



RADIOLOGICAL EMERGENCY RESPONSE PLAN - STATION

NO.	SUBJECT	ISSUE NUMBER	EFFECTIVE DATE
RERP-ECP	Executive Command Post Procedure	9	10-10-84
REP <sup>n</sup> -EXP	Emergency Exposure Guidelines	2	08-06-84
RERP-FCP	Forward Command Post Procedure	11	08-06-84
RERP-FIELD	Field Monitoring Procedure	6	08-06-84
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RERP-ORG	FSV Emergency Organization and Responsibilities	7	10-10-84
RERP-PAG	Protective Action Guideline Recommendations	3	08-06-84
RERP-PCC	Personnel Control Center Procedure	14	08-06-84
RERP-SEOC	State Emergency Operations Center Procedure	9	10-10-84
RERP-SURVEY	Inplant/Onsite Radiological Monitoring	4	08-06-84
RERP-THYROID	Thyroid Blocking Agent Administration	4	10-10-84

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TITLE: EXECUTIVE COMMAND POST PROCEDURE

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FORM 372-22-3567

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9/25/84  
*J. Boist for JWGAHM*

PORC  
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**PORC 589 OCT 3- 1984**

EFFECTIVE  
DATE

**10-10-84**

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ESTABLISHING THE EXECUTIVE COMMAND POST1.0 Criteria for Implementation

When the FSV Radiological Emergency Response Plan (RERP) requires augmentation of resources, the Executive Command Post Director shall activate the Executive Command Post (ECP).

2.0 Procedure2.1 Staffing

The ECP Director shall perform personnel accountability to assure that the initial manning functions of the ECP can be met.

If not during normal working hours, those personnel required to man the ECP are notified by telephone (see RERP-HOME or RERP PHONE LISTS). It is the responsibility of the ECP Alternate Director, or the first individual contacted by the ECP Director, to ensure that the notifications are made. Refer to the call list for the ECP for instructions, names, and telephone numbers.

2.2 Communications

The ECP Director shall establish communications with the Forward Command Post (FCP).

2.3 Activation

The Executive Command Post (ECP) shall be established and operational within ninety (90) minutes after an ALERT or higher level accident.

2.3.1 The ECP will be located:

- a) Primary - Room 620, Headquarters Building.
- b) Alternate - PSC Lookout Center in Golden.

2.3.2 The ECP is manned by senior corporate personnel, facilities, equipment, and financial resources in an emergency situation. The ECP supports PSC personnel stationed at onsite and offsite emergency centers.

### 3.0 Responsibilities

#### 3.1 Executive Command Post Director - Checklist 1

- 3.1.1 The ECP Director will perform personnel accountability to assure that the ECP staffing requirements can be met.
- 3.1.2 Assumes overall responsibility for providing the Corporate Emergency Director (located at the Forward Command Post) with the counsel, expertise, and resources available within the PSC organization.
- 3.1.3 Coordinates emergency assistance, provides reentry and recovery support, station and co-ordinates site modifications review by the Nuclear Facility Safety Committee as appropriate.
- 3.1.4 Supervises the ECP emergency operations Managers, communications, and clerical personnel, and briefs ECP staff.
- 3.1.5 Dispatches headquarters management, administrative and technical support personnel as requested by the Corporate Emergency Director (CED).
- 3.1.6 Terminates the ECP when the emergency condition is terminated.

#### 3.2 Communications Support

- 3.2.1 Establish communications with the Forward Command Post (FCP) (see RERP PHONE LISTS for phone numbers, if required).
- 3.2.2 When instructed to do so, inform the FCP that the ECP is manned and ready and of the location (Room 620 or Lookout Center).
- 3.2.3 Receive status of plant and emergency and assessment of condition and inform ECP Director, who will brief the ECP staff.
- 3.2.4 Request location of Personnel Control Center (PCC).
- 3.2.5 Maintain communications flow between ECP and FCP.

#### 3.3 Clerical Support

Clerical assistant(s) keep an ongoing record (log) of all actions taken.



### 3.4 Manager of Technical Support

- 3.4.1 Provide CED and onsite emergency operations with technical advice in nuclear, mechanical, civil, and electrical engineering.
- 3.4.2 Provide engineering support, technical experts, and consultants as requested. (See RERP-SUPORG, should the need for non-PSC organization assistance be identified.)

### 3.5 Manager of Media Relations

- 3.5.1 Coordinates communications between the ECP and FCP.
- 3.5.2 Assists the ECP Director and PSC media relations personnel in preparation of press releases, announcements, and interviews.

### 3.6 Manager of Resources

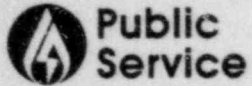
- 3.6.1 Coordinates provision of manpower and equipment from within PSC, and from consultants/contractors, to supports on-site emergency operations.
- 3.6.2 Provides requested technical and craft manpower; personnel or consultants for engineering/design and construction reviews; temporary housing, office, transportation, and construction equipment; purchasing, financial, legal and general office support; and, food deliveries and related logistics support to designated emergency operations. (See RERP-SUPORG, should the need for non-PSC organization assistance be identified.)

### 3.7 Manager of Security

- 3.7.1 Coordinates PSC security operations with public law enforcement agencies.
- 3.7.2 Acquires additional security manpower, hardware, and equipment, as requested.

## 4.0 References

- 4.1 FSV Radiological Emergency Response Plan

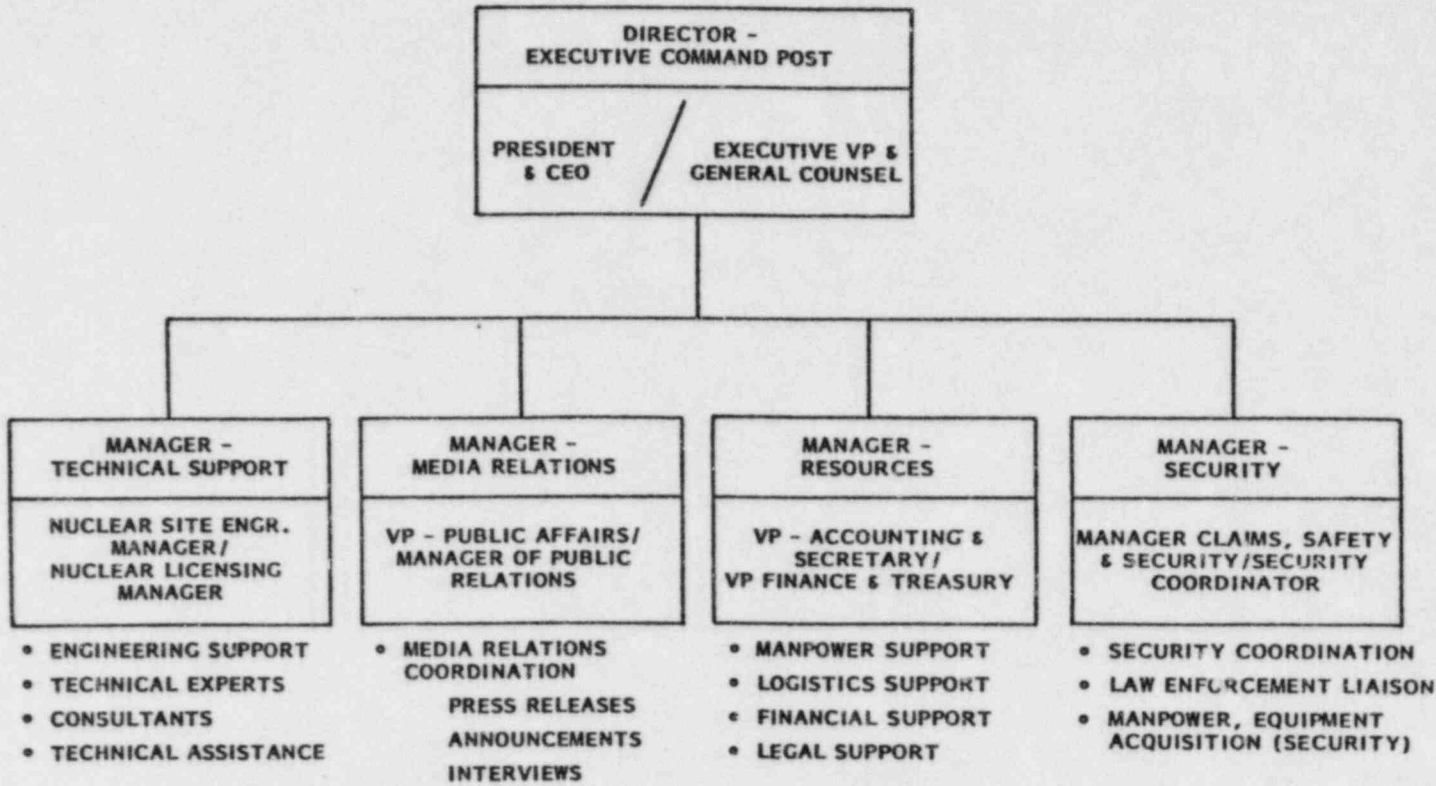


5.0 Referenced or Supporting Procedures

- 5.1 RERP-FCP, Forward Command Post Procedure
- 5.2 RERP-HOME, Home Packet for Off-shift Notifications
- 5.3 RERP-SURVEY, Inplant/Onsite Radiological Surveys
- 5.4 RERP-SUPORG, Use and Coordination of Non-PSC Support Organizations

