

**Melvin N. Browne**

*Manager, Nuclear Licensing & Operating Experience*



February 14, 2001

RC-01-0038

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Gentlemen:

Subject: VIRGIL C. SUMMER NUCLEAR STATION (VCSNS)  
DOCKET NO. 50/395  
OPERATING LICENSE NO. NPF-12  
TRANSMITTAL OF EMERGENCY PLAN PROCEDURE

In compliance with 10CFR50 Appendix E(V), South Carolina Electric & Gas Company, acting for itself and as agent for South Carolina Public Service Authority, transmits one controlled copy of EPP-014, Revision 7, Change A, "Toxic Release".

The effectiveness of the Virgil C. Summer Nuclear Station Radiation Emergency Plan is not decreased by the change to this procedure.

Should you have any questions, please contact Mrs. Donna Railey at (803) 345-4107.

Very truly yours,

  
Melvin N. Browne

DWR/MNB/dr  
Attachments

- c. (Without Attachment unless noted)
- L. A. Reyes (With 2 Attachments)
- NRC Resident Inspector
- RTS (RR 6000, O-L-99-0354)
- File (810.10-2)
- DMS (RC-01-0038)

A045

SOUTH CAROLINA ELECTRIC & GAS COMPANY

VIRGIL C. SUMMER NUCLEAR STATION

NUCLEAR OPERATIONS

NUCLEAR OPERATIONS

COPY NO. 157

EMERGENCY PLAN PROCEDURE

EPP-014

TOXIC RELEASE

REVISION 7

LC Hino  
DISCIPLINE SUPERVISOR

9/14/98  
DATE

SAH Co Burt  
APPROVAL AUTHORITY

9/16/98  
DATE

RECORD OF CHANGES

CHANGE LETTER	TYPE CHANGE	APPROVAL DATE	CANCELLATION DATE	CHANGE LETTER	TYPE CHANGE	APPROVAL DATE	CANCELLATION DATE
A	P	1-15-01					

INFORMATION USE

Procedure May Be Performed From Memory.  
User Retains Accountability For Proper Performance.

# NUCLEAR OPERATIONS

COPY NO. 157

SAP-139  
ATTACHMENT III  
PAGE 1 OF 3  
REVISION 19

## PROCEDURE DEVELOPMENT FORM - A

I. DATE: <u>12-19-00</u> PROC.# <u>EPP-014</u> REV. # <u>7</u> CHG. <u>A</u> COMM. # _____																																									
TITLE: <u>Toxic Release</u>																																									
NEW PROC _____	CHANGE <input checked="" type="checkbox"/> PERMANENT <input checked="" type="checkbox"/>																																								
REVISION _____	RESTRICTED _____ FROM _____ TO _____																																								
SAFETY RELATED _____ QUALITY RELATED _____ NON-SAFETY RELATED <input checked="" type="checkbox"/>																																									
II. DESCRIPTION: <u>Added Reference 2.16, Regulatory Guide 1.78, and section 4.9.</u>																																									
REASON FOR CHANGE: <u>To identify the most probable chemical releases that may affect Control Room habitability as described in PIP C-00-0425 Corrective Action #11</u>																																									
Originator <u>rschwartz</u> Sign/Print <u>R.J. Schwartz</u>																																									
III. WILL THIS REVISION/CHANGE/NEW PROCEDURE:																																									
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ATTACHMENTS

- ATTACHMENT I - REPORTING RELEASES FROM FACILITY
- ATTACHMENT II - EMERGENCY EQUIPMENT AND LOCATIONS

## 1.0 PURPOSE

- 1.1 This procedure provides guidelines for the protection of plant personnel in the event of a significant unplanned or planned release of toxic, hazardous or flammable materials or waste on site.
- 1.2 This procedure provides guidelines to terminate the release of toxic, hazardous, or flammable materials or waste on site.

