



TXU Electric
Comanche Peak
Steam Electric Station
P.O. Box 1002
Glen Rose, TX 76043
Tel: 254 897 8920
Fax: 254 897 6652
lterry1@txu.com

C. Lance Terry
Senior Vice President & Principal Nuclear Officer

Log # TXX-00002
File # 10013 w/o enc.
Ref. # 10CFR50.54(q)
10CFR50 App. E

January 12, 2000

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

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSSES)
DOCKET NOS. 50-445 AND 50-446
TRANSMITTAL OF REVISED EMERGENCY PLAN PROCEDURES

Gentlemen:

Enclosed is (1) copy of each of the Emergency Plan Procedures (EPP) (Controlled Copy Number 754) listed on the attachment.

If you have any question regarding these changes, please contact Mr. Connie L. Wilkerson at (254) 897-0144.

A045

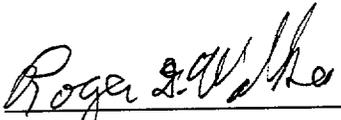
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This communication contains no new licensing basis commitments regarding CPSES Units 1 and 2.

Sincerely,


C. L. Terry

By: 
Roger D. Walker
Regulatory Affairs Manager

GPJ/gj
Attachment
Enclosures

- c - Mr. E. W. Merschoff, Region IV (2 copies of enclosures; Control Nos. 754A and 754B)
- Mr. J. I. Tapia, Region IV (w/o enclosure)
- Resident Inspectors (1) (Information Only Copies of enclosures)
- Mr. D. H. Jaffe, NRR (1) (Information Only Copy of enclosures)

Enclosed Emergency Plan Procedures (EPPs)

Procedure Index, Revision 271	(December 14, 1999)
EPP-100, Revision 3, "Maintaining Emergency Preparedness"	(December 17, 1999)
EPP-112, Revision 9 (Retired)	(December 17, 1999)
PCN EPP-203-R13-2	(December 17, 1999)
PCN EPP-204-R14-1	(December 17, 1999)
PCN EPP-205-R11-3	(December 17, 1999)
EPP-206, Revision 14, "Activation and Operation of the Emergency Operations Facility (EOF)"	(December 17, 1999)
PCN EPP-207-R10-2	(December 17, 1999)
PCN EPP-207-R10-3	(December 17, 1999)
PCN EPP-309-R12-1	(December 17, 1999)
Form PCN EPP-204-1 R11	(December 17, 1999)
TRA-105, Revision 17, Emergency Preparedness Training	(December 17, 1999)

() denotes effective date.

COMANCHE PEAK STEAM ELECTRIC STATION

EMERGENCY PLAN MANUAL

PROCEDURE INDEX

REVISION 271

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PROCEDURE NO.	REVISION NO.	PROCEDURE TITLE	REVIEW DATE
EPP-100 (EFF. 12/17/99)	3	MAINTAINING EMERGENCY PREPAREDNESS	12/17/01
* EPP-109 (EFF. 09/27/97)	12	DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR/RECOVERY MANAGER	09/27/01
* EPP-116 (EFF. 05/02/97)	6	EMERGENCY REPAIR & DAMAGE CONTROL AND IMMEDIATE ENTRIES	04/28/00
* EPP-121 (EFF. 10/16/91)	7	REENTRY, RECOVERY AND CLOSEOUT	08/27/01
EPP-201 (EFF. 06/25/96)	10	ASSESSMENT OF EMERGENCY ACTION LEVELS, EMERGENCY CLASSIFICATION AND PLAN ACTIVATION	06/22/00
* EPP-202 (EFF. 09/24/98)	6	EMERGENCY COMMUNICATIONS SYSTEMS AND EQUIPMENT	09/24/00
EPP-203 (EFF. 10/01/96)	13	NOTIFICATIONS	07/07/01
EPP-204 (EFF. 09/08/99)	14	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)	09/08/01
* EPP-205 (EFF. 05/02/97)	11	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	04/28/00
EPP-206 (EFF. 12/17/99)	14	ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY (EOF)	12/17/01
* EPP-207 (EFF. 09/27/97)	10	ACTIVATION AND OPERATION OF THE NEWS CENTER	09/27/01
* EPP-303 (EFF. 07/16/99)	12	OPERATION OF COMPUTER BASED, EMERGENCY DOSE ASSESSMENT SYSTEM	07/16/01
* EPP-304 (EFF. 02/05/99)	16	PROTECTIVE ACTION RECOMMENDATIONS	02/05/01

... MORE ...

COMANCHE PEAK STEAM ELECTRIC STATION

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* EPP-305 (EFF. 10/01/96)	11	EMERGENCY EXPOSURE GUIDELINES AND PERSONNEL DOSIMETRY	08/07/00
* EPP-306 (EFF. 10/01/96)	10	USE OF THYROID BLOCKING AGENTS	09/03/01
* EPP-309 (EFF. 10/20/98)	12	ONSITE/IN-PLANT RADIOLOGICAL SURVEYS AND OFFSITE RADIOLOGICAL MONITORING	10/20/00
* EPP-312 (EFF. 12/01/89)	1	CORE DAMAGE ASSESSMENT	07/02/00
* EPP-314 (EFF. 09/27/97)	7	EVACUATION AND ACCOUNTABILITY	09/02/01

COMANCHE PEAK STEAM ELECTRIC STATION

EMERGENCY PLAN MANUAL

MAINTAINING EMERGENCY PREPAREDNESS

PROCEDURE NO. EPP-100

REVISION NO. 3

EFFECTIVE DATE: 12/17/99



PREPARED BY (Print): Bill Nix EXT: 5256

TECHNICAL REVIEW BY (Print): Ted Robison EXT: 5476

APPROVED BY: D.N. Hood *[Signature]* FOR DN HOOD DATE: 12/13/99
EMERGENCY PANNING MANAGER

<p style="text-align: center;">CPSES EMERGENCY PLAN MANUAL</p>		<p style="text-align: right;">PROCEDURE NO. EPP-100</p>
<p style="text-align: center;">MAINTAINING EMERGENCY PREPAREDNESS</p>	<p style="text-align: center;">REVISION NO. 3</p>	<p style="text-align: right;">PAGE 2 OF 33</p>
<p>1.0 <u>PURPOSE</u></p> <p>This procedure identifies tasks required to maintain Emergency Preparedness at the Comanche Peak Steam Electric Station (CPSES).</p> <p>2.0 <u>APPLICABILITY</u></p> <p>2.1 This procedure applies to members of the CPSES Emergency Planning Staff.</p> <p>2.2 Other CPSES personnel may be called on to assist Emergency Planning Staff members on an "as needed" basis to help complete specific tasks.</p> <p>3.0 <u>DEFINITIONS/ACRONYMS</u></p> <p>None</p> <p>4.0 <u>INSTRUCTIONS</u></p> <p>4.1 <u>Responsibilities</u></p> <p>4.1.1 The Emergency Planning Manager is responsible for:</p> <ul style="list-style-type: none"> ● Coordinating Emergency Preparedness at CPSES ● Maintaining this procedure current ● Ensuring tasks identified in this procedure are accomplished within the appropriate time frame. ● Maintaining the proficiency of the Emergency Planning staff by scheduling their participation in training courses, drills and exercises, seminars, workshops, plant outages, and assistance visits to other nuclear facilities. <p>[C-05789]</p> <p>4.1.2 The Emergency Planning Staff is responsible for completing tasks in accordance with this procedure and approved EP Staff Guidelines.</p>		

4.2.5 Continued

- **MAINTAIN** emergency equipment and supplies Attachment 3
- **COORDINATE** use of designated emergency use vehicles

- **MAINTAIN** communications systems Attachment 4
- **MAINTAIN** the Emergency Drill Program Attachment 5
- **MAINTAIN** the Emergency Exercise Program Attachment 6
- **MAINTAIN** the Emergency Preparedness Public Information Program Attachment 7
- **MAINTAIN** the Alert and Notification System Attachment 8
- **MAINTAIN** the Emergency Preparedness Training Program TRA-105

5.0 REFERENCES

5.1 Development References

- 5.1.1 MSE-PO-9328, "Emergency Alerting System Inspection"
- 5.1.2 NUREG-1022, "Licensee Event Report System, Supp.1"
- 5.1.3 CPSES Emergency Plan
- 5.1.4 "CPSES Site Specific Offsite Radiological Emergency Preparedness Alert and Notification System Quality Assurance Verification, FEMA"
- 5.1.5 Title 10, Code of Federal Regulations, Part 50.47 and 50.54(q)

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5.1.6	Title 10, Code of Federal Regulations, Appendix E	
5.1.7	CPSES/FSAR, II.B	
5.1.8	NUREG-0654/FEMA-REP 1	
5.2	<u>Performance References</u>	
5.2.1	STA-106.	“Nuclear Training Records”
5.2.2	STA-119.	“Changes to CPSES Operating License Prerequisite Documents”
5.2.3	STA-202.	“Administrative Control of CPSES Nuclear Production Procedures”
5.2.4	STA-302.	“Station Records”
5.2.5	STA-307.	“Nuclear Operations Forms Control”
5.2.6	STA-501.	“Non-Routine Reporting”
5.2.7	TRA-104.	“Fire Protection Training”
5.2.8	TRA-105.	“Emergency Preparedness Training”
5.2.9	CHM-111.	“Post Accident Sampling Program”
5.2.10	CHM-512A.	“Operation of the Unit 1 Reactor Coolant Post Accident Sampling System”
5.2.11	CHM-512B.	“Operation of the Unit 2 Reactor Coolant Post Accident Sampling System”

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5.2.12	CHM-515A, "Operation of the Unit 1 Containment Air Post Accident Sampling System"	
5.1.13	CHM-515B, "Operation of the Unit 2 Containment Air Post Accident Sampling System"	
6.0	<u>ATTACHMENTS/FORMS</u>	
6.1	<u>Attachments</u>	
6.1.1	Attachment 1, "Maintenance of the CPSES Emergency Plan and Associated Procedures"	
6.1.2	Attachment 2, "Administrative Requirements"	
6.1.3	Attachment 3, "Maintenance and Inventory of Emergency Equipment and Supplies"	
6.1.4	Attachment 4, "Communications Systems Testing and Maintenance"	
6.1.5	Attachment 5, "Emergency Drill Program"	
6.1.6	Attachment 6, "Emergency Exercise Program"	
6.1.7	Attachment 7, "Public Information Activities to Support Emergency Preparedness"	
6.1.8	Attachment 8, "Alert and Notification System Surveillance and Reports"	

<p style="text-align: center;">CPSES EMERGENCY PLAN MANUAL</p>		<p style="text-align: center;">PROCEDURE NO. EPP-100</p>
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<p>6.2 <u>Forms</u></p> <p>6.2.1 EPP-100-1. “10 CFR 50.54(q) Evaluation”</p> <p>6.2.2 EPP-100-2. “Activity Summary”</p> <p>6.2.3 EPP-100-3. “Quarterly Alert and Notification System Operability Summary”</p> <p>7.0 <u>RECORDS</u></p> <p>When completed, the following forms generated in response to this procedure should be dispositioned in accordance with STA-302. “Station Records.”</p> <p>7.1 EPP-100-1. “10 CFR 50.54(q) Evaluation”</p> <p>7.2 EPP-100-2. “Activity Summary”</p> <p>7.3 EPP-100-3. “Quarterly Alert and Notification System Operability Summary”</p>		

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-100
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ATTACHMENT 1
MAINTENANCE OF THE CPSES EMERGENCY PLAN
AND ASSOCIATED PROCEDURES

PAGE 1 OF 3

1. PURPOSE

This attachment identifies the requirements for preparation and maintenance of the CPSES Emergency Plan, Letters of Agreement, Emergency Plan Procedures (EPPs), Position Assistance Documents (PADs), Severe Accident Management Guidelines (SAMGs), and the EP (Emergency Planning) Staff Guidelines.

