E-04	2.794E-05	7.628E-03	7.628E-03	2.803E-03
	I133	7.119E-02	2.766E-04	2.498E-02	6.536E-03	6.536E-03	4.011E-03
PARTICULATES (Ci/sec)	I134	7.839E-02	3.044E-04	3.467E-10	1.380E-02	1.380E-02	4.417E-03
	I135	6.725E-02	2.612E-04	4.233E-03	9.075E-03	9.075E-03	3.789E-03
	Iodine subtotal	3.006E-01	1.168E-03	5.363E-02	3.802E-02	3.802E-02	1.694E-02
	CS137	3.583E-03	1.671E-05	3.360E-03	1.198E-05	1.198E-05	2.019E-04
	TE132	8.178E-03	0.000E+00	0.000E+00	6.900E-04	6.900E-04	4.606E-04
	SR 89	2.132E-03	0.000E+00	0.000E+00	1.489E-04	1.489E-04	1.201E-04
	SR 90	2.228E-04	0.000E+00	0.000E+00	1.126E-05	1.126E-05	1.255E-05
	Ba140	4.094E-03	0.000E+00	0.000E+00	4.358E-04	4.358E-04	2.306E-04
	La140	4.336E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.443E-06
	Particulate subtotal	1.83E-02	1.67E-05	3.36E-03	1.30E-03	1.30E-03	1.03E-03
RELEASE RATE TOTALS (Ci/sec)		1.01E+02	1.19E-01	7.02E+01	4.14E-02	4.14E-02	8.12E-01
Accident Duration Used for EDAMS		8 hours	4 hours	2 hours	2 hours	2 hours	2 hours
TOTAL Release Assumed (Ci)		2.92E+06	1.71E+03	5.05E+05	2.98E+02	2.98E+02	5.84E+03
RATIOS	RATIOS	Loss of Coolant Accident	Control Rod Drop	Refueling Accident	Steam Line Break Two Phase	Steam Line Break	LOCA - Engineered Safety Feature Component Leakage
	Iodine / Noble Gas Ratio	2.98E-03	9.93E-03	7.65E-04	1.79E+01	1.79E+01	2.13E-02
	Noble gas / Iodine Ratio	3.36E+02	1.01E+02	1.31E+03	5.58E-02	5.58E-02	4.69E+01
	Noble Gas / Particulate Ratio	5.53E+03	7.04E+03	2.09E+04	1.63E+00	1.63E+00	7.72E+02
	Iodine / Particulate Ratio	1.65E+01	6.99E+01	1.60E+01	2.93E+01	2.93E+01	1.65E+01
	NG / Particulate + Iodine Ratio	3.17E+02	9.93E+01	1.23E+03	5.39E-02	5.39E-02	4.42E+01



LEGEND

1 ERPA Number

236 ERPA Population

2001 Population Estimates  
Emergency Response  
Planning Areas (ERPAs)

J.A. FitzPatrick/Nine Mile Point  
Radiological Emergency Response  
Plan and Procedures

## DOWNWIND SURVEY WORKSHEET

Page 1 of 1

Team Number \_\_\_\_\_

Sample Date \_\_\_\_\_

Sample Time \_\_\_\_\_

Map Location \_\_\_\_\_ Description \_\_\_\_\_ Miles Downwind \_\_\_\_\_ Degrees \_\_\_\_\_ Sector \_\_\_\_\_

Dose	Survey Results		Calculation					
	3 inches Dose Rate	3 feet	Closed Window Dose Rate (mrem/hour) <sup>(4)</sup>		Release Duration (hours)		Conversion mrem to rem $1 \times 10^{-3}$	Projected DDE (DDE . TEDE) Rem
Open Window Dose Rate								
Closed Window				X		X	$1 \times 10^{-3}$	-

Sample Volume (ft <sup>3</sup> )	Air Sample Results		Net cpm		K Factor <sup>(2)</sup>					
	Iodine Bkg _____ cpm	Iodine Net <sup>(1)</sup> (gross - bkg)					Child Thyroid (DCF)		Release Duration (hrs)	Projected CDE Thyroid (Rem)
	Iodine Gross _____ cpm <sup>(1)</sup>		X		$6 \times 10^{-11}$	X	$2.6 \times 10^6$ <sup>(3)</sup>	X	-	
	Particulate Bkg _____ cpm	Particulate Net (gross - bkg)		X	$4 \times 10^{-12}$	-	Particulate Concentration ( $\mu$ Ci/cc) or (Ci/m <sup>3</sup> )			
	Particulate Gross _____ cpm									

<sup>(1)</sup> If iodine net cpm is >8500, iodine cartridge should be returned for isotopic analysis on a priority basis.

<sup>(2)</sup> K factors assume 25 ft<sup>3</sup> sample volume.

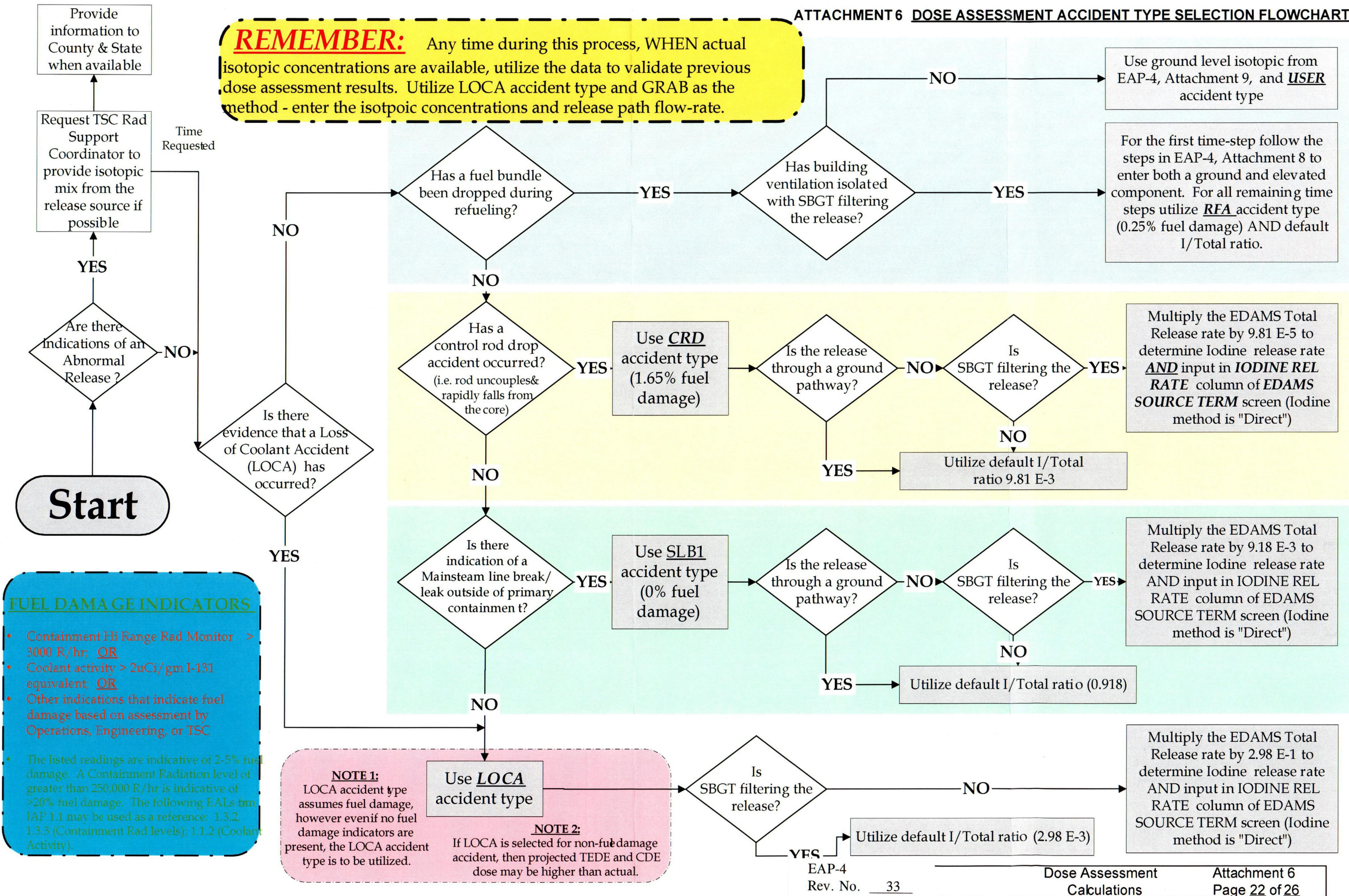
<sup>(3)</sup> Child Thyroid DCF reflects correction ( $1.3 \times 10^6 \times 2$ ) based on EPA-400-R-92-001, May 1992.

<sup>(4)</sup> Closed window dose rate equals DDE rate.

Completed by \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Print Initial Date Time



**REMEMBER:** Any time during this process, WHEN actual isotopic concentrations are available, utilize the data to validate previous dose assessment results. Utilize LOCA accident type and GRAB as the method - enter the isotopic concentrations and release path flow-rate.





CALCULATION FORM WHEN USING MONITOR READINGS TO ESTIMATE WHEN A PAR  
WILL BE REACHED BASED ON PROJECTED DOSE

Page 1 of 1

THYROID

1. Record EDAMS forecasted thyroid dose \_\_\_\_\_.
2. Record the corresponding plant effluent monitor reading that the thyroid dose in step 1 is based on \_\_\_\_\_.
3. Divide the value in step 1 by the value in step 2.

example:  $\frac{\text{forecasted thyroid dose}}{\text{effluent monitor reading}}$       work space:  $\frac{\text{rem}}{\text{units}} =$  \_\_\_\_\_

4. Divide 5rem (CDE thyroid PAG) by the result in step 3.

work space:  $\frac{5 \text{ rem}}{\text{units}} =$  \_\_\_\_\_

5. The result in step 4 corresponds to the monitor reading that will equal the 5rem PAG for CDE Thyroid based on the given flow, meteorology and monitor value at the time the data was taken.

TEDE

1. Record EDAMS forecasted TEDE dose \_\_\_\_\_.
2. Record the corresponding plant effluent monitor reading that the TEDE dose in step 1 is based on \_\_\_\_\_.
3. Divide the value in step 1 by the value in step 2.

example:  $\frac{\text{forecasted TEDE dose}}{\text{effluent monitor reading}}$       work space:  $\frac{\text{rem}}{\text{units}} =$  \_\_\_\_\_

4. Divide 1rem (TEDE PAG) by the result in step 3.

work space:  $\frac{1 \text{ rem}}{\text{units}} =$  \_\_\_\_\_

5. The result in step 4 corresponds to the monitor reading that will equal the 1rem PAG for TEDE based on the given flow, meteorology and monitor value at the time the data was taken.

**SOURCE TERM ENTRY FOR FIRST 15 MINUTE TIME STEP OF A REFUEL ACCIDENT  
WHEN BUILDING ISOLATION HAS OCCURRED AND THE RELEASE IS THROUGH THE  
STACK**

Page 1 of 2

The following information is extracted from JEP-00-034 for entry of Refuel Accident source term for the first 15 minute time step when building ventilation occurs as expected.

**BACKGROUND:**

During the Design Basis Refuel Accident, there will be two release pathways. The first release pathway is through the Reactor Building Vent for eight (8) seconds. This is a ground level, unfiltered release. The reason for this release is that isolation of the reactor building takes place in 18 seconds following the accident, and the reactor building ducting was sized to provide a ten (10) second delay. In addition, during the transition from the Normal Reactor Building Ventilation mode to the Isolated mode, a potential exfiltration activity release occurs. Exfiltration is the pressurization of the building. Radioactive gases, which escape the fuel pool, are released to the atmosphere 10 seconds after the accident for 8 seconds with a small additional release via exfiltration. The remainder of the activity which escapes the pool is released to the atmosphere via the Standby Gas Treatment System (SBGT) and the stack (elevated release) beginning 18 seconds after the accident.