## 2.0 REFERENCES

- 2.1 Virgil C. Summer Nuclear Station Radiation Emergency Plan.
- 2.2 Virgil C. Summer Nuclear Station Environmental Report, Section 7.3.3.
- 2.3 NUREG-0654, Criteria for Preparation & Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
- 2.4 Hazardous Waste Contingency/Emergency Response Plan.
- 2.5 29CFR1910.120, Hazardous Waste Operations and Emergency Response.
- 2.6 Nuclear Training Manual, Sections III.6 and III.11.
- 2.7 Emergency Planning Telephone Directory.
- 2.8 EPP-001, Activation and Implementation of Emergency Plan.
- 2.9 EPP-012, Onsite Personnel Accountability and Evacuation.
- 2.10 EPP-103, Emergency Equipment Checklist.
- 2.11 ISP-020, Use of HazMat Personnel Protective Equipment.
- 2.12 CP-630, Hazardous Waste Management.
- 2.13 HazMat Risk Assessment.
- 2.14 South Carolina Hazardous Waste Management Regulations, R.61-79.124 - R.61-79.270.
- 2.15 SAP-1131, Electronic Processing of Condition Evaluation Reports.
- 2.16 Regulatory Guide 1.78, Assumptions for Evaluating the Habitability of a Nuclear Power Plant Control Room During a Postulated Hazardous Chemical Release.

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### **3.0 DEFINITIONS AND ABBREVIATIONS**

#### **3.1 Definitions**

- 3.1.1** Qualified - In this procedure, "qualified" denotes those personnel who have received appropriate training in accordance with the Hazardous Waste Contingency/Emergency Response Plan.
- 3.1.2** HazMat Responder, Level A - Personnel who have received 24 hours of initial training on HazMat response in accordance with the Nuclear Training Manual and are thereby qualified to take offensive measures during a HazMat Emergency.
- 3.1.4** HazMat Responder, Level B - Personnel who have received 8 hours of initial training on HazMat response in accordance with the Nuclear Training Manual, and are thereby qualified to take defensive measures during a HazMat Emergency.

#### **3.2 Abbreviations**

- 3.2.1** HazMat - Hazardous Material/Waste
- 3.2.2** SCDHEC - South Carolina Department of Health & Environment Control
- 3.2.3** MSDS - Material Safety Data Sheet
- 3.2.4** DOT - Department of Transportation
- 3.2.5** EPA - Environmental Protection Agency
- 3.2.6** NFPA - National Fire Protection Association

### **4.0 CONDITIONS AND PREREQUISITES**

- 4.1** An emergency response exists when there is an uncontrolled release of a hazardous material or waste that can not be controlled by employees in the immediate release area. If personnel from outside the immediate release area are needed to handle an emergency response, only qualified HazMat Responders may respond.
- 4.2** The HazMat Risk Assessment is a document that provides guidance on the hazards which are in areas and facilities of the plant site, individual chemical information, and Emergency Response guidelines. The Manager, Chemistry Services, is responsible for maintaining the HazMat Risk Assessment.

- 4.3 HazMat Emergency Response Teams dispatched within the Protected Area should be made up of, as a minimum, the Shift Chemist (Team Leader) and two (2) Fire Brigade personnel. The Shift Chemist must be trained as a Level A responder; however, as Team Leader, is not required to be qualified to wear a respirator or the protective suits. If the Team Leader is not qualified to wear a respirator or protective suits he/she cannot enter the immediate release area and can only direct activities from outside the immediate release area. The Team will be under direct or indirect supervision of the IED/ED.
- 4.4 HazMat Emergency Response efforts outside the Protected Area will be the responsibility of the local Volunteer Fire Departments, with support from qualified plant staff, as long as shift manning requirements are maintained.
- 4.5 Refer to EPP-001, Activation and Implementation of the Emergency Plan, and declare the appropriate emergency classification when the Initiating Conditions are met.
- 4.6 If the release is of sufficient magnitude that public health and safety or the environment could be adversely affected, notification of local, State and federal agencies must be accomplished in accordance with Attachment I.
- 4.7 If there is fire involved with hazardous materials or waste, the Fire Brigade will respond. Non-Fire Brigade qualified HazMat Emergency Response personnel may provide technical advice to the Fire Brigade Leader, but will not participate in fire emergencies.
- 4.8 The SS/CRS must note in the Station Log Book, the time, date, and details of any incident which requires implementing this procedure.
- 4.9 Reference 2.16 requires the most probable chemical release that could effect Control Room habitability be identified. Evaluation shows Ammonium Hydroxide and Chlorine gas, both stored in the vicinity of the Water Treatment Building, are the most probable chemical releases that could effect Control Room habitability. The HazMat Risk Assessment lists quantities and response guidelines for release of these chemicals.