2. The Emergency Planning Manager is responsible for:

- Annual review and maintenance of the CPSES Emergency Plan. [C-03192]
- Annual review and maintenance of the Letters of Agreement: [C-27153]
- Preparation and maintenance of the Emergency Plan Procedures: [C-03192]
- Ensuring proposed changes to the Emergency Plan do not decrease the effectiveness of the Plan, unless they are approved by the Nuclear Regulatory Commission prior to implementation:
- Preparing, reviewing, revising, approving, controlling, and distributing the Position Assistance Documents (PADs);
- Preparing, reviewing, revising, approving, controlling, and distributing EP Staff Guidelines; and
- Preparing, reviewing, revising, approving, controlling, and distributing Severe Accident Management Guidelines.

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-100
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ATTACHMENT 1
MAINTENANCE OF THE CPSES EMERGENCY PLAN
AND ASSOCIATED PROCEDURES

PAGE 2 OF 3

3. The CPSES Emergency Plan shall be reviewed, revised, submitted, and approved in accordance with STA-119. [C-05657]
 - Revisions to the CPSES Emergency Plan that will not be submitted to the NRC for pre-approval shall be evaluated to determine if the revision has decreased the effectiveness of the Emergency Plan.
 - The evaluation should be conducted using Form EPP-100-1;
 - Any revision which is evaluated to decrease the effectiveness of the Emergency Plan shall be approved by the NRC prior to implementation.
 - Approved revisions to the Emergency Plan should be controlled and distributed by TU Electric Regulatory Affairs in accordance with their procedures.
 - CPSES Emergency Plan shall be distributed as authorized by the Emergency Planning Manager. Distribution should be to those organizations or individuals responsible for implementing or overseeing the Emergency Preparedness Program.

4. Emergency Plan Procedures shall be prepared, reviewed, revised, submitted, and approved in accordance with STA-202. [C-05657]
 - Comments, suggestions, recommendations, etc. should be solicited from the Emergency Response Organization, reviewed for applicability, and included in the current procedure revisions, when applicable;
 - Include commitment numbers in the procedure, using the following format: [C-XXXX] (see examples in this procedure);

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ATTACHMENT 1
MAINTENANCE OF THE CPSES EMERGENCY PLAN
AND ASSOCIATED PROCEDURES

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- Forms, associated with Emergency Plan Procedures, should be prepared and controlled in accordance with STA-307:
 - CPSES Emergency Plan Procedures shall be distributed as authorized by the Emergency Planning Manager. Distribution should be to those organizations or individuals responsible for implementing or overseeing the Emergency Preparedness Program.
5. Position Assistance Documents (PADs) should be made available to provide the Emergency Response Organization position holders with the materials necessary to perform the tasks assigned to the position.
- PADs should be prepared, reviewed, revised, approved, and distributed in accordance with EP Staff Guidelines:
 - EP Staff Guidelines should direct personnel preparing PADs to review the PAD to ensure human factors engineering has been considered, including such items as tabbing, color coding, different font styles, and the length and layout of the material.
6. EP Staff Guidelines should be used, when required, to accomplish specific emergency preparedness maintenance tasks.
- EP Staff Guidelines should be prepared, reviewed, revised, approved, and distributed in accordance with EP Staff Guidelines.
7. Severe Accident Management Guidelines should be prepared, reviewed, revised, approved, and distributed in accordance with EP staff guidelines.

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ATTACHMENT 2
ADMINISTRATIVE REQUIREMENTS

PAGE 1 OF 3

1. PURPOSE

This attachment identifies the requirements for emergency preparedness administrative tasks. Included are:

- Selection and assignment of Emergency Response Organization personnel;
- Notification of changes made to Emergency Response Organization personnel;
- Maintenance of the Emergency Facility Telephone Directory;
- Independent reviews of the Emergency Preparedness Program;
- The Emergency Planning Action Item Tracking System and Master Calendar/Schedule.
- Review of Emergency Action Levels.

2. The Emergency Planning Manager is responsible for:

- Reviewing the Emergency Response Organization Roster and selecting qualified replacement personnel, as needed, at least once per calendar quarter;
- Providing notification of changes to the CPSES Emergency Plan and associated procedures to applicable Emergency Response Organization members;
- Ensuring that the Emergency Facility Telephone Directory is reviewed, and revised as necessary, on a quarterly basis;

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**ATTACHMENT 2
ADMINISTRATIVE REQUIREMENTS**

PAGE 2 OF 3

- Coordinating independent reviews of the Emergency Preparedness Program:
 - Maintaining the Emergency Planning Action Item Tracking System and Master Schedule.
 - Coordinating review of Emergency Action Levels (EALs).
3. Review of the Emergency Response Organization Roster and selection and assignment of personnel to the roster shall be accomplished in accordance with approved EP Staff Guidelines. [C-05228]
 4. In addition to notifications made during retraining and through the drill program. Emergency Response Organization members should be notified of revisions to the CPSES Emergency Plan and associated procedures.
 - Notifications should be made prior to the revision's effective date.
 - The notification should include, as a minimum, the document title, the document number, the revision number, the effective date, and a brief synopsis of the changes.
 - A copy of the notification should be retained in the Emergency Planning files until the end of the next calendar year.
 5. The Emergency Facility Telephone Directory, which lists telephone numbers for onsite emergency response facilities, local, State, and federal emergency response agencies and other emergency response related agencies such as the National Weather Service (NWS) is reviewed each calendar quarter, and revised, if necessary, in accordance with an approved Emergency Planning Staff Guideline. [C-27168]

ATTACHMENT 2
ADMINISTRATIVE REQUIREMENTS

PAGE 3 OF 3

6. An independent review of the Emergency Preparedness Program shall be conducted at least every 24 months. An independent review shall be conducted as necessary based on assessment by TXU Electric against performance indicators or after identifying a program change occurring that potentially could adversely affect emergency preparedness. In the latter case, the review shall be conducted as soon as practical but no later than 12 months after the change occurs. Independent reviews are reported to the appropriate company management personnel and governmental organizations. [C-03194]
 - The annual review should involve discussion with personnel and inspection of equipment, as well as a review of emergency preparedness documentation.
 - If possible, the review should include observation of an emergency exercise or drill, separate from normally required controllers and observers.
 - Document the review, including recommendations for improvement.
 - Implement management controls for evaluation and correction of each review's findings.
 - Report the findings to Plant Management, Regulatory Affairs, and involved Federal, State and local organizations.
 - Retain the findings for at least five (5) years.
7. The Emergency Planning Action Item Tracking System and Master Calendar/Schedule should be maintained in accordance with approved EP Staff Guidelines.
8. Review the Emergency Action Levels (EALs) annually with state and local authorities. [C-27152]
9. Annually review Letters of Agreement that are maintained in Emergency Planning. [C-27153]

ATTACHMENT 3
MAINTENANCE AND INVENTORY OF
EMERGENCY EQUIPMENT AND SUPPLIES

PAGE 1 OF 3

1. PURPOSE

This attachment identifies the requirements for maintenance, inventory, and control of emergency equipment and supplies.

2. The Emergency Planning Manager is responsible for:

- Determining equipment and supplies to be pre-positioned in designated facilities and storage locations;
- Approving removal of emergency equipment or supplies from storage locations for an extended period of time;
- Identifying an individual to be responsible for overall management of emergency equipment and supply inventory and functional check activities; and
- Maintaining dedicated emergency response vehicles and controlling their daily use.

3. The EP Staff Guideline for inventory and maintenance of emergency equipment and supplies should provide instructions for conducting inventory and, if applicable, functional checks of emergency response equipment.

- Emergency equipment and supplies shall be inventoried and functionally checked quarterly and after use. [C-05722]
- Checklists shall be used to identify forms, references, supplies, and equipment which are inventoried and functionally checked.[C-00377, 05722. 27127]

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ATTACHMENT 3
MAINTENANCE AND INVENTORY OF
EMERGENCY EQUIPMENT AND SUPPLIES

PAGE 2 OF 3

- Changes to facility equipment checklists should be accomplished in accordance with instructions provided in the EP Staff Guideline and approved by the EP Manager.
 - Sufficient reserves of equipment shall be available for temporary replacement of equipment removed for calibration and repair, as well as replenishing supplies. [C-05722]
 - Documentation of inventories and functional checks are done using Form EPP-100-2.
 - Deficiencies noted during inventories shall be corrected. [C-05722]
4. Storage locations, used to stage emergency equipment and supplies, such as cabinets, lockers, rooms, etc., should be secured by lock or seal and should be posted to identify their contents.
 5. Batteries shall be identified with the manufacturer's expiration dates. [C-23687]
 - Batteries contained in sealed packages should show the expiration date on the exterior of the package or in such a way as to be visible without opening the package.
 - Individual batteries should show the expiration date on the battery.
 6. Day-to-day use of designated emergency vehicles is in accordance with EP Staff Guidelines.

ATTACHMENT 3
MAINTENANCE AND INVENTORY OF
EMERGENCY EQUIPMENT AND SUPPLIES

PAGE 3 OF 3

7. The following Organizations may be called upon to assist Emergency Planning in their inventory and functional check efforts:

- Instrument and Control (I&C) - to maintain emergency equipment in current calibration and to identify equipment due for calibration.
- Radiation Protection - Provide and maintain pocket ion changers (PICs) and thermoluminescent dosimeters (TLDs).
- Chemistry - Provide and maintain radionuclide analysis equipment.
- Safety Services - Provide and maintain respiratory equipment.

ATTACHMENT 4
COMMUNICATIONS SYSTEMS TESTING AND MAINTENANCE

PAGE 1 OF 3

1. PURPOSE

This attachment identifies the testing and maintenance requirements for various communications systems and equipment used for emergency response.

2. The Emergency Planning Manager is responsible for ensuring that communications systems and equipment are tested and maintained in accordance with appropriate EP Staff Guidelines.

3. The systems and equipment included in this attachment are:

- Telephones, including point-to-point telephones, State and county ringdown lines, normal PBX telephones, and the Federal Telecommunications System (FTS):
- Public address systems (excluding Gaitronics):
- Radio equipment, including base stations, vehicle radios, and hand-held radios:
- Telecopiers:
- Automatic call-out machine:
- Emergency Response Organization pagers; and
- Emergency Response Data System (ERDS).

ATTACHMENT 4
COMMUNICATIONS SYSTEMS TESTING AND MAINTENANCE

PAGE 2 OF 3

4. Telephone equipment used for emergency notifications shall be functionally checked as follows and in accordance with EP Staff Guidelines. [C-23564]

A test of communication links, the dedicated telephone between CPSES, the Department of Public Safety (DPS) Waco, Somervell County Sheriff (Somervell County Emergency Operations Center, Hood County Sheriff Hood County Emergency Operations Center), and NRC Federal Telecommunications System (FTS) between CPSES (Control Room, Technical Support Center, Emergency Operations Facility) and the NRC is conducted MONTHLY. This test satisfies the quarterly requirement to test communication links between CPSES, federal agencies, and the State. [C-05774; 05775]

A test of communication links between CPSES, the Department of Public Safety (DPS) Waco, Somervell County Sheriff (Somervell County Emergency Operations Center, Hood County Sheriff (Hood County Emergency Operations Center), and radiological monitoring teams is conducted ANNUALLY. This test is conducted during periodic drills and exercises. [C-05776]

Other, non-notification telephones, used within the emergency facilities, shall be functionally checked quarterly in accordance with EP Staff Guidelines. [C-23685]

5. Public Address systems used by the Emergency Response Organization for communications should be functionally checked quarterly in accordance with EP Staff Guidelines. This does not include the Plant Page-Party System (Gaitronics).
6. Radio equipment used by the Emergency Response Organization should be functionally checked quarterly in accordance with EP Staff Guidelines.

ATTACHMENT 4
COMMUNICATIONS SYSTEMS TESTING AND MAINTENANCE

PAGE 3 OF 3

7. Telecopiers

- Telecopiers should be programmed in accordance with EP Staff Guidelines.
- Programming should be verified current on a quarterly basis.

8. Automatic Call-out Machine

- Automatic call-out machine should be programmed in accordance with approved EP Staff Guidelines.
- The most current approved Emergency Response Organization Roster should be used for call-out machine programming. The call list shall be reviewed at least quarterly and updated as necessary.