**ENTRY STEPS FOR FIRST 15 MINUTE TIME STEP:**

The following steps should be performed to estimate the offsite dose following a refuel accident using EDAMS. In Raddose "Enter/Edit Source Term Data" Option, perform the following:

The first "time step" in the Source Term Data Entry Screen should contain two release pathways as follows:

2. On the first release path line, in the Accident type column, select "RFA - Refuel Accident". This will insert the filtered portion of the release into the model.
  - a. Select "Y" for Elevated Release.
  - b. In the METHOD column, select "FSAR - Default Release Rate".
  - c. Select the appropriate Iodine method.
3. On the second release path line of time step 1, in the Accident type column, select "USER- User Defined Accident".
  - a. Select "N" for Elevated Release.
  - b. Next, enter the following isotopic data into the isotopic entry screen:

Nuclide	μCi/sec
Kr 83m	2.32E+01
Kr 85m	1.08E+04
Kr 85	5.94E+04
Kr 87	1.76E+00
Kr 88	3.42E+03
Kr 89	0.00E+00

Nuclide	μCi/sec
Xe131m	1.10E+04
Xe133m	1.30E+05
Xe133	3.49E+06
Xe135	8.05E+05
Xe135m	4.42E+04
Xe137	0.00E+00

Nuclide	μCi/sec
Xe138	0.00E+00
I131	1.90E+04
I132	1.82E+01
I133	1.63E+04
I134	2.28E+04
I135	2.76E+03

Nuclide	μCi/sec
Cs137	2.19E+03
Te 132	0.00E+00
Sr 90	0.00E+00
Ba 140	0.00E+00
Sr 89	0.00E+00
La 140	0.00E+00

**SOURCE TERM ENTRY FOR FIRST 15 MINUTE TIME STEP OF A REFUEL  
ACCIDENT WHEN BUILDING ISOLATION HAS OCCURRED AND THE  
RELEASE IS THROUGH THE STACK**

Page 2 of 2

This isotopic data is the ground level, unfiltered, 8-second release time averaged over the 15 minute RADDOSE V time step.

3. Press the "Accept" button. RADDOSE V will now calculate the first time step with both the ground level and elevated portions of the release accounted for.

When this data is entered the first time step will appear similar to the following:

ADV STP	STEP TIME	PATH	ACCIDENT TYPE	FLOWRATE	METHOD	MONITOR READING	TOTAL REL RATE (Ci/sec)	I METHOD	IODINE MONITOR	I REL RATE (Ci/sec)
1	12:51	1E	RPA	*****	FSAR	*****	3.66E+01	FSAR	*****	4.55E-03
		2G	USER	*****	USER	4.62E+06	4.62E+00	USER	6.09E+04	6.09E-02
		3	NONE	*****		*****	*****	*****	*****	*****
----	STEP	----	-----	-----	-----	Total =	4.13E+01	Total	Iodine =	6.54E-02

4. During the second time step, and all others, ONLY USE the default Refuel Accident.

5. When this data is entered the second time step will appear similar to the following:

ADV STP	STEP TIME	PATH	ACCIDENT TYPE	FLOWRATE	METHOD	MONITOR READING	TOTAL REL RATE (Ci/sec)	I METHOD	IODINE MONITOR	I REL RATE (Ci/sec)
2	13:06	1E	RPA	*****	FSAR	*****	3.66E+01	FSAR	*****	4.55E-03
		2	NONE	*****		*****	*****	*****	*****	*****
		3	NONE	*****		*****	*****	*****	*****	*****
-----	STEP	-----	-----	-----	-----	Total =	3.66E+01	Total	Iodine =	4.55E-03



SOURCE TERM FOR A REFUEL ACCIDENT THAT RESULTS IN AN UNFILTERED  
RELEASE PATHWAY

Page 1 of 1

BACKGROUND

**NOTE:** Attachment 8 should be utilized if building ventilation isolation has occurred, and the release is being filtered through Stand-by Gas Treatment.

The following accident source term will be utilized prior to the availability of chemistry data for a refuel accident that results in an un-filtered release through either the stack, a building vent or unmonitored pathway. The information is taken from the EAP-4 Attachment 3 tab for decay time 0.0.

1. Select USER as the accident type.
2. You will be queried as to whether the release is elevated.
  - a. Respond as appropriate for the conditions.
3. You will then be prompted to enter each isotope in uCi/sec.
  - a. Utilize the following information for the release source-term:

ISOTOPE	uCi/sec
Kr 83m	3.06E+09
Kr 85m	1.42E+06
Kr 85	7.83E+06
Kr 87	2.32E+02
Kr 88	4.51E+05
Kr 89	0.00E+00
Xe131m	1.43E+06
Xe133m	1.71E+06
Xe133	4.61E+08
Xe135	1.06E+08
Xe135m	5.82E+06
Xe137	0.00E+00
Xe138	0.00E+00
Subtotal	6.01E+08

ISOTOPE	uCi/sec
I131	2.09E+06
I132	2.40E+03
I133	2.14E+06
I134	3.00E-02
I135	3.63E+05
Subtotal	4.62E+06
Cs137	2.88E+05
Tel32	0.00E+00
Sr 89	0.00E+00
Sr 90	0.00E+00
Ba140	0.00E+00
La140	0.00E+00
Subtotal	2.88E+07
Total	6.06E+08

4. Obtain and utilize isotopic data from the refuel floor vent or refuel floor atmosphere as soon as possible.

ENTERGY NUCLEAR OPERATIONS, INC.  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT  
EMERGENCY PLAN IMPLEMENTING PROCEDURE

JOINT NEWS CENTER OPERATION  
EAP-16.2  
REVISION 2

APPROVED BY: *W. L. L. L.*  
RESPONSIBLE PROCEDURE OWNER

DATE: 6/1/03

EFFECTIVE DATE: 6/1/03

FIRST ISSUE ☐

FULL REVISION ☐

LIMITED REVISION ☒

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PERIODIC REVIEW DUE DATE: MAY 2008

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## REVISION SUMMARY SHEET

## REV. NO.

- |   |  |
|---|--|
| 2 | Revised Attachment 9 to be consistent with State format.   |
| 1 | Added detail to responsibilities section for clarification of each position.<br><br>Added Definitions Section to define common terms.<br><br>Revised procedure throughout for human factors and to meet criteria established by State JNC procedure. |
| 0 | New Procedure  |

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**1.0 PURPOSE**

Provide guidance and define actions necessary to ensure coordination with Public Information Officers representing Oswego County, New York State and federal agencies in providing the public with timely and accurate information on plant conditions during a plant emergency.

**NOTE 1:** The Joint News Center Spokesperson or JAFNPP Emergency Director may, at their own discretion, direct the use of other procedures or forms and/or may deviate from this procedure as necessary to ensure fulfillment of the JNC mission.

**NOTE 2:** The JNC Mission is three fold:

- Provide timely information to the media through media briefings and news releases.
- Develop and disseminate emergency advisories to the public in the 10-mile Emergency Planning Zone (EPZ) through the Emergency Alert System (EAS). These advisories are restricted to official notification of protective actions recommended by governmental officials for the general public within the 10-mile EPZ.  
(Controlled by outside agencies)
- To conduct media response, media monitoring, and public inquiry response operations to ensure the public receives accurate and timely information.

**2.0 REFERENCES**

**2.1 Performance References**

None

**2.2 Developmental References**

2.2.1 IAP-2, Classification Of Emergency Conditions

2.2.2 NUREG-0654, Rev 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants

2.2.3 NMP-JAF JNC Procedures 03 (Document created by County Officials describing JNC processes)

**3.0 INITIATING EVENTS**

- 3.1 Declaration of an emergency as an "Alert" or higher, per IAP-2, Classification Of Emergency Conditions.
- 3.2 Directed activation by the Shift Manager or Emergency Director.

**4.0 RESPONSIBILITIES**

**4.1 Emergency Director (ED)**

- 4.1.1 Reviews briefing notes and news releases for technical concurrence and acknowledgement.

**4.2 JNC Spokesperson**

- 4.2.1 The JNC Spokesperson is responsible for the coordination and approval of all information prior to release to the media and public.
- 4.2.2 Coordinate information with public information spokesperson for local, state, and federal agencies.
- 4.2.3 Supervise preparation of briefing notes and support material (i.e.: diagrams) for media briefings.
- 4.2.4 Preside at media briefings.
- 4.2.5 Coordinate media interviews with the Briefing Room Coordinator in response to media inquiries.
- 4.2.6 Conduct routine interviews.
- 4.2.7 Ensure accuracy, timeliness and completeness of news releases.
- 4.2.8 Approve briefing notes and news releases for distribution.

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4.3 JNC Director

- 4.3.1 The JNC Director is responsible to the JNC Spokesperson for the supervision and direction of JNC operations involved with the flow of information from the plant to the JNC staff.

NOTE: If the JNC Director position is not filled, the JNC Spokesperson assumes JNC Director responsibilities.

- 4.3.2 Maintain overall command and control of JNC operations, including public inquiry functions.
- 4.3.3 Designate a Public Inquiry Coordinator.
- 4.3.4 Designate an Assistant JNC Director as required.
- 4.3.5 Designate a Briefing Room Coordinator as required.
- 4.3.6 Assist the Briefing Room Coordinator with informing media representatives of scheduled media briefings.
- 4.3.7 Designate a person to act as the JNC State and County Liaison (if required).
- 4.3.8 Supervise preparation of news releases.
- 4.3.9 Maintain communications and coordinate activities between the JNC and Entergy Nuclear Northeast offices and facilities.
- 4.3.10 Coordinate information and briefings with federal, state and local emergency preparedness groups located at the JNC.
- 4.3.11 Supervise activities of the Administrative Manager.
- 4.3.12 Ensure required staffing for JNC activation.
- 4.3.13 When JNC activities are terminated, ensure logs and paperwork are provided to Emergency Planning for permanent file.



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#### 4.4 Technical Briefer

- 4.4.1 The Technical Briefer is responsible to the JNC Spokesperson for the technical accuracy of information received at the JNC prior to use by JNC staff.
- 4.4.2 Attend media briefings as requested by the JNC Spokesperson to assist JNC Spokesperson with technical information presented to the news media.
- 4.4.3 Review as requested, news releases and briefing notes for technical accuracy.
- 4.4.4 Provide information concerning the incident and plant operations for use by personnel during Pre-Briefings and media briefings.
- 4.4.5 Obtain and review plant information with JNC Spokesperson, JNC Director and JNC staff ensuring all are kept up to date (use technical information line or travel to EOF as necessary).
- 4.4.6 Assist the JNC Spokesperson with identifying and organizing topics for the next media briefing.
- 4.4.7 Attend Pre-Briefings to assist with technical issues.
- 4.4.8 Obtain responses to reporters' questions, which remained unanswered during media briefings.
- 4.4.9 Ensure the JNC Spokesperson is notified of event termination.
- 4.4.10 When JNC activities are terminated, ensure all logs, status boards and paperwork forwarded to JNC Director for inclusion in the permanent plant file.

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**4.5 JNC Public Information Technical Assistant**

- 4.5.1 The Public Information Technical Assistant is responsible to the JNC Director for obtaining information on plant status and events via the Tech Information Line Headset.
- 4.5.2 Assist the Technical Briefer to ensure technical accuracy of information received.
- 4.5.3 Maintain a chronological log of significant events for posting in the utility workroom.
- 4.5.4 Develop approximate trending plots of key plant parameters (i.e.: reactor pressure, reactor water level, building radiation levels and stack release rates) as requested.
- 4.5.5 When JNC activities are terminated, ensure all logs, status boards and paperwork forwarded to JNC Director for inclusion in the permanent plant file.

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#### 4.6 RP Briefer

- 4.6.1 The RP Briefer is responsible to the JNC Spokesperson for providing accurate information associated with the radiological aspects of the incident and plant operations.
- 4.6.2 Support JNC staff with recognizing and understanding radiological conditions.
- 4.6.3 Obtain information on radiological status from the EOF Dose Assessment Staff as necessary (may travel to EOF as necessary).
- 4.6.4 Assist in the identification and organization of radiological topics for the next media briefing.
- 4.6.5 Attend Pre-Briefings as requested to provide the following:
  - Information on the radiological status
  - Events at the plant
  - Emergency response of RP staff
- 4.6.6 Review as requested, the radiological accuracy of briefing notes and news releases.
- 4.6.7 When JNC activities are terminated, ensure all logs, status boards and paperwork forwarded to JNC Director for inclusion in the permanent plant file.

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**4.7 Briefing Room Coordinator**

- 4.7.1 The Briefing Room Coordinator is responsible to the JNC Director for hosting JNC news media.
- 4.7.2 Interact with JNC news media to determine and respond to their need for background information and support services.
- 4.7.3 Ensure the availability of news releases, briefing summaries, Emergency Alert System messages, press kits and other materials.
- 4.7.4 Identify and welcome media representatives to the JNC.
- 4.7.5 Brief the JNC spokesperson on the media present at the JNC and their information needs.
- 4.7.6 Provide assistance by briefing reporters on past media briefings, showing them their work areas and distributing copies of available information.
- 4.7.7 Attend Pre-briefings to report on any media requests or news media at the JNC.
- 4.7.8 Announce the time for the next scheduled media briefing and provide background information to reporters and photographers (including Public Inquiry number: 315-592-3740).
- 4.7.9 Coordinate interviews between reporters and JNC staff, including, but not exclusive to the JNC Spokesperson.
- 4.7.10 Relay requests for media interviews to the federal, state or county spokespeople.
- 4.7.11 Record questions asked by the media requiring follow up and deliver to the Spokesperson after the briefing.
- 4.7.12 After each media briefing, determine whether reporters need assistance in obtaining additional information.
- 4.7.13 Direct media information requests, if appropriate, to the third party technical experts.