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## 5.0 PROCEDURE

### NOTE 5.1

If a toxic or hazardous gas release has occurred onsite, the SS should evaluate placing Control Room Emergency Ventilation in service.

- 5.1 For releases, fires, or explosions of hazardous materials or waste inside the Protected Area, the SS/CRS shall:
  - 5.1.1 Announce the emergency condition to all plant personnel over the plant paging system. Dispatch the HazMat Emergency Response Team to a control location (Fire Brigade Locker, HazMat Trailer). The Team will then respond to the scene using the buddy system.

**Attention all personnel: There has been a hazardous material  
fire/explosion/release (state specific location)**

**All personnel evacuate the area and assemble at (state specific location)**

**Hazmat Emergency Response Team respond and assemble at  
(state specific location)**

**Repeat the announcement.**

- 5.1.2 Implement EPP-012, Onsite Personnel Accountability and Evacuation, if necessary.**
- 5.1.3 Request offsite assistance from the Fairfield County Dispatcher (ESSX \*42 or 635-5511), if necessary. Inform Security if offsite assistance is requested.**
- 5.1.4 Notify Security of the details of the emergency, and request evacuation assistance or crowd control at the scene.**
- 5.1.5 Using the HazMat Risk Assessment, determine the types of hazardous materials in the area and the protective measures to be taken. Also, refer to the appropriate MSDS for additional information. Inform the HazMat Emergency Response Team Leader.**
- 5.1.6 During off-normal hours, notify HazMat Emergency Response personnel. See the Emergency Planning Telephone Directory for a listing of personnel and telephone numbers.**
- 5.1.7 If any personnel comes in contact with the hazardous material, refer to the appropriate MSDS for first aid guidance.**
- 5.2 For releases, fires, or explosions of hazardous materials or wastes outside the Protected Area, the SS/CRS shall:**
  - 5.2.1 Announce the emergency condition to all plant personnel over the plant paging system.**



**Attention all personnel:**

**There has been a hazardous material fire/explosion/release  
(state specific location)**

**All personnel evacuate the area and assemble at  
(state specific location)**

- A. Sound the Fire Alarm**
- B. Repeat the announcement**

**NOTE 5.2.2**

**Do not violate shift manning requirements.**

- 5.2.2 Dispatch qualified shift personnel to the scene if manpower is available.**
- 5.2.3 If necessary, request offsite assistance from Fairfield County Dispatcher (ESSX \*42 or 635-5511). Explain the nature of the emergency.**
- 5.2.4 Notify Security of the details of the emergency and request evacuation assistance or crowd control at the scene. Inform Security of the request for offsite assistance.**
- 5.2.5 Using the HazMat Risk Assessment, determine the types of hazardous materials in the area and the protective measures to be taken. Also, refer to the appropriate MSDS for additional information. Inform the HazMat Emergency Response Team Leader and responding fire department(s).**
- 5.2.6 Notify HazMat emergency personnel listed in the Emergency Planning Telephone Directory.**
- 5.2.7 If any personnel come in contact with the hazardous material, refer to the appropriate MSDS for first aid guidance.**
- 5.3 HazMat Emergency Response Team Actions**
  - 5.3.1 Prior to entry into the area, refer to HazMat Risk Assessment for a list of hazardous chemicals that could be present. Follow the stated precautions concerning respiratory protection and protective clothing listed in ISP-020.**

