

COMANCHE PEAK STEAM ELECTRIC STATION

EMERGENCY PLAN MANUAL

**ACTIVATION AND OPERATION OF THE  
TECHNICAL SUPPORT CENTER (TSC)**

PROCEDURE NO. EPP-204

REVISION NO. 14

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**EMERGENCY PLANNING MANAGER**

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-204
ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)	REVISION NO. 14	PAGE 2 OF 14

**1.0 PURPOSE**

- 1.1 This procedure provides guidance for the activation and operation of the Technical Support Center (TSC). [C-04018]
- 1.2 This procedure also identifies responsibilities of personnel assigned to the TSC and the Control Room Emergency Response Organization (ERO) augmentees.

**2.0 APPLICABILITY**

- 2.1 This procedure becomes effective upon declaration of an Alert or higher emergency classification.
- 2.2 This procedure may become effective upon declaration of a Notification of Unusual Event, if the Emergency Coordinator directs the activation of the TSC.
- 2.3 This procedure is applicable to TSC personnel and Control Room ERO augmentees.

**3.0 DEFINITIONS**

- 3.1 Activation - Condition where the TSC is staffed with the minimum personnel and capable of performing the functions defined in the CPSES Emergency Plan Table 1.1.

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-204
ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)	REVISION NO. 14	PAGE 3 OF 14

## 4.0 INSTRUCTIONS

### 4.1 Responsibilities

**NOTE:** Individual task lists, including specific steps to accomplish these tasks, are found in the Position Assistance Documents (PADs).

#### 4.1.1 TSC Communications Coordinator [C-05692]

- Ensure TSC communications equipment is functioning properly.
- Assign administrative assistance within the TSC.
- Assume the responsibilities of EOF Logistical Support Coordinator and EOF Communications Coordinator prior to activation of the EOF.
- Direct the activities of the communicators assigned to the TSC.
- Develop a shift schedule, as conditions allow.

#### 4.1.2 TSC Communicator

- Notify Emergency Response Organization of emergency conditions.
- Notify state and local officials of emergency conditions.

#### 4.1.3 Emergency Planning Advisor

- Assist the ERO activate the TSC.

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-204
ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)	REVISION NO. 14	PAGE 4 OF 14

4.1.3 • Provide expertise and information to the ERO personnel concerning:  
(Continued)

- CPSES and offsite supporting emergency facilities capabilities.
- communication capabilities.
- personnel and equipment resources.
- procedural requirements.

4.1.4 TSC Engineering Team Coordinator [C-05810]

- Directs the activities of the TSC Engineering Team to assess the plant status and the severity of the emergency condition.
- Verify that engineering support personnel of various disciplines are in position.
- Advise the TSC Manager on technical matters relating to Nuclear Steam Supply System, fuel integrity, plant electrical systems, plant equipment, and plant instrumentation.

4.1.5 TSC Engineering Team

- Perform core damage assessment and core reactivity monitoring.
- Monitor Control Room procedure use relative to critical safety functions.
- Calculate shutdown margin.
- Assess plant status and core thermal hydraulics.
- Evaluate operational and engineering data, and develop corrective actions.
- Evaluate Severe Accident Management Guidelines.

<b>CPSES EMERGENCY PLAN MANUAL</b>		<b>PROCEDURE NO. EPP-204</b>
<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)</b>	<b>REVISION NO. 14</b>	<b>PAGE 5 OF 14</b>

4.1.6 TSC ENS Communicator

- Notify Nuclear Regulatory Commission of emergency conditions.

4.1.7 TSC ERF Computer Operator

- Activate the Emergency Response Data Systems (ERDS).
- Obtain operational data.
- Determine plant parameter trends.

4.1.8 TSC Manager [C-05833]

- Relieve Control Room personnel of administrative functions and decisions.
- Direct and coordinate onsite activities conducted from the TSC.
- Direct the operation of the TSC.
- Receive and distribute plant status and technical information received in the TSC.
- Maintain communications with the Emergency Coordinator.
- Direct the evacuation of the TSC.
- Conduct initial and continuous accountability of TSC personnel.
- Initiate personnel rescue or emergency repair and damage control operations as appropriate
- Provide input to NRC representatives stationed at the TSC regarding the emergency.

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-204
ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)	REVISION NO. 14	PAGE 6 OF 14

4.1.8 Continued

- Coordinating emergency repair and damage control activities through the OSC Manager.
- Advise TSC personnel regarding the status of onsite emergency repair and damage control activities.
- Advise the OSC Manager regarding any changes in plant conditions that may impact emergency repair and damage control activities.
- Coordinate the response of Severe Accident Management Guidelines to include:
  - recommend strategy to be implemented by the Control Room (for strategies involving intentional fission product releases, obtain concurrence from EOF Manager.)
  - Terminate strategy after it has been implemented
  - Terminate use of Severe Accident Management Guidelines after a controlled stable state is achieved.