**4.8 Writer**

- 4.8.1 The Writer is responsible to the JNC Director for the development of all Entergy news releases as directed.
- 4.8.2 When JNC activities are terminated, ensure all logs, status boards and paperwork forwarded to JNC Director for inclusion in the permanent plant file.

**4.9 Typist**

- 4.9.1 The Typist is responsible to the JNC Spokesperson for the development of briefing notes as directed.
- 4.9.2 Generate notice to the media for:
  - JNC Activation
  - Event Termination.
- 4.9.3 When JNC activities are terminated, ensure all logs, status boards and paperwork forwarded to JNC Director for inclusion in the permanent plant file.

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**4.10 Administrative Manager**

- 4.10.1 The Administrative Manager is responsible to the JNC Director for directing all activities and functions at the JNC not directly involved with information flow from the plant to the news media.
- 4.10.2 Supervise administrative functions such as:
  - Registration
  - Clerical services
  - Security
  - Setup and maintenance of JNC facilities
  - Final distribution of approved news releases
- 4.10.3 Ensure copies of news releases and other requested materials are provided to the Briefing Room Coordinator.
- 4.10.4 Supervise videotaping and photographic services.
- 4.10.5 Coordinate auxiliary services such as travel, lodging and food services.
- 4.10.6 Contact the EOF Security Coordinator (593-5880) to request JNC security support. Prior to security support arriving, assign two JNC staff to ensure only blue or yellow-badged staff enter the pre-brief area and the back entrance to the Media Briefing room.
- 4.10.7 Ensure completion of Attachment 5, Staffing Chart.
- 4.10.8 Report JNC operational readiness to the JNC Director.
- 4.10.9 Ensure completion of Attachment 10, JNC Deactivation Checklist, after termination of JNC activities.

**4.11 Video/Photo Services**

**NOTE:** Entergy photographers provide photographic and video services.

- 4.11.1 The Video/Photo Services staff is responsible to the Administrative Manager for coordinating operation and use of JNC video and photo services.
- 4.11.2 Videotape all media briefings conducted at the JNC, for permanent record.
- 4.11.3 Provide duplication and playback capability for videotapes of earlier media briefings.
- 4.11.4 Assist off-air monitoring of radio and television news broadcasts and bulletins concerning the emergency.
- 4.11.5 When JNC activities are terminated, ensure all logs, status boards and paperwork forwarded to JNC Director for inclusion in the permanent plant file.
- 4.11.6 Provide video/CD/visual aids for JNC Spokesperson and Technical Briefer.

**4.12 Clerical**

- 4.12.1 Clerical staff are responsible to the Administrative Manager for performing assigned tasks including the following:
  - Typing and word processing support
  - Photocopy and facsimile support
  - Distribution of news releases and supporting materials
  - JNC Registration
- 4.12.2 When JNC activities are terminated, ensure all logs, status boards and paperwork forwarded to JNC Director for inclusion in the permanent plant file.

**4.13 Security**

- 4.13.1 Security personnel are responsible to the Administrative Manager for ensuring completion of JNC security needs.

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**4.14 Public Inquiry Coordinator**

- 4.14.1 The Public Inquiry Coordinator is responsible to the JNC Director for coordinating public and media inquiry response and media monitoring.
- 4.14.2 Ensure all public inquiry associated actions are logged.
- 4.14.3 Ensure audio and video broadcasts applicable to the event are recorded.
- 4.14.4 Ensure Public Inquiry, Media Inquiry and Media Monitoring areas are activated (should use Attachment 7, Public Inquiry Coordinator Checklist).
- 4.14.5 Ensure all media reports are documented using Attachment 9, Public Inquiry-Media Response Log Sheet.
- 4.14.6 Provide immediate feedback to the JNC Director of any inaccurate or incorrect reports.
- 4.14.7 Obtain and place in safe-keeping recordings of inaccurate media coverage (for post emergency/event review), including printed Internet pages.
- 4.14.8 Ensure Public Inquiry Team is adequately staffed with personnel from JAF, Nine Mile, State and County to support the following:
  - Public Inquiry
  - Media Monitoring
  - Media Inquiry
- 4.14.9 Ensure Inquiry Response team members are provided with information and materials to adequately answer inquiries.
- 4.14.10 Ensure corrections to inaccurate reports are provided. This may include the following actions:
  - Notifying the JNC Spokesperson for inclusion into upcoming briefings, or
  - Contacting the responsible station or publication directly



- 4.14.11 Ensure the "Public Inquiry" telephone number is announced at all media briefings.
- 4.14.12 When JNC activities are terminated, ensure all logs, status boards and paperwork forwarded to JNC Director for inclusion in the permanent plant file.

#### 4.15 Public Inquiry Staff

- 4.15.1 Public Inquiry Staff are responsible to the Public Inquiry Coordinator for completing assigned tasks.
- 4.15.2 Assist Public Inquiry Coordinator as directed with all public inquiry associated actions.
- 4.15.3 When JNC activities are terminated, ensure all logs, status boards and paperwork forwarded to JNC Director for inclusion in the permanent plant file.

#### 4.16 Communications Staff

- 4.16.1 Assist in responsibility for all notifications to the news media in the event of a declared emergency.
- 4.16.2 May be assigned to act as the JNC Director or JNC Spokesperson.
- 4.16.3 Prior to JNC activation, prepare news releases as directed by the Emergency Director.

#### 4.17 Emergency Preparedness Manager

Ensure the JNC staff, facilities and procedures are maintained in accordance with the JAF Emergency Plan.

---

5.0 PROCEDURE

## 5.1 JNC Pre-Activation

- 5.1.1 JAF Communications Manager or designees will be notified of a declared emergency by normal ERO notification methods (pager, automated telephone call) or by a call via other company methods.
- 5.1.2 The Communications Manager or designee should perform the following prior to JNC Activation:
  - A. Develop a news release appropriate to the event.
  - B. Obtain approval (verbal OR written) of the news release content from the Emergency Director.
  - C. Distribute the news release to the media as appropriate.
  - D. If appropriate, inform Communications On-call Representative they will be responsible for all news media inquiries until the JNC is declared operational.
  - E. If the event is terminated, then perform appropriate notifications.
  - F. If appropriate, provide information to local and state officials.

---

**5.2 JNC Activation**

- 5.2.1 The JNC shall be activated upon declaration of an Alert emergency classification or higher, or any event the ED expects to attract significant media attention.
- 5.2.2 If the JNC is activated for causes other than a declared emergency, the JNC Director shall ensure the SM is notified.
- 5.2.3 The JNC Director should travel to the JNC and ensure the JNC activation commences.
- 5.2.4 The JNC Director shall verify the JNC is staffed with the following positions:

REQUIRED (JNC Director or ED may alter requirement)

- JNC Spokesperson (may also act as JNC Director)
- JNC Director
- Public Inquiry Coordinator
- Technical Briefer
- JNC Administrative Manager

DESIGNATED

- Assistant JNC Director
- Briefing Room Coordinator
- Media Monitoring Staff
- Media Inquiry Staff
- Public Inquiry Staff

ADDITIONAL STAFF

- Writer
- Typist
- Video/Photo Services
- Technical Assistants
- RP Briefer
- Clerical staff
- Security

- 5.2.5 All JNC doors, with exception of the main door, shall remain locked or guarded.
- 5.2.6 Pre-Briefing areas shall be provided with personnel assigned to ensure privacy of Pre-Briefing sessions (only blue and yellow badged staff allowed into Pre-Briefing area).
- 5.2.7 JNC Administrative Manager ensures actions to activate JNC. Use Attachment 4, JNC Activation Checklist as a guide.

### 5.3 JNC Operation

#### 5.3.1 Registration

- A. Every individual requesting entry to the JNC must present photo identification.
- B. Licensee, county, state and federal employees must have picture identification issued by the county, state or federal agency.

NOTE: During drills or exercises, drill controllers and observers require only "Drill" badges.

- C. Appropriately colored badges shall be issued to each individual entering the JNC, with the holder's name indicated on the badge:
  - Blue - observers and visitors
  - Pink - media: a separate log (pink) should be kept for print, radio and television media
  - Yellow - all JNC staff
- D. If a question arises regarding authorization of an individual, the Administrative Manager shall be contacted.
- E. Press kits and media manuals shall be placed in media Briefing Room, Press Telephone Room and Public Inquiry Room.
- F. Personnel leaving the JNC shall return their assigned JNC badge to the registration desk and sign out of the respective registration log.

---

5.3.2 Public Inquiry, Media Inquiry and Media Monitoring

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NOTE 1: Ensure information provided comes from news releases, EAS messages and media briefings.

NOTE 2: Any message agreed upon by the state, county, or licensee may be used, thus providing the ability to address specific incorrect or inaccurate information.

A. Public Inquiry

1. Inquiries shall be logged using Attachment 9, Public Inquiry - Media Response Inquiry And Off Air Monitor Form and monitored for trends.
2. The JNC Director shall be notified of inquiry trends.
3. Authorized statements and answers to questions shall be provided based on approved information available at the time (i.e.: approved news releases, annual reports, etc.).
4. Phones should be answered by saying "Joint News Center, may I help you?"
5. Only materials and information provided by the Public Inquiry Coordinator should be used to respond to inquiries.
6. Only factual information relative to the caller's questions or concerns should be provided.
7. If unsure how to best answer a caller's question, contact the Public Inquiry Coordinator.
8. Completed Attachment 9 sheets shall be submitted to the Public Inquiry Coordinator as they are completed.

**B. Media Inquiry**

1. Inquiries shall be logged using Attachment 9, Public Inquiry - Media Response Inquiry And Off Air Monitor Form and monitored for trends.
2. The JNC Director shall be notified of inquiry trends.
3. Authorized statements and answers to questions shall be provided based on approved information available at the time (i.e.: approved news releases, annual reports, etc.).
4. Inquiries requiring further elaboration or special response shall be referred to the appropriate source. If the appropriate sources are unavailable, a return call should be offered, "as soon as feasible." Do not make guarantees to meet deadlines.
5. One copy of all response logs shall be provided to the NY State PIO.

---

**C. Media Monitoring**

1. JNC recording equipment shall be used to monitor and record audio and video news broadcasts and bulletins carried by radio and television stations.
2. The Internet shall be monitored for news applicable to the event. Applicable Internet news shall be printed. Typical web sites include:
  - www.cnn.com
  - www.cbs.com
  - www.abc.com
  - www.msnbc.com
  - www.nbc.com
  - www.foxnews.com
3. All reports identified as applicable to the event (broadcasts, newspaper, internet, etc.) shall be logged on Attachment 9, Public Inquiry - Media Response Inquiry And Off Air Monitor Form.
4. All reports shall be reviewed for accuracy.
5. Review and monitor off-air monitoring and recording capability to ensure every opportunity for prompt identification of inaccurate or incorrect information is utilized.
6. All reports requiring correction shall be brought to the attention of the Public Inquiry Coordinator.
7. Newspapers should be reviewed to identify articles pertaining to the events at the plant.
8. Applicable newspaper articles should be retained for permanent plant file.



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**5.3.3 Audio-Visual**

All media briefings at the JNC shall be recorded to provide a permanent record of the event.

**5.3.4 Security**

- A. The Administrative Manager should contact the EOF Security Coordinator (593-5880) to request JNC security support.
- B. Prior to security support arriving, the Administrative Manager should assign two JNC staff to ensure only blue or yellow badged staff enter the pre-brief area and the back entrance to the Media Briefing room.
- C. All personnel must register at the registration desk (evidenced by JNC badge).
- D. All building entrances are to be kept locked except the main entrance.
- E. Media personnel are permitted access through the side entrance as required for equipment setup, but must be monitored.

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**5.4 News Releases**

- 5.4.1 News releases are developed at the direction of the JNC Spokesperson.
- 5.4.2 News releases are used for immediate release pertinent written information for circumstances where waiting for a media briefing is not prudent. Examples include:
  - A. A change in Emergency Classification
  - B. Release of radioactivity outside the site boundary in excess of regulatory limits
  - C. Personnel radiation exposures exceeding regulatory limits
  - D. A fatality or serious injury
  - E. Emergency event termination
- 5.4.3 A News release should include the following:
  - A. Current date and time (indicates final approval prior to distribution.
  - B. A sequential news release number
  - C. Present emergency classification, the time the classification was declared and the reason for the classification
  - D. Other pertinent information
  - E. Should be closed with "-30-"
- 5.4.4 News releases should be developed on company letterhead and formatted per Attachment 3, News Release Example.