- 5.3.2** The HazMat Emergency Response Team Leader should assess the situation and determine the best methods for containment and termination of the release using the following guidelines:
- A.** Maintain open communications with SS/CRS.
  - B.** Establish protective zones at the emergency scene.
  - C.** Determine if there are any contaminated or injured personnel.
  - D.** Determine the chemical or chemicals involved in the release and their hazards. Use the appropriate MSDSs, DOT Emergency Response Guidebook, NFPA Fire Protection Guide On Hazardous Materials, shipping papers, or any other references available.
  - E.** Select the appropriate personal protective equipment to respond safely to the emergency.
  - F.** Determine the location and set up decontamination area using CP-630.
  - G.** Determine the response/control methods to be used (cover storm drains, patching, plugging, neutralization, etc.).
- 5.3.3** Dispatch team member(s) to obtain necessary equipment or supplies from the HazMat Response Trailer or from individual HazMat Response equipment storage locations found in Attachment II. The trailer can be pulled to the scene, if desired. Request assistance through the SS/IED/ED.

**NOTE 5.3.4**

The HazMat Emergency Response Team Leader will obtain permission from the SS/CRS prior to operating any valves. (Chemistry personnel are permitted to operate Water Treatment System valves without SS/CRS approval.)

- 5.3.4** Only HazMat Responder, Level A trained personnel can take offensive measures to terminate a release requiring operating valves, applying patches to leaking cylinders, etc. Level B trained personnel can take defensive measures such as building dams, assisting in decontamination efforts, applying absorbent materials, blocking drains, etc.

- 5.4 For releases, fires, or explosions of hazardous materials or waste, the SS/CRS should ensure the following is performed:**
- 5.4.1 Designate Chemistry personnel to identify the character, exact source, amount, and the extent of any released materials.**
  - 5.4.2 Assess possible hazards to human health or the environment which may result from the fire, or explosion or waste release. This assessment must consider both direct and indirect effects of the fire, explosion, or waste release (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, and the effects of any hazardous surface water runoffs from the water or chemical agents used to control fire and heat-induced explosions). The HazMat Risk Assessment provides guidance.**
  - 5.4.3 If the SS/CRS, with assistance from Chemistry supervision, determines that the facility has had a release, fire, or explosion which involves hazardous material or waste which could threaten human health or the environment outside the facility, the SS/CRS ensures the following notifications are completed:**
    - A. If the assessment indicates that evacuation of offsite areas may be advisable, notify appropriate county dispatchers. The SS/CRS should assist appropriate officials in deciding whether local areas should be evacuated.**
    - B. The SS/CRS should ensure that Chemistry Supervision notifies SCDHEC, the National Response Center, the SCE&G Environmental Group, Local Planning Committee, and the SCANA Public Affairs Coordinator and this notification is documented, in accordance with Attachment I.**
    - C. The SS/CRS should direct the Chemistry Supervisor to review Attachment I to determine any additional notifications that may be required.**
  - 5.4.4 During any emergency, the SS/CRS, with assistance from Chemistry supervision, ensures that all reasonable measures necessary are taken to ensure that fire, explosions, or waste releases do not occur, recur, or spread to other hazardous materials or waste at the facility. These measures must include, where applicable, collecting and containing released material or waste, and removing, or isolating containers.**
  - 5.4.5 When the emergency is terminated, ensure that the actions of 5.5 are taken.**

## **5.5 Post-Emergency Actions**

- 5.5.1** Immediately following an emergency, the Chemistry Supervisor must coordinate the treatment, storage, or disposal of recovered waste, contaminated soil or surface water, or any other material that results from fire, explosion, or waste release at the facility. The Chemistry Supervisor must ensure that in the affected area(s) of the facility:
- A.** No waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed.
  - B.** All emergency equipment listed in EPP-103 for HazMat response is cleaned and fit for its intended use before operations involving hazardous waste are resumed.
- 5.5.2** The Chemistry Supervisor will assess long term cleanup requirements. Offsite assistance should be used for major cleanup activities.
- 5.5.3** Nuclear Licensing must notify SCDHEC that the facility is in compliance with Section 5.5.1 before operations involving hazardous waste are resumed in the affected area of the facility.
- 5.5.4** Within 15 days after the incident, a written report on the incident must be submitted to SCDHEC, in accordance with the Hazardous Waste Contingency/Emergency Response Plan.