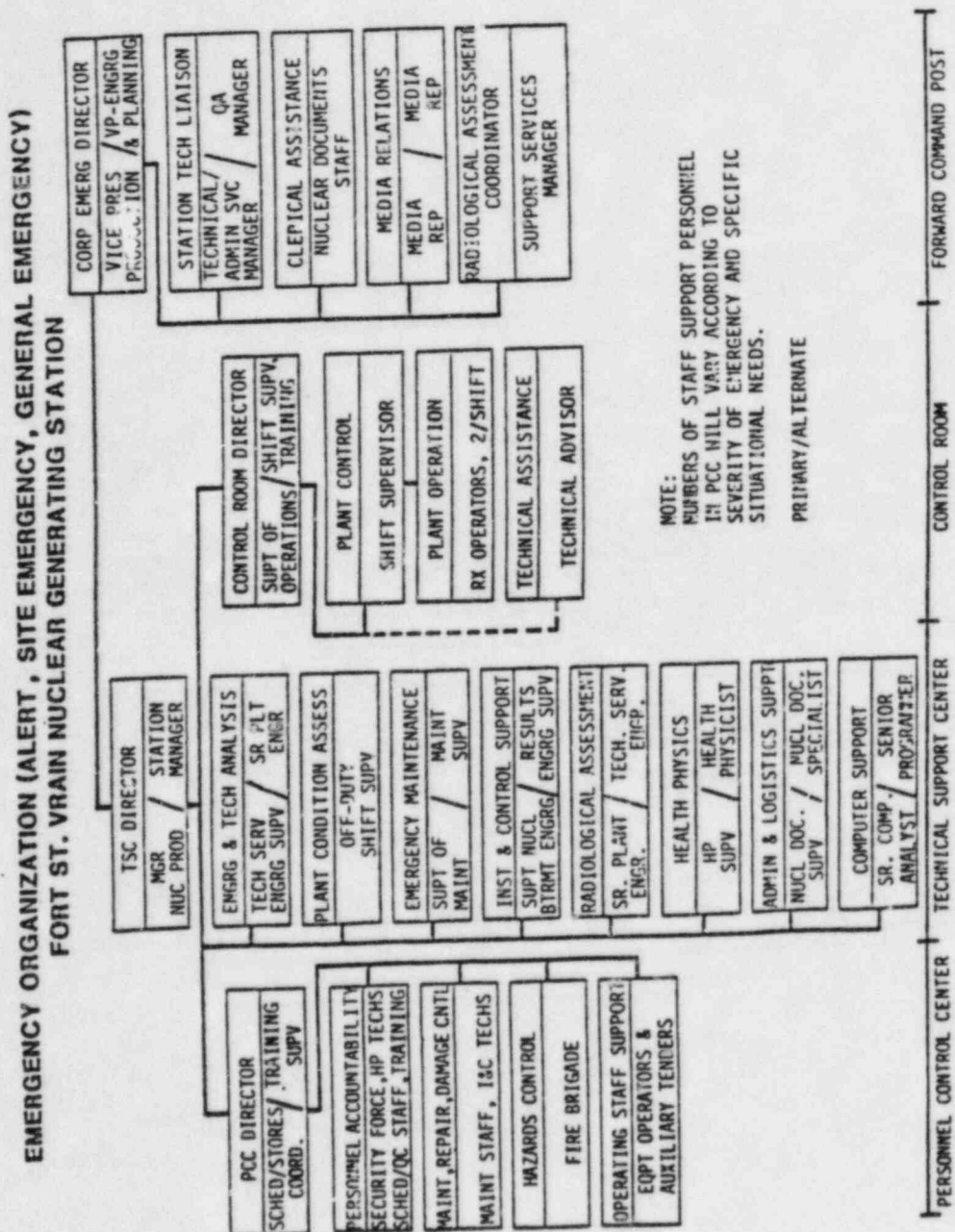
# EXECUTIVE COMMAND POST ORGANIZATION

## Fort St. Vrain Nuclear Generating Station



EXECUTIVE COMMAND POST ORGANIZATION

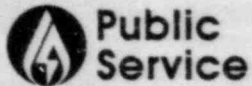
FIGURE 1

FIGURE 2  
 EMERGENCY ORGANIZATION




SUPPORT EQUIPMENT/MATERIALS

1. Communications equipment - telephones.
2. Fort St. Vrain Radiological Emergency Response Plan.
3. State Radiological Emergency Response Plan.
4. Local Government Emergency Plan.
5. Maps
  - a) Fort St. Vrain area and environs.
  - b) Regional.
6. Fort St. Vrain Station layout drawings (see RERP-SURVEY).
7. Other support available.
  - a) Reproduction Equipment.
  - b) Commercial television station monitoring equipment.
  - c) Radio-television recording equipment.



ECP DIRECTOR'S CHECKLIST

NOTE: All information is to be recorded by the Clerical Assistant

- |  | <u>Time</u> |
|--|-------------|
| 1. Personnel Accountability  |             |
| a. Manager of Technical Support - Nuclear Site Engineering Manager/Nuclear Licensing Manager | _____       |
| b. Manager of Media Relations - VP Public Affairs/ Manager of Public Relations.              | _____       |
| c. Manager of Resources - VP Accounting/VP of Finance & Treasurer.                           | _____       |
| d. Manager of Security - Manager of Claims, Safety & Security/ Security Coordinator.         | _____       |
| e. Clerical assistants - Secretary to VP Accounting.   | _____       |
| f. Communications Support Person.  | _____       |
| 2. Staffing requirements met.  | _____       |
| 3. Communications established with FCP.  | _____       |
| 4. FCP informed that ECP is manned and ready and location.                                   | _____       |
| 5. Status of plant and emergency and assessment of condition received from FCP.              | _____       |
| 6. Location of PCC requested and received.   | _____       |
| 7. Staff briefing conducted.   | _____       |



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ECP Director's Checklist

2



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ECP DIRECTOR'S CHECKLIST

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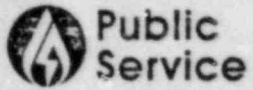
- |  | <u>Time</u> |
|--|-------------|
| 1. Personnel Accountability  |             |
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| b. Manager of Media Relations - VP Public Affairs/ Manager of Public Relations.              | _____       |
| c. Manager of Resources - VP Accounting/VP of Finance & Treasurer.                           | _____       |
| d. Manager of Security - Manager of Claims, Safety & Security/ Security Coordinator.         | _____       |
| e. Clerical assistants - Secretary to VP Accounting.   | _____       |
| f. Communications Support Person.  | _____       |
| 2. Staffing requirements met.  | _____       |
| 3. Communications established with FCP.  | _____       |
| 4. FCP informed that ECP is manned and ready and location.                                   | _____       |
| 5. Status of plant and emergency and assessment of condition received from FCP.              | _____       |
| 6. Location of PCC requested and received.   | _____       |
| 7. Staff briefing conducted.   | _____       |



ECP DIRECTOR'S CHECKLIST

NOTE: All information is to be recorded by the Clerical Assistant

- |  | <u>Time</u> |
|--|-------------|
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| c. Manager of Resources - VP Accounting/VP of Finance & Treasurer.                           | _____       |
| d. Manager of Security - Manager of Claims, Safety & Security/ Security Coordinator.         | _____       |
| e. Clerical assistants - Secretary to VP Accounting.   | _____       |
| f. Communications Support Person.  | _____       |
| 2. Staffing requirements met.  | _____       |
| 3. Communications established with FCP.  | _____       |
| 4. FCP informed that ECP is manned and ready and location.                                   | _____       |
| 5. Status of plant and emergency and assessment of condition received from FCP.              | _____       |
| 6. Location of PCC requested and received.   | _____       |
| 7. Staff briefing conducted.   | _____       |



Work/Datasheet/Checklist Control List

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1	ECP Director's Checklist	2





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**PUBLIC SERVICE COMPANY OF COLORADO**

FORT ST. VRAIN NUCLEAR GENERATING STATION

RERP-ORG

Issue 7

Page 1 of 12

**FORT ST. VRAIN**

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FORM 372-22-3567

TITLE: FSV EMERGENCY ORGANIZATION AND RESPONSIBILITIES

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PORC REVIEW

PORC 589 OCT 3- 1984

EFFECTIVE DATE

10-10-84

<u>Section</u>	<u>Description</u>	<u>Page</u>
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General

This procedure defines the authority and general responsibilities of key individuals within the FSV Emergency Organization. Positions and responsibilities of personnel located at the six emergency response facilities; Forward Command Post, Technical Support Center, Control Room, Personnel Control Center, Executive Command Post, and State Emergency Operations Center; are discussed (see Figure 1).

This procedure is general in nature and cannot specify the actions of personnel on a step-by-step basis. Personnel are trained in their areas of responsibility and are expected to be able to utilize the multitude of implementing procedures and emergency equipment provided.

This procedure is provided for reference purposes during a radiological emergency at Fort St. Vrain.

1.0 Criteria

This procedure is automatically implemented whenever an event has occurred at Fort St. Vrain which is classified as an ALERT or higher emergency class, as determined by the on-duty Shift Supervisor (Emergency Coordinator). Staffing changes, if required by a particular situation, may be made at the discretion of the responsible facility directors.