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## 5.5 Media Briefings

### 5.5.1 Preparation

#### A. Briefing Notes

1. Briefing notes should be formatted per Attachment 2, Briefing Notes Example.
2. The JNC Spokesperson or JNC Director should work with the Technical Briefer and the Typist to ensure briefing notes contain the following information as applicable:
  - Emergency classification, standard definition of classification and time of declaration
  - Plant status
  - Abnormal radiological conditions
  - Major actions and activities
  - Anticipated time of briefing
  - Sequential briefing number
3. Prior to using briefing notes in a media briefing, the JNC Spokesperson ensures the following:
  - Technical accuracy
  - Clarification of undefined acronyms or highly technical terms
  - Review by RP Briefer (if appropriate)
  - Review by State and County representatives
  - Review by the Emergency Director
  - Review and approval by JNC Spokesperson

**B. Pre-Briefing**

1. Prior to conducting a media briefing, a Pre-Briefing shall be held.
2. The State PIO facilitates the Pre-Briefing.
3. Attendees from Entergy should include the following:
  - JNC Spokesperson
  - JNC Director
  - Technical Briefer
  - Radiation Protection Briefer
  - Public Inquiry Coordinator
  - Briefing Room Coordinator
  - Others as requested
4. Media briefing format, flow and topics of discussion will be established, outlined and agreed upon for a timely, accurate and professional media briefing.
5. Media briefings will be based on "news" - change since the last briefing.
6. Media briefing speakers shall be identified and prepared.

**5.5.2 Presentation**

A. Media briefings are held as circumstances dictate.

1. If a significant event occurs or critical information becomes available, a media briefing may be called by the State or County PIO or the JNC Spokesperson.
2. The party desiring the media briefing will notify the JNC Director.
3. The JNC Director will ensure notification of other parties, and coordinate a Pre-Briefing.

B. Prior to conducting a media briefing, a Pre-Briefing shall be held.

C. A media briefing should be structured to answer the following questions:

- What has happened?
- What effect will it have on the public?
- What protective actions are required?
- What other actions are being taken?

**5.5.3 Interruptions**

- A. Media briefings may be interrupted for instances of "breaking news" such as changes in ECL, changes in radiological releases, impending EAS messages, etc.
- B. If an interruption is required, the following will be announced:

"We need to close this briefing so our spokespeople can be updated with the most current information. We will be back with you as soon as possible."

- C. The time for the next media briefing will be announced as soon as possible; however, no longer than 30 minutes from the time of interruption.

**5.5.4 Delays**

- A. If a media briefing must be delayed from its originally announced time, the JNC Director or Briefing Room Coordinator will announce to the media the following:

"Our spokespeople are currently being updated on the situation. The next briefing will be delayed a short time so they may bring you the most current information. The briefing will be held at (time)."

- B. A media briefing should not be delayed more than 30 minutes from its original scheduled time.

**5.6 Termination of JNC Activities**

- 5.6.1 All JNC staff shall assist by clearing their assigned workstations and returning the JNC to a de-activated status.
- 5.6.2 The JNC Director shall ensure completion of Attachment 10, Deactivation Checklist.

6.0 RECORDS RETENTION

**NOTE:** This section is only applicable if records are generated during an actual emergency.

- 6.1 The records generated by this procedure shall be maintained for the Permanent Plant File, including all completed attachments.

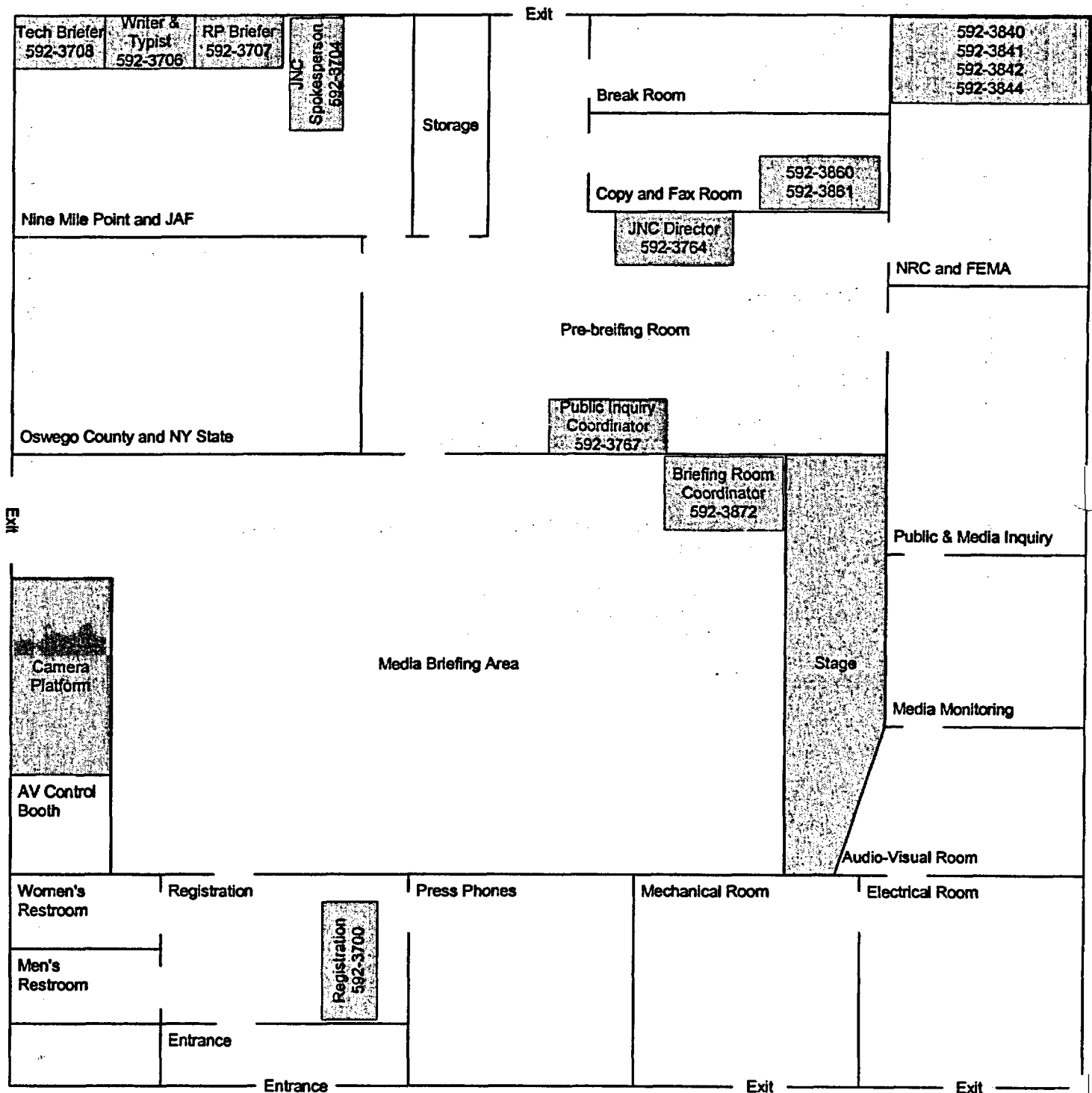
7.0 ATTACHMENTS

1. JNC FLOOR PLAN
2. BRIEFING NOTES EXAMPLE
3. NEWS RELEASE EXAMPLE
4. JNC ACTIVATION CHECKLIST
5. STAFFING CHART
6. REGISTRATION CHECKLIST
7. PUBLIC INQUIRY COORDINATOR CHECKLIST
8. AUDIO-VISUAL CONTROL BOOTH CHECKLIST
9. PUBLIC INQUIRY - MEDIA RESPONSE INQUIRY AND OFF AIR  
MONITOR FORM
10. DEACTIVATION CHECKLIST



## ATTACHMENT 1

Page 1 of 1

JNC FLOOR PLAN

## ATTACHMENT 2

Page 1 of 1

BRIEFING NOTES EXAMPLE**EXERCISE  
ONLY**

Entergy Nuclear Northeast  
Entergy Nuclear Operations, Inc.  
James A. FitzPatrick NPP  
P. O. Box 110  
Lynnwood, NY 13093  
Tel 315-342-3840

NOT FOR RELEASE

March 13, 2003  
BRIEFING NOTES

Finalized by: \_\_\_\_\_  
(Spokesperson/Director)

Briefing Number: 2

Scheduled for: 10:30AM

Classification

An Alert, the second lowest of four classifications for events at nuclear power plants was declared at 9:17AM, due to a natural gas odor detected in the screenhouse of the plant.

Plant Status

- Alert classification follows an Unusual Event classification declared at 8:16 AM due to a fire in the turbine building
- Natural gas odor has been eliminated
- Fire was extinguished within 15 minutes of discovery
- No impact to employees or the public
- As precaution, facility emergency response teams have been activated

Radiological Conditions

- No radiological release above limits

Rumor Control Number: 315-592-3720

## ATTACHMENT 3

Page 1 of 1

NEWS RELEASE EXAMPLE

James A. FitzPatrick  
Nuclear Power Plant  
Entergy Nuclear Northeast  
PO Box 110  
Lycoming, NY 13093

**This is a Drill****This is a Drill****This is a Drill**

Date: [Click here and insert date as Month day, year]

For Release: Immediate --#[Click here and insert number]

Contact: Joint News Center  
315-592-3740**News  
Release****Site Area Emergency Declared at James A. FitzPatrick Nuclear Station**

Lycoming, NY –Entergy Nuclear Northeast declared a site area emergency at its James A. FitzPatrick Nuclear Power Plant [Click here and insert day of week] due to [Click here and insert explanation for declaring General Emergency].

A site area emergency is the third (in order of increasing severity) of the four classifications of incidents at nuclear power plants.

[Click here and insert text]

The U.S. Nuclear Regulatory Commission and state and county officials were notified.

The nuclear businesses of Entergy Corporation (NYSE: ETR) are headquartered in Jackson, Miss. Entergy Nuclear is the second largest and fastest growing operator of nuclear power plants in the nation. It operates five reactors at four locations in Arkansas, Mississippi and Louisiana under regulatory jurisdictions and five reactors at four sites in Massachusetts, New York and Vermont. Entergy Nuclear also is the nation's largest provider of license renewal and decommissioning services to the nuclear power industry.

-30-

Entergy Nuclear's address is [www.entergy.nuclear.com](http://www.entergy.nuclear.com)

JNC ACTIVATION CHECKLIST

Page 1 of 1

Complete   N/A

- |                          |                          |   |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 1. Contact the EOF Security Coordinator (593-5880) to request JNC security support.   |
|                          |                          | 2. Assign two JNC staff to ensure only blue or yellow badged staff enter the Pre-brief area and the back entrance to the media briefing room. |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Ensure registration desk staffed and registration is conducted per Att. 8, Registration Checklist.   |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Ensure all doors except main door are locked and remain locked.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Ensure Security personnel are assigned to Pre-Briefing areas.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Acquire cordless telephone (x3715) kept in NMP/JAFNPP room.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. Ensure clocks synchronized with US Naval Observatory (202)762-1401.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Ensure completion of Steps 1 - 7, Att. 10, JNC Audio Visual Checklist.   |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Verify the following staff are signed into JNC Staffing sign-in sheet:   |

REQUIRED (Director/Spokesperson or ED may alter requirements)

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | JNC Spokesperson (may also act as JNC Director) |
| <input type="checkbox"/> | JNC Director                                    |
| <input type="checkbox"/> | Public Inquiry Coordinator                      |
| <input type="checkbox"/> | Technical Briefer                               |
| <input type="checkbox"/> | JNC Administrative Manager                      |

DESIGNATED

- |                          |                           |
|--------------------------|---------------------------|
| <input type="checkbox"/> | Assistant JNC Director    |
| <input type="checkbox"/> | Briefing Room Coordinator |
| <input type="checkbox"/> | Media Monitoring Staff    |
| <input type="checkbox"/> | Media Inquiry Staff       |
| <input type="checkbox"/> | Public Inquiry Staff      |

ADDITIONAL STAFF

- |                          |                      |
|--------------------------|----------------------|
| <input type="checkbox"/> | Writer               |
| <input type="checkbox"/> | Typist               |
| <input type="checkbox"/> | Video/Photo Services |
| <input type="checkbox"/> | Technical Assistants |
| <input type="checkbox"/> | RP Briefer           |
| <input type="checkbox"/> | Clerical staff       |
| <input type="checkbox"/> | Security             |