## **6.0 RECORDS**

- 6.1** Forward all written material or copies of written material generated because of the emergency to the Emergency Services Unit (ESU). The ESU will insure appropriate written material is included in the applicable Condition Evaluation Report.

## **7.0 REVISION SUMMARY**

- 7.1** Incorporated Revision 6, Change A.
- 7.2** Changed 4.3 to specify the Team Leader has to be trained as a Level A responder but not necessarily qualified as such.
- 7.3** Changed 6.1 from forwarding written material to Nuclear Licensing to insuring written material is included in the applicable Condition Evaluation Report.

**REPORTING RELEASES FROM FACILITY**

This form is to be completed, if the Shift Supervisor/Emergency Director determines that the facility has had a fire, explosion, or release which involves hazardous waste which could threaten human health or the environment, outside the facility (refer to Section 5.4). Chemistry supervision should perform these notifications when available.

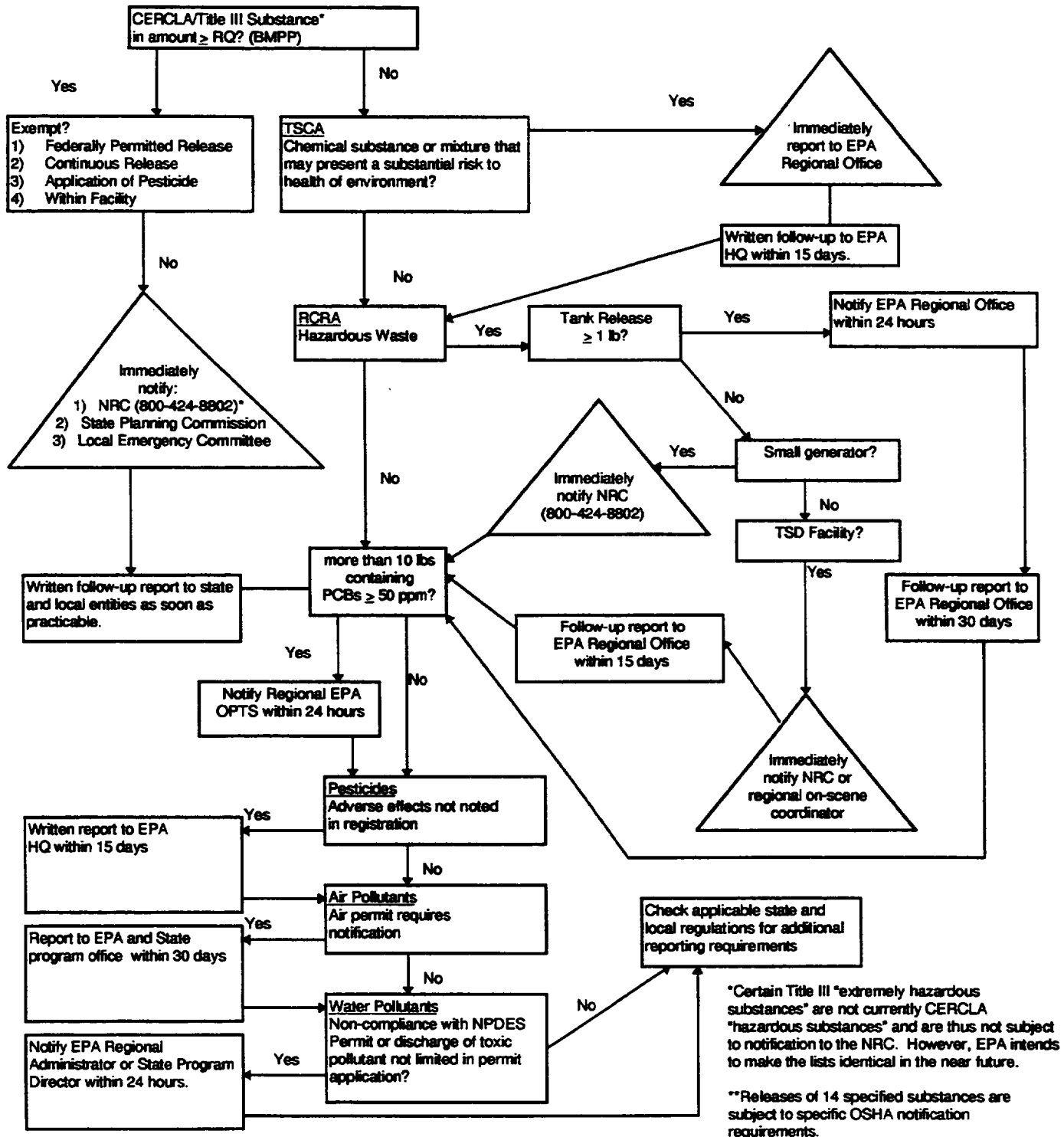
- (1) Name and telephone number of reporter: \_\_\_\_\_
- (2) Name and address of facility.  
V.C. Summer Nuclear Station, SCE&G  
P.O. Box 88, Route 215  
Jenkinsville, S.C. 29065
- (3) Time and type of incident (e.g., release, fire).  
\_\_\_\_\_
- (4) Name and quantities of material(s) (specify units) involved to the extent known.  
\_\_\_\_\_
- (5) The extent of injuries, if any.  
\_\_\_\_\_  
\_\_\_\_\_
- (6) The possible hazards to human health, or the environment outside the facility.  
\_\_\_\_\_  
\_\_\_\_\_