4.1.9 TSC Onsite Radiological Assessment Coordinator (ONRAC) [C-05817]

- Maintain radiological safety of onsite personnel.
- Accumulate, tabulate, and evaluate data regarding plant radiological conditions.
- Ensure procedures specifying the use of protective clothing, respiratory protection, decontamination techniques, and access control are implemented.

<b>CPSES EMERGENCY PLAN MANUAL</b>		<b>PROCEDURE NO. EPP-204</b>
<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)</b>	<b>REVISION NO. 14</b>	<b>PAGE 7 OF 14</b>

4.1.9 Continued

- Ensure bioassay procedures are implemented as appropriate.
- Ensure that personnel radiation exposures are maintained in accordance with 10 CFR, Part 20 limits.
- Ensure sampling and radiological survey procedures are implemented as required, and resultant information is available to personnel in the EOF, TSC, and Control Room.
- Assist in planning personnel rescue operations, if necessary.
- Assist in the transfer of injured or non-essential personnel if radiation or contamination hazards are involved.
- Review and evaluate onsite radiological data, including appropriate chemical and radio-chemical analysis results.
- Ensure records of onsite emergency response activities, including personnel dosimetry records are maintained for the duration of the emergency situation.
- Assume the responsibilities of the EOF Radiation Protection Coordinator, prior to activation of the EOF.
- Provides back-up dose assessment capabilities.

4.1.10 TSC Operations Coordinator

- Provide information regarding plant conditions and operational manipulations to TSC staff.

<b>CPSES EMERGENCY PLAN MANUAL</b>		<b>PROCEDURE NO. EPP-204</b>
<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)</b>	<b>REVISION NO. 14</b>	<b>PAGE 8 OF 14</b>

4.1.10 Continued

- Provide TSC recommendations to the Control Room regarding actions to mitigate the accident.
- Coordinate emergency repair and damage control activities.

4.1.11 TSC Operations Status Board Recorder

- Post and update the Operations Status Board.

4.1.12 TSC Radiological Status Board Recorder

- Post and update the Radiological Status Board.

4.1.13 TSC Sequence of Events Board Recorder

- Post and update the Sequence of Events Board.

4.1.14 Control Room Operations Advisor

- Reports to Control Room at Alert or higher emergency classification.
- Provides technical assistance, as required, to Shift Manager.
- Keeps the TSC Operations Coordinator informed of plant and operational status.
- Directs Control Room requests for support to the TSC Operations Coordinator.



CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-204
ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)	REVISION NO. 14	PAGE 9 OF 14

4.1.15 Control Room Operational Status Board Communicator

- Reports to the Control Room at Alert or higher emergency classification.
- Provides information to the TSC and EOF Operational Status Board Recorders.

4.2 Accident Assessment

4.2.1 Guidelines for accident classification are provided in EPP-201, "Assessment of Emergency Action Levels, Emergency Classification and Plan Activation."

4.2.2 Forms EPP-204-4, "Operational Trend Sheet" and EPP-204-5, "Radiological Trend Sheet" may be used to trend data manually if computer systems are unavailable.

4.2.3 Guidelines for core damage assessment are provided in EPP-312, "Core Damage Assessment."

4.3 Accountability

4.3.1 Initial and continuous accountability of personnel in the TSC shall be completed per EPP-314, "Evacuation and Accountability."

4.4 Activation

4.4.1 Personnel assigned to the TSC are notified at an ALERT or higher classification, and should activate the facility as soon as possible with a goal of sixty (60) minutes. [C-23555,-06257]

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-204
ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)	REVISION NO. 14	PAGE 10 OF 14

4.4.2 The following positions must be staffed to declare the facility activated.

- TSC Manager
- TSC Onsite Radiological Assessment Coordinator
- TSC Communications Coordinator
- TSC Engineering Team Coordinator
- TSC Engineering Team (4)

NOTE: Other individuals on the ERO may fill these positions if equally qualified.

4.4.3 The initial staff will be selected from arriving TSC personnel.

4.4.3.1 Personnel selected to remain in the TSC should log in on the TSC Staffing Board.

4.4.3.2 Extra personnel should report to the Emergency Response Organization Staging Area.

4.4.4 EPP-204-1, "Technical Support Center Checklist" should be used to activate the facility.

#### 4.5 Administrative

4.5.1 TSC personnel should maintain account of their activities on Emergency Response Organization Activities Log Sheet, if directed by their Position Assistance Documents (PADs).