- |                          |                          |  |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Ensure Public Inquiry initiated (Att. 9).  |
| <input type="checkbox"/> | <input type="checkbox"/> | 11. Ensure all equipment, computers and printers are on.   |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Ensure Staffing Chart updated as staff members fill JNC positions.   |
| <input type="checkbox"/> | <input type="checkbox"/> | 13. Ensure appropriate Emergency Level Classification signs posted in JNC.   |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Coordinate required services with the EOF Purchasing Staff, including:   |
|                          |                          | • Backup electrical generator      • Lodging   |
|                          |                          | • Messenger services                • Laundry services   |
|                          |                          | • Additional clerical staff          • Catering  |
|                          |                          | • Transportation                    • Additional equipment   |
| <input type="checkbox"/> | <input type="checkbox"/> | 15. If required, coordinate with JNC Director and EOF Staffing Coordinator (593-5880) to develop 1st and 2nd shift staff schedules.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 16. Ensure water supplies in electrical/mechanical rooms are available and full. If not, call for service per instructions on tanks. |
| <input type="checkbox"/> | <input type="checkbox"/> | 17. Ensure all Briefing Room reference materials (i.e. posters, displays, etc.) refer to Entergy's FitzPatrick only.                 |

STAFFING CHART

Page 1 of 1

ENTERGY NUCLEAR NORTHEAST JAMES A. FITZPATRICK NPP		JOINT NEWS CENTER STAFF SIGN IN	
POSITION		1ST SHIFT	2ND SHIFT
Spokespersons	JNC (Entergy)*		
	Nine Mile		
	Oswego County		
	New York State		
	FEMA		
	NRC		
	Others		
JNC Director*			
Assistant Director (designate)			
Briefing Room Coordinator			
Technical Briefer*			
Technical Assistant			
RP Briefer			
Writer			
Typist			
Public Inquiry Coordinator*			
Public Inquiry Staff			
Audio Visual			
Security			
Administrative Manager*			
Clerical	Registration		
	Copy Room		
	Fax Machines		
	Other		
Oswego County Staff			
New York State Staff			
Additional Staff			

\*Required Positions

# REGISTRATION CHECKLIST

Page 1 of 1

Complete N/A

## Registration (Activation)

- ☐ ☐ 1. Set out individual registration sheets and badges with holders for:
  - ☐ observers and visitors (blue)
  - ☐ media representatives (pink)
  - ☐ JNC staff, including state/county/federal officials (yellow)
- ☐ ☐ 2. Ensure JAF media kit and JNC information sheet are available for use by media.
- ☐ ☐ 3. Ensure all personnel already inside the JNC have been properly badged.

## Registration (De-activation)

- ☐ ☐ 1. Return unused registration materials to proper place on shelves or file cabinets behind registration desk.
- ☐ ☐ 2. Separate returned badges from holders and return holders to inventory.
- ☐ ☐ 3. File pre-made JNC staff yellow badges.
- ☐ ☐ 4. Destroy and dispose of used blue and pink badges.
- ☐ ☐ 5. Perform an inventory of registration supplies and report needs to the JNC Administrative Manager.
- ☐ ☐ 6. Turn over registration logs to JNC Administrative Manager and report registration closure complete.

PUBLIC INQUIRY COORDINATOR CHECKLIST

Page 1 of 1

Complete   N/A

- ☐   ☐ 1. Pick up cordless telephone (ext. 3767) and keep it with you while in the JNC.
- ☐   ☐ 2. Verify all monitors (video and audio) are set to the appropriate electronic media outlet as below: (VCRs provide the channel number for the monitors)

TV Stations

- ☐ Channel 3  
☐ Channel 5  
☐ Channel 9  
☐ Primestar on CNN

Radio Stations

- ☐ WSGO (1410 AM)  
☐ WZZZ (1300 AM)  
☐ WSCP (1070 AM)  
☐ WSYR (570 AM)  
☐ WNDR (1260 AM)  
☐ WKFM (104.7 FM)  
☐ WSGO (105.5 FM)

- ☐   ☐ 3. Ensure videotapes are inserted in VCRs as necessary.
- ☐   ☐ 4. Ensure audiotapes are inserted in tape players as necessary.
- ☐   ☐ 5. Ensure Public Inquiry is staffed.
- ☐   ☐ 6. Ensure the "Public Inquiry" phone number (315-592-3720) is distributed to state, county, and licensee telephone operators and posted in the Media Briefing Room.

# AUDIO-VISUAL CONTROL BOOTH CHECKLIST

Page 1 of 1

NOTE 1: AV equipment assistance can be obtained from the Emergency Plan Manager, or if immediate response is needed, from Univisions (437-0301).

NOTE 2: An equipment setup manual for all AV equipment is kept in the Equipment Manuals file cabinet drawer in the NMP/JAF room.

Complete N/A

## Start-up

- ☐ ☐ 1. Obtain control booth key (labeled JNC Master) from key cabinet located in the NMP/JAFNPP room and unlock booth.
- ☐ ☐ 2. Turn on audio system (green 'main power' button, top of audio rack).
- ☐ ☐ 3. If wireless microphones are to be used:
  - ☐ Turn on wireless microphone (black button on power supply just below top section of audio rack).
  - ☐ Obtain wireless microphones from bottom drawer of audio rack.
  - ☐ Replace batteries (new batteries located on back shelf) in wireless microphone units.
  - ☐ Deliver wireless microphone to spokesperson prior to media briefing.
- ☐ ☐ 4. Turn video recording and Internal Cable TV (ICTV) are on (switches labeled 'power 2' and 'power 3' on video rack bottom).
- ☐ ☐ 5. Verify video camera is on. If not, turn the DC power switch to RCU (located at top rear panel of camera).
- ☐ ☐ 6. Ensure VCRs (3) are on (used to record press briefings).
- ☐ ☐ 7. Ensure overhead lighting is on as needed during briefings using the three switches located on the wall opposite the camera.
- ☐ ☐ 8. Ensure media cabling is routed through cable tray located on back stage and not run through doors.
- ☐ ☐ 9. Ensure rear projection screen video projector in the main briefing room is on (press "PJ" button and then the "on" button on the video projector remote control).
- ☐ ☐ 10. Select the computer display by pressing the AS (source) button on the video projector remote control until the computer display is presented.

## Shutdown

- ☐ ☐ 1. Turn off power supplies.
  - ☐ Turn off green switch labeled main power switch.
  - ☐ Turn off red switches labeled power 2 and power.
  - ☐ Verify camera, VCRs and sound equipment, power down.
- ☐ ☐ 2. Turn off lights, lock door, return key to key cabinet.
- ☐ ☐ 3. Report any equipment problems, issues or needs to JNC Director.



PUBLIC INQUIRY - MEDIA RESPONSE  
INQUIRY AND OFF AIR MONITOR FORM

Page 1 of 1

Type of call: (Public Inquiry) (Professional Inquiry) (Media Inquiry) (Media Monitor Report)

Date of call/broadcast: \_\_\_\_\_ Time of call/broadcast: \_\_\_\_\_

Name of responder/monitor: \_\_\_\_\_

Media Name/Location: \_\_\_\_\_

Caller's/Reporter's name: \_\_\_\_\_ Phone: (\_\_\_\_)\_\_\_\_-\_\_\_\_\_

Question(s) asked/Inaccurate Information: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Response given/Correct Information and Source: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Is call back required: (\_\_\_\_) Yes (\_\_\_\_) No Call Back Number (\_\_\_\_)\_\_\_\_-\_\_\_\_\_

If yes, call back completed at: \_\_\_\_\_ By \_\_\_\_\_

Was the call referred: (\_\_\_\_) Yes (\_\_\_\_) No If yes, to whom? \_\_\_\_\_

Further action required: (\_\_\_\_) Yes (\_\_\_\_) No

Was this action completed? (\_\_\_\_) Yes (\_\_\_\_) No By \_\_\_\_\_

Reported to Public Inquiry Coordinator at \_\_\_\_\_

Public Inquiry Coordinator Notes: \_\_\_\_\_

\_\_\_\_\_

**Return completed form to Public Inquiry Coordinator:**

DEACTIVATION CHECKLIST

Page 1 of 1

Complete   N/A

- |                          |                          |   |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 1. JNC Registration logs collected and all badges returned and accounted for.   |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Turn over all logs and related materials to JNC Director.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Adjust heating/cooling system temperatures to 68° F.   |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Turn off all TVs and VCRs in media monitoring room.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Ensure off video projector by pushing the PJ push-button (it should light) and then holding the power off push-button on the remote control for the video projector until a message appears on the screen stating, wait a few moments. |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Verify water supply is available and full. If not call for service per instructions on tanks.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. Ensure shutdown all computers, printers and other equipment.   |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Call for septic tank to be pumped using number provided in utility room.   |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Ensure all coffee pots are turned off, emptied and cleaned.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Inventory JNC supplies, including: <ul style="list-style-type: none"><li>• Copier paper</li><li>• Bottled water</li><li>• Condiments</li><li>• Office supplies</li></ul>  |
| <input type="checkbox"/> | <input type="checkbox"/> | 11. Email JAF Emergency Planning Coordinator of needed supplies and to have NMPC empty the dumpster (if required).  |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Ensure water in bathroom facilities is not running.   |
| <input type="checkbox"/> | <input type="checkbox"/> | 13. Report completion of termination activities to JNC Director.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Turn off all lights.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 15. Verify all doors are locked.  |
| <input type="checkbox"/> | <input type="checkbox"/> | 16. Forward this checklist and all generated paperwork to Emergency Planning Manager.   |

**EMERGENCY PLAN IMPLEMENTING PROCEDURES/VOLUME 3  
UPDATE LIST**

**CONTROLLED COPY # 34**

Date of Issue: JUNE 9, 2003

Procedure Number	Procedure Title	Revision Number	Date of Last Review	Use of Procedure
N/A	TABLE OF CONTENTS	REV. 23	12/98	N/A
EAP-26	PLANT DATA ACQUISITION SYSTEM ACCESS	REV. 12	11/02	Informational
EAP-27	ESTIMATION OF POPULATION DOSE WITHIN 10 MILE EMERGENCY PLANNING ZONE	REV. 10	06/02	Informational
EAP-28	EMERGENCY RESPONSE DATA SYSTEM (ERDS) ACTIVATION	REV. 6	07/00	Reference
EAP-29	EOF VENTILATION ISOLATION DURING AN EMERGENCY	REV. 6	05/03	Informational
EAP-30	EMERGENCY TERMINATION AND TRANSITION TO RECOVERY*	REV. 1	05/03	Informational
EAP-31	RECOVERY MANAGER*	REV. 2	05/03	Informational
EAP-32	RECOVERY SUPPORT GROUP*	REV. 9	05/03	Informational
EAP-33	DEVELOPMENT OF A RECOVERY ACTION PLAN*	REV. 1	05/03	Informational
EAP-34	ACCEPTANCE OF ENVIRONMENTAL SAMPLES AT THE EOF/EL DURING AN EMERGENCY	REV. 4	05/03	Informational
EAP-35	EOF TLD ISSUANCE DURING AN EMERGENCY	REV. 7	05/03	Informational
EAP-36	ENVIRONMENTAL LABORATORY USE DURING AN EMERGENCY	REV. 5	05/03	Informational
EAP-37	SECURITY OF THE EOF AND EL DURING DRILLS, EXERCISES AND ACTUAL EVENTS	REV. 7	02/03	Informational
EAP-39	DELETED (02/95)			
EAP-40	DELETED (02/98)			
EAP-41	DELETED (12/85)			
EAP-42	OBTAINING METEOROLOGICAL DATA	REV. 20	06/03	Informational
EAP-43	EMERGENCY FACILITIES LONG TERM STAFFING	REV. 60	05/03	Informational
EAP-44	CORE DAMAGE ESTIMATION	REV. 5	05/03	Informational
EAP-45	EMERGENCY RESPONSE DATA SYSTEM (ERDS CONFIGURATION CONTROL PROGRAM)	REV. 6	07/00	Informational
SAP-1	MAINTAINING EMERGENCY PREPAREDNESS	REV. 17	02/03	Informational
SAP-2	EMERGENCY EQUIPMENT INVENTORY	REV. 35	01/03	Reference
SAP-3	EMERGENCY COMMUNICATIONS TESTING	REV. 73	02/03	Reference