9. Emergency Response Organization Pagers

- Pagers should be distributed to members of the Emergency Response Organization designated by the Emergency Planning Manager.
- Pagers should be tested at a frequency determined by the Emergency Planning Manager.
- Pager testing should be in accordance with EP Staff Guidelines.

10. Emergency Response Data Systems (ERDS)

- The ERDS is tested in accordance with instructions furnished by the Nuclear Regulatory Commission (Generic Letter GL-93-01), and contained in an EP Staff Guideline. [C-26489]

ATTACHMENT 5
EMERGENCY DRILL PROGRAM

PAGE 1 OF 6

1. PURPOSE

This attachment identifies drills designed to test, develop, and maintain emergency response skills of Emergency Response Organization (ERO) members. This attachment gives general requirements for conduct of drills, identifies drills by name, and provides guidance for conducting, evaluating, and documenting drills.

2. The Emergency Planning Manager shall ensure drills are conducted in accordance with NRC and FEMA rules. [C-23602]

3. The Lead Drill Controller should submit complete drill packages in accordance with STA-106.

4. General Requirements

- Drills should be held at a frequency which ensures adequate maintenance of skills required to respond to particular emergency situations.
- Drill packages should be designed to allow free play in decision making and should include the following:
 - Objectives;
 - Date, time period, location, and participating organizations;
 - Time schedule of real and simulated initiating events; and
 - Narrative summary describing the conduct of the drill.

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ATTACHMENT 5
EMERGENCY DRILL PROGRAM

PAGE 2 OF 6

- Drills should follow preplanned scenarios developed to determine the response capability of personnel. [C-08734]
 - During drills, if appropriate, on-the-spot correction of incorrect or inappropriate performance should be made and correct performance should be demonstrated. [C-08734]
 - The State of Texas, Bureau of Radiation Control, should periodically participate in radiological monitoring and health physics drills. [C-08734]
 - Scenarios developed for drills requiring NRC or FEMA evaluation shall be submitted to the NRC or FEMA, as applicable, for evaluation and approval. [C-05650]
5. As a minimum, the following Emergency Plan required drills should be conducted at the frequencies indicated. These drills may be conducted as a single entity or conducted as an integral part of an activity such as an exercise or facility tabletop or walkdown.
- Communication Drills
MONTHLY, demonstrate transmittal of a notification from CPSES to DPS Waco, Hood County EOC, Somervell County EOC and the NRC. Additionally, determine whether recipients understand notification content. [C-05774]
 - Fire Drills

Fire drills should be conducted in accordance with requirements of TRA-104.

ATTACHMENT 5
EMERGENCY DRILL PROGRAM

PAGE 3 OF 6

- Emergency Medical Drills

Offsite ambulance and medial support services participate in an annual drill, and may participate in conjunction with a CPSES exercise.

- Radiological Monitoring Drills

CPSES Emergency Response Organization (ERO) members, assigned to radiological monitoring teams, shall participate in an ANNUAL onsite and offsite drill that involves direct radiation measurements and air sampling for particulates and radioiodines. These drills shall include collection and analysis of all sample media (e.g., soil, water, vegetation and air). These samples should be submitted to the Texas Department of Health for analysis. Participants in onsite and offsite drills shall demonstrate record keeping and transmittal of radiological data. [C-05778]

- Health Physics Drills

SEMI-ANNUAL Health Physics drills, involving response to and analysis of simulated elevated airborne and liquid samples and direct radiation measurements in the environment shall be conducted and should include Emergency Response Organization (ERO) members assigned tasks related to this activity. [C-03269]

ANNUAL Health Physics drills, in accordance with As Low as Reasonably Achievable (ALARA) guidelines, involving analysis of in-plant liquid samples with actual elevated radiation levels, including use of the Post-Accident Sampling System (PASS), are conducted in accordance with applicable Chemistry Procedures. [C-05780]

<p style="text-align: center;">CPSES EMERGENCY PLAN MANUAL</p>		<p style="text-align: center;">PROCEDURE NO. EPP-100</p>
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ATTACHMENT 5
EMERGENCY DRILL PROGRAM

PAGE 4 OF 6

6. The following additional drills should be conducted at the frequencies indicated:

- EP/Control Room Mini-Drill

ANNUALLY: Demonstrate Control Room Personnel's ability to perform emergency classification, protective action recommendations, dose projections, and emergency notifications.

- Facility Activation Drills

ANNUALLY: Demonstrate proficiency in activating the Technical Support Center and the Emergency Operations Facility.

- Evacuation Drills

Evacuation drills shall be conducted when deemed appropriate by the Emergency Planning Manager. These drills shall be preceded by written notice, posted signs, or voice announcement. They shall not be conducted unannounced due to the risks involved. [C-06285]

7. Conducting the Drill

- The drill should be conducted per the drill package. Any deviation from the scenario should have the Lead Drill Controller approval.
- All controllers/evaluators should maintain a log of events observed.
- The Lead Drill Controller should terminate the drill when drill objectives have been completed or if drill activities jeopardize the safety of personnel or the plant.

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ATTACHMENT 5
EMERGENCY DRILL PROGRAM

PAGE 5 OF 6

- Upon termination of the drill, the controller and evaluator log sheets should be given to the Lead Drill Controller.

8. Evaluating the Drill

- A critique shall be conducted as soon as possible following the drill. The critique should identify the following: [C-05784]
 - Whether instructions given in the EPPs and the Position Assistance Documents could be followed to complete required actions.
 - Adequacy of emergency supplies, equipment, and facilities.
 - Ability of Emergency Response Organization personnel to perform their required functions.
 - Lessons learned as a result of the activity.
- Participants should be given the opportunity to provide written player comments to Emergency Planning.
- The Lead Drill Controller shall prepare and submit a Drill Summary Report to the Emergency Planning Manager, including: a list of participants, controllers, evaluators, observers, and observed problem areas. [C-21716]

ATTACHMENT 5
EMERGENCY DRILL PROGRAM

PAGE 6 OF 6

- Required corrective actions resulting from observed problem areas should be identified by the Emergency Planning Manager.
 - The corrective actions should be incorporated into the Emergency Planning Action Item Tracking database.
 - Effectiveness of the corrective action should be verified during the next drill.

ATTACHMENT 6
EMERGENCY EXERCISE PROGRAM

PAGE 1 OF 3

1. PURPOSE

This attachment identifies the requirements for the CPSES Emergency Exercise Program.

2. Field Exercise

A biennial evaluated exercise to test the CPSES Emergency Plan. It is evaluated either annually or biennially by the Nuclear Regulatory Commission (NRC) and biennially by the Federal Emergency Management Agency (FEMA).

3. The Plant Manager is responsible for: [C-23602. 09968]

- Approving the date of and objectives for Field Exercises; and
- Ensuring compliance with NRC and FEMA requirements of emergency preparedness.

4. The Emergency Planning Manager is responsible for:

- Developing exercise scenarios: [C-05783]
- Selecting individuals to serve as exercise controllers;
- Ensuring exercises are conducted in accordance with NRC and FEMA rules: [C-23602]
- Conducting Field Exercises;
- Conducting annual exercises (or drills) to test integrated portions of emergency response capabilities. [C-05770]

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<p style="text-align: center;">MAINTAINING EMERGENCY PREPAREDNESS</p>	<p style="text-align: center;">REVISION NO. 3</p>	<p style="text-align: center;">PAGE 27 OF 33</p>
<p><u>ATTACHMENT 6</u> <u>EMERGENCY EXERCISE PROGRAM</u></p> <p>PAGE 2 OF 3</p> <ul style="list-style-type: none"> ● Conducting exercise critiques: and ● Preparing written summaries of exercise critiques. [C-05785] <p>5. A long-range plan should be developed which includes, at a minimum:</p> <ul style="list-style-type: none"> ● Starting a Field Exercise between 6:00 p.m. and 4:00 a.m. once every six years: ● Conducting an "unannounced" Field Exercise once every six years: ● Once every two years conducting a Field Exercise involving full participation of local response organizations and at least partial participation of State organizations: [C-05770] ● Ensuring that the State fully participates with CPSES at least once every four years: and [C-05770] ● Scenarios developed for drills and exercises requiring NRC or FEMA evaluation shall be submitted to the NRC or FEMA, as applicable, for evaluation and approval. [C-05650] <p>6. A scenario shall be developed which includes, as appropriate: [C-05782]</p> <ul style="list-style-type: none"> ● The basic objectives and evaluation criteria; ● The date, time period, location, and participating organizations; ● Simulated events: ● A time schedule of real and simulated events: 		

ATTACHMENT 6
EMERGENCY EXERCISE PROGRAM

PAGE 3 OF 3

- A narrative summary; and
 - A description of arrangements for, and advance materials to be provided to, official observers.
7. A critique shall be conducted as soon as possible following the exercise and should consider the following: [C-05784]
- Whether instructions given in the CPSES Emergency Plan and its implementing documents were clear and adequate:
 - Adequacy of emergency equipment, supplies, and facilities:
 - Adequacy of Emergency Response Organization performance; and
 - Lessons learned as a result of the exercise.
8. A summary of each exercise shall be written and should include, as a minimum: [C-05785]
- The objectives of the exercise;
 - A list of participants, controllers, evaluators, and observers; and
 - A list of identified deficiencies.
9. Following the exercise, the Emergency Planning Manager shall develop corrective actions for each problem area identified in the Exercise Evaluation Report. [C-25003]

ATTACHMENT 7
PUBLIC INFORMATION ACTIVITIES TO SUPPORT EMERGENCY PREPAREDNESS

PAGE 1 OF 3

1. PURPOSE

This attachment identifies the requirements related to public information activities needed to support emergency preparedness at CPSES.

2. The Emergency Planning Manager is responsible for selecting personnel to maintain the public information program.

3. Emergency Posters

- Distributed to state parks, county facilities, city halls, local post offices, and other similar locations.
- The posters contain information such as:
 - A 10-mile Emergency Planning Zone (EPZ) map;
 - Assistance telephone numbers;
 - Relocation Center locations; and
 - Evacuation routes.
- Poster information should be reviewed annually and updated as necessary.
- The posters should be inspected annually and replaced as necessary.

ATTACHMENT 7
PUBLIC INFORMATION ACTIVITIES TO SUPPORT EMERGENCY PREPAREDNESS

PAGE 2 OF 3

4. Outdoor Signs

- Outdoor signs providing information on what to do if the Alert and Notification System (sirens) is heard, should be located within the 10-mile EPZ at public gathering places such as boat launches, tourist attraction parking lots, and other appropriate locations.
- The signs should be inspected annually and repaired as necessary.

5. Emergency Printed Media (e.g., local phone books or other printed media) [C-10951]

- The selected publications provide information to the public regarding actions that should be taken in the event of an emergency at CPSSES.
- The information should include, but not be limited to:
 - Educational information about radiation and a contact for additional information;
 - Protective actions, including a map showing evacuation zones, routes, and relocation center locations;
 - Sheltering and respiratory protection;
 - Special needs for the handicapped;
 - A listing of radio and television stations providing emergency information; and
 - Telephone numbers for obtaining information from State and local governments.

<p style="text-align: center;">CPSES EMERGENCY PLAN MANUAL</p>		<p style="text-align: right;">PROCEDURE NO. EPP-100</p>
<p style="text-align: center;">MAINTAINING EMERGENCY PREPAREDNESS</p>	<p style="text-align: center;">REVISION NO. 3</p>	<p style="text-align: right;">PAGE 31 OF 33</p>

ATTACHMENT 7
PUBLIC INFORMATION ACTIVITIES TO SUPPORT EMERGENCY PREPAREDNESS

PAGE 3 OF 3

- The selected publication shall be distributed annually to residents living within the 10-mile EPZ.
 - For persons requiring special assistance, a method is provided in distributed public information to inform the sheriff of the location of the individual and what special assistance is required. [C-10952]
6. Emergency Information for Visitors to Somervell and Hood Counties
- A publication containing emergency information for visitors to Somervell and Hood Counties is offered annually to motels, camps, and RV parks within the 10-mile EPZ. The publication contains information about the siren system, evacuation, and the Emergency Alert System (EAS).
7. Annual News Media Orientation
- TU Electric provides information and offers training annually to local and Dallas/Fort Worth area media. Topics include: plant operation; radiation; emergency plans; how the media is notified of an emergency; points of contact for emergency related public information; and media coverage of drills and exercises. [C-06303]

ATTACHMENT 8
ALERT AND NOTIFICATION SYSTEM SURVEILLANCE AND REPORTS

PAGE 1 OF 2

1. PURPOSE

This attachment identifies the requirements necessary to ensure the operability of the Alert portion of the Alert and Notification (Siren) System.