2.0 Procedure2.1 Emergency Coordinator

The Emergency Coordinator is the on-duty Shift Supervisor. The title of Emergency Coordinator is retained by the duty Shift Supervisor until he is relieved by either the Control Room Director or the Technical Support Center Director, upon activation of the FSV Emergency Organization (see Figure 2). The Emergency Coordinator is responsible for:

- Initial accident classification;
- Recommending protective actions;
- Initiating emergency actions to mitigate the accident;
- Notifying offsite authorities;
- Diagnosing accident conditions;
- Estimating radiological exposures; and
- Establishing communications with the TSC.



Responsibility for the decision for offsite notification and protective action recommendation may not be delegated.

## 2.2 Forward Command Post (FCP)

The FCP functions as the control and coordination center for on-scene state/local/federal emergency response forces, and communicates with the State EOC and the Weld County EOC (Weld County Communication Center) for effective coordination of state and county forces. A senior representative of Division of Disaster Emergency Services (DODES) is responsible for control and coordination with FCP emergency response activities.

### 2.2.1 Corporate Emergency Director (CED)

The CED assumes overall command of PSC emergency operations, and is the prime contact between FSV and governmental authorities.

The CED is responsible for direction and coordination of:

- PSC onsite and offsite emergency functions;
- Interface between PSC and state/local/federal emergency response activities;
- Transmission of plant status updates and radiological release data to the ECP, PSC personnel at the State EOC, and media center personnel;
- Notification of state and local agencies regarding recommended protective actions;
- Provision of administrative, technical, and logistics support to station emergency operations via the ECP; and
- Continuity of emergency organization resources.

The CED provides direction to the TSC Director and the Nuclear Engineering Manager at the State EOC. He will coordinate additional headquarters support via the Executive Command Post, and is responsible to make the determination of when the emergency condition is terminated, and the recovery phase has begun.

#### 2.2.2 Station Technical Liaison

The Station Technical Liaison is responsible to provide assistance and substantiated data on emergency status and conditions as required. He also serves to coordinate company emergency response actions with those of state/local/federal agencies.

#### 2.2.3 Media Relations

The PSC Media Relations personnel at the FCP provide assistance to the State Public Information Coordination Team (PICT) in the preparation of news and related media releases, and the control of rumors in accordance with the PSC RERP Public Information Plan.

#### 2.2.4 Radiological Assessment Coordinator

The Radiological Assessment Coordinator is responsible for coordinating the radiological assessment activities between PSC and those of state/local/federal agencies. His particular responsibilities include:

- In coordination with the TSC Radiological Assessment individual, perform and/or evaluate a preliminary assessment of the actual and/or potential radiological release.
- Based upon the above assessment, identify affected offsite areas, and recommend an emergency classification and recommended offsite protective actions to the Corporate Emergency Director.
- Obtain a 12 hour weather prediction from the National Weather Service.
- Continue to evaluate radiological assessment data as it arrives and continue to make recommendations of emergency classification and offsite protective actions to the Corporate Emergency Director.
- Confer with state/local federal agencies on an as-needed basis to discuss PSC radiological assessment activities relative to those of offsite authorities.

### 2.2.5 Clerical Staff

The PSC clerical personnel assigned to the FCP maintain an ongoing record (log) of all actions taken by PSC at the Forward Command Post. In addition they assume responsibility for the posting of the FCP status board information and assist in the timely transmission of data between the FCP and TSC, as well as between the FCP and the State Emergency Operations Center (SEOC) PSC staff and the Executive Command Post (ECP).

## 2.3 Technical Support Center

Site emergency command activities are centered in the Technical Support Center, located immediately adjacent to the Reactor Building and within short walking distance of the Control Room. The TSC also serves as the primary point for onsite-offsite communications.

### 2.3.1 TSC Director

The TSC Director is in command of onsite emergency operations. The TSC Director is authorized to initiate emergency actions, including declaration of a particular emergency class and providing protective action recommendations to offsite authorities.

The TSC Director's responsibilities are:

- Assumes overall responsibility for the coordination and direction of onsite emergency response centers;
- Transmits preliminary assessment information to the FCP;
- Directs the Personnel Control Center (PCC) actions;
- Confers, on an on-going basis, with the Corporate Emergency Director after activation of the FCP; and
- Notifies the Corporate Emergency Director of the need for assistance or support.

### 2.3.2 Engineering and Technical Analysis

Engineering and Technical Analysis personnel are responsible for direction of core physics analysis, electrical and mechanical engineering activities, licensing related activities, procedures development, and system analysis as required.

### 2.3.3 Plant Condition Assessment

Plant Condition Assessment personnel are responsible for the assessment of plant status, focusing on significant plant problems and trends, and for providing recommended corrective actions to the TSC Director.

### 2.3.4 Emergency Maintenance

Emergency Maintenance personnel are responsible to recommend repair/damage control and corrective actions for plant mechanical and electrical systems. This individual estimates time and manpower requirements for emergency repairs, and develops emergency repair work procedures, as required.

### 2.3.5 Instrumentation and Control Support

The Instrumentation and Control (I&C) individual determines alternative I&C capabilities or configurations, and advises for the repair/installation/modification of I&C equipment.

### 2.3.6 Radiological Assessment

The Radiological Assessment individual is responsible to assess offsite radiological doses and consequences, determine affected offsite areas, and confer with both the TSC Director and the Radiological Assessment Coordinator (FCP) regarding calculation results and recommended offsite protective actions. In addition, the Radiological Assessment individual should confer with the Health Physics representative at the TSC regarding offsite dose projections in areas where field monitoring teams are to be deployed. The Radiological Assessment individual is responsible for verification of any calculation prior to transmission to the Radiological Assessment Coordinator at the FCP.



### 2.3.7 Health Physics

The senior Health Physics representative at the TSC is responsible for the assessment of onsite radiological doses, direction of all Health Physics/Radiochemistry survey personnel or teams, ensuring that adequate personnel dosimetry measures are taken, and evaluation of doses of field and emergency team personnel (particularly with regard to a need for thyroid blocking).

### 2.3.8 Administrative and Logistics Support

The Administrative and Logistics Support individual provides technical documents, provides assistance with communications and analytical equipment, arranges required clerical support beyond the personnel directly assigned to the TSC, and makes any arrangements necessary for food/transportation/housing support as required.

### 2.3.9 Computer Support

Computer support personnel provide technical support in the areas of computer hardware and software modifications/development/or repair, as required. In addition, this individual is responsible to arrange for timely offsite advice or assistance as directed by the TSC Director.

Computer support personnel also have received training in offsite Dose Calculation methodology. This training is provided for the purpose of assisting the TSC Radiological Assessment individual in gathering data and, where requested, assist in data entry at the TSC plant computer console.

## 2.4 Control Room

Emergency control and accident mitigation is provided by Control Room personnel. Initially, accident assessment and control is directed from the Control Room (see Section 2.1).



#### 2.4.1 Control Room Director

The Control Room (CR) Director is responsible for control of plant operations, assessing plant operational aspects, and implementing any recommended corrective actions. In addition, the CR Director may request any additional operations personnel necessary through the TSC Director.

#### 2.4.2 Technical Advisor

The Technical Advisor is responsible to provide technical analysis and advice as requested, and to provide recommendations of corrective actions necessary to restore the plant to a safe and stable condition.

#### 2.4.3 Plant Control and Plant Operations

Plant Control and Plant Operations responsibilities are handled by personnel already on-shift and assigned those responsibilities.

### 2.5 Personnel Control Center

The Personnel Control Center (PCC) serves as manpower marshalling location to provide a pool of personnel available for emergency assignment. Personnel are assigned to perform functions consistent with their routine job classification.

#### 2.5.1 Personnel Control Center Director

The PCC Director is responsible for continued personnel accountability, assembling personnel for repair/damage control or radiological survey teams, search and rescue teams, reserve operating staff, and establishing radiological control areas as directed. In particular, his responsibilities include the following:

- Continued personnel accountability;
- Assuring that all emergency workers at-risk are evaluated by the Senior Health Physics representative at the TSC with regard to a need for thyroid blocking;
- Coordinates with Security personnel to control access to the owner controlled area;

- Dispatches personnel to notify any individuals living in the owner controlled area who were unable to be contacted by telephone;
- Coordinates medical transport for injured personnel;
- Coordinates access for personnel arriving from outside the plant with Weld County Sheriff's Department;
- Coordinates entry/re-entry of required personnel with the Lead Security Officer;
- Relocates the PCC to an alternate onsite or offsite location, as required;
- With the concurrence of the TSC Director, authorizes volunteer emergency workers to receive doses in excess of 10 CFR 20 limits (see RERP-EXP); and,
- Receives reports of accidental or emergency exposure in excess of occupational limits, and informs the TSC Director of these occurrences; and,
- Refers any requests for outside assistance to the TSC Director.

#### 2.5.2 Personnel Accountability

Personnel Accountability personnel are responsible for maintaining continued personnel accountability and exposure estimates, handling search and rescue assignments, performing first aid and personnel decontamination, and assisting in the medical transport of injury victims.

#### 2.5.3 Maintenance, Repair, and Damage Control

Perform mechanical and electrical repair/damage control, emergency maintenance, and temporary modifications.