**EMERGENCY PLAN IMPLEMENTING PROCEDURES/VOLUME 3  
UPDATE LIST**

Date of Issue: JUNE 9, 2003

<b>Procedure Number</b>	<b>Procedure Title</b>	<b>Revision Number</b>	<b>Date of Last Review</b>	<b>Use of Procedure</b>
SAP-4	NYS/OSWEGO COUNTY EMERGENCY PREPAREDNESS PHOTO IDENTIFICATION CARDS	REV. 10	05/03	Informational
SAP-5	DELETED (3/98)			
SAP-6	DRILL/EXERCISE CONDUCT	REV. 19	03/03	Informational
SAP-7	MONTHLY SURVEILLANCE PROCEDURE FOR ON-CALL EMPLOYEES	REV. 36	08/02	Informational
SAP-8	PROMPT NOTIFICATION SYSTEM FAILURE/SIREN SYSTEM FALSE ACTIVATION	REV. 13	12/02	Informational
SAP-9	DELETED (02/94)			
SAP-10	METEOROLOGICAL MONITORING SYSTEM SURVEILLANCE	REV. 11	03/02	Informational
SAP-11	EOF DOCUMENT CONTROL	REV. 11	06/02	Informational
SAP-13	EOF SECURITY AND FIRE ALARM SYSTEMS DURING NORMAL OPERATIONS	REV. 4	06/02	Informational
SAP-14	DELETED (02/95)			
SAP-15	DELETED (11/92)			
SAP-16	UTILIZING EPIC IDT TERMINALS FROM DESTINY SYSTEM	REV. 4	06/02	Informational
SAP-17	EMERGENCY RESPONSE DATA SYSTEM (ERDS) QUARTERLY TESTING	REV. 7	07/00	Continuous
SAP-19	SEVERE WEATHER	REV. 4	01/01	Informational
SAP-20	EMERGENCY PLAN ASSIGNMENTS	REV. 22	05/03	Informational
SAP-21	DELETED (04/01)			
SAP-22	EMERGENCY PLANNING PROGRAM SELF ASSESSMENT	REV. 2	05/03	Informational

ENTERGY NUCLEAR OPERATIONS, INC.  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT  
EMERGENCY PLAN IMPLEMENTING PROCEDURE

OBTAINING METEOROLOGICAL DATA  
EAP-42  
REVISION 20

APPROVED BY: *W. Culbert*  
RESPONSIBLE PROCEDURE OWNER

DATE: *5/29/03*

EFFECTIVE DATE: *June 9, 2003*

FIRST ISSUE ☐

FULL REVISION ☐

LIMITED REVISION ☒

*****	*****
*	*
* INFORMATIONAL USE *	* TSR *
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* ADMINISTRATIVE *	CONTROLLED COPY # <u><i>34</i></u>
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PERIODIC REVIEW DUE DATE: *May 2008*

## REVISION SUMMARY SHEET

## REV. NO.

- 20
  - Add section 4.7 for directions to logoff Met System.
  - Add logoff instructions on Attachment 3.
  - Added notes about logoff to section 4.2.
- 19
  - Updated phone numbers for pages
  - Added Sigma Theta and Delta to Attachment 6
- 18
  - In section 1.0, 4.3.2 and attachment 3 added Security Alarm Station.
  - In attachment 3 number 5 - added "or EOF" to the direct connect to Met Data.
  - In section 4.2.2.D added SAS to the menu and added "direct connect OR" to the EOF.
- 17
  - In section 4.4.1, 4.4.5, 4.4.6.A, 4.4.7 & 8.A-D updated the channels with numbers rather than letters.
  - Replaced attachments 4, 5 and 7 with updated pictures.
  - Made Attachment 7 posted attachment A.
  - Added note in section 4.4.7 to make user aware that they may use posted attachment A for notification requirements.
- 16
  - Deleted the words Niagara Mohawk due to their company change.
  - In section 4.4.2 - updated the information to check when attempting to obtain data from the strip chart recorders and deleted the section following 4.4.3.
  - Added Attachment 7 that shows atmospheric stability.
- 15
  - Added NIMO Mete contact information to sections 4.6.1 and 4.5.3.
  - An adjustment was made to the cover sheet to reflect the company name change.
- 14
  - Added the TSC as an alternate location for performing forecasting of mete data.
  - In section 4.2.2., deleted step G, and changed its test to a NOTE prior to step 4.2.B.

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## 1.0 PURPOSE

This procedure provides instructions for accessing meteorological data in the Control Room, Technical Support Center, Emergency Operations Facility or Secondary Alarm Station and includes provisions for long-term forecasting.

## 2.0 REFERENCES

None

### 2.1 Developmental References

2.1.1 EAP-4, DOSE ASSESSMENT CALCULATIONS

2.1.2 Emergency Dose Assessment Model System (EDAMS) System Design Specification

## 3.0 INITIATING EVENTS

3.1.1 An emergency has been declared in accordance with IAP-2, CLASSIFICATION OF EMERGENCY Conditions, or

3.1.2 EAP-4, DOSE ASSESSMENT CALCULATIONS, has been implemented.

## 4.0 PROCEDURE

### 4.1 Description of Available Methods

Meteorological data is available from the following sources:

- A. Emergency Dose Assessment Modeling System (EDAMS)
- B. Nine Mile Point Units 1 or 2 Control Rooms
- C. Analog strip charts in Control Room or Technical Support Center
- D. Any JAF Networked PC
- E. National Weather Service

The general methodology involved would concern providing meteorological data dependent on type of release. An elevated release (stack) would utilize 200' level data; and if unavailable, would progress in decreasing order to 100', 30' and backup tower data (90'). Likewise, a ground release (any other than stack) would utilize 30' level data, and if unavailable, would progress in increasing order to 100', 200' and backup tower data (90').

This list does not delineate a required order of priority but provides a listing of resources based on accessibility timeliness and accuracy of 15 minute averaged data.

**NOTE:** Flowchart (Attachment 1) is provided as a quick reference and may be utilized by the operator familiar with the body of this procedure.

It is optional to record met data on Attachment 2, Obtaining Meteorological Data for Manual Computer Input; this may provide some convenience.

#### 4.2 Obtaining Meteorological Data from EDAMS

**NOTE:** From the TSC, EOF, or SAS the user should Logoff (disconnect) from the Met Data system when the automatic access to the data is no longer needed. This will normally be at the termination of an emergency, drill, or exercise.

##### 4.2.1 If the EDAMS computer is on-line:

- A. The computer will automatically requery the met system and update the data every 15 minutes on the quarter hour (eg. 1300, 1315, 1330, etc.). A beep may be heard when the update occurs.
- B. When recording data, the operator should confirm the time and date displayed are the most current (ie. within the last 15 minutes of the current time).
- C. The operator may select "Requery" to ensure the most current data is displayed.

**NOTE:** From the TSC, EOF, or SAS the user should Logoff (disconnect) from the Met Data system when the automatic access to the data is no longer needed. This will normally be at the termination of an emergency, drill, or exercise.

4.2.2 If EDAMS is **NOT** on-line, log onto the system as follows:

**NOTE:** Attachment 3 may be used to guide the operator through the steps to activate the EDAMS computer and obtain meteorological data.

A. Ensure black switch on CR or TSC meteorological panels is positioned to the Niagara Mohawk ("B") position.

**NOTE:** Select "Continue" at the plant picture screen.

B. Energize the EDAMS computer power strip to provide power to the computer, monitor and printer.

C. Select the "Login" icon from the EDAMS icons and select "Continue" at the plant picture screen.

D. Select the appropriate menu item based on your location as follows:

<u>Location:</u>	<u>Menu Choice</u>
CR	Direct Connect to Met Data
TSC	Direct Connect to Met Data
EOF	Direct Connect OR Automatic Dial-in to Met Data
SAS	Automatic Dial-in to Met Data
SIMULATOR	Automatic Dial-in to Met Data

E. When the login routine finishes, close the login screen by selecting "OK".

F. From the EDAMS icons, select "Emergency Met Report".

G. Select "James A. FitzPatrick" and "Both" for unit and release height, then select "OK". The emergency meteorology data will be displayed.

H. Ensure that "Continuous Requery?" is enabled.

I. The computer will automatically requery the met system and update the data every 15 minutes on the quarter hour (eg. 1300, 1315, 1330, etc.). A beep may be heard when the update occurs.

#### 4.3 Obtaining Meteorological Data from Nine Mile

4.3.1 From the Control Room, use the direct line phone to Unit 1 or 2 Control Room and request latest 15 minute averaged data.

- 4.3.2 If for some reason direct line unavailable, from TSC EOF or SAS, use a commercial phone with one of the following numbers:

A. NMP1: 349-2841, 349-2842 or 349-2843

B. NMP2: 349-2168, 349-2169 or 349-2170

#### 4.4 Obtaining Meteorological Data from Analog Strip Charts

- 4.4.1 Description of analog strip charts and information available.

There are four (4) analog strip chart recorders available in the Control room and TSC to provide meteorological data.

Each of the three recorders (D, G, J) have two channels (1 and 2) to provide wind speed and direction.

Channel 1= wind speed in mph (0-100 mph) traced on left

Channel 2 = wind direction in degrees(arc) (540° range) traced on right

Recorders used for wind speed and direction	
D	Main Tower 200' level
G	JAF Backup Tower 90' level
J	Main Tower 30' or 100' level (selector switch provided)

Recorder K is provided for stability class determination.

Recorder K has the following four traces:	
1	Provides temperature in °F at 30' level
2	Provides $\Delta T$ in °F from 30' to 100' level
3	Provides $\Delta T$ in °F from 30' to 200' level
4	Selectable sigma theta (wind direction variation)

Trace 4 has four selectable channels to trace for:	
A	High main tower (200')
B	Mid main tower (100')
C	Low main tower (30')
D	Backup tower (90')

- 4.4.2 Before attempting to obtain data from any of the strip chart recorders, ensure they are functioning by verifying the date and time on the display is correct. The strip chart runs at 1"/hr. Time indicated is Eastern Standard Time.
- 4.4.3 When manually retrieving meteorological data, primary concern is given to wind speed and direction, and to the stability class at particular elevations, dependent on the type of release.
- 4.4.4 In order to properly estimate the last 15 minutes on the strip chart, measure the last 1/4" of data for each parameter, if not readily visible, and/or the chart has not already been advanced, do so in order to average the last 15 minutes of data properly. Obtain a minimum of 4 data points within that 1/4" of chart and average.
- 4.4.5 Meteorological data for a Ground or both a Ground and Elevated release are to be determined as follows:

- A. There are 3 recorders, which record wind speed and direction (Recorders D, G, and J). For each chart, wind speed (the left trace) is labeled Channel 1 and is in MPH (the range is 0 to 100 MPH and spans the left side of the chart) and wind direction (the right trace) is labeled Channel 2 and is in degrees arc (the range is 0 to 540 degrees and spans the right side of the chart). Consult Attachment 4.

To obtain wind direction and speed for a ground or ground and elevated release, you must first determine whether the Recorder "J" toggle switch is set for 30 or 100 foot (Main Tower). If it is set for 30 foot (Main), average the wind speed and direction as per step 4.4.5.

If the Recorder "J" toggle switch is set for 100 foot (Main Tower) and/or there is no 30 foot data, adhere to the following hierarchy of substeps:

1. Average the wind speed and direction as per step 4.4.5 for Recorder "G", which is meteorological data for the JAF Back-up Tower 90 foot level.

2. If Recorder "G" is inoperable average the wind speed and direction as per step 4.4.5 for Recorder "D", which is meteorological data for the Main Tower 200 foot level.
3. If both Recorder "G & D" are inoperable average the wind speed and direction as per step 4.4.5 for Recorder "J" which is meteorological data for either the 30 or 100 foot Main Tower levels, as determined by the toggle switch position.
4. If NO strip chart wind speed and direction data is available, proceed to section 4.5 after completing 4.4.8.

4.4.6 Meteorological data for an elevated release is to be determined as follows:

- A. There are 3 recorders, which record wind speed and direction (Recorders D, G and J). For each chart, wind speed (the left trace) is in MPH (the range is 0 to 100 MPH, and spans the left side of the chart) and wind direction (the right trace) is in degrees arc (the range is 0 to 540 degrees and spans the right side of the chart). Consult Attachment 4.

To obtain wind speed and direction for an elevated release, adhere to the following substeps:

1. Average the wind speed and direction as per step 4.4.5 for Recorder "D", which is meteorological data for the Main Tower 200 foot level.
2. If Recorder "D" is inoperable average the wind speed and direction as per step 4.4.5 for Recorder "G", which is meteorological data for the JAF Back-up Tower 90 foot level.
3. If both Recorder "D & G" are inoperable average the wind speed and direction as per step 4.4.5 for Recorder "J" which is meteorological data for either the 30 or 100 foot Main Tower levels, as determined by the toggle switch position.
4. If NO strip chart wind speed and direction data is available, proceed to section 4.5 after completing 4.4.8.

- 4.4.7 To determine stability class for either a ground or elevated release, you must utilize Recorder "K" information, which contains 4 channels that span the full chart:

**NOTE:** Prior to declaring the TSC Operational, POSTED ATTACHMENT A, EXAMPLES OF ATMOSPHERIC STABILITY may be used in the Control Room and/or TSC to provide quick stability class estimation to meet offsite agency notification requirements.