2. Annual Inspection

Preventative maintenance should be performed by Electrical Maintenance in accordance with approved Electrical Maintenance procedures.

3. PRECAUTION

Deficiencies (as referenced in the note in Section 4) in the Alert and Notification system are to be corrected within four (4) months as required in Title 10, Code of Federal Regulations, Part 50, Appendix E, Section IV.D.3.

4. The Test Coordinator should:

- Notify both Sheriff's Offices/Dispatchers and the Shift Manager of the scheduled test;
- Coordinate the test based on the surveillance schedule;
- Immediately notify the Shift Manager if eighteen (18) or more sirens of the Alert and Notification System fail;

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ATTACHMENT 8
ALERT AND NOTIFICATION SYSTEM SURVEILLANCE AND REPORTS

PAGE 2 OF 2

NOTE: A report to the NRC is required when the capability to alert a large segment of the population is lost for a period of one hour. Within the CPSES Plume Emergency Planning Zone (EPZ), loss of eighteen (18) or more sirens requires reporting to the NRC. NUREG-1022, "Licensee Event Report System," Supplement No. 1, February 1984, clarified the requirements of 10 CFR 50.72(b) (1) (v). (See STA-501, "Non-Routine Reporting" for specific reporting requirements.)

- Notify the Sheriff of the affected County of all siren failures and of their return to service; and
 - Complete Form EPP-100-3 each quarter.
5. Operability tests are scheduled for the first Monday of each month at 12:00 noon. When this day falls on a scheduled holiday, the test should not be conducted. "Growl testing" should be conducted in its place.

NOTE: Operability tests may be postponed or canceled by the Sheriff or the County Judge, for the County in which the sirens are located, for any reason. Normally, these tests will be canceled only if severe weather or other potential emergency exists.

6. The Test Coordinator should initiate a Work Order to correct problems found while testing the system.
7. Each calendar quarter, the information from EPP-100-3 should be submitted to FEMA via the Texas Division of Emergency Management.

The Document Listed Below
Has Been
Retired/Voided

Effective: 12-17-99

EPP 112

Retired at
Rev. 9

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CPSES PROCEDURE CHANGE FORM

SECTION I

DATE 11/02/99 PREPARER Robert Kidwell EXT. 5310
(PRINT NAME)
 PCN EPP-203-R13-2 /OTPCN n/a ,WO# n/a
 TITLE Notifications

CHANGED PAGE NO(s). 3

CHANGE JUSTIFICATION Update the conditions that require a 15 minute offsite notification (page 3). These conditions now more accurately reflect EPlan level of commitment, as changed by revision 28 of the Emergency Plan.

PREPARER (Signature/Date) Robert Kidwell 11/02/99

If change is editorial, THEN circle or mark "YES". YES

Editorial changes, as limited by STA-205, Attachment 8.B, do not require Technical Review or Safety Evaluation Screen.

TECHNICAL REVIEWER: Ted Robison *Ted Robison*
(Printed Name and Signature)

Date: 11-5-99 EXT. 5476

PROCEDURE CHANGE INTERIM APPROVAL

If the change does not change the intent of the procedure and the change must be incorporated immediately, then complete this section; otherwise, route in accordance with Section III for review and approval.

QUALIFIED REVIEWER: _____
(Printed Name and Signature)

Date: _____ EXT. _____

SHIFT or UNIT SUPERVISOR: _____
(Printed Name and Signature)

Date: _____ EXT. _____

REMARKS _____

PROCEDURE CHANGE APPROVAL

REVIEW ORGANIZATION	APPROVED (Yes/No)	QUALIFIED REVIEW (Init/Date)
Nuclear Overview A08		

TRAINING/READING REQUIRED: YES ___ NO xx IF YES, THEN SPECIFY: _____

SORC Meeting No. and Date (If Applicable) n/a EFFECTIVE DATE: 12/17/99

APPROVED BY: *[Signature]* DATE: 12/9/99
(Signature) (Print name if not approval authority and change is editorial)

4.0 INSTRUCTIONS

4.1 General Information

[C-05702]



4.1.1 Following declaration of any emergency classification, identify at least one Plant Page Party System line to transmit information during the emergency.

4.1.2 Notify Somervell County, Hood County, and DPS Waco of any emergency at CPSES using the dedicated ringdown telephone system.

4.1.2.1 Notification shall be made **within 15 minutes** if any of the following conditions occur:

- initial emergency classification;
- escalation of emergency classification;
- initial protective action recommendation (PAR);
- change in protective action recommendation (PAR);

~~notification that "release in progress";~~

~~notification that "release has ended"; or~~

- termination of the emergency.



4.1.2.2 As a minimum, notify the offsite agencies every hour unless otherwise directed by the individual agency.

4.1.3 Notify CPSES personnel of any emergency at CPSES by the Plant Page Party System, Call-out System and pager activation.

4.1.3.1 Contact the CPSES personnel on site by the Plant Page Party System at all times.

4.1.3.2 Contact the ERO members not on site using the Call-out System.

Rc 3/24/99 EPP-203-R13-1

Rc 11/2/99 EPP-203-R13-2

CPSES PROCEDURE CHANGE FORM

SECTION I

DATE 09/20/99 PREPARER Greg Bell EXT. 5290
(PRINT NAME)
 PCN EPP-204 R14 pcn 01 /OTPCN _____ ,WO# _____
 TITLE Activation and Operation of the Technical Support Center (TSC)

CHANGED PAGE NO(s). 9, 10 glb 11-4-99

CHANGE JUSTIFICATION To be consistent with the emergency plan revision 28.

PREPARER (Signature/Date) *Greg Bell* 09-20-99

If change is editorial, THEN circle or mark "YES". YES
 Editorial changes, as limited by STA-205, Attachment 8.B, do not require Technical Review or Safety Evaluation Screen.

TECHNICAL REVIEWER: *Robert Haddell* *RH* 11/4/99
(Printed Name and Signature)

Date: 9/23/99 EXT. 5510

SECTION II

PROCEDURE CHANGE INTERIM APPROVAL

If the change does not change the intent of the procedure and the change must be incorporated immediately, then complete this section; otherwise, route in accordance with Section III for review and approval.

QUALIFIED REVIEWER: _____
(Printed Name and Signature)

Date: _____ EXT. _____

SHIFT or UNIT SUPERVISOR: _____
(Printed Name and Signature)

Date: _____ EXT. _____

REMARKS _____

SECTION III

PROCEDURE CHANGE APPROVAL

REVIEW ORGANIZATION	APPROVED (Yes/No)	QUALIFIED REVIEW (Init/Date)

TRAINING/READING REQUIRED: YES ___ NO IF YES, THEN SPECIFY: _____

SORC Meeting No. and Date (If Applicable) N/A EFFECTIVE DATE: 12/17/99

APPROVED BY: *[Signature]* DATE: 12/9/99
(Signature) (Print name if not approval authority and change is editorial)

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-204
ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)	REVISION NO. 14	PAGE 9 OF 14
<p>4.1.15 Control Room Operational Status Board Communicator</p> <ul style="list-style-type: none"> ● Reports to the Control Room at Alert or higher emergency classification. ● Provides information to the TSC and EOF Operational Status Board Recorders. <p>4.2 <u>Accident Assessment</u></p> <p>4.2.1 Guidelines for accident classification are provided in EPP-201, "Assessment of Emergency Action Levels, Emergency Classification and Plan Activation."</p> <p>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.</p> <p>4.2.3 Guidelines for core damage assessment are provided in EPP-312, "Core Damage Assessment."</p> <p>4.3 <u>Accountability</u></p> <p>4.3.1 Initial and continuous accountability of personnel in the TSC shall be completed per EPP-314, "Evacuation and Accountability."</p> <p>4.4 <u>Activation</u></p> <p>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 seventy (70) SIXTY (60) minutes. [C-23555,-06257]</p>		


 GLO
 9-20-99

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 ~~(3)~~ (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.

9/6
11-4-99

CPSES PROCEDURE CHANGE FORM

SECTION I

DATE 9/23/99 PREPARER Teddy P. Robison EXT. 5476
(PRINT NAME)
 PCN EPP-205-R11-3 /OTPCN _____, WO# _____
 TITLE ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)

CHANGED PAGE NO(s) SIX (6).

CHANGE JUSTIFICATION CHANGED TO CONFORM TO REVISION 28 OF THE CPSES EMERGENCY PLAN.

PREPARER (Signature: Date) TED ROBISON [Signature] 9/20/99
 If change is editorial, THEN circle or mark "YES". YES
 Editorial changes, as limited by STA-205, Attachment 8.B, do not require Technical Review or Safety Evaluation Screen.
 TECHNICAL REVIEWER: Robert Kidwell [Signature]
(Printed Name and Signature)
 Date: 9-23-99 EXT. 5310

SECTION II

PROCEDURE CHANGE INTERIM APPROVAL

If the change does not change the intent of the procedure and the change must be incorporated immediately, then complete this section; otherwise, route in accordance with Section III for review and approval.

QUALIFIED REVIEWER: _____
(Printed Name and Signature)
 Date: _____ EXT. _____
 SHIFT or UNIT SUPERVISOR: _____
(Printed Name and Signature)
 Date: _____ EXT. _____
 REMARKS _____

SECTION III

PROCEDURE CHANGE APPROVAL

REVIEW ORGANIZATION	APPROVED (Yes/No)	QUALIFIED REVIEW (Init/Date)
<u>NOD</u>	<u>YES</u>	<u>[Signature] 12/13/99</u>

TRAINING/READING REQUIRED: YES NO IF YES, THEN SPECIFY: EP Bulletin 99-028

SORC Meeting No. and Date (If Applicable) _____ EFFECTIVE DATE: 12/17/99
 APPROVED BY: [Signature] DATE: 12/13/99
(Signature) (Print name if not approval authority and change is editorial)

4.2.1 Personnel assigned to the OSC are notified at an ALERT or higher classification, and should activate the facility as soon as possible; with a goal of ~~seventy (70)~~ minutes after declaration. [C-05714,06257] △

SIXTY (60)

4.2.2 The following positions must be staffed to declare the facility activated:

- OSC Manager or OSC ERDC Supervisor
- Two (2) Radiation Protection Technicians
- Three (3) ERDC Group members (one each)
Electrical, Mechanical, I&C

4.2.3 The initial OSC staff will be selected from both on-shift and augmentation personnel.

4.2.3.1 Personnel selected to remain in the OSC Management Area should obtain their Position Assistance Document (PAD) and staff their position.

4.2.3.2 Extra personnel should report to the Emergency Response Organization (ERO) Staging Area when released by the OSC Manager.

4.3 Accountability

4.3.1 Initial and continuous accountability of personnel in the OSC shall be completed per EPP-314, "Evacuation and Accountability." [C-05750]

4.3.2 Accountability of Auxiliary Operators who were on watch or dispatched by the Control Room is initially the responsibility of the Control Room.

4.3.3 If the OSC assumes control of Auxiliary Operator dispatch and activities, their accountability becomes the responsibility of the OSC.