#### 2.5.4 Hazards Control

Extinguish fires, purge hazardous gases, and combat natural emergencies.

## 2.6 Executive Command Post

The Executive Command Post (ECP) is manned by senior corporate personnel with the authority to activate corporate personnel, facilities, equipment, and financial resources in an emergency situation (see Figure 3). The ECP supports PSC personnel stationed at onsite and offsite emergency response centers.

### 2.6.1 ECP Director

The ECP Director will assume overall responsibility for providing the Corporate Emergency Director with the counsel, expertise, and resources available within the PSC organization. He coordinates emergency assistance, provides re-entry and recovery support, station and site modifications review by the Nuclear Facilities Safety Committee.

### 2.6.2 Manager of Technical Support

The Manager of Technical Support will provide the Corporate Emergency Director and onsite emergency operations with technical advice in nuclear, mechanical, civil, and electrical engineering. He provides engineering support, technical experts, and consultants, as requested.

### 2.6.3 Manager of Media Relations

The Manager of Media Relations will coordinate communications between the ECP and other emergency facilities, and will assist the ECP Director and PSC media relations personnel in preparation of press releases, announcements, and interviews.

### 2.6.4 Manager of Resources

The Manager of Resources will coordinate provision of manpower and equipment from within PSC, and from consultants/contractors to support onsite emergency operations. He provides requested technical and craft support; personnel or consultants for engineering/design and construction reviews; temporary housing, office transportation, and construction equipment; purchasing, financial, legal, and general office support; and, food deliveries and related logistics support to designated emergency operations.

#### 2.6.5 Manager of Security

The Manager of Security will coordinate PSC security operations with public law enforcement agencies. He acquires additional security manpower hardware, and equipment, as requested.

#### 2.7 State Emergency Operations Center

The State Emergency Operations Center (State EOC) is the primary point through which the Governor, or his designee, exercises overall control and coordination of emergency response operations through the Colorado Division of Disaster Emergency Services.

##### 2.7.1 Vice President of Governmental Affairs or the Manager of Nuclear Engineering

This individual is responsible to coordinate PSC emergency response activities with those of state/local/federal agencies.

##### 2.7.2 Media Relations Manager or News Director

This individual is responsible for providing up-to-date site information to the Public Information Coordination Team (PICT) Chief (Governor's Office representative) and assisting the PICT in preparation of mutually acceptable news releases, fact sheets, background material media releases, and rumor control in accordance with the "PSC RERP Public Information Plan."

##### 2.7.3 Radiation Specialist

The Radiation Specialist is responsible for providing assistance and substantiated data regarding the site's emergency status and plant conditions to state/local/federal emergency response agencies assigned to the State EOC.

#### 3.0 Responsibilities

This procedure will be implemented whenever the Shift Supervisor declares an ALERT, or higher, emergency classification. Individual responsibilities are specified in Section 2.0 of this procedure.

#### 4.0 References

- 4.1 Fort St. Vrain Nuclear Generating Station Radiological  
Emergency Response Plan
- 4.2 PSC RERP Public Information Plan

#### 5.0 Procedures Referenced

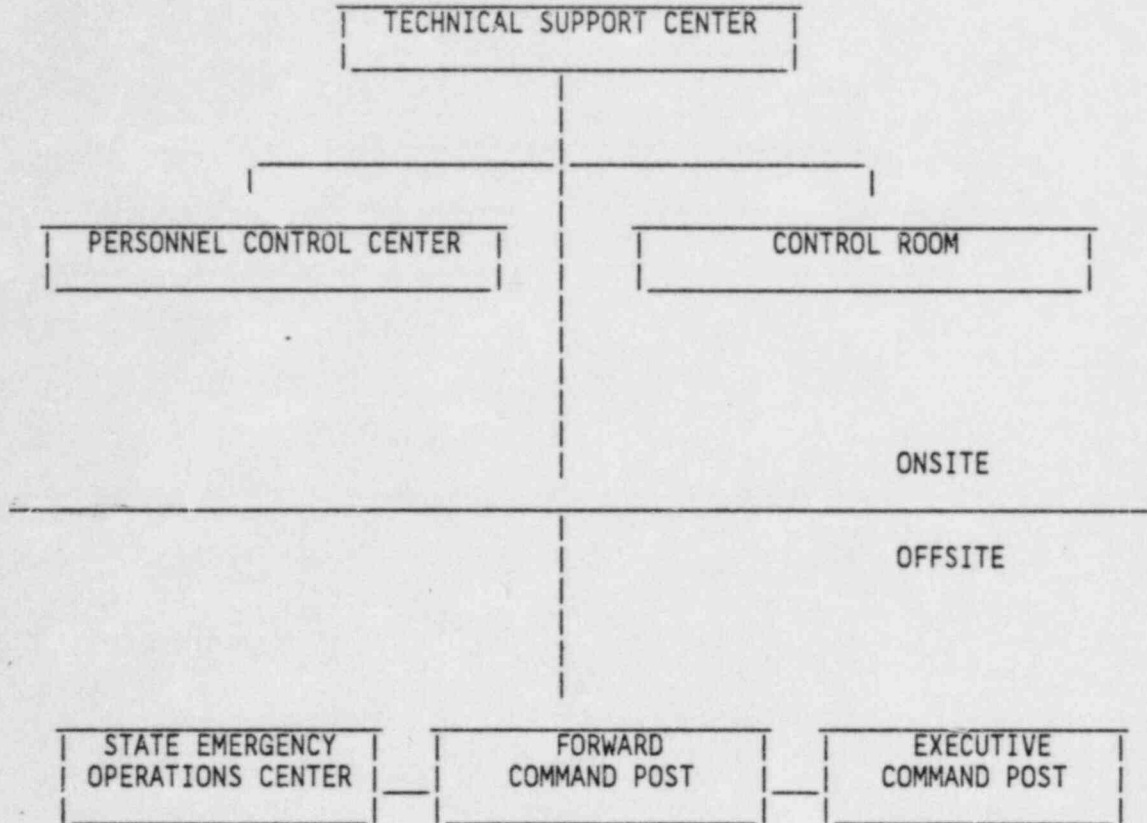
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- 5.4 RERP-PCC, Personnel Control Center Procedure
- 5.5 RERP-SEOC, State Emergency Operations Center Procedure
- 5.6 RERP-TSC, Technical Support Center Procedure
- 5.7 RERP-EXP, Emergency Exposure Guidelines
- 5.8 RERP-SUPORG, Use and Coordination of Non-PSC Support  
Organizations