4.5.2 Personnel should record name, date, and time on other documents.

4.5.3 All documents generated in an emergency should be transmitted to the Emergency Planning Manager.

4.5.4 Functions (or tasks) which have been transferred from the TSC to another facility/individual do not have to be continued in the TSC except as needed for information or support.

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-204
ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)	REVISION NO. 14	PAGE 11 OF 14

#### 4.6 Communications

4.6.1 Communication Systems in the TSC are described in EPP-202, "Emergency Communications Systems and Equipment"

4.6.2 Telephone numbers for emergency communications are given in the Emergency Facility Telephone Directory.

#### 4.7 Emergency Direction and Control

4.7.1 Transfer of the position of Emergency Coordinator is conducted as described in EPP-109, "Duties and Responsibilities of the Emergency Coordinator/Recovery Manager."

#### 4.8 Emergency Repair and Damage Control

4.8.1 Emergency repair activities are described in EPP-116, "Emergency Repair & Damage Control and Immediate Entries."

#### 4.9 Notifications

4.9.1 Onsite and offsite notifications are described in EPP-203, "Notifications."

#### 4.10 Protective Measures

4.10.1 TSC personnel are kept apprised of radiological conditions and protective measures. [C-06784]

4.10.2 Thyroid Blocking Agent - Issue of a thyroid blocking agent is described in EPP-306, "Use of Thyroid Blocking Agents"

4.10.3 Guidelines for calculating offsite dose rates are found in EPP-303, "Operation of Computer Based, Emergency Dose Assessment System."

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-204
ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)	REVISION NO. 14	PAGE 12 OF 14

4.10.4 Guidelines for developing protective action recommendations are found in EPP-304, "Protective Action Recommendations."

4.10.5 The following conditions may cause relocation of the TSC:

- hazardous radiation levels
- power failure
- earthquake or other natural phenomena
- conditions which pose unacceptable risk to personnel safety

4.10.6 Personnel should relocate to the Emergency Operations Facility (EOF) or other location designated by the TSC Manager.

#### 4.11 Radiological Controls

4.11.1 Guidelines for the dispatching of radiological surveillance teams are described in EPP-309, "Onsite/In-Plant Radiological Surveys and Offsite Radiological Monitoring."

4.11.2 Habitability of the TSC is continuously monitored using an area radiation monitor and a portable continuous radioiodine monitor capable of detecting radioiodine in concentrations as low as 1.0E-07 uCi/cc. [C-05718, -00361]

4.11.3 If required, a contamination control point should be established at the one entrance to the TSC.

4.11.4 Guidelines for issue and retrieval of personnel dosimetry devices are provided in EPP-305, "Emergency Exposure Guidelines and Personnel Dosimetry."

#### 4.12 Recovery

4.12.1 Operation of the TSC should continue until a recovery plan is drafted or the event is closed out per EPP-121, "Reentry, Recovery and Closeout."

<b>CPSES EMERGENCY PLAN MANUAL</b>		<b>PROCEDURE NO. EPP-204</b>
<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)</b>	<b>REVISION NO. 14</b>	<b>PAGE 13 OF 14</b>

## **5.0 REFERENCES**

- 5.1 Comanche Peak Steam Electric Station (CPSES) Emergency Plan
- 5.2 STA-202, "Administrative Control of CPSES Nuclear Engineering and Operations Procedures"
- 5.3 EPP-109, "Duties and Responsibilities of the Emergency Coordinator/Recovery Manager"
- 5.4 EPP-116, "Emergency Repair and Damage Control and Immediate Entries"
- 5.6 EPP-201, "Assessment of Emergency Action Levels, Emergency Classification and Plan Activation."
- 5.7 EPP-202, "Emergency Communications Systems and Equipment"
- 5.8 EPP-203, "Notifications"
- 5.9 EPP-303, "Operation of Computer Based, Emergency Dose Assessment System"
- 5.10 EPP-304, "Protective Action Recommendations"
- 5.11 EPP-305, "Emergency Exposure Guidelines and Personnel Dosimetry"
- 5.12 EPP-306, "Use of Thyroid Blocking Agents"
- 5.13 EPP-312, "Core Damage Assessment"
- 5.14 EPP-314, "Evacuation and Accountability"

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-204
ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)	REVISION NO. 14	PAGE 14 OF 14

**6.0**    ATTACHMENTS/FORMS

6.1    Attachments

none

6.2    Forms

6.2.1    EPP-204-1,"Technical Support Center Checklist"

6.2.2    EPP-204-4,"Operational Trend Sheet"

6.2.3    EPP-204-5,"Radiological Trend Sheet"