- A. Trace labeled "1" provides ambient temperature, on a -40 to +110 scale and indicates the current temperature in degrees F at the Main Tower 30 foot level.
- B. Trace "2" provides temperature difference (delta T) between the 30 and 100 foot level on the Main Tower, and is on the -8 to +20 scale in degrees F.
- C. Trace "3" provides temperature difference between the 30 and 200 foot level on the Main Tower, and is on the same -8 to +20 scale in degrees F.
- D. Trace "4" provides sigma theta (wind direction variation), on a scale of 0 to 30 degrees, at a level dependant on the switch position on the front of the TIGRAPH recording panel:

Switch Position	Level	Tower
A	200 ft.	Main (Primary)
B	100 ft.	Main (Primary)
C	30 ft.	Main (Primary)
D	90 ft.	JAF (Back-up)
Consult Attachment 5.		

- 4.4.8 To derive stability class for either a ground or elevated release, or both, utilize Attachment 4 and adhere to the following hierarchy of substeps:

- A. Average the trace "4" (sigma theta) on Recorder "K", utilizing the 0 to 30 scale, as per step 4.4.5, noting the switch position, and consulting Attachment 6 to determine letter stability class.

**NOTE:** If data is invalid, you may want to switch another switch position to get the most representative data (for the next 15 minute average). For example, for an elevated release you should utilize switch position A, then B, D and finally C, and for a ground release, the progression is C, B, D and then A.

- B. If Trace "4" is unavailable, average the Trace "3" (temperature difference 30 - 200 foot) on Recorder "K", utilizing the -8 to +20 degree F scale as per step 4.4.5 and consulting Attachment 6 to determine letter stability class.
- C. If Traces "4" and "3" are unavailable, average the Trace "2" (temperature difference 30 - 100 foot) on Recorder "K", utilizing the -8 to +20 degree F scale as per step 4.4.5 and consulting Attachment 6 to determine letter stability class.
- D. If Traces "4", "3", and "2" are unavailable, estimate stability by comparing wind direction and speed traces to the samples posted on the side of the TIGRAPH 200 housing and/or utilizing the "Atmospheric Stability Characterization" table on Attachment 6.
- E. If All Recorders are unavailable for meteorological data, proceed to section 4.5.

#### 4.5 Obtaining Meteorological Information From Other Sources

- 4.5.1 If meteorological data is not obtained via the primary method (digital) or secondary method (analog strip charts) information on local wind speed and direction, and stability class can be obtained through other sources.
- 4.5.2 Meteorological data is also available from any JAF networked PC.
- 4.5.3 Nine Mile Meteorological Data
  - A. Telephone the Nine Mile Point Nuclear Station #1 Control Room via the "hot line" or dial phone, and request pertinent meteorological data needed.



B. In addition, supplemental information may be obtained through Nine Mile via their Meteorological Building. Contact one of the following people for assistance:

Tom Galetta - 349-2715 (Office) \*Pager # 1193  
Joe Blakeley - 349-1179 (Office) \*Pager # 1040

\* To access the Constellation pager, call 1-877-472-7874.

#### 4.5.4 National Weather Service Meteorological Data

Data may be obtained via telephone on 716-565-0014. Indicate what meteorological data is needed and note the source of the information.

#### 4.5.5 Stability Estimation

Consult Attachment 6 and estimate stability class via a characterization of the local meteorological conditions.

### 4.6 Meteorological Forecasting

Meteorological forecasting capabilities during an emergency at JAF will be handled from the EOF (primary) or TSC (alternate) by assigned personnel using the Internet or an on-line service.

#### 4.6.1 For assistance in forecasting, contact one of the following people:

Tom Galetta - 349-2715 (Office) \*Pager # 1193  
Joe Blakeley - 349-1179 (Office) \*Pager # 1040

\* To access the Constellation pager call 1-877-472-7874

#### 4.6.2 Assigned personnel will establish a connection with the Internet or on-line service to become familiar with the current and forecast weather situation.

#### 4.6.3 Assigned personnel will provide JAF Dose Assessment Group a weather forecast.

#### 4.6.4 Provide weather condition and forecast updates until the event requiring support is formally terminated. The frequency of updates will be based upon factors such as the variability of weather conditions and the needs of JAF emergency personnel.

**NOTE:** Disconnecting from the Met Data System is not necessary in the Control Room during normal use - this location is expected to remain connected except during times of maintenance and/or testing.

#### 4.7 Disconnecting From The Met Data System

- 4.7.1 Assigned personnel will provide JAF Dose Assessment Group a weather forecast.
- 4.7.2 When met data access is no longer necessary from SAS, EOF, or TSC, THEN perform the following steps:
  - A. IF any of the dose model screen are open, THEN close each screen using the appropriate menu button option.
  - B. IF the Emergency Met Report screen is open, THEN select done.
  - C. From the EDAMS icons select "Logoff".
  - D. Follow prompts to complete the logoff process.

#### 5.0 ATTACHMENTS

- 1. MET DATA ACQUISITION QUICK REFERENCE FLOWCHART
- 2. OBTAINING METEOROLOGICAL DATA FOR MANUAL COMPUTER INPUT
- 3. GUIDE FOR USING EDAMS COMPUTER TO OBTAIN METEOROLOGY DATA
- 4. ANALOG WIND SPEED AND DIRECTION, RECORDERS D, G AND J
- 5. RECORDER "K"
- 6. CLASSIFICATION OF ATMOSPHERIC STABILITY
  - A. POSTED ATTACHMENT A - EXAMPLES OF ATMOSPHERIC STABILITY

## ATTACHMENT 1

MET DATA ACQUISITION QUICK REFERENCE FLOWCHART

<b>EDAMS</b>	
<ul style="list-style-type: none"><li>• Select "Requery" with the mouse.</li></ul>	
<b>Nine Mile</b>	
<ul style="list-style-type: none"><li>• Direct phone line to Unit 1 or 2 Control Room</li></ul>	Unit 1 CR: 349-2841 349-2842 349-2843
<ul style="list-style-type: none"><li>• Commercial phone</li></ul>	Unit 2 CR: 349-2168 349-2169 349-2170
<b>Analog Strip Charts</b>	
<b>Any JAF Networked PC</b>	
<b>Other Resources</b>	
<ul style="list-style-type: none"><li>• Nine Mile Meteorological Building</li><li>• National Weather Service (716-565-0014)</li></ul>	

OBTAINING METEOROLOGICAL DATA FOR  
MANUAL COMPUTER INPUT

Page 1 of 1

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Release Type: \_\_\_\_\_

Meteorology

Wind Speed: \_\_\_\_\_ MPH @ \_\_\_\_\_ ft. level on \_\_\_\_\_ Tower

Other (Specify) \_\_\_\_\_

Wind Direction: \_\_\_\_\_ deg. @ \_\_\_\_\_ ft level on \_\_\_\_\_ Tower

Other (Specify) \_\_\_\_\_

Stability Class: \_\_\_\_\_ (A - G)

Method: \_\_\_\_\_ (Sigma Theta - wind variation)

\_\_\_\_\_ (Temp. Difference - 30 - 200 ft)

\_\_\_\_\_ (Temp. Difference - 30 - 100 ft)

\_\_\_\_\_ Estimation

Other (Specify) \_\_\_\_\_

Additional information \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ATTACHMENT 3  
GUIDE FOR USING EDAMS COMPUTER TO  
OBTAIN METEOROLOGY DATA

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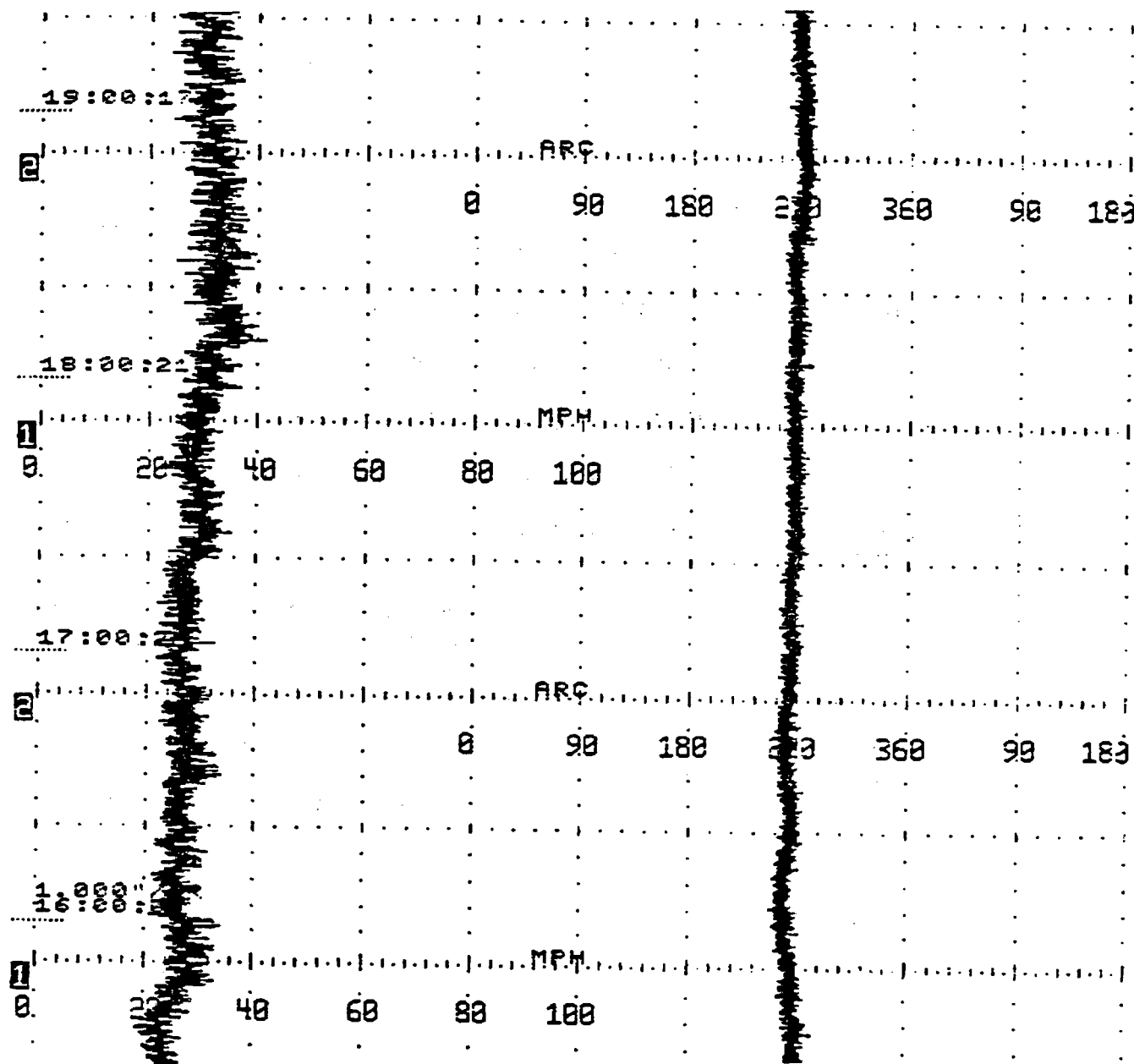
1. If in the CR or TSC, then ensure black switch on met panels is set to Niagara Mohawk "B" position.
2. Ensure power to computer, monitor, and printer.
3. Select the "Login" icon from the EDAMS icons.
4. Select "Continue" at the plant picture screen.
5. For the CR, TSC or EOF select "Direct Connect to Met Data". For SAS or simulator, select "Automatic Dial-in to Met Data".
6. When prompted, following login, select "Ok".
7. From the EDAMS icons select "Emergency Met Report".
8. Select "Continue" at the plant picture screen.
9. Select "James A. FitzPatrick" and "Both", then select "Ok".
10. If a stack release is occurring, or projected, then utilize Elevated data.
11. If a release from any source other than the stack is occurring, or projected, then utilize Ground data.
12. If no release is occurring, or projected, then utilize Elevated data.
13. If no data is available from the EDAMS computer, then utilize EAP-42 to obtain meteorological data from other sources.

**NOTE:** Step 14 - 17 are NOT required from the Control Room.

14. When met data access is no longer required perform the following:
  - a. IF the Emergency Met Report screen is open, THEN select done.
  - b. From the EDAMS icons select "Logoff".
  - c. Follow prompts to complete the logoff process.