4.4 Communications

4.4.1 Communication Systems in the OSC are described in EPP-202, "Emergency Communications Systems and Equipment". [C-21743]

4.4.2 Telephone numbers for emergency communications are provided in the Emergency Facility Telephone Directory.

△ TPR 9/20/99

COMANCHE PEAK STEAM ELECTRIC STATION

EMERGENCY PLAN MANUAL

ACTIVATION AND OPERATION OF THE
EMERGENCY OPERATIONS FACILITY (EOF)

PROCEDURE NO. EPP-206

REVISION NO. 14

EFFECTIVE DATE: ~~09-13-99~~ ¹²⁻¹⁷⁻⁹⁹ *CW center*
per BK
12-10-99

MAJOR REVISION



PREPARED BY (Print): Bob Kidwell EXT: 5310

TECHNICAL REVIEW BY (Print): Bill Nix EXT: 5256

APPROVED BY: D. N. Hood *[Signature]* DATE: 9-13-99
EP MANAGER

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-206
ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY (EOF)	REVISION NO. 14	PAGE 2 OF 10

1.0 PURPOSE

- 1.1 This procedure provides guidance for the activation and operation of the Emergency Operations Facility (EOF).
- 1.2 This procedure also identifies responsibilities of key personnel assigned to the EOF.

2.0 APPLICABILITY

- 2.1 This procedure becomes effective upon declaration of a Site Area Emergency or General Emergency.
- 2.2 This procedure may become effective upon declaration of a Notification of Unusual Event or Alert if the decision is made to activate the EOF.
- 2.3 This procedure is applicable to EOF personnel.

3.0 DEFINITIONS

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

4.0 INSTRUCTIONS

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

4.1 Responsibilities

Responsibilities for Emergency Response Organization personnel identified as key personnel in the Emergency Operations Facility (EOF) after facility activation are as follows:

4.1.1 EOF Manager

The EOF Manager is responsible for facility activation and Command and Control of emergency response activities conducted in the EOF. The EOF Manager may assume the duties of Emergency Coordinator upon turnover of these duties from the TSC Manager.

4.1.2 EOF Communications Coordinator [C-05677]

The EOF Communications Coordinator is responsible for coordinating communications activities in the EOF.

4.1.3 EOF Radiation Protection Coordinator [C-03255]

The EOF Radiation Protection Coordinator (RPC) and staff are responsible for coordinating TU Electric offsite radiological monitoring efforts. The EOF RPC is also responsible for coordinating TU Electric offsite radiological assessment activities with those of local, state and federal agencies.

4.1.4 EOF Offsite Radiological Assessment Coordinator

The EOF Offsite Radiological Assessment Coordinator, who reports to the EOF RPC, is responsible for coordinating the efforts of the offsite radiological assessment team in performing activities such as:

- offsite facility habitability, and
- dose projections and assessment.

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-206
ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY (EOF)	REVISION NO. 14	PAGE 4 OF 10
<p>4.1.5 <u>Offsite Monitoring Team Director</u></p> <p>The Offsite Monitoring Team Director, who reports to the EOF RPC, is responsible for coordinating the efforts of the offsite radiological monitoring team(s) in performing activities such as:</p> <ul style="list-style-type: none"> - locating and tracking the offsite plume, and - offsite monitoring team direction and control. <p>4.1.6 <u>EOF Logistical Support Coordinator [C-05914]</u></p> <p>The EOF Logistical Support Coordinator and his staff coordinate requests from the ERO for administrative and logistical assistance. These requests include such items as meals, parts and supplies, transportation, and manpower issues (such as shift relief schedules).</p> <p>4.1.7 <u>EOF TSC Liaison</u></p> <p>The EOF TSC Liaison provides technical support (which includes classification input if required) to the EOF Management team and serves as a liaison between the EOF personnel and the TSC Engineering team.</p> <p>4.1.8 <u>EOF Security Coordinator [C-05750, 11326]</u></p> <p>The EOF Security Coordinator is responsible for coordinating onsite security force activities, including:</p> <ul style="list-style-type: none"> - establishing and maintaining site access controls, - assisting with site evacuation, and - performing personnel accountability. <p>4.1.9 <u>Emergency Planning (EP) Advisors</u></p> <p>EP Advisors assist the ERO with facility activation and provide expertise and information to ERO personnel concerning both utility and offsite supporting emergency facilities, communication capabilities, personnel and equipment resources, and procedural requirements.</p>		

4.1.10 State and County EOC Advisors [C-06300]

Station personnel assigned to augment and advise state/county emergency organizations. These personnel function as advisors and may act as liaison between the county officials and the CPSES Emergency Response Organization.

4.1.11 Emergency Communicators

Designated personnel assigned the function of providing an interface between the CPSES emergency facilities, accident assessment teams, and State/Local/Federal authorities. The communicators use dedicated equipment to perform these functions.

4.1.12 Administrative and Clerical Support personnel

Various administrative and clerical support personnel are used in the emergency response facilities for duties such maintaining logs, answering telephones, transmitting faxes, and distributing information.

4.1.13 Board Recorders

Various personnel are assigned to post and update status boards within the Emergency Response Facilities. These personnel use dedicated boards and communications equipment to facilitate the sharing of information between facilities.

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-206
ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY (EOF)	REVISION NO. 14	PAGE 6 OF 10
4.2	<u>Accident Assessment</u>	
4.2.1	Activities of radiological surveillance teams are described in EPP-309, "Onsite In-Plant Radiological Surveys and Offsite Radiological Monitoring."	
4.2.2	Guidelines for dose projections are provided in EPP-303, "Operation of Computer Based, Emergency Dose Assessment System" and the Position Assistance Documents (PADs).	
4.2.3	Plant Process Computer terminals in the EOF may be used to acquire and trend operational, radiological, and meteorological data.	
4.3	<u>Activation</u>	
4.3.1	All personnel assigned to the EOF are notified to report to their facility at an ALERT or higher emergency classification. The EOF shall be activated as soon as possible but within the goal of sixty (60) minutes following declaration of a Site Area Emergency or General Emergency [C00380; 06257].	
4.3.2	<p>The following EOF positions should be present to declare the facility activated:</p> <ul style="list-style-type: none"> ● Manager ● Radiation Protection Coordinator (or EOF OFFRAC) ● Communications Coordinator (or EOF Communicator) ● Logistical Support Coordinator ● Security Coordinator 	
4.3.3	The initial staff should be selected from arriving personnel.	
4.3.4	Personnel selected should log in on the EOF Staffing Board.	
4.3.5	Personnel NOT selected for the initial shift should report to the Emergency Response Organization (ERO) Staging Area for further direction.	

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-206
ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY (EOF)	REVISION NO. 14	PAGE 7 OF 10
<p>4.4 <u>Administrative</u></p> <p>4.4.1 The EOF has ready access to plant records via Document Control. [C00388]</p> <p>4.4.2 EOF personnel should maintain account of their activities on an "Emergency Organization Activities Log Sheet", if directed by their Position Assistance Documents (PADs).</p> <p>4.4.3 Following the event, all documentation should be transmitted to the Emergency Planning Manager.</p> <p>4.5 <u>Communications</u></p> <p>4.5.1 Communications systems are described in EPP-202, "Emergency Communications Systems and Equipment".</p> <p>4.5.2 Telephone numbers for emergency communications are given in the Emergency Facility Telephone Directory.</p> <p>4.5.3 The normal communication path between the EOF and the Control Room shall be through the TSC. [C00384].</p> <p>4.6 <u>Notifications</u></p> <p>4.6.1 Onsite and offsite notifications are described in EPP-203, "Notifications".</p> <p>4.7 <u>Protective Measures</u> [C-06784]</p> <p>4.7.1 The following conditions may warrant relocating EOF personnel to the Alternate EOF:</p> <ul style="list-style-type: none"> ● hazardous radiation levels ● power failure ● earthquake or other natural phenomena ● Conditions which pose unacceptable risk to personnel safety 		

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

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

4.7.4 The issue and use of thyroid blocking agents are described in EPP-306, "Use of Thyroid Blocking Agents".

4.8 Radiological Controls

4.8.1 To ensure that the EOF is and remains habitable for occupancy during a declared emergency, in addition to permanent facility shielding, other habitability activities such as realignment of ventilation flow paths to filter incoming facility air through High Efficiency Particulate Absorbers (HEPA) filters and to effect a slight positive pressure in the EOF, closure of facility doors to maintain slight positive pressure in the facility, closure of main entrance door gamma shield and continuous radiological monitoring of the facility are conducted. [C-26440]

4.8.2 EOF habitability is continuously monitored using:

- airborne radioactivity monitor capable of detecting radioiodines as low as $1.0E-07 \mu\text{Ci/cc}$

- a portable gamma monitor set to alarm at a predetermined dose rate

OR

A personal electronic dosimeter set to alarm at a predetermined dose.
[C-05718]

4.8.3 The Nuclear Operations Support Facility (NOSF), if conditions warrant, is periodically monitored using a portable beta/gamma survey instrument to ensure habitability is maintained for the News Center, ERO Staging Area, and Decontamination Facility.

<p style="text-align: center;">CPSES EMERGENCY PLAN MANUAL</p>		<p style="text-align: center;">PROCEDURE NO. EPP-206</p>
<p style="text-align: center;">ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY (EOF)</p>	<p style="text-align: center;">REVISION NO. 14</p>	<p style="text-align: center;">PAGE 9 OF 10</p>
<p>4.8.4</p>	<p>If conditions indicate, a Contamination Control Point is established at entrances to the EOF.</p>	
<p>4.8.5</p>	<p>If decontamination of Emergency Response Organization (ERO) personnel is indicated, the decontamination facility, located in the Nuclear Operations Support Facility (NOSF) is activated. Liquid waste generated from facility sinks and showers, is diverted to a holding tank. [C-05721, 14719]</p>	
<p>4.8.6</p>	<p>Solid waste generated as a result of decontamination activities shall be processed in accordance with applicable Radiation Protection Instructions. [C-06776]</p>	
<p>4.8.7</p>	<p>Wall maps of the 10-Mile Emergency Planning Zone, used to identify location of dispatched radiological monitoring teams, are in the EOF. Field Monitoring Kits also contain similar maps. [C-08924]</p>	
<p>4.9</p>	<p><u>Security</u></p>	
<p>4.9.1</p>	<p>Access to the EOF is controlled in accordance with SEC-610, "Security Response During Personnel and Operating Emergencies".</p>	
<p>4.10</p>	<p><u>Recovery</u></p>	
<p>4.10.1</p>	<p>Closeout of an emergency is described in EPP-121, "Reentry, Recovery and Closeout."</p>	
<p>4.10.1</p>	<p>Upon closeout of an emergency or closeout of the Recovery Organization, the EOF should be immediately returned to a ready-to-respond condition.</p>	

CPSES EMERGENCY PLAN MANUAL		PROCEDURE NO. EPP-206
ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY (EOF)	REVISION NO. 14	PAGE 10 OF 10
<p>5.0 <u>REFERENCES</u></p>		
<p>5.1 CPSES Emergency Plan</p>		
<p>5.2 STA-202. "Administrative Control of CPSES Nuclear Engineering and Operations Procedures"</p>		
<p>5.3 SEC-610. "Security Response During Personnel and Operating Emergencies"</p>		
<p>5.4 EPP-121. "Reentry, Recovery, and Closeout"</p>		
<p>5.5 EPP-202. "Emergency Communications Systems and Equipment"</p>		
<p>5.6 EPP-203. "Notifications"</p>		
<p>5.7 EPP-303. "Operation of Computer Based, Emergency Dose Assessment System"</p>		
<p>5.8 EPP-304. "Protection Action Recommendations"</p>		
<p>5.9 EPP-305. "Emergency Exposure Guidelines and Personnel Dosimetry"</p>		
<p>5.10 EPP-306. "Use of Thyroid Blocking Agents"</p>		
<p>5.11 EPP-309. "Onsite In-Plant Radiological Surveys and Offsite Radiological Monitoring"</p>		
<p>6.0 <u>ATTACHMENTS/FORMS</u></p>		
<p>6.1 <u>Attachments</u></p>		
<p>None</p>		
<p>6.2 <u>Forms</u></p>		
<p>None</p>		

CPSES PROCEDURE CHANGE FORM

SECTION I

DATE 9/9/99 PREPARER DAVID BARNHAM EXT. 5934
(PRINT NAME)
 PCN EPP-207-R10-2 /OTPCN _____, WO# _____
 TITLE ACTIVATION AND OPERATION OF THE NEWS CENTER

CHANGED PAGE NO(s). 4

CHANGE JUSTIFICATION CHANGED TO CONFIRM TO REV 22 OF THE CPSES EMERGENCY PLAN.