FIGURE 1

ONSITE-OFFSITE EMERGENCY ORGANIZATION

Fort St. Vrain Nuclear Generating Station



### EMERGENCY ORGANIZATION (ALERT, SITE EMERGENCY, GENERAL EMERGENCY) FORT ST. VRAIN NUCLEAR GENERATING STATION

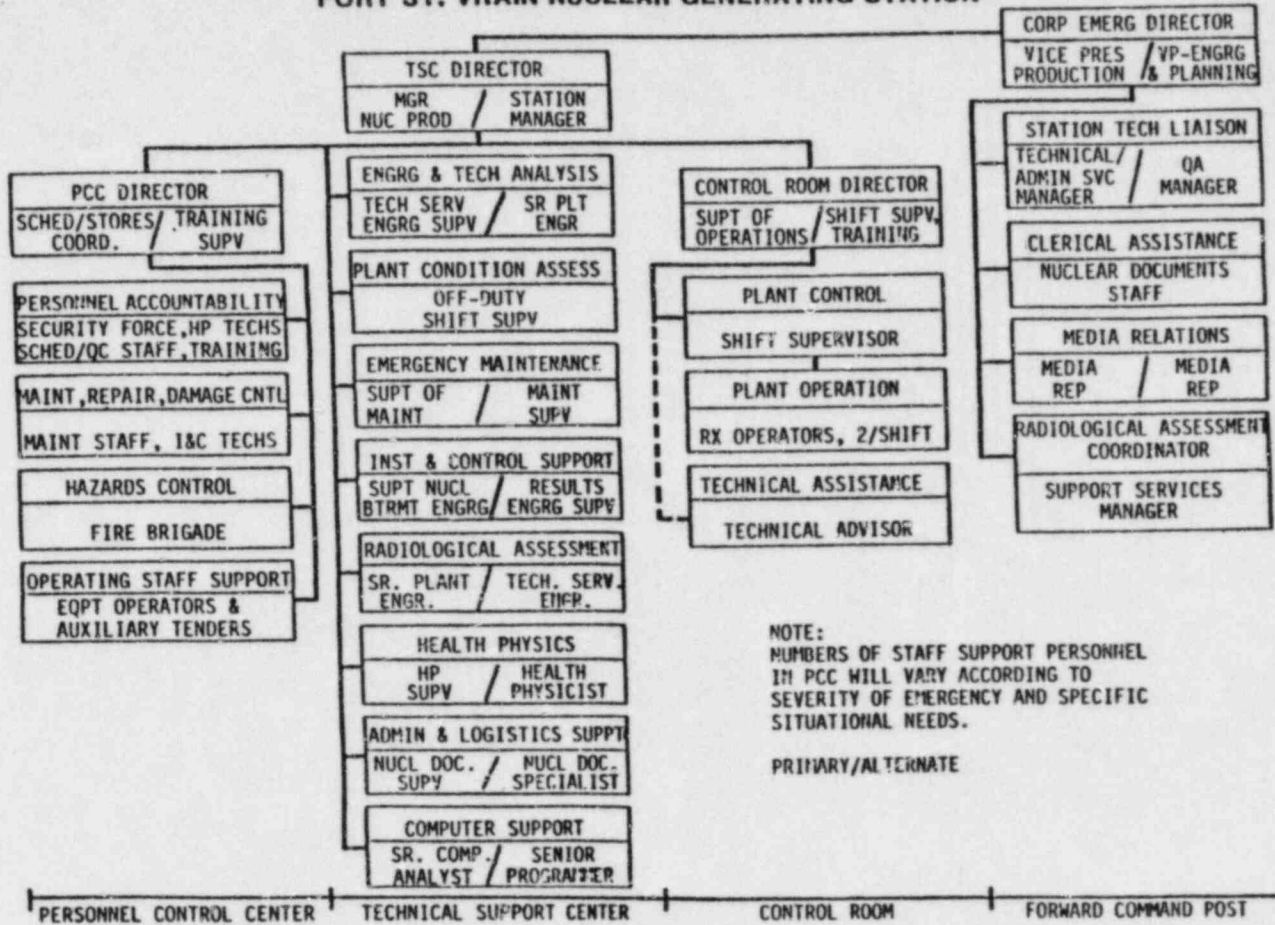


FIGURE 2

# EXECUTIVE COMMAND POST ORGANIZATION

## Fort St. Vrain Nuclear Generating Station

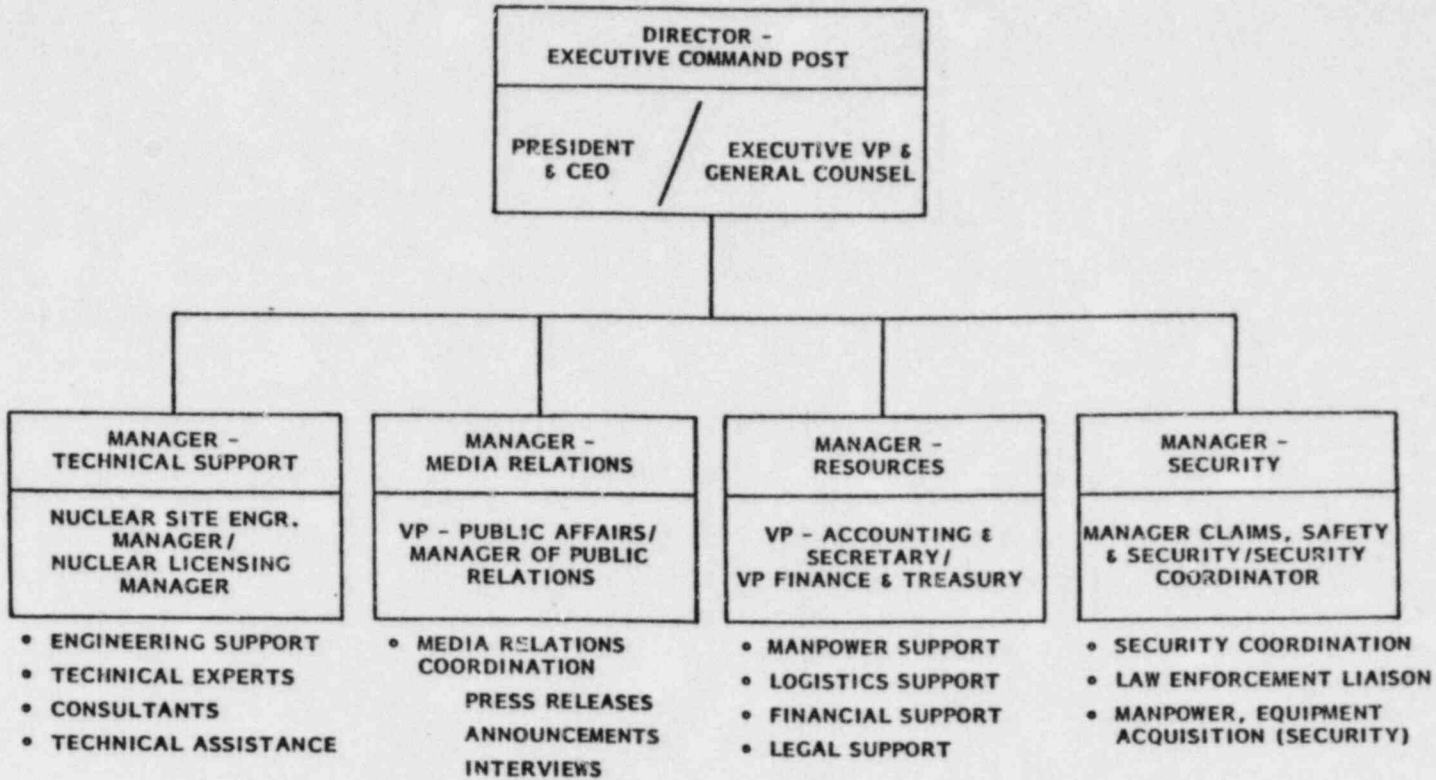


FIGURE 3



TITLE: <u>STATE EMERGENCY OPERATIONS CENTER PROCEDURE</u>		<b>FORT ST. VRAIN</b> <b>NON - CONTROLLED COPY</b>  VERIFY ISSUE STATUS WITH DOCUMENT CENTER PRIOR TO USE  FORM 372-22-3567
ISSUANCE AUTHORIZED BY	9/25/84 <i>J. Boise for JWGATHY</i>	
PORC REVIEW	<b>PORC 589 OCT 3- 1984</b>	EFFECTIVE DATE <b>10-10-84</b>

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3.0	<u>Responsibilities</u> .....	4
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	Work/Datasheet/Checklist Control List .....	1
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ESTABLISHING THE STATE EMERGENCY OPERATIONS CENTER1.0 Criteria For Implementation

When the FSV Radiological Emergency Response Plan (RERP) requires augmentation of resources, generally for an ALERT or higher emergency classification, the State Emergency Operations Center (State EOC) shall be activated.

2.0 Procedure2.1 Staffing

The Assistant VP, Governmental Affairs (VP), or his alternate, the Manager of Nuclear Engineering shall perform personnel accountability to assure that the Public Service Company manning functions at the State EOC can be met. If not during normal working hours, those personnel required to man the State EOC are notified by telephone (see RERP-HOME). It is the responsibility of the VP's Alternate, or the first person contacted by the VP, to ensure that the notifications are made. Refer to the State EOC call list for instructions, names, and phone numbers. The VP, or his alternate, shall establish communications and verify that primary and secondary communication links to the Forward Command Post (FCP) are available.

2.2 Location

The State Emergency Operations Center (State EOC) is located in DODES headquarters at Camp George West in Golden, Colorado. Provision is made for a facility to accommodate the needs of the media.

2.3 Function and Staffing

The State EOC is the primary point through which the Governor, or his authorized designee, exercises overall control and coordination of emergency response operations through the Colorado Division of Disaster Emergency Services (DODES).

Staffing of the State EOC consists of authorized representatives of:

- a) Office of the Governor
- b) Division of Disaster Emergency Services
- c) Colorado Department of Health



- d) Colorado State Patrol
- e) Colorado National Guard
- f) Federal Emergency Management Agency
- g) Public Service Company of Colorado
- h) Others, as notified/required

#### 2.4 Public Service Company of Colorado Staffing

##### 2.4.1 The Assistant VP, Governmental Affairs (or Alternate) Checklist 1

- a) Will perform personnel accountability to assure that the PSC staffing requirements at the State EOC can be met.
- b) Establish communications with the Forward Command Post (FCP).

##### Primary

Telephone (open line)

##### Secondary

Backup State Radio System

- c) Inform the FCP that the PSC staffing of the State EOC is manned and ready.
- d) Advise FCP of status of other State EOC representatives.
- e) Request location of Personnel Control Center (PCC).
- f) Maintain communications flow between State EOC and FCP.
- g) Clerical assistant(s) keep an on-going record (log) of all actions taken.
- h) Coordinate company emergency response activities with those of state/local/federal agencies. PSC will channel contacts with federal agencies (except NRC) through DODES.

- i) Provide up-to-date site information to the Public Information Coordination Team (PICT) Chief (Governor's Office representative) and assist the PICT in the preparation of mutually acceptable news releases, fact sheets, and background material media releases.
- j) Briefs PSC Staff Personnel at the State EOC.
- k) Terminates manning by PSC personnel at the State EOC when the emergency condition is terminated.

#### 2.4.2 Manager of Nuclear Engineering or Alternate (Nuclear Design Manager)

Provide assistance and substantiated data regarding site emergency status and conditions to local/state/federal emergency response agencies assigned to the State EOC. Receive status of plant and emergency and assessment of condition and inform VP or Alternate.

#### 2.4.3 Radiation Specialist

Assist in providing substantiated data regarding site emergency status and conditions.

### 3.0 Responsibilities

#### 3.1 Vice President of Governmental Affairs or the Manager of Nuclear Engineering

This individual is responsible to coordinate PSC emergency response activities with those of state/local/federal agencies.

