17-JUN-03

#### DISTRIBUTION CONTROL LIST



CC NAME NAME DEPT LOCATION 2 EP/TRAINING ADMINISTRATOR TRAINING (ALL EP'S) #48 2EP/TRAINING ADMINISTRATOR TRAINING (ALL EP'S)#483RES DEPARTMENT MANAGERRES (UNIT 3/IPEC ONLY)45-4-A4REFERENCE LIBRARYREC/TRN (UNT 3/IPEC ONLY)BLDG/179JOINT NEWS CENTEREMER PLN (ALL EP'S)EOF10SHIFT MGR. (LUB-001-GEN)OPS (UNIT 3/IPEC ONLY)IP311CONTROL ROOM & MASTEROPS (3PT-D001/6 (U3/IPEC)IP3 (ONLY)14EOFE-PLAN (ALL EP'S)EOF16DEOE (A CROSTEAN (ALL EPIS))EDAN (RODIS CONLY)HDD 12D 16 AEOF/A.GROSJEAN(ALL EP'S) E-PLAN (EOP'S ONLY) WPO-12D 16AEOF/A.GROSJEAN (ALL EP'S)E-PLAN (EOP'S ONLY)WPO-12D19NUC ENGINEERING LIBRARYDOC (UNIT 3/IPEC ONLY)WPO/7A21TSCRECORDS45-3-F22RESIDENT INSPECTORUS NRC (UNIT 3/IPEC ONLY)45-2-B23SILK DAVIDNRC (ALL EP'S)OFFSITE24SILK DAVIDNRC (ALL EP'S)OFFSITE25DOCUMENT CONTROL DESKNRC (ALL EP'S)OFFSITE28AVRAKOTOS NJ A (UNIT 3/IPEC ONLY)OFFSITE29E-PLAN STAFFE-PLAN (ALL EP'S)EOF30E-PLAN STAFFE-PLAN (ALL EP'S)EOF31BAPANSKI J (VOLUME I ONLY)STEMERGMEMT 31 BARANSKI J (VOLUME I ONLY) ST. EMERG. MGMT. OFFICE OFFSITE 32 SUTTON A - (VOLUME I ONLY) DISASTER & EMERGENCYWESTCHESTR33 LONGO N (VOLUME I ONLY)EMERGENCY SERVICESROCKLAND 34 GREENE D (VOLUME I ONLY) DISASTER & CIVIL DEFENSE ORANGE 35 RAMPOLLA M (VOLUME I ONLY) OFFICE OF EMERG MANAGE PUTNAM TRAIN (UNIT 3/IPEC ONLY) 48-2-A 41 SIMULATOR 107 QA MANAGERQA (UNIT 3/IPEC)TRL #2A319 C.STELLATO (NRQ-OPS TRN)NRQ (UNIT 3/IPEC ONLY)#48354 L.GRANT (LRQ-OPS/TRAIN)LRQ (UNIT 3/IPEC ONLY)#48 354 L.GRANT (LRQ-OPS/TRAIN)LRQ (UNIT 3/IPEC ONLY)#48376 E-PLAN STAFFE-PLAN (ALL EP'S)EOF424 J.CHIUSANO (OPS INSTR)(UNIT 3/IPEC ONLY)#48510 L.GRANT (LRQ-OPS/TRAIN)LRQ (UNIT 3/IPEC ONLY)#48511 L.GRANT (LRQ-OPS/TRAIN)LRQ (UNIT 3/IPEC ONLY)#48512 C.STELLATO (NRQ-OPS TRN)NRQ (UNIT 3/IPEC ONLY)#48513 C.STELLATO (NRQ-OPS TRN)NRQ (UNIT 3/IPEC ONLY)#48517 PLANT MANAGER'S OFFICENRQ (UNIT 3/IPEC ONLY)#48517 PLANT MANAGER'S OFFICEADMIN/(UNIT 2/IPEC ONLY)#48517 SIMULATORUNIT 2 (UNIT 2/IPEC ONLY)#48518 DOCUMENT CONTROLUNIT 2 (UNIT 2/IPEC ONLY)#20521 SIMULATORTRAIN (UNIT 2/IPEC ONLY)IP2522 NRC RESIDENTUS NRC (UNIT 2/IPEC ONLY)IP2523 ROBERT VOGLE (UNIT 2)TRAIN/LIB (ALL EP'S)TODI524 JOHN MCCANN (UNIT 2)NUC SAFETY/LIC (ALL EP'S)IP2 TODDVILLE