Groups Notified (See EP Telephone Directory for numbers).

- A. SCDHEC  
Individual Contacted \_\_\_\_\_ Date/Time \_\_\_\_\_
- B. National Response Center  
Individual Contacted \_\_\_\_\_ Date/Time \_\_\_\_\_
- C. SCE&G Environmental Services  
Individual Contacted \_\_\_\_\_ Date/Time \_\_\_\_\_
- D. Local Planning Committee  
(Director, Fairfield County Disaster Preparedness Agency or  
other appropriate official)  
(Call County Dispatcher)  
Individual Contacted \_\_\_\_\_ Date/Time \_\_\_\_\_
- E. SCE&G Media Coordinator  
Individual Contacted \_\_\_\_ Date/Time \_\_\_\_

\_\_\_\_\_  
Signature

**REPORTING RELEASES FROM FACILITY**  
(For Chemistry Supervisor Use)



## **EMERGENCY EQUIPMENT AND LOCATIONS**

**A. Hazardous Waste Accumulation Point (L-52)**

Fire Extinguisher  
Sand Bags  
Shovel  
Speedi-Dry (Absorbent)  
Oil Spill Kit

**B. Warehouses A and B**

Fire Extinguishers  
Fire Suppression System (Water)  
Speedi-Dry (Absorbent)

**C. Water Treatment Plant Chemical Storeroom and Labs**

Fire Extinguishers on 463' and 436' elevations  
Fire Hose Reel on 436' and 463' elevations  
Fire Suppression System (Preaction Sprinkler on 463' only)  
Fire Hose Cabinet (North of Diesel Generator Building)  
Gloves (Rubber)  
Lab Coats  
Face Shields  
Goggles  
SCBA's (463' elevation)

**D. HazMat Response Trailer**

Protective clothing  
Absorbents  
Drain Stoppers  
Salvage Drum  
Neutralizing Solutions  
Reference Material