#### 3.2 Manager of Nuclear Engineering or Nuclear Design Manager

This individual is responsible for providing technical assistance as required, providing substantiated data regarding site emergency status and conditions, and informing the VP or alternate of plant and emergency status. The Nuclear Design Manager assists the Manager of Nuclear Engineering as required.

### 3.3 Media Relations Manager

This individual (Manager, Corporate Communications or Media Relations Director) is responsible for providing up-to-date site information to the Public Information Coordination Team (PICT) Chief (Governor's Office representative) and assisting the PICT in preparation of mutually acceptable news releases, fact sheets, background material media releases, and rumor control in accordance with the "PSC RERP Public Information Plan."

### 3.4 Radiation Specialist

The Radiation Specialist is responsible for providing assistance and substantiated data regarding the site's emergency status and plant conditions to state/local/federal emergency response agencies assigned to the State EOC.

## 4.0 References

4.1 FSV Radiological Emergency Response Plan

4.2 State of Colorado FSV Radiological Emergency Response Plan

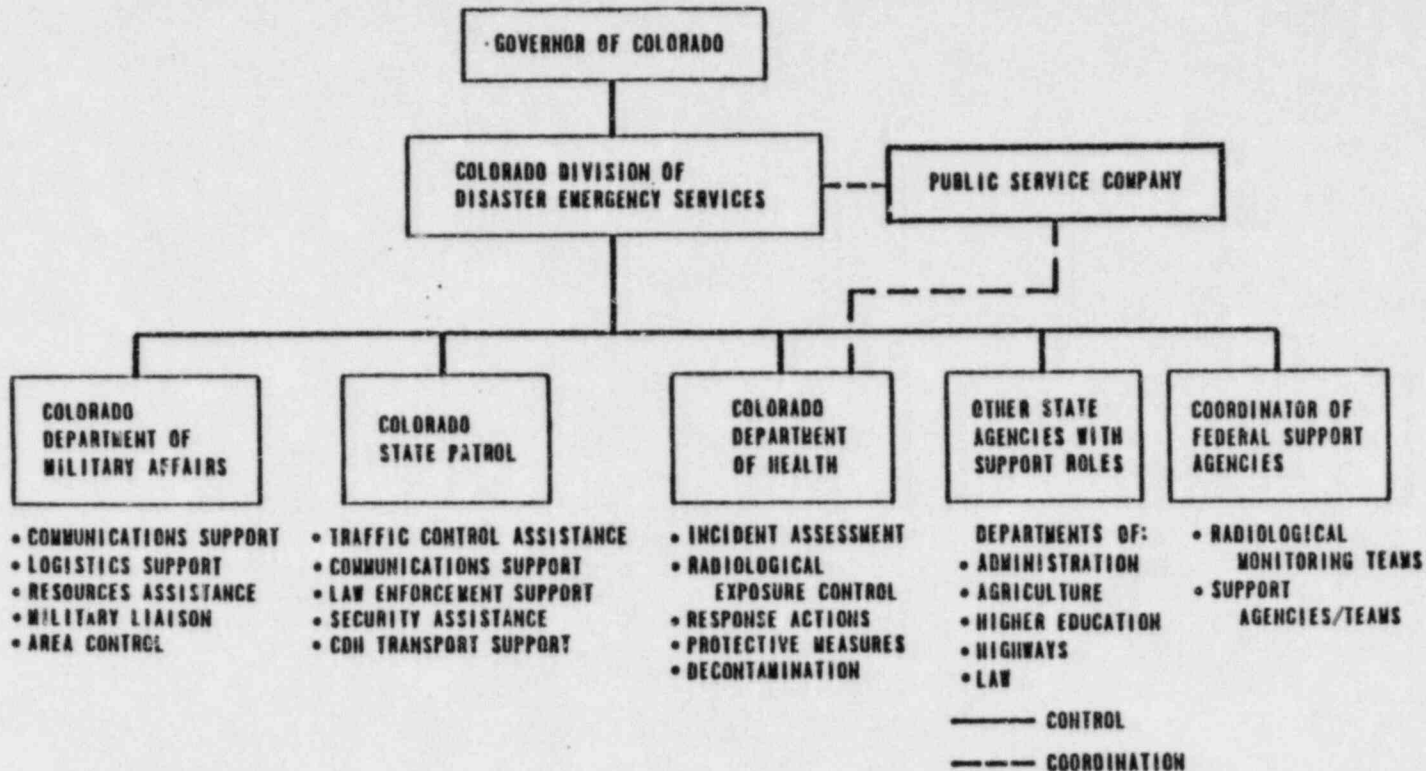
## 5.0 Referenced or Supporting Procedures

5.1 RERP-TSC, Technical Support Center Procedure

5.2 RERP-FCP, Forward Command Post Procedure

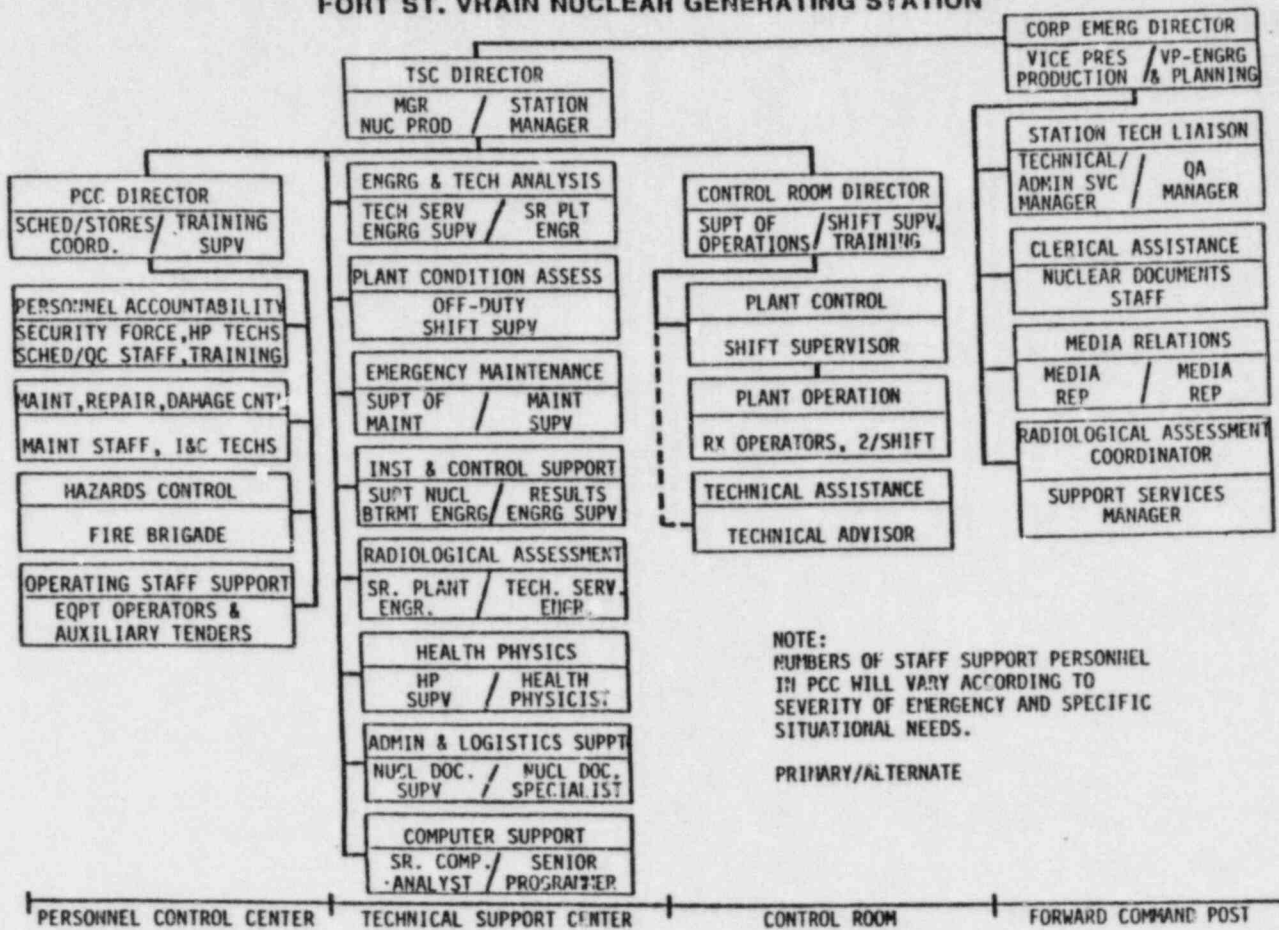
5.3 RERP-HOME, Home Packet for Off-Shift Notifications

## STATE EMERGENCY OPERATIONS CENTER ORGANIZATION Fort St. Vrain Nuclear Generating Station





## EMERGENCY ORGANIZATION (ALERT, SITE EMERGENCY, GENERAL EMERGENCY) FORT ST. VRAIN NUCLEAR GENERATING STATION



**Public Service**

FORT ST. VRAIN NUCLEAR GENERATING STATION  
**PUBLIC SERVICE COMPANY OF COLORADO**





ASSISTANT VP, GOVERNMENTAL AFFAIRS (OR ALTERNATE) CHECKLIST FOR STATE EOC

NOTE: All information is to be recorded by the Clerical Assistant

	<u>Time</u>
1. Personnel Accountability	_____
a. Technical Assistance	_____
b. Media Relations Manager	_____
c. Radiation Specialist	_____
d. Clerical Assistant	_____
e. Communications Support Person	_____
2. Staffing requirements met	_____
3. Communications established with FCP	_____
4. FCP informed that State EOC is manned and ready	_____
5. Status of plant emergency and assessment of conditions received from FCP	_____
6. Staff briefing conducted	_____
7. Location of PCC requested and received	_____



SUPPORT EQUIPMENT/MATERIALS

1. Communications equipment - telephones
2. Fort St. Vrain Emergency Plan
3. State Emergency Plan
4. Local government emergency plans
5. Corporate Emergency Plan
6. Maps
  - a) Fort St. Vrain
  - b) Sectors
  - c) Regional
7. Fort St. Vrain Station layout drawings
8. Office Supplies
  - a) writing tablets
  - b) pens, pencils, erasers



Work/Datasheet/Checklist Control List

Worksheet No.