Entergy	IPEC SITE MANAGEMENT MANUAL	QUALITY RELATED IP-SMM-AD-103 Administrative Procedure		Revision 0		
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ATTACHMENT 10.1

SMM CONTROLLED DOCUMENT TRANSMITTAL FORM

#### SITE MANAGEMENT MANUAL CONTROLLED DOCUMENT TRANSMITTAL FORM - PROCEDURES Page 1 of 1

Entergy			TRANS	CONTROLLED DOC MITTAL FORM - PRO	UMENT DCEDURES	
TO: DISTRIBUTION DATE: 7/2/2003 TRANSMITTAL NO: 28305 (Circle one)						
FROM: IPEC DOCUMENT CONTROL: EEC or IP2 53'EL PHONE NUMBER: 271-7057						
The Document(s) receipt, incorporat document(s). Sign	The Document(s) identified below are forwarded for use. In accordance with IP-SMM-AD-103, please review to verify receipt, incorporate the document(s) into your controlled document file, properly disposition superseded, void, or inactive document(s). Sign and return the receipt acknowledgement below within fifteen (15) working days.					
AFFECTED DOC	UMENT:	EMERGENC	Y PLANNING PROC	EDURE:	IPEC	
DOC #	REV #	חד	LE	INSTR	RUCTIONS	
NOTE: REPLACE CURRENT INDEX WITH ATTACHED REVISED INDEX. THE FOLLOWING PROCEDURE HAS BEEN REVISED. REPLACE CURRENT COPY WITH ATTACHED REVISED COPY: IP-EP-410 REV.2						
RECEIPT OF THE ABOVE LISTED DOCUMENT(S) IS HEREBY ACKNOWLEDGED. I CERTIFY THAT ALL SUPERSEDED, VOID, OR INACTIVE COPIES OF THE ABOVE LISTED DOCUMENT(S) IN MY POSSESSION HAVE BEEN REMOVED FROM USE AND ALL UPDATES HAVE BEEN PERFORMED IN ACCORDANCE WITH EFFECTIVE DATE(S) (IF APPLICABLE) AS SHOWN ON THE DOCUMENT(S).						
NAME (PRIN	<b>П</b> )	SIGNATURE	DATE	CC#	25	

TRANS# 28305

cc 15

TO: Nuclear Regulatory Commission 🗲

FROM: IPEC Emergency Planning

SUBJECT: Emergency Planning Document Update

Date: 06/06/03

Please update your controlled copy of the documents listed below as specified with the copy(s) attached.

Document #	Document Name	New Rev. #/ Date	Old Rev. #/ Date	Instructions
Unit 2	Emergency Plan Implementing Procedures			
TOC	Emergency Plan Implementing Procedures	6/06/03	5/05/03	Remove and Replace
IP-EP-410	Protective Action Recommendations	Rev2 6/06/03	Rev1 3/06/03	Remove and Replace

# Indian Point Energy Center Emergency Plan Implementing Procedures Table of Contents

Procedure No.	Procedure Title	Rev. No.	Effective Date
IP-EP-115	Emergency Plan Forms	3	05/19/03
IP-EP-130	Emergency Notifications and Mobilization		05/05/03
IP-EP-250	Emergency Operations Facility		03/06/03
IP-EP-251	Alternate Emergency Operations Facility	1	03/06/03
IP-EP-255	Emergency Operations Facility Management and Liaisons	N/A	VOIDED
IP-EP-260	Joint News Center	0	03/06/03
IP-EP-310	Dose Assessment	1	03/06/03
IP-EP-410	Protective Action Recommendations	2	06/06/03
IP-EP-510	Meteorological, Radiological & Plant Data Acquisition System	1	03/06/03
IP-EP-520	Modular Emergency Assessment & Notification System (MEANS)	1	03/06/03
IP-EP-610	Emergency Termination and Recovery	1	03/06/03
IP-EP-620	Estimating Total Population Exposure	1	03/06/03

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	PROCEDURES	REFERENCE USE	Page	<u>1</u>	of	<u>11</u>



# **Protective Action Recommendations**

Prepared by:

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Steve Hook Print Name

Approval:

Frank Inzirillo

Signature Lell\_ c/uloz Dull\_ c/uloz Date 0 Signature

Effective Date: \_6/6/03

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## **PROTECTIVE ACTION RECOMMENDATIONS**

**REFERENCE USE** 

## 1.0 PURPOSE

To prescribe the responsibilities and methods for determining recommended protective actions for New York state and County authorities.

## 2.0 <u>REFERENCES</u>

EPA Protective Action Guidelines

## 3.0 **DEFINITIONS**

Protective Action Recommendations (PARs) – Specific recommendations made by the Emergency Director to the local authorities in accordance with Emergency Plan procedures based on Protection Action Guidelines.

## 4.0 **RESPONSIBILITIES**

- 4.1 The Shift Manager is responsible for evaluating accident conditions, classifying the accident, and recommending protective actions to offsite authorities during the initial phases of the accident. The Emergency Director assumes these responsibilities when he takes control of the emergency response from the Shift Manager. The Offsite Radiological Manager will assist the Emergency Director with protective action recommendations.
- 4.2 The decision to initiate any protective actions is solely the responsibility of the local authorities.

## 5.0 DETAILS

5.1 NUE, Alert, Site Area Emergency

Recommend no protective actions be taken.

- 5.2 General Emergency
  - 5.2.1 The initial protective action recommendation should be made within 15 minutes of the GENERAL EMERGENCY declaration.
  - 5.2.2 Protective Action Recommendations (PARs) shall be made in accordance with Attachment 9.1. Sectors / ERPA's are identified on Attachment 9.2.
  - 5.2.3 The initial PAR shall be made in the first <u>GENERAL EMERGENCY</u> notification to the State/Counties. All subsequent, Part I notifications shall include the latest PAR.
  - 5.2.4 Re-evaluate the PARs based on the following:
    - 5.2.4.1 Changes in Wind Direction

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- 5.2.4.2 Dose Assessment (When release duration is NOT able to be estimated, use four hours as a default value),
- 5.2.4.3 Field data,
- 5.2.4.4 EPA PAGs Attachment 9.3,
- 5.2.5 As protective action recommendations change, ensure appropriate steps are taken to protect the onsite population.
- 5.2.6 IF dose projections indicate a EPA PAG will be exceeded beyond 10 miles THEN send field teams to confirm projections and discuss possible protective actions with offsite officials if projections prove possible.

## 6.0 INTERFACES

- 6.1 Evacuation Travel Time Estimates
- 6.2 IP-EP-310, Dose Assessment
- 6.3 State of New York KI Policy Paper

## 7.0 <u>RECORDS</u>

NONE

## 8.0 REQUIREMENTS AND COMMITMENT CROSS-REFERENCE

NONE

## 9.0 ATTACHMENTS

- 9.1 Flowchart for General Emergency Protective Action Decisions
- 9.2 Conversion of Sector/Zones to ERPAs
- 9.3 EPA Protective Action Guidelines
- 9.4 Overlay Selection Flow Chart
- 9.5 Basis for ERPA Selection in PAR Determination



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### Attachment 9.2

**REFERENCE USE** 

## **CONVERSION OF SECTOR/ZONES TO ERPAS – 2-5 Miles Downwind**

Sheet 1 of 2

TABLE 1 - 0-2 MILE RADIUS - Evacuate all listed ERPAs including the river ERPAs.

1, 2, 3, 4, 7, 29, 30, 38, 39, 42, 43, 44, 45, 46

## TABLE IIA - 2-5 MILES DOWNWIND for Up-Valley Plumes

Up-Valley Plumes (wind speed < 4 m/sec and wind direction from 102°-209°)					
Pasquil Stability Categories	ERPAs affected				
~					

А, В	8, 9, 16, 18, 26, 49	
C, D, E, F, G	8, 9, 16, 18, 26,	

## TABLE IIB - 2-5 MILES DOWNWIND for Down-Valley Plumes

Down-Valley Plumes (wind speed < 4 m/sec and wind direction from 340°-101°)

Pasquill Stability Categories	ERPAs affected	
A, B	5, 6, 31, 47, 48, 49	
C, D, E, F, G	5, 6, 31, 47, 48, 49	

## TABLE IIC - 2-5 MILES DOWNWIND for Cross-Valley Plumes

<b>Cross-Valley</b> (wind speed $\geq$ 4 m/sec OR wind direction from 210°-339°)				
Wind Direct From (deg)	Center Sector No	Pasquil Stability Categories A & B ERPAs affected Pasquil Stability Categor ERPAs affected		
169 - 190	1 N	8, 9, 16, 18, 24,26, 40	8, 16, 18, 26	
191 - 213	2 NNE	8, 9, 16, 18, 26, 49	8, 9, 16, 18	
214 - 235	3 NE	8, 9, 16, 18, 49	8, 9, 16, 18, 49	
236 - 258	4 ENE	5, 8, 9, 16, 18, 48, 49	8, 9, 49	
259 - 280	5 E	5, 6, 8, 9, 47, 48, 49	5, 8, 9, 47, 48, 49	
281 - 303	6 ESE	5, 6, 8, 9, 47, 48, 49	5, 6, 9, 47, 48, 49	
304 - 325	7 SE	5, 6, 9, 31, 47, 48, 49	5, 6, 47, 48, 49	
326 - 348	8 SSE	5, 6, 31, 47, 48, 49	5, 6, 31, 47, 48, 49	
349 - 010	9 S	5, 6, 31, 47, 48, 49	6, 31, 47, 48	
011 - 033	10 SSW	6, 31, 40, 47, 48	31	
034 - 055	11 SW	31, 40	31, 40	
056 - 078	12 WSW	31, 40	31, 40	
079 - 100	13 W	24, 26, 31, 40	40	
101 - 123	14 WNW	16, 24, 26, 40	24, 26, 40	
124 - 145	15 NW	8, 16, 24, 26, 40	16, 24, 26, 40	
146 - 168	16 NNW	8, 16, 18, 24, 26, 40	8, 16, 24, 26, 40	

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#### Attachment 9.2

## **CONVERSION OF SECTOR/ZONES TO ERPAS – 5-10 Miles Downwind**

Sheet 2 of 2

TABLE I - 0-5 MILE RADIUS - Evacuate all listed ERPAs including the river ERPAs

1, 2, 3, 4, 5, 6, 7, 8, 9, 16, 18, 24, 26, 29, 30, 31, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 49

#### TABLE IIA - 5-10 MILES DOWNWIND for Up-Valley Plumes

**Up-Valley Plumes** (wind speed < 4 m/sec and wind direction from 102°-209°)

Pasquil Stability Categories	ERPAs
A, B	10, 11, 12, 13, 14, 17, 19, 20, 23, 25
C, D, E, F, G	10, 11, 12, 17, 19, 20, 23, 25

#### TABLE IIB - 5-10 MILES DOWNWIND for Down-Valley Plumes

**Down-Valley Plumes** (wind speed < 4 m/sec and wind direction from 340°-101°)

Pasquil Stability Categories	ERPAs affected
A, B	12, 21, 22, 32, 33, 34, 35, 36, 37, 41, 50, 51
C, D, E, F, G	12, 21, 22, 32, 33, 34, 35, 36, 37, 50, 51

#### TABLE IIC - 5-10 MILES DOWNWIND for Cross-Valley Plumes

**Cross-Valley** (wind speed  $\ge 4$  m/sec OR wind direction from 210°-339°)

Center Sector No	Pasquil Stability Categories A & B ERPAs affected	Pasquil Stability Categories C-G ERPAs affected
1 N	10, 11, 17, 19, 20, 23, 25, 27	17, 19, 23, 25
2 NNE	10, 11, 12, 13, 14, 17, 19, 20, 23, 25	10, 11, 17, 19, 20, 23
3 NE	10,11,12,13,14,15,17,19,20,23	10,11,12,13,14,17,19, 20
4 ENE	10,11,12,13,14,15,17,19,20,21,50	10,11,12,13,14,15,19,20
5 E	10,11,12,13,14,15,19,20,21,22,50,51	10,11,12,13,14,15, 20,21,50
6 ESE	10,11,12,13,14,15,20,21,22,32,50,51	11,12,13,14,15,21,22,50,51
7 SE	11,12,13,14,15,21,22,32,33,34,35,50,51	12,13,21,22,32,50,51
8 SSE	12,13,21,22,32,33,34,35,36,37,50,51	12,21,22,32,33,34,35,50,51
9 S	12,21,22,32,33,34,35,36,37,41,50,51	22,32,33,34,35,36, 37,51
10 SSW	22,32,33,34,35,36,37,41,51	32,33,34,35,36,37,41
11 SW	28,32,33,34,35,36,37,41	34,35,36,37,41
12 WSW	27,28,34,35,36,37,41	28,34,36,37,41
13 W	25,27,28,34,36,37,41	27,28,41
14 WNW	25,27,28,41	25,27,28
15 NW	17,23,25,27,28	25,27,28
16 NNW	17,19,23,25,27,28	17,23,25,27
	Center Sector No 1 N 2 NNE 3 NE 4 ENE 5 E 6 ESE 7 SE 8 SSE 9 S 10 SSW 11 SW 12 WSW 13 W 13 W 14 WNW 15 NW 16 NNW	Center Sector NoPasquil Stability Categories A & B ERPAs affected1 N10, 11, 17, 19, 20, 23, 25, 272 NNE10, 11, 12, 13, 14, 17, 19, 20, 23, 253 NE10, 11, 12, 13, 14, 15, 17, 19, 20, 23, 253 NE10, 11, 12, 13, 14, 15, 17, 19, 20, 23, 254 ENE10, 11, 12, 13, 14, 15, 17, 19, 20, 21, 205 E10, 11, 12, 13, 14, 15, 19, 20, 21, 22, 50, 516 ESE10, 11, 12, 13, 14, 15, 20, 21, 22, 32, 50, 517 SE11, 12, 13, 14, 15, 21, 22, 32, 33, 34, 35, 50, 518 SSE12, 13, 21, 22, 32, 33, 34, 35, 36, 37, 41, 50, 519 S12, 21, 22, 32, 33, 34, 35, 36, 37, 41, 50, 5110 SSW22, 32, 33, 34, 35, 36, 37, 41, 5111 SW28, 32, 33, 34, 35, 36, 37, 4112 WSW27, 28, 34, 35, 36, 37, 4113 W25, 27, 28, 4115 NW17, 23, 25, 27, 2816 NNW17, 19, 23, 25, 27, 28



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Attachment 9.3

### **EPA PROTECTIVE ACTION GUIDELINES**

Sheet 1 of 1

Recommended protective actions to reduce whole body and thyroid dose from exposure to a gaseous plume.

PROJECTED DOSE (REM) TO THE POPULATION		RECOMMENDED ACTIONS (a)	COMMENTS
Whole Body (TEDE)	< 1	No planned actions. (b) State may issue an advisory to	Previously recommended protective actions may be
Thyroid (TODE)	<5	seek shelter and await further instructions. Monitor environmental radiation levels	reconsidered or terminated.
Whole Body (TEDE)	≥1	Evacuate unless constraints make it impractical; then shelter. Monitor environmental radiation levels.	If constraints exist, special consideration should be given for evacuation of children and
Thyroid (TODE)	≥5	Control access.	pregnant women.

GUIDANCE ON DOSE LIMITS FOR WORKERS PERFORMING EMERGENCY SERVICES (REM)

Whole Body (TEDE): 10	Protecting valuable property	Lower dose not practicable.
25	Lifesaving or protection of large populations	Lower dose not practicable.
> 25	Lifesaving or protection of large population	Only on a voluntary basis to persons fully aware of the risks involved.

- TEDE- Total Effective Dose Equivalent: Sum of external effective dose equivalent and committed effective dose equivalent to nonpregnant adults from exposure and intake during an emergency situation. Workers performing services during emergencies should limit dose to the lens of the eve to three times the listed value and doses to any organ (including skin and body extremities) to ten times the listed value.
- TODE- Total Organ Dose Equivalent: Sum of external effective dose equivalent and committed dose equivalent (to the Thyroid).
- These actions are recommended for planning purposes. Protective action decisions at the time of the (a) incident must take existing conditions into consideration.
- (b) At the time of the incident, officials may implement low-impact protective actions in keeping with the principle of maintaining radiation exposures as low as reasonably achievable (ALARA)



- Plant Orientation Point
  - a. Using down valley overlay (Blue) align horizontal axis on 90° 270° line with plume extending south.
  - b. Using up valley overlay (Yellow) align horizontal axis on 90° 270° line with plume extending north.

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Attachment 9.5

## **Basis for ERPA Selection in PAR Determination**

Sheet 1 of 2

The Emergency Response Planning Areas (ERPAs) provided in the Protective Action Recommendations (PARs) in this procedure are based on the following determinations:

The River ERPAs will always be included in each and every PAR issued by IPEC. The river is treated as one ERPA by the offsite authorities and is considered for closure early in a declared emergency at IPEC. These ERPAs are 42, 43, 44, 45, and 46.

When the conditions support Up-Valley Plumes (wind speed < 4 m/sec and wind direction from  $102^{\circ}-209^{\circ}$ ) and either Pasquil Category A or B is in effect, the appropriate overlay was placed on the map and the affected Sectors were determined. (Affected Sectors are any Sector that the Isopleth Lines touch beyond 2 miles). Affected ERPAs were determined to be those that have any portion within the affected Sector. This was determined to be Sectors 16, 1, 2, 3 and 4.

When the conditions support **Up-Valley Plumes** (wind speed < 4 m/sec and wind direction from 102°-209°) and either **Pasquil Category C, D, E, F or G** is in effect, the appropriate overlay was placed on the map and the affected Sectors were determined. (Affected Sectors are any Sector that the Isopleth Lines touch beyond 2 miles). Affected ERPAs were determined to be those that have any portion within the affected Sector. This was determined to be Sectors 16, 1, 2 and 3.

When the conditions support **Down-Valley Plumes** (wind speed < 4 m/sec and wind direction from  $340^{\circ}$ - $101^{\circ}$ ) and either **Pasquil Category A or B** is in effect, the appropriate overlay was placed on the map and the affected Sectors were determined. (Affected Sectors are any Sector that the Isoplet h Lines touch beyond 2 miles). Affected ERPAs were determined to be those that have any portion within the affected Sector. This was determined to be Sectors 7,8, 9, 10 and 11.

When the conditions support **Down-Valley Plumes** (wind speed < 4 m/sec and wind direction from  $340^{\circ}$ - $101^{\circ}$ ) and either **Pasquil Category C, D, E, F or G** is in effect, the appropriate overlay was placed on the map and the affected Sectors were determined. (Affected Sectors are any Sector that the Isopleth Lines touch beyond 2 miles). Affected ERPAs were determined to be those that have any portion within the affected Sector. This was determined to be Sectors 7,8, 9 and 10.

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#### Attachment 9.5

### **Basis for ERPA Selection in PAR Determination**

Sheet 2 of 2

When the conditions support **Cross-Valley Plumes** (wind speed  $\geq$  4 m/sec OR wind direction from 210°-339°) and either **Pasquil Category A or B** is in effect, the appropriate overlay was placed on the map and the affected Sectors were determined. (Affected Sectors are any Sector that the Isopleth Lines touch beyond 2 miles). Affected ERPAs were determined to be those that have any portion within the affected Sector, but not less than three Sectors. This | was determined to be the Sector in which the Plume Centerline lays and 2 Sectors on either side of the centerline Sector.

When the conditions support **Cross-Valley Plumes** (wind speed  $\geq$  4 m/sec OR wind direction from 210°-339°) and either **Pasquil Category C, D, E, F and G** is in effect, the appropriate overlay was placed on the map and the affected Sectors were determined. (Affected Sectors are any Sector that the Isopleth Lines touch beyond 2 miles). Affected ERPAs were determined to be those that have any portion within the affected Sector, but not less than three Sectors. This was determined to be the Sector in which the Plume Centerline lays and 1 Sector on either side of the centerline Sector.