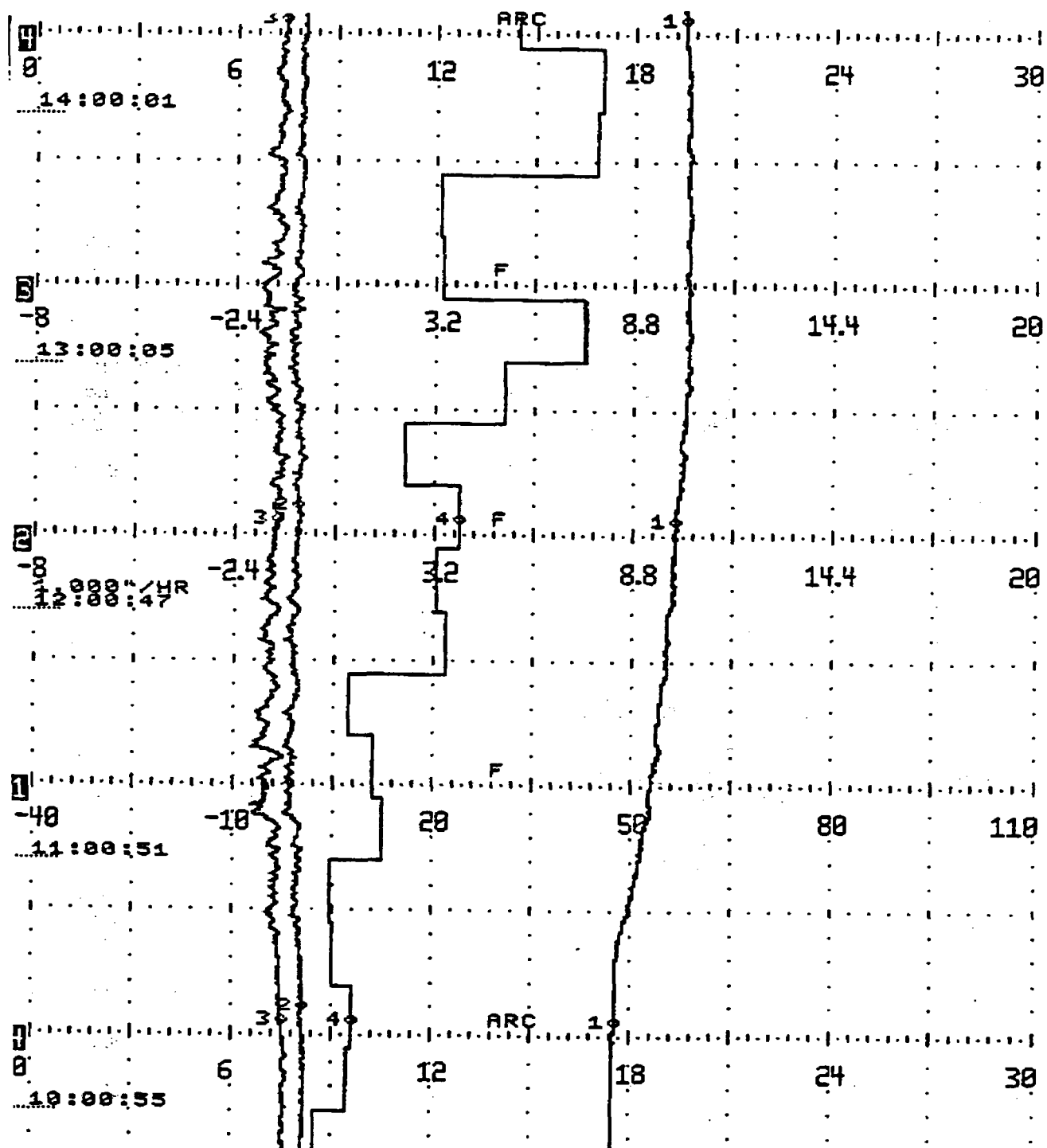
ATTACHMENT 4  
ANALOG WIND SPEED AND DIRECTION  
RECORDERS D, G AND J

Page 1 of 1



ATTACHMENT 5  
RECORDER "K"

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ATTACHMENT 6  
CLASSIFICATION OF ATMOSPHERIC STABILITY

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CLASSIFICATION OF ATMOSPHERIC STABILITY BY THE VERTICAL TEMPERATURE DIFFERENCE  
 AND BY THE STANDARD DEVIATION OF THE HORIZONTAL WIND DIRECTION TYPING SCHEMES

STABILITY CLASSIFICATION	PASQUILL CATEGORIES	Temperature Change with height °C/100m*	Sigma Theta °θ degrees	°θ degrees Median Value
Extremely unstable	A	$\Delta T/\Delta Z \leq -1.9$	$\sigma\theta \geq 22.5$	25.0
Moderately unstable	B	$-1.9 < \Delta T/\Delta Z \leq -1.7$	$22.5 > \sigma\theta \geq 17.5$	20.0
Slightly unstable	C	$-1.7 < \Delta T/\Delta Z \leq -1.5$	$17.5 > \sigma\theta \geq 12.5$	15.0
Neutral	D	$-1.5 < \Delta T/\Delta Z \leq -0.5$	$12.5 > \sigma\theta \geq 7.5$	10.0
Slightly stable	E	$-0.5 < \Delta T/\Delta Z \leq 1.5$	$7.5 > \sigma\theta \geq 3.8$	5.0
Moderately stable	F	$1.5 < \Delta T/\Delta Z \leq 4.0$	$3.8 > \sigma\theta \geq 2.1$	2.5
Extremely stable	G	$4.0 < \Delta T/\Delta Z$	$2.1 > \sigma\theta$	1.7

STABILITY CLASSIFICATION	PASQUILL CATEGORIES	Delta T 100' Temperature Change with height °F/70 Feet**	Delta T 200' Temperature Change with height °F/170 Feet †
Extremely unstable	A	$\Delta T/\Delta Z \leq -0.73$	$\Delta T/\Delta Z \leq -1.77$
Moderately unstable	B	$-0.73 < \Delta T/\Delta Z \leq -0.65$	$-1.77 < \Delta T/\Delta Z \leq -1.59$
Slightly unstable	C	$-0.65 < \Delta T/\Delta Z \leq -0.58$	$-1.59 < \Delta T/\Delta Z \leq -1.40$
Neutral	D	$-0.58 < \Delta T/\Delta Z \leq -0.19$	$-1.40 < \Delta T/\Delta Z \leq -0.47$
Slightly stable	E	$-0.19 < \Delta T/\Delta Z \leq 0.58$	$-0.47 < \Delta T/\Delta Z \leq 1.40$
Moderately stable	F	$0.58 < \Delta T/\Delta Z \leq 1.53$	$1.40 < \Delta T/\Delta Z \leq 3.73$
Extremely stable	G	$1.53 < \Delta T/\Delta Z$	$3.73 < \Delta T/\Delta Z$

ATMOSPHERIC  
STABILITY

CHARACTERIZATION

- A MID-AFTERNOON ONLY, WITH CLEAR SKIES OR SKIES WITH VERY FEW THIN CLOUDS; LATE SPRING TO EARLY FALL, WINDS USUALLY ARE BELOW 6 MILES PER HOUR.
- B LATE MORNING TO MID-AFTERNOON ONLY, WITH CLEAR OR PARTLY CLOUDY SKIES; MID-SPRING TO MID-FALL, WINDS ARE USUALLY BELOW 9 MILES PER HOUR.
- C LATE MORNING TO LATE AFTERNOON ONLY, WITH PARTLY CLOUDY SKIES; SPRING THROUGH FALL, WINDS ARE USUALLY BELOW 11 MILES PER HOUR.
- D ALL DAYTIME, WITH OVERCAST OR PARTLY CLOUDY SKIES OR EARLY MORNING AND LATE AFTERNOON WITH CLEAR OR PARTLY CLOUDY SKIES, ALL NIGHT TIME WITH OVERCAST SKIES OR PARTLY CLOUDY, YEAR AROUND, WINDS ARE MODERATE TO HIGH (GREATER THAN 6 MILES PER HOUR).
- E NIGHT TIME ONLY, WITH THIN OVERCAST OR PARTLY CLOUDY SKIES ALL YEAR AROUND, WINDS LESS THAN 10 MILES PER HOUR.
- F NIGHT TIME ONLY, WITH CLEAR TO PARTLY CLOUDY SKIES, ALL YEAR AROUND, WINDS LESS THAN 7 MILES PER HOUR.
- G NIGHT TIME ONLY, WITH CLEAR SKIES OR VERY FEW THIN CLOUDS, ALL YEAR AROUND, WINDS LESS THAN 5 MILES PER HOUR.

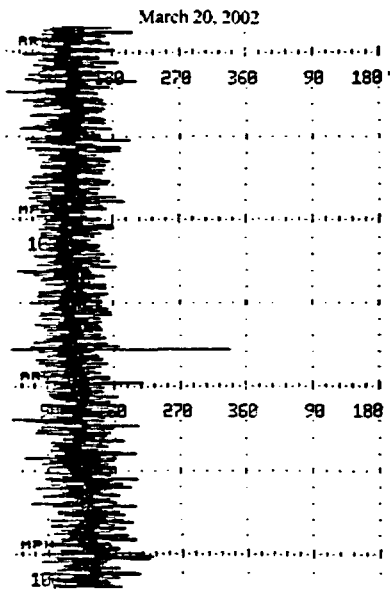
\* PER NRC REGULATORY GUIDE 1.123

\*\* ADJUSTED TO CORRESPOND TO THE  $\Delta T$  MEASURED BETWEEN THE 30-FOOT AND 100-FOOT LEVELS.† ADJUSTED TO CORRESPOND TO THE  $\Delta T$  MEASURED BETWEEN THE 30-FOOT AND 200-FOOT LEVELS.



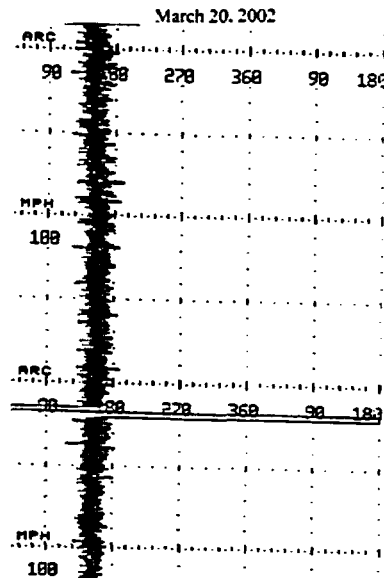
**PASQUILL: A  
VERY UNSTABLE**

BROOKHAVEN CLASS 1



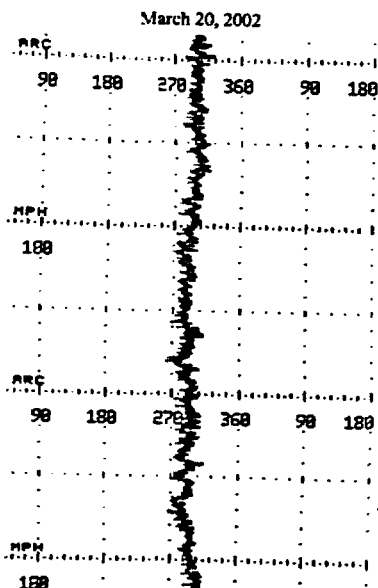
**PASQUILL: B,C  
UNSTABLE**

BROOKHAVEN CLASS 2



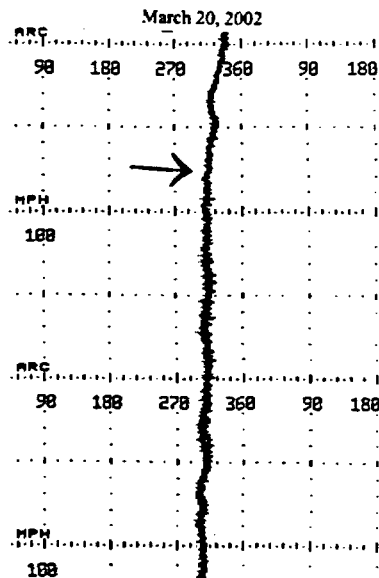
**PASQUILL: D,E  
NEUTRAL**

BROOKHAVEN CLASS 3



**PASQUILL: F, G  
STABLE**

BROOKHAVEN CLASS 4



**NOTE:**

Recorders D, G, J:

Wind speed increments----(trace 1, left side) Each dot (·) = 2 units, Each vertical line (|) = 4 units  
Wind direction increment---(trace 2, right side) Each dot (·) = 9 units, Each vertical line (|) = 18 units

Recorder K:

Air temperature increment---(trace 1) Each dot (·) = 1.5 units, Each vertical line (|) = 3 units  
Delta T increment---(Trace 2 and 3) Each dot (·) = 0.28 units, Each vertical line (|) = 0.56 units  
Sigma Theta <sup>50</sup> increment---(Trace 4) Each dot (·) = 0.3 units, Each vertical line (|) = 0.6 units