PREPARER (Signature/Date) David Barnham 9/10/99

If change is editorial, THEN circle or mark "YES". YES
 Editorial changes, as limited by STA-205, Attachment 8.B, do not require Technical Review or Safety Evaluation Screen.

TECHNICAL REVIEWER: Robert Kivell
(Printed Name and Signature)

Date: 9/10/99 EXT. 5310

SECTION II

PROCEDURE CHANGE INTERIM APPROVAL

If the change does not change the intent of the procedure and the change must be incorporated immediately, then complete this section; otherwise, route in accordance with Section III for review and approval.

QUALIFIED REVIEWER: _____
(Printed Name and Signature)

Date: _____ EXT. _____

SHIFT or UNIT SUPERVISOR: _____
(Printed Name and Signature)

Date: _____ EXT. _____

REMARKS _____

SECTION III

PROCEDURE CHANGE APPROVAL

REVIEW ORGANIZATION	APPROVED (Yes/No)	QUALIFIED REVIEW (Init/Date)

TRAINING/READING REQUIRED: YES ___ NO IF YES, THEN SPECIFY: _____

SORC Meeting No. and Date (If Applicable) N/A
 APPROVED BY: [Signature] (Signature) (Print name if not approval authority and change is editorial)
 EFFECTIVE DATE: 12/17/99 DATE: 9/15/99

4.2 Activation

4.2.1 The News Center should become activated within ~~seventy (70)~~ SIXTY (60) minutes following declaration of Site Area Emergency or General Emergency class or following the Emergency Coordinator's or News Conference Manager's instruction to do so. [C-05717]

4.2.2 The News Center may be activated when the Company Spokesperson or News Conference Manager, News Release Writer and Rumor Control Coordinator are in position.

4.2.3 The initial staff will be selected from arriving News Center personnel.

4.2.3.1 When notified of an Alert Emergency Classification, all personnel assigned to the News Center shall report to their assigned News Center facilities unless otherwise directed. [C-06257]

4.2.3.2 Personnel selected to remain in the News Center should sign in on the appropriate facility staffing board.

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

4.3 Administrative

4.3.1 News Center personnel should log their activities on approved Log Sheets if directed by their Position Assistance Documents (PADs).

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

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

△ JWB 9/10/99

CPSES PROCEDURE CHANGE FORM

SECTION I

DATE 11/22/99 PREPARER DAVID BARHAM EXT. 5784
(PRINT NAME)
 PCN EPP-207-R10-3 /OTPCN _____, WO# _____
 TITLE ACTIVATION AND OPERATION OF THE NEW CENTER

CHANGED PAGE NO(s) 3.1 OF 7

CHANGE JUSTIFICATION REMOVAL OF NEW CENTER BRIEFER AND MODIFICATION OF RESPONSIBILITIES OF INFORMATION COORDINATOR TO INCLUDE SPECIFIC TECHNICAL BRIEFINGS TO CONFORM TO LDCR-EP 99-016.

PREPARER (Signature/Date) David Barham / 11/22/99

If change is editorial, THEN circle or mark "YES". YES
 Editorial changes, as limited by STA-205, Attachment 8.B, do not require Technical Review or Safety Evaluation Screen.

TECHNICAL REVIEWER: Robert Maxwell 12/1/99
(Printed Name and Signature)

Date: 11/23/99 EXT. 7310

SECTION II

PROCEDURE CHANGE INTERIM APPROVAL

If the change does not change the intent of the procedure and the change must be incorporated immediately, then complete this section; otherwise, route in accordance with Section III for review and approval.

QUALIFIED REVIEWER: _____
(Printed Name and Signature)

Date: _____ EXT. _____

SHIFT or UNIT SUPERVISOR: _____
(Printed Name and Signature)

Date: _____ EXT. _____

REMARKS _____

SECTION III

PROCEDURE CHANGE APPROVAL

REVIEW ORGANIZATION	APPROVED (Yes/No)	QUALIFIED REVIEW (Init/Date)
NOD		

TRAINING/READING REQUIRED: YES ___ NO IF YES, THEN SPECIFY: _____

SORC Meeting No. and Date (If Applicable) N/A
 APPROVED BY: [Signature] EFFECTIVE DATE: 12/17/99
(Signature) (Print name if not approval authority and change is editorial) DATE: 12/9/99

- 4.1.3 The Information Coordinator is responsible for receiving and forwarding current technical information from the Emergency Coordinator to the Company Spokesperson and the News center staff. AND, GIVES SPECIFIC TECHNICAL BRIEFINGS TO THE PRESS WHEN NECESSARY. △
- 4.1.4 The Information Liaison is responsible for informing corporate communications, government sources and media news services of event developments and obtains emergency-related information from outside sources.
- 4.1.5 ~~The News Center Briefer is responsible for conducting background briefings to media personnel between news conferences and relaying event-related questions from the media to the Company Spokesperson.~~ △
- 4.1.6 The News Release Writer is responsible for preparing news releases from approved information for dissemination to the media.
- 4.1.7 The Rumor Control Coordinator is responsible for reviewing received rumors and media broadcasts for consistency with approved information and reporting findings to the Company Spokesperson. △
- 4.1.8 The Audio Visual Aide is responsible for setting up and monitoring audio visual equipment and recording news conferences.
- 4.1.9 Media Monitoring Aides are responsible for monitoring media broadcasts for event related information.
- 4.1.10 News Center Aides are responsible for hosting media representatives.
- 4.1.11 Rumor Control Aides are responsible for answering telephone requests for information from the public and the media.
- 4.1.12 The Electronic Media Monitoring Aide is responsible for monitoring electronic mail services for rumors and incorrect information.

△ DWS 10/14/97

△ DWS 11/22/99

CPSSES PROCEDURE CHANGE FORM

SECTION III

DATE 2 DEC 99 PREPARER Bill Nix EXT. 5256
(PRINT NAME)
 PCN EPP-309-R12-1/OTPCN WO# _____
 TITLE ONSITE/IN-PLANT RADIOLOGICAL SURVEYS AND
OFFSITE RADIOLOGICAL MONITORING
 CHANGED PAGE NO(s). 5 of 11

CHANGE JUSTIFICATION To incorporate a commitment and thus
clearly denote a requirement to maintain three (3)
field monitoring kits at the NCSF.

PREPARER (Signature/Date) *Bill Nix* 2 DEC 99
 If change is editorial, THEN circle or mark "YES". YES
 Editorial changes, as limited by STA-205, Attachment 8.B, do not require Technical Review or
 Safety Evaluation Screen.
 TECHNICAL REVIEWER: JOHN ELLARD *J Ellard*
(Printed Name and Signature)
 Date: 12/8/99 EXT. 5350

PROCEDURE CHANGE INTERIM APPROVAL

If the change does not change the intent of the procedure and the change must be incorporated
 immediately, then complete this section; otherwise, route in accordance with Section III for review
 and approval.
 QUALIFIED REVIEWER: _____
(Printed Name and Signature)
 Date: _____ EXT. _____
 SHIFT or UNIT SUPERVISOR: _____
(Printed Name and Signature)
 Date: _____ EXT. _____
 REMARKS _____

PROCEDURE CHANGE APPROVAL

REVIEW ORGANIZATION	APPROVED (Yes/No)	QUALIFIED REVIEW (Init/Date)
NOD A08	YES	<i>Jns</i> 12/13/99

TRAINING/READING RECOMMENDED: YES ___ NO IF YES, THEN SPECIFY: _____

SORC Meeting No. _____
 and Date (If Applicable) _____ EFFECTIVE DATE: 12/17/99
 APPROVED BY: *J Ellard* or *D Norman Hood* DATE: 12/13/99
(Signature) (Print name if not approval authority and change is editorial)

- 4.4.2 Onsite Radiological Monitoring Teams have access to any Company owned or leased vehicle currently available onsite. [C-05726]
- 4.4.3 When these vehicles are selected for use, the user should verify that the fuel tank gauge reads equal to or greater than one-half full. Otherwise, the vehicle should be refueled prior to commencing monitoring activities if time permits.

4.5 Emergency Response Equipment

- 4.5.1 Offsite monitoring teams are equipped with two-way radios and survey equipment such as dose rate meters and air samplers, protective clothing, a map depicting the 10-Mile Emergency Planning Zone (EPZ), personal dosimetry and other equipment necessary to perform assigned tasks. This equipment allows collection and field analysis of radioiodine activity as low as $1.0E-07$ microcuries per milliliter. This equipment is pre-staged for the Offsite Radiological Monitoring Teams in the Nuclear Operations Support Facility (NOSF). A similar kit is maintained for the Onsite Monitoring Team in the Operations Support Center (OSC). [C-05644, 01204]

9/2/99
LWJ
①

Three field monitoring kits are maintained at the NOSF.

- 4.5.2 Each Emergency Response Kit is to be sealed upon completion of the last scheduled inventory or maintenance. If the seal has been broken, or tampering is indicated, a complete inventory of the emergency kit should be conducted prior to departure. An inventory sheet is maintained with each kit. [C-08694]
- 4.5.3 Instruments to be used by monitoring team personnel should be response checked prior to their use. A radiation check source is kept in each Emergency Response kit for this purpose.
- 4.5.4 In-Plant Radiological Monitoring Teams should equip themselves with instruments and supplies from normal day-to-day Radiation Protection supplies.

CPSES PROCEDURE CHANGE FORM

SECTION I

DATE 09/20/99 PREPARER Greg Bell (PRINT NAME) EXT. 5290
 PCN EPP-204-1 R11 pcn 01 /OTPCN _____, WO# _____
 TITLE Activation and Operation of the Technical Support Center (TSC)

CHANGED PAGE NO(s). 1

CHANGE JUSTIFICATION To be consistent with the emergency plan revision 28.
Changed 70 to 60 min. activation; deleted CR from receiving redundant info;
corrected type of -> or Increase # of ENGRS required for min staffing/ etc.
activation, g/b 11-4-99.

PREPARER (Signature/Date) Greg Bell 09-20-99

If change is editorial, THEN circle or mark "YES". YES
 Editorial changes, as limited by STA-205, Attachment 8.B, do not require Technical Review or Safety Evaluation Screen.

TECHNICAL REVIEWER: ROBERT MIDDLE (Signature) Ac 11/4/99

Date: 9/20/99 EXT. 5310

SECTION II

PROCEDURE CHANGE INTERIM APPROVAL

If the change does not change the intent of the procedure and the change must be incorporated immediately, then complete this section; otherwise, route in accordance with Section III for review and approval.

QUALIFIED REVIEWER: _____ (Printed Name and Signature)

Date: _____ EXT. _____

SHIFT or UNIT SUPERVISOR: _____ (Printed Name and Signature)

Date: _____ EXT. _____

REMARKS _____

SECTION III

PROCEDURE CHANGE APPROVAL

REVIEW ORGANIZATION	APPROVED (Yes/No)	QUALIFIED REVIEW (Init/Date)

TRAINING/READING REQUIRED: YES ___ NO IF YES, THEN SPECIFY: _____

SORC Meeting No. and Date (If Applicable) N/A EFFECTIVE DATE: 12/17/99

APPROVED BY: (Signature) DATE: 12/9/99
(Signature) (Print name if not approval authority and change is editorial)

TU ELECTRIC
COMANCHE PEAK STEAM ELECTRIC STATION
TECHNICAL SUPPORT CENTER CHECKLIST

ITEM	RESPONSIBILITY	VERIFIED OR COMPLETED
I. TSC ACTIVATION		
1. TSC Activation Started: _____ Date/Time	*	TSC Comm Coord. _____
2. Verify Minimum Staff Requirements:** a. TSC Manager _____ b. TSC Onsite Radiological Assessment Coordinator _____ c. TSC Communications Coordinator _____ d. TSC Engineering Team Coordinator _____ e. TSC Engineering Team <u>(4)</u> _____	(check)	TSC Comm Coord. _____
3. Announce TSC activated. _____ Date/Time		TSC Manager _____
II OTHER TSC CHECKLIST ITEMS (Not required for activation)		
1. Activate the Emergency Response Data System. This is required within 60 minutes of Alert. [C-25791]		TSC Eng Tm Coord. _____
2. Report time TSC was activated and name and location of Emergency Coordinator to Control Room OSC and EOF. Obtain activation status from these facilities.		TSC Seq. of Events _____ Bd Recorder _____
3. Initiate communications per EPP-203. (May use CR ENS Comm in TSC). Report transfer of Emergency Coordinator duties to offsite agencies.		TSC Comm Coord _____
4. Obtain plant status report.		TSC Ops Coord. _____
5. Initiate operation of iodine monitor and area radiation monitor.		TSC OnRac _____
6. Direct contamination control points be established at the TSC, Control Room and OSC, if necessary.		TSC OnRac _____
7. Direct ERF Computer Terminals initialized to affected Unit.		TSC Eng. Team Coordinator _____
8. Direct dose assessment computer and printer setup and ensure it is operating.		TSC OnRac _____
III. TSC CHECKLIST COMPLETE		
	_____	_____
	TSC Manager	Date/Time
* NOTE: Activation start time is when an Alert of higher emergency classification has been declared. The TSC is required to be activated within <u>60</u> minutes of this start time.		
** NOTE: Other individuals on the ERO may fill these positions if equally qualified.		

