

8/17/81

LZP INDEX

PAGE 2

PROC. NO.	TITLE	REV.	REV DATE	DISKETT
ZP 530-2	DELETED	02	10/80	01
LZP 540-1	DELETED	01	10/80	01
ZP 700-2	DELETED	01	11/80	01
ZP 710-1	DELETED	02	10/80	01
LZP 810-1	DELETED	01	10/80	02
ZP 820-1	DELETED	01	10/80	02
LZP 830-1	DELETED	01	10/80	02
ZP 850-1	DELETED	01	10/80	02
LZP 860-1	DELETED	01	10/80	02
LZP 880-1	DELETED	01	11/80	02
ZP 1110-1	STATION DIRECTOR (ACTING STATION DIRECTOR) IMPLEMENTING PROCEDURE	03	8/81	02
ZP 1120-1	OPERATIONS DIRECTOR IMPLEMENTING PROCEDURE	03	11/81	02
LZP 1130-1	TECHNICAL DIRECTOR IMPLEMENTING PROC.	03	4/81	02
LZP 1140-1	MAINTENANCE DIRECTOR IMPLEMENTING PROCEDURE	01	11/80	02
ZP 1150-1	STORES DIRECTOR IMPLEMENTING PROCEDURE	01	11/80	02
LZP 1160-1	ADMINISTRATIVE DIRECTOR IMPLEMENTING PROCEDURE	02	1/82	02
LZP 1170-1	SECURITY DIRECTOR IMPLEMENTING PROCEDURE	03	1/82	02
LZP 1180-1	RAD/CHEM DIRECTOR IMPLEMENTING PROCEDURE	03	7/81	02
LZP 1180-2	RAD/CHEM DIRECTOR INITIATED ENVIRONMENTAL MONITORING ACTIVITIES	01	11/80	02
ZP 1200-1	CLASSIFICATIONS OF GSEP CONDITIONS	02	2/82	01
LZP 1200-2	CLASSIFICATION OF A NOBLE GAS RELEASE	01	5/82	02
LZP 1200-3	CLASSIFICATION OF AN IODINE RELEASE	01	2/82	01
LZP 1200-4	CLASSIFICATION OF A LIQUID RELEASE	00	7/81	01
LZP 1210-1	HAZARDOUS MATERIAL INCIDENTS REPORTING	01	10/81	01

CLASSIFICATION OF A NOBLE GAS RELEASE

A. PURPOSE

The purpose of this procedure is to aid in the initial GSEP classification of a Noble gas release by the GSEP Station Director (or Acting Station Director).

B. REFERENCES

1. GSEP Environmental Director (ED) Emergency Plan Implementing Procedures (EPIP), Procedures 4, 5, and 6.
2. Generating Stations Emergency Plan (GSEP).
3. LZP 1110-1, "Station Director (Acting Station Director) Implementing Procedure".

C. PREREQUISITES

1. None.

D. PRECAUTIONS

1. None.

E. LIMITATIONS AND ACTIONS

1. The gaseous release from the plant is from two monitored pathways, the Station Vent Stack and the Standby Gas Treatment Vent Stack. If the Standby Gas Treatment system is in operation, ensure that the responses of both the Standby Gas Treatment Vent Stack wide range gas monitor and the Station Vent Stack wide range gas monitor are used to determine the gaseous effluent release rate from the plant.
2. After classification of release, re-evaluate according to ED-4, ED-5, or ED-6.

F. PROCEDURE

1. Plant Gaseous Effluent Releases:
 - a. If the plant gaseous effluent release rate exceeds $1.3E7$ uCi/sec for 1/2 hour declare a SITE EMERGENCY.

- b. If the plant gaseous effluent release rate exceeds $1.3E8$ uCi/sec for 2 minutes declare a SITE EMERGENCY.
 - c. If for a given mean wind speed in mph the plant gaseous effluent release rate exceeds the uCi/sec value, Q , obtained from the Gaseous Effluent Release Rate vs. Mean Wind Speed (mph) Chart (Attachment A), declare a GENERAL EMERGENCY.
- 2. Implement action required in accordance with Reference 3.
 - 3. The Environs Director should re-evaluate the release using the procedures specified in Reference 1.
 - 4. Plant Gaseous Effluent Release bases.
 - a. Site Emergency 1/2 hour release rate bases.
 - 1) Release duration 1/2 hour.
 - 2) Release rate $> 1.3E7$ uCi/sec.
 - 3) Adverse meteorology.
 - b. Site Emergency 2 minute release rate bases.
 - 1) Release duration 2 minutes.
 - 2) Release rate $> 1.3E8$ uCi/sec.
 - 3) Adverse meteorology.
 - c. General Emergency release rate bases.
 - 1) Q = release rate in uCi/sec.
 - 2) U = mean wind speed in miles/hour.
 - 3) $\frac{Q \text{ uCi/sec}}{U \text{ mph}} > 4.5E7$

G. CHECKLISTS

- 1. None.

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Revision 1
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3

H. TECHNICAL SPECIFICATION REFERENCES

1. None.

Q = RELEASE RATE IN uCi/sec.

