

PLANT OPERATIONS MANUAL

Volume 05  
Section 02

05-1-02-II-3  
Revision: 10  
Date: 3-24-82

OFF NORMAL EVENT PROCEDURE

OFFSITE GASEOUS RELEASES

SAFETY RELATED

Prepared: Bell Shiff  
Reviewed: [Signature] Nuclear Plant Quality Superintendent      [Signature] Technical Review  
Reviewed: [Signature] Operations Superintendent  
Approved: [Signature] Assistant Plant Manager  
PSRC: [Signature] 3/10/82

List of Effective Pages:

Page:      Revision:

1-2      10

Title: Offsite Gaseous Releases	No.: 05-1-02-II-3	Revision: 10	Page: 1
---------------------------------	-------------------	--------------	---------

### 1.0 PURPOSE/DISCUSSION

- 1.1 The purpose of this procedure is to provide instructions in minimizing an Offsite Gaseous Release.
- 1.2 This procedure will interface with the Emergency Plan.
- 1.3 This procedure will cover the period from the discovery of effluent release rate increases, to the activation of the Emergency Plan if necessary.

### 2.0 SYMPTOMS

- 2.1 Increasing counts on the Turbine Building, Radwaste Building, or Auxiliary Building ventilation effluent monitors.
- 2.2 Excessive activity detected outside the plant by offsite environmental air monitor or routine surveys.
- 2.3 Off gas post treatment radiation monitor counts increasing or alarming.
- 2.4 Containment and drywell, off gas and radwaste, turbine, or auxiliary building ventilation release radiation monitors Hi-Hi radiation annunciators.
- 2.5 Control room ventilation intake radiation alarm or increasing readings.

### 3.0 AUTOMATIC ACTIONS

- 3.1 High radiation level of 4 mR/hr sensed by the fuel handling area ventilation monitor or 35 mR/hr sensed by the fuel pool sweep ventilation monitor will start standby gas treatment and shut the containment cooling, auxiliary building, and fuel handling areas ventilation suction and discharge valves.
- 3.2 High radiation levels of 5 mR/hr sensed by the containment ventilation monitor shuts drywell and containment purge fans, drywell cooling valves and containment cooling discharge, placing the containment system in the clean-up mode.
- 3.3 High radiation levels of  $1 \times 10^6$  cpm sensed by the radwaste building ventilation release monitor stops the radwaste building exhaust fans and associated dampers shut, and Radwaste Building Supply Fans and associated dampers shut.
- 3.4 High radiation levels of 5 mR/hr sensed at the intake of the control building ventilation system will isolate the control building ventilation system and start the control room fresh air units.

Title: Offsite Gaseous Releases	No.: 05-1-02-II-3	Revision: 10	Page: 2
---------------------------------	-------------------	--------------	---------

#### 4.0 IMMEDIATE OPERATOR ACTION

- 4.1 Verify the appropriate automatic actions have occurred. Isolate ventilation systems as necessary to minimize releases, and consider isolating the Control Room Ventilation before the high radiation setpoint is reached.
- 4.2 Notify the Shift Supervisor or Shift Superintendent of plant conditions.
- 4.3 Determine and isolate the source of the gaseous activity (i.e. valve packings, loop seals, radwaste activities, maintenance, vent or drain valves open).
- 4.4 Contact Health Physics to take radiation and airborne surveys, and a grab sample of the affected system to determine that the monitor is accurate.
- 4.5 Evacuate personnel from suspect areas of high gaseous activity.

#### 5.0 SUBSEQUENT ACTIONS

- 5.1 Proceed to implement the emergency plan as directed by the Shift Supervisor or Shift Superintendent.
- 5.2 If offsite gaseous released is from the Turbine Building Exhaust and the mechanical vacuum pumps are running, trip the mechanical vacuum pumps.
- 5.3 Reduce power or shutdown the plant if necessary to minimize the release as directed by the Shift Supervisor or Shift Superintendent.
- 5.4 If plant is to be shutdown refer to IOI 03-1-01-3, Plant Shutdown.
- 5.5 If a high airborne activity exists carry out actions of ONEP 05-1-02-II-9, High Airborne.
- 5.6 Limit access to areas of high radiation/high airborne to reduce personnel exposure.
- 5.7 To prevent the spread of airborne activity, maintain the integrity of buildings and space by verifying all outside doors or in between personnel access doors are shut and operating as designed.
- 5.8 If the source of the problem has been found and corrected, continue operation in accordance with IOI 03-1-01-2, Power Operations.
- 5.9 Refer to Radiological Effluent Technical Specification Section 3.11.2.1, Gaseous Effluents.