COMANCHE PEAK STEAM ELECTRIC STATION

TRAINING MANUAL

QUALITY RELATED

EMERGENCY PREPAREDNESS TRAINING

PROCEDURE NO. TRA-105

REVISION NO. 17

EFFECTIVE DATE: 12/17/99



PREPARED BY (Print): Bill Nix EXT: 5256

TECHNICAL REVIEW BY (Print): John Ellard EXT: 5350

APPROVED BY: [Signature] DATE: 12/9/99

EMERGENCY PLANNING MANAGER

<p style="text-align: center;">CPSES TRAINING MANUAL</p>		<p style="text-align: center;">PROCEDURE NO. TRA-105</p>
<p style="text-align: center;">EMERGENCY PREPAREDNESS TRAINING</p>	<p style="text-align: center;">REVISION NO. 17</p>	<p style="text-align: center;">PAGE 2 OF 21</p>
<p>1.0 <u>PURPOSE</u></p> <p>The purpose of this procedure is to describe the Emergency Preparedness Training Program.</p> <p>2.0 <u>APPLICABILITY</u></p> <p>This procedure applies to TXU and contract employees at Comanche Peak Steam Electric Station (CPSES).</p> <p>3.0 <u>REFERENCES</u></p> <p>3.1 STA-106, Nuclear Training Records</p> <p>3.2 STA-302, Station Records</p> <p>3.3 STA-419, Training and Program Review Boards</p> <p>3.4 TRA-600, Nuclear Training Department Instructor Training</p> <p>3.5 NTP-104, Development</p> <p>3.6 Security Qualification and Training Plan</p> <p>3.7 Staff Guideline 15, Remedial Training</p> <p>3.8 INPO 96-009, Maintaining Emergency Preparedness Manual</p>		

CPSES TRAINING MANUAL		PROCEDURE NO. TRA-105
EMERGENCY PREPAREDNESS TRAINING	REVISION NO. 17	PAGE 3 OF 21
<p>4.0 <u>DEFINITIONS/ACRONYMS</u></p>		
<p>4.1 <u>Acronyms</u></p>		
<p>4.1.1 <u>ERO</u> - Emergency Response Organization</p>		
<p>4.1.2 <u>PAD</u> - Position Assistance Document</p>		
<p>4.2 <u>Definitions</u></p>		
<p>4.2.1 <u>Continuing Training</u> - Training required to maintain an individual's ERO qualifications.</p>		
<p>4.2.2 <u>Emergency Response Organization (ERO)</u> - Personnel assigned to perform selected emergency response tasks during a declared emergency.</p>		
<p>4.2.3 <u>Initial Training</u> - Training required for assignment to the ERO.</p>		
<p>4.2.4 <u>Key ERO positions</u> - Personnel in the CPSES ERO who have the responsibility to perform safety-significant functions as identified in NEI 99-002.</p>		
<p>4.2.5 <u>Offsite Response Agencies</u> - offsite emergency organizations and agencies who may be called upon to provide assistance in the event of an emergency.</p>		
<p>4.2.6 <u>Plant staff</u> - personnel employed or contracted by TXU who are involved in or support the operation, construction, and maintenance of CPSES.</p>		
<p>4.2.7 <u>Remedial Training</u> - Training to correct unsatisfactory performance.</p>		
<p>4.2.8 <u>Walkdown</u> - Accomplishment of position specific tasks by simulating, walking through, or performing tasks at the job site.</p>		

CPSES TRAINING MANUAL		PROCEDURE NO. TRA-105
EMERGENCY PREPAREDNESS TRAINING	REVISION NO. 17	PAGE 4 OF 21
<p data-bbox="201 296 594 327">5.0 <u>RESPONSIBILITIES</u></p> <p data-bbox="201 386 634 417">5.1 <u>Nuclear Training Manager</u></p> <p data-bbox="293 476 505 508">Responsible for:</p> <ul data-bbox="293 567 1398 598" style="list-style-type: none">● Processing training records and associated documents per STA-106 and STA-302. <p data-bbox="201 657 816 688">5.2 <u>Emergency Planning Manager [C-03192]</u></p> <p data-bbox="293 747 505 779">Responsible for:</p> <ul data-bbox="293 840 1325 1245" style="list-style-type: none">● Identifying the training needs of CPSES Emergency Response Organization.● Periodically reviewing this program for effectiveness.● Maintaining this procedure current.● Reviewing and approving CPSES ERO lesson plans.● Reviewing or concurring with training waivers/exemptions per STA-106. <p data-bbox="201 1304 839 1335">5.3 <u>CPSES Emergency Response Organization</u></p> <p data-bbox="293 1394 1110 1425">Responsible for completing training activities per this procedure.</p>		

6.0 INSTRUCTIONS

6.1 General Information

6.1.1 The Emergency Preparedness Training Program is administered at group levels. The extent of training that each group receives is dependent on an individual's responsibility to emergency preparedness.

6.1.2 The groups are divided as follows:

- Plant staff
- Emergency Response Organization
- Offsite Response Agencies

6.1.3 A Position-vs-Training Matrix (ATTACHMENT 8.1.1) outlines training requirements for specific positions on the CPSES Emergency Response Organization Roster.

6.1.4 A Course Catalog (ATTACHMENT 8.1.2) summarizes the training courses.

6.2 Training Per Personnel Groups

6.2.1 Plant Staff

6.2.1.1 Information on reporting emergencies and expected actions shall be presented to the individuals when they are initially processed into the site (typically Plant Access Training or vendor/contractor indoctrination). (C-23561)

6.2.1.1.1 Security personnel are trained per the Security Training and Qualification Plan.

6.2.1.2 Information should include:

- Reporting emergencies.
- Expected actions in case of an emergency.

6.2.2 Emergency Response Organization [C-05652]

6.2.2.1 Initial Training Requirements

6.2.2.1.1 To be assigned to the Emergency Response Organization (ERO) prospective ERO members shall:

successfully complete initial training requirements and reading assignments for their ERO position as specified on Attachment 8.1.1 Position vs Training Matrix.

AND

receive a SAT rating on an ERO Position Walkdown Evaluation Sheet

6.2.2.1.2 Successful completion of initial training is accomplished by scoring 80% or above on a written examination.

6.2.2.1.3 Satisfactory demonstration of the performance evaluated by an Emergency Planning representative is a SAT rating on an individual's ERO Position Walkdown Evaluation Sheet.

6.2.2.1.4 Training completed per Attachment 8.1.1, "Position vs Training Matrix" for a given ERO position may be applied to any subsequent ERO position.

6.2.2.1.5 Individuals that have been removed from the ERO for more than 1 calendar year should complete all initial training requirements prior to being placed back on the ERO.

6.2.2.1.6 Waivers may be granted for classroom study, self-study, and/or CBT training. However, the individual, for whom this waiver is to be granted, should have their performance evaluated and receive a SAT rating on an ERO Position Walkdown Evaluation Sheet.

6.2.2.2 Continuing Training Requirements

Every calendar year ERO members shall:

complete classroom study, self-study, and/or Computer Based Training (CBT) relative to their ERO position.

AND

Every two calendar years personnel in positions listed on Attachment 8.1.3, "Key ERO Positions", shall:

participate in an exercise or drill in their ERO position and receive a SAT rating on an Emergency Response Organization Drill/Exercise Evaluation Sheet. (Other ERO members should participate in an exercise or drill every two calendar years.)

or

perform as a Controller/Evaluator for their position (or equivalent) in a drill or exercise.

or

receive a SAT rating on an ERO Position Walkdown Evaluation Sheet.

6.2.2.3 Disqualification

6.2.2.3.1 Disqualification for emergency response duties for an ERO member results from:

continuing training - less than 80% on written exam, if given.

an UNSAT rating verified by Emergency Planning on either an Emergency Response Organization Drill/Exercise Evaluation Sheet or ERO Position Walkdown Evaluation Sheet

or

failure to complete annual continuing training requirements identified in paragraph 6.2.2.2.

6.2.2.3.2 Guidance to requalify personnel to the ERO is contained in an Emergency Planning Staff Guideline.

6.2.2.4 A Seminar, Tabletop, Walkdown, Computer Base Training, or Self-Paced Study, as appropriate, should be used to familiarize ERO members with major changes to emergency response facilities, equipment, and computer hardware/software.

<p style="text-align: center;">CPSES TRAINING MANUAL</p>		<p style="text-align: center;">PROCEDURE NO. TRA-105</p>
<p style="text-align: center;">EMERGENCY PREPAREDNESS TRAINING</p>	<p style="text-align: center;">REVISION NO. 17</p>	<p style="text-align: center;">PAGE 9 OF 21</p>
<p>6.2.3 Offsite Response Agencies [C-05654]</p> <p>Training is offered to Offsite Response Agencies annually. The training is conducted or coordinated by TXU representatives. Training includes such topics as:</p> <ul style="list-style-type: none"> ● State and local government emergency plans ● Offsite direction, control, and decision making ● Facility staffing, activation, and operation ● Alerting and informing the public ● Protective action guides ● Establishment of Relocation Centers ● Site access for fire department, ambulance/rescue, and law enforcement personnel ● Squaw Creek Park evacuation ● Set up and management of the Radiation Emergency Area at designated hospitals ● Radiological orientation, including exposure/contamination control and decontamination ● Distribution of information to the news media and public ● Familiarization with CPSES Emergency Classification methodology ● School and special facility response to a CPSES emergency 		

6.3 Training Materials

6.3.1 Lesson Plans should be developed for classroom training.

6.3.2 Lesson Plans should describe the objectives of the lesson and provide sufficient guidance to the instructor to ensure consistency of instruction.

6.3.3 Lesson Plan format should be consistent with NTP-104.

6.4 Instructors

6.4.1 Individuals assigned to instruct CPSES Emergency Response Organization should attend initial instructor training per TRA-600 or equivalent.