Title

Number Copies

None

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N/A

Datasheet No.

None

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Checklist No.

1

Checklist for State EOC

2



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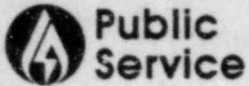
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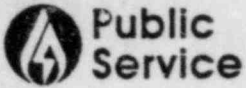
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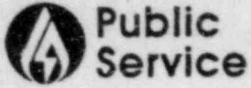




ASSISTANT VP, GOVERNMENTAL AFFAIRS (OR ALTERNATE) CHECKLIST FOR STATE EOC

NOTE: All information is to be recorded by the Clerical Assistant

- |   | <u>Time</u> |
|---|-------------|
| 1. Personnel Accountability   | _____       |
| a. Technical Assistance   | _____       |
| b. Media Relations Manager  | _____       |
| c. Radiation Specialist   | _____       |
| d. Clerical Assistant   | _____       |
| e. Communications Support Person  | _____       |
| 2. Staffing requirements met  | _____       |
| 3. Communications established with FCP                                      | _____       |
| 4. FCP informed that State EOC is manned and ready                          | _____       |
| 5. Status of plant emergency and assessment of conditions received from FCP | _____       |
| 6. Staff briefing conducted   | _____       |
| 7. Location of PCC requested and received                                   | _____       |



ASSISTANT VP, GOVERNMENTAL AFFAIRS (OR ALTERNATE) CHECKLIST FOR STATE EOC

NOTE: All information is to be recorded by the Clerical Assistant

- |   | <u>Time</u> |
|---|-------------|
| 1. Personnel Accountability   | _____       |
| a. Technical Assistance   | _____       |
| b. Media Relations Manager  | _____       |
| c. Radiation Specialist   | _____       |
| d. Clerical Assistant   | _____       |
| e. Communications Support Person  | _____       |
| 2. Staffing requirements met  | _____       |
| 3. Communications established with FCP                                      | _____       |
| 4. FCP informed that State EOC is manned and ready                          | _____       |
| 5. Status of plant emergency and assessment of conditions received from FCP | _____       |
| 6. Staff briefing conducted   | _____       |
| 7. Location of PCC requested and received                                   | _____       |



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Checklist No.

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Checklist for State EOC

2



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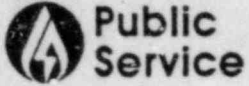
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TITLE: THYROID BLOCKING AGENT ADMINISTRATION

**FORT ST. VRAIN  
NON - CONTROLLED  
COPY**

VERIFY ISSUE  
STATUS WITH  
DOCUMENT CENTER  
PRIOR TO USE

FORM 372-22-3567

ISSUANCE  
AUTHORIZED  
BY

9/25/84  
*J. Berst for JW GATH*

PORC  
REVIEW

**PORC 589 OCT 3- 1984**

EFFECTIVE  
DATE

**10-10-84**

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General

The issuance of Potassium Iodide (KI) thyroid blocking agent will be performed by authorized Health Physics personnel under the direction of the Radiological Assessment Coordinator, or his designee, with consent of the Public Service Company Medical Department, where possible. Maximum benefit is realized if the initial KI administration is performed 1 day to 1/2 hour prior to exposure to radioiodine atmosphere. Total radioiodine uptake is halved if KI is administered within three to four hours after exposure. Little benefit is gained with KI administration 10 to 12 hours after exposure.

1.0 Criteria for Administration

Potassium Iodide (KI) may be administered to emergency workers at Fort St. Vrain for the following situations:

- 1.1 Whenever a worker at Fort St. Vrain is believed to have received exposure to a radioiodine atmosphere to the extent that an integrated thyroid dose of 25 rem or more is likely to occur. Little benefit will be realized 12 hours or more after exposure.
- 1.2 Whenever an emergency worker at Fort St. Vrain is anticipated to receive a dose of 25 rem or more to the thyroid as a result of exposure to a radioiodine atmosphere.

2.0 Procedure

- 2.1 Thyroid blocking agent is to be issued only by Health Physics personnel under the direction of the Radiological Assessment Coordinator at the Forward Command Post or his designee.
- 2.2 Dose criteria above are to be utilized and information regarding emergency worker projected thyroid dose communicated to the Radiological Assessment Coordinator. In order to project a worker's dose, utilize the best available information regarding radioiodine concentration in the area the worker will be. Go to Figure 1 and determine a Thyroid Inhalation Dose Rate for the respiratory protection utilized, and multiply the projected dose rate by a conservative estimate of the stay time (hours) required for the worker to perform the task assigned. It is the Personnel Control Center Director's responsibility to notify the most senior Health Physics representative at the Technical Support Center of the need to perform this evaluation.

- 2.3 If the dose projection estimated in Step 2.2 of this procedure approaches or exceeds 25 rem, the Radiological Assessment Coordinator is to be notified and consulted.
- 2.4 Records for Thyroid Blocking Agent issue are to be maintained on the attached Thyroid Blocking Agent Administration Record Sheet, and the sheets transmitted to the Public Service Company Medical Department after recovery phase (as declared by the Corporate Emergency Director) has been initiated. This is the responsibility of the Fort St. Vrain Radiological Assessment Coordinator, or his designee.
- 2.5 Dosage is one tablet, once a day, for ten days. Directions to emergency workers receiving KI are shown in Figure 2. This instruction sheet is stored with the stockpiled KI tablets maintained in the Respiratory Issue Locker (Turbine Deck), Personnel Control Center, and Technical Support Center Emergency Kits, and should be distributed to personnel receiving KI tablets.

### 3.0 Responsibilities

#### 3.1 Radiological Assessment Coordinator

- 3.1.1 Direct the distribution of KI.
- 3.1.2 Consult with Public Service Company Medical Department regarding KI issue.
- 3.1.3 Assure the forwarding of all KI distribution records to the Public Service Company Medical Department.
- 3.1.4 Maintenance of fresh stockpile of KI in Respiratory Issue Lockers on Turbine Deck and in main Personnel Control Center Emergency Kits.

#### 3.2 Personnel Control Center Director

- 3.2.1 Coordinate the access of emergency workers to areas affected by airborne contamination with the most senior Health Physics representative at the Technical Support Center.
- 3.2.2 Provide KI tablets to designated emergency team members, only as instructed by the Technical Support Center Health Physics representative.

### 3.3 Health Physics (Technical Support Center)

- 3.3.1 Confer with the Radiological Assessment Coordinator at the Forward Command Post regarding projected (or estimated) thyroid inhalation doses.
- 3.3.2 Perform calculations to project (or estimate) emergency worker thyroid doses.
- 3.3.3 Direct site Health Physics technicians or the Personnel Control Center Director in the distribution of KI tablets to specified workers.

### 4.0 References

- 4.1 NCRP 55, Protection of the Thyroid Gland in the Event of Releases of Radioiodine, National Council on Radiation Protection and Measurements, 1977.
- 4.2 Patient Package Insert for THYROBLOCK<sup>TM</sup>, Wallace Laboratories, October 1979.

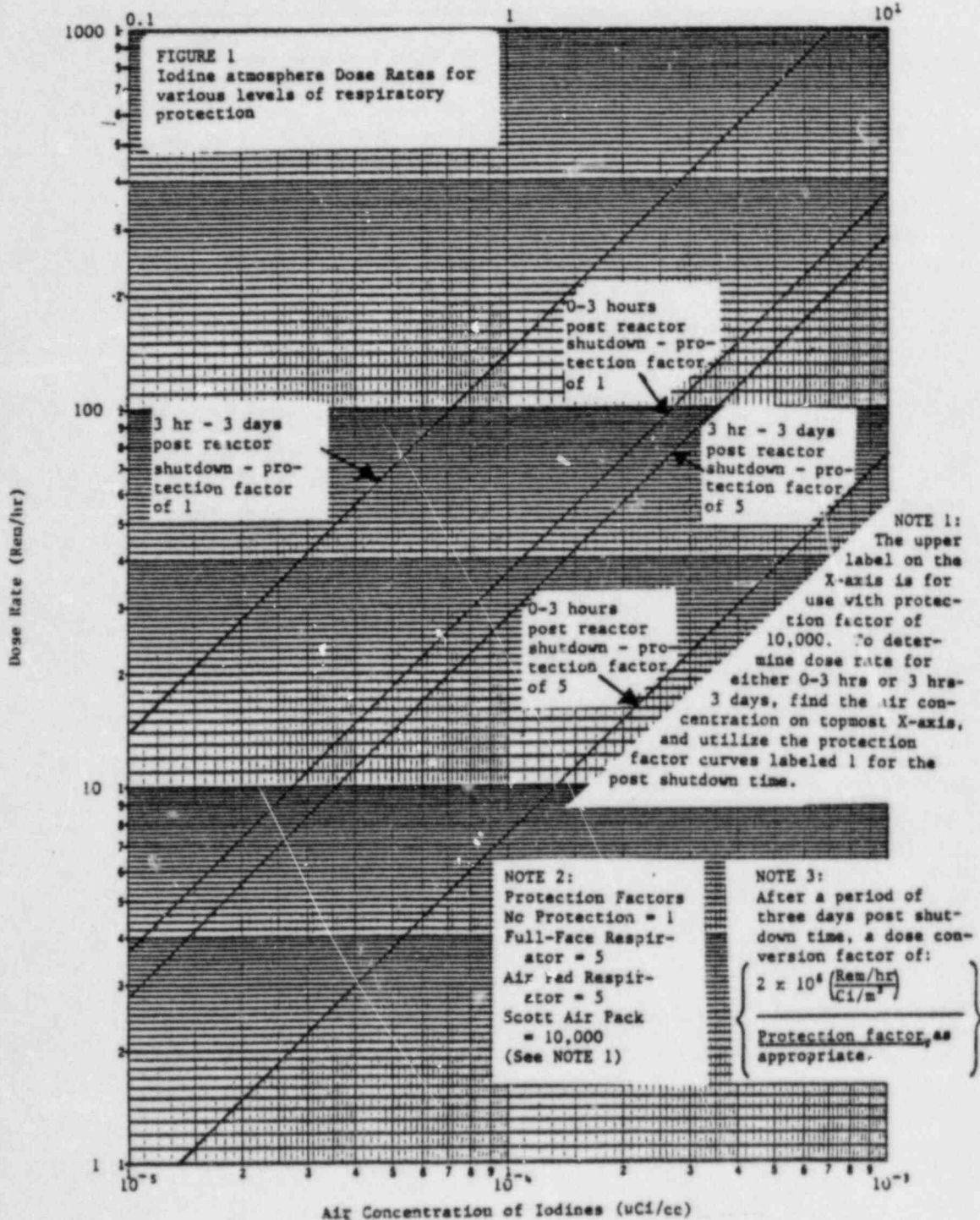
### 5.0 Referenced or Supporting Procedures

- 5.1 RERP-EXP, Emergency Exposure Guidelines
- 5.2 RERP-ORG, FSV Emergency Organization and Responsibilities



FIGURE 1

Air Concentration of Radioiodines ( $\mu\text{Ci/cc}$ ) for use with Protection Factor = 10,000 (See NOTE 1 for use)





INSTRUCTIONS

To be used only in Radiation Emergency.

DIRECTIONS FOR USE

Use only as directed by Fort St. Vrain management in the event of a radiation emergency.

DOSE

Adults and children over one year of age. One tablet potassium iodide a day for up to ten days. You will be informed by Health Physics as to how long to take tablets depending upon the amount of radiation released.

Do not take more than one tablet a day, as it will not increase the beneficial effect and may increase danger of side effects.

HOW POTASSIUM IODIDE WORKS

Certain forms of iodine help your thyroid gland work properly. Most people get the iodine they need from foods, such as iodized salt or fish. The thyroid can "store" or hold only a certain amount of iodine.

In radiation emergency, radioactive iodine may be released into the air. This material may be breathed or swallowed. It may enter the thyroid gland and damage it. The damage would probably not show itself for several years. Children are most likely to have thyroid damage.

If you take potassium iodide, it will fill-up your thyroid gland. This reduces the chance that harmful radioactive iodine will enter the thyroid gland.

WHO SHOULD NOT TAKE POTASSIUM IODINE

The only people who should not take potassium iodide are people who know they are allergic to iodide. You may take potassium iodide even if you are taking medicines for a thyroid problem (for example, a thyroid hormone or antithyroid drug). Pregnant and nursing women, babies, and children may also take this drug.

HOW AND WHEN TO TAKE POTASSIUM IODIDE

Potassium Iodide should be taken as soon as possible after Public Service Company officials tell you. You should take one dose every 24 hours. Taking more than one tablet per day will not help you, because the thyroid can "hold" only limited amounts of iodine. Larger doses will increase the risk of side effects. You will be told how long to take the drug, which may vary from one to ten days.

SIDE EFFECTS

Usually, side effects of potassium iodide happen when people take higher doses for a long time. You should be careful not to take more than the recommended dose, or take it for longer than you are told. Side effects are unlikely because of the low dose and the short time you will be taking the drug.

Possible side effects include skin rashes, swelling of the salivary glands, and "iodism" (metallic taste, burning mouth and throat, sore teeth and gums, symptoms of a head cold, and sometimes stomach upset and diarrhea).

WHAT TO DO IF SIDE EFFECTS OCCUR

If the side effects are severe, or if you have an allergic reaction, stop taking potassium iodide and contact the Public Service Company Medical Department or a physician for further instructions.



WORKSHEET 1

THYROID BLOCKING AGENT ADMINISTRATION RECORD SHEET\*

<u>DATE</u>	<u>TIME</u>	<u>NAME</u>	<u>FILM BADGE NO.</u>	<u>NUMBER OF TABLETS RECEIVED</u>	<u>RESPIRATORY PROTECTION USED**</u>

\* Transmit completed sheets to the Radiological Assessment Coordinator.

\*\* Use code numbers as follows: 1=None, 2=Full Face Respirator, 3=Scott Air Pack, and 4=Air Fed Respirator.



Work/Datasheet/Checklist Control List

<u>Worksheet No.</u>	<u>Title</u>	<u>Number Copies</u>
1	Thyroid Blocking Agent Administration Record Sheet	5

<u>Datasheet No.</u>		
None	N/A	N/A

<u>Checklist No.</u>		
None	N/A	N/A



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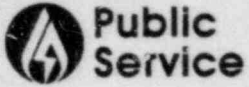
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WORKSHEET 1

THYROID BLOCKING AGENT ADMINISTRATION RECORD SHEET\*

DATE	TIME	NAME	FILM BADGE NO.	NUMBER OF TABLETS RECEIVED	RESPIRATORY PROTECTION USED**

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THYROID BLOCKING AGENT ADMINISTRATION RECORD SHEET\*

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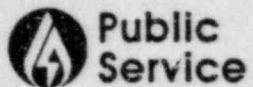
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WORKSHEET 1THYROID BLOCKING AGENT ADMINISTRATION RECORD SHEET\*

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\* Transmit completed sheets to the Radiological Assessment Coordinator.

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WORKSHEET 1

THYROID BLOCKING AGENT ADMINISTRATION RECORD SHEET\*

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<u>Worksheet No.</u>	<u>Title</u>	<u>Number Copies</u>
1	Thyroid Blocking Agent Administration Record Sheet	5

<u>Datasheet No.</u>		
None	N/A	N/A

<u>Checklist No.</u>		
None	N/A	N/A

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\* Nuclear Documents Specialist will transmit this form to the originating individual/department upon completion of this form to notify users that the procedure has been updated and that all worksheets, checklists, and datasheets are present in the required number of copies.

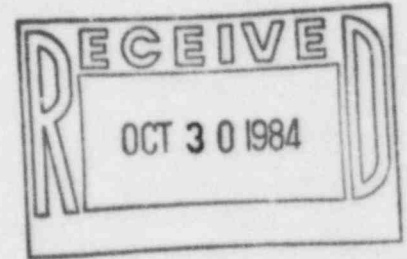


# Public Service Company of Colorado

16805 WCR 19 1/2, Platteville, Colorado 80651

October 24, 1984  
Fort St. Vrain  
Unit No. 1  
P-84446

Mr. Eric H. Johnson  
Reactor Project Branch Chief  
U.S. Nuclear Regulatory Commission  
611 Ryan Plaza Drive, Suite 1000  
Arlington, TX 76011



Dear Mr. Johnson:

We are transmitting herein revisions to several emergency preparedness related documents. The changes affect the following document binders:

#### Station RERP Implementing Procedures

In the Station RERP Implementing Procedures, the general format for procedures with worksheets is to file the procedure body under the tab marked with the procedure title, and the worksheets under the tab marked "Attachments," which immediately follows the procedure tab. The following procedures are being transmitted for filing in the station RERP Implementing Procedures.

RERP-ECP, Issue 9 (2 copies)  
RERP-ORG, Issue 7 (2 copies)  
RERP-SEOC, Issue 9 (2 copies)  
RERP-THYROID Issue 4 (2 copies)

If there is confusion as to which issue is most recent whenever multiple copies are received in a short period of time, the highest issue number is always the most recent issue of a given procedure.

If difficulties or questions arise in filing these procedures, please feel free to contact Ms. Sharilyn Johnson at (303) 785-2224, extension 275 for assistance.

Sincerely,

J. W. Gahm  
Manager, Nuclear Production

JWG/clm

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TO RIV  
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