6.4.2 Instructors should maintain qualification status by satisfactorily performing assigned teaching assignments.

6.5 Program Evaluation

6.5.1 An annual Program Review should be accomplished per STA-419.

6.5.2 Emergency Response Organization (ERO) members shall be encouraged to provide feedback on the training they receive. [C-27028]

7.0 **FIGURES**

None

<p style="text-align: center;">CPSES TRAINING MANUAL</p>		<p style="text-align: center;">PROCEDURE NO. TRA-105</p>
<p style="text-align: center;">EMERGENCY PREPAREDNESS TRAINING</p>	<p style="text-align: center;">REVISION NO. 17</p>	<p style="text-align: center;">PAGE 11 OF 21</p>
<p>8.0 <u>ATTACHMENTS/FORMS</u></p> <p>8.1 <u>Attachments</u></p> <p> 8.1.1 Position-vs-Training Matrix</p> <p> 8.1.2 Course Catalog</p> <p> 8.1.3 Key ERO Positions</p> <p>8.2 <u>Forms</u></p> <p> None</p> <p>9.0 <u>RECORDS</u></p> <p> When completed, the following documents generated in response to this procedure shall be dispositioned in accordance with STA-302, "Station Records."</p> <p> 9.1 ERO Position Walkdown Evaluation Sheet</p> <p> 9.2 Emergency Response Organization Drill/Exercise Evaluation Sheet</p>		

ATTACHMENT 8.1.1

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POSITION-VS-TRAINING MATRIX

CONTROL ROOM

<u>POSITION</u>	<u>INITIAL TRAINING</u>	<u>RECOMMENDED READING</u>
CR Communicator	PAT, RWT, RPT(SCBA) ⁽¹⁾ , ERB, ECN	ODA-102, EPP-116, EPP-203, EPP-205, EPP-306, PAD
Shift Technical Advisor	PAT, AC1, DAP, ERB, PAR	EPP-121, EPP-201, EPP-303, EPP-304, ODA-102, PAD (Dose Assessor)
Shift Manager (Emergency Coordinator)	PAT, AC1, ERB, EVA, PAR, ECN ⁽²⁾ , SAM (Implementor)	EPP-109, EPP-121, EPP-201, EPP-304, EPP-305, EPP-306, EPP-314, ODA-102, STA-211, SEC-610, PAD SACRG-1, SACRG-2
Unit Supervisor (SROs)	PAT, AC1, ERB ⁽¹⁾ , SAM (Implementor)	EPP-201, ODA-102, STA-211, SACRG-1, SACRG-2
Ops Status Board Comm.	PAT, ERB	EPP-204, PAD
Operations Advisor	PAT, ERB	EPP-204, EPP-201, PAD

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POSITION-VS-TRAINING MATRIX

EMERGENCY OPERATIONS FACILITY

<u>POSITION</u>	<u>INITIAL TRAINING</u>	<u>RECOMMENDED READING</u>
Clerks (EOF, Manager, & Manpower)	PAT, ERB	EPP-206, PAD
Comm. Coordinator	PAT, ERB, ECN	EPP-202, EPP-203, EPP-206, PAD
Communicator	PAT, ECN, ERB	EPP-203, EPP-206, PAD
Contracts Coordinator	PAT, ERB	EPP-206
Dose Assessor	PAT, DAP, ERB	EPP-206, EPP-303, Radiological Workbook, PAD
HP Network Comm.	PAT, ERB	EPP-206, PAD
Log. Support Coord.	PAT, ERB	EPP-206, PAD
Manager (Emergency Coordinator)	PAT, ERB, EVA, PAR, AC1, SAM ⁽¹⁾ (Decision Maker)	EPP-109, EPP-121, EPP-201, EPP-206, EPP-304, EPP-305, EPP-306, EPP-314, PAD
Manpower Coord.	PAT ⁽¹⁾ , ERB	EPP-206, PAD
Offsite Mon. Tm. Comm.	PAT, ERB, ORS	EPP-206, EPP-309, PAD
Offsite Mon. Tm. Dir.	PAT, ERB, ORS	EPP-206, EPP-309, PAD
OffRAC	PAT, ERB, PAR, DAP, EVA	EPP-206, EPP-304, EPP-305, EPP-306, PAD EPP-314, EPP-309, Radiological Workbook.
Ops Status Bd. Recorder	PAT, ERB	EPP-206, PAD
Procurement Coord.	PAT, ERB	EPP-206
Rad. Prot. Coord.	PAT, ERB, EVA, PAR, DAP ⁽¹⁾	EPP-206, EPP-304, EPP-306, EPP-314, PAD
Rad Status Bd. Recorder	PAT, ERB	EPP-206, PAD
RP Tech.	PAT, ERB	EPP-206, PAD
Security Coordinator	PAT, ERB	EPP-206, EPP-314, SEC-610, PAD
Seq. of Events Bd. Rec.	PAT, ERB	EPP-206, PAD
EOF/TSC Liaison	PAT, ERB, AC1 ⁽²⁾	EPP-201, EPP-206
Trans. Veh. Driver	PAT, ERB, RWT ⁽¹⁾	EPP-206
Veh. Drivers-Field Tm.	PAT, RWT, ERB, ORS	EPP-206, EPP-305, EPP-306, EPP-309

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POSITION-VS-TRAINING MATRIX

EXTERNAL (EXT.)

<u>POSITION</u>	<u>INITIAL TRAINING</u>	<u>RECOMMENDED READING</u>
IT Service Coord.	PAT ⁽¹⁾ , ERB ⁽²⁾	EPP-206
EP Advisor	PAT, AC1, ECN, ERB, PAR, EVA, DAP	EPP-109, EPP-121, EPP-201, EPP-203, EPP-204, EPP-205, EPP-206, EPP-207, EPP-303, EPP-304, EPP-309, EPP-312, EPP-314
County EOC Advisor	AC1, ECN, ERB, PAR	EPP-201, EPP-203, EPP-304, PAD
State EOC Advisor	AC1, ERB, PAR	EPP-201, EPP-304

NEWS CENTER

<u>POSITION</u>	<u>INITIAL TRAINING</u>	<u>RECOMMENDED READING</u>
Aide	PAT ⁽¹⁾ , ERB	EPP-207, PAD
Audio Visual Aide	PAT ⁽¹⁾ , ERB	EPP-207, PAD
Briefer	PAT ⁽¹⁾ , ERB	EPP-207, PAD
Company Spokesperson	PAT, ERB	EPP-207, PAD
Elec Media Monitoring Aide	PAT, ERB	EPP-207
Information Coord.	PAT, ERB	EPP-207, PAD
Information Liaison	PAT, ERB	EPP-207, PAD
Media Monitoring Aide	PAT, ERB	EPP-207, PAD
News Conference Mgr.	PAT, ERB	EPP-207, PAD
News Release Writer	PAT, ERB	EPP-207, PAD
Rumor Control Aide	PAT, ERB	EPP-207, PAD
Rumor Control Coord.	PAT, ERB	EPP-207, PAD

ATTACHMENT 8.1.1

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POSITION-VS-TRAINING MATRIX

OPERATIONS SUPPORT CENTER

<u>POSITION</u>	<u>INITIAL TRAINING</u>	<u>RECOMMENDED READING</u>
Chemistry Supervisor	PAT, ERB	EPP-116, EPP-205, PAD
Chemistry Technician	PAT, RWT, RPT(SCBA) ⁽¹⁾ , ERB ⁽¹⁾ , HCI ⁽²⁾	EPP-205, EPP-305, EPP-306, EPP-309, STA-211
ERDC Supervisor	PAT, ERB	EPP-116, EPP-205, PAD (ERDC Supv & OSC Manager)
ERDC Electrician Mechanic I&C Technician	PAT, RWT, RPT(SCBA) ⁽¹⁾ , ERB ⁽¹⁾	EPP-116, EPP-205, EPP-306
First Aid & Rescue	PAT, RWT, RPT(SCBA) ⁽¹⁾ , ERB ⁽¹⁾ , HCI	EPP-205, EPP-305, EPP-306, STA-211
Manager	PAT, ERB	EPP-116, EPP-205, PAD
RP Technician	PAT, RWT, RPT(SCBA) ⁽¹⁾ , ERB ⁽¹⁾ , ORS	EPP-116, EPP-205, EPP-305, EPP-309, PAD (Offsite Team)
Rad. Prot. Supervisor	PAT, ERB, ORS	EPP-116, EPP-205, EPP-305, EPP-306, EPP-309, EPP-314, STA-211, PAD
Rad. Status Bd. Rec.	PAT, ERB	EPP-205, PAD
Seq. of Events Bd. Rec.	PAT, ERB	EPP-205, PAD

ATTACHMENT 8.1.1

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POSITION-VS-TRAINING MATRIX

TECHNICAL SUPPORT CENTER

<u>POSITION</u>	<u>INITIAL TRAINING</u>	<u>RECOMMENDED READING</u>
Comm. Coordinator or Communicator	PAT, ECN, ERB	EPP-203, EPP-204, PAD
Eng. Team (Elect.)	PAT, ERB	EPP-204, Engineering Workbook
Eng. Team (Analysis)	PAT, ERB, SAM ⁽²⁾ (Evaluator)	EPP-204, EPP-312, Engineering Workbook, DFC, SAG's, SCST, SCG's, SAEG's, CA's
Eng. Team (I&C)	PAT, ERB	EPP-204, Engineering Workbook
Eng. Team (Mech.)	PAT, ERB	EPP-204, Engineering Workbook
Eng. Team (Nuc.)	PAT, ERB	EPP-204, EPP-312, Engineering Workbook
Eng. Team (Ops.)	PAT, ERB, AC1	EPP-203, EPP-204, EPP-201, Engineering Workbook
Eng. Team (SAM)	PAT, ERB, SAM (Evaluator)	EPP-204, EPP-312, Engineering Workbook, DFC, SAG's, SCST, SCG's, SAEG's, CA's
Eng. Team Coordinator	PAT, ERB, AC1	EPP-201, EPP-204, EPP-312, Engineering Workbook, PAD
ENS Communicator	PAT, ERB	EPP-203, EPP-204, PAD
ERF Computer Operator	PAT, ERB	EPP-204, SDS Operator's Guide, PAD
Manager or Operations Coordinator (Emergency Coordinator)	PAT, AC1, ERB, EVA, PAR, SAM (Decision Maker)	EPP-109, EPP-121, EPP-201, EPP-204, EPP-304, EPP-305, EPP-306, EPP-314, SEC-610, PAD
OnRAC or Rad. Status Bd. Recorder	PAT, EVA, ERB, PAR, DAP	EPP-204, EPP-303, EPP-304, EPP-305, EPP-306, EPP-314, EPP-309, STA-211, Radiological Workbook, PAD
Ops. Status Bd. Recorder	PAT, ERB	EPP-204, PAD
Seq. of Events Bd. Rec.	PAT, ERB	EPP-204, PAD

- (1) This course is recommended for this position but is not required for ERO qualification.
- (2) A new training requirement added this revision.
- (3) This course is only required for OSC Chemistry Technicians qualified to administer first aid.

CPSES TRAINING MANUAL		PROCEDURE NO. TRA-105
EMERGENCY PREPAREDNESS TRAINING	REVISION NO. 17	PAGE 17 OF 21

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COURSE CATALOG

Accident Classification (AC1)

Covers the following topics:

- evaluation of initiating conditions to determine whether emergency class should be declared, escalated, or terminated.
- criteria for reentry to a previously evacuated onsite areas.
- criteria for closeout of emergency.
- criteria for activation of the Recovery Organization.

Dose Assessment & Projections (DAP)

Covers the following topics:

- gathering radiological, meteorological, and operational data to support dose projections.
- data input to perform computer based dose projections.

Emergency Communications - Notifications (ECN)

Covers the following topics:

- tasks associated with offsite emergency notifications.
- tasks associated with the transfer of emergency notification duties.
- use of the EP Notification Message Computer.

ATTACHMENT 8.1.2

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COURSE CATALOG

Emergency Response Basics (ERB)

Covers the following topics:

- Emergency Plan and Procedures
- Emergency Classifications
- Emergency Response Facilities
- CPSES Emergency Response Organization
- Emergency Response Equipment
- Offsite interfaces
- Personnel protective measures
- Closeout and recovery

Onsite Protective Actions (EVA)

Covers the following topics:

- evacuation of personnel from buildings, areas, and the site.
- accountability of personnel following a site evacuation.
- habitability monitoring of emergency response facilities
- relocation of emergency response facilities
- approval and issue of potassium iodide (I)
- radiological work controls.

Handling Contaminated Injured (HCI)

Covers the control of contamination and exposure without compromising medical care.

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COURSE CATALOG

Onsite & Offsite Radiological Monitoring (ORS)

Covers the following topics:

- tasks associated with in-plant survey teams.
- tasks associated with onsite survey teams.
- tasks associated with offsite monitoring teams.

Plant Access Training (PAT)

Covers the requirements to obtain unescorted access into the Protected Area.

Protective Action Recommendations (PAR)

Covers the following topics:

- developing protective action recommendations.
- approving protective action recommendations.

Radiation Worker Training (RWT)

Covers the requirements for entry into Radiologically Controlled Areas.

Respiratory Protection Training (RPT)

Covers the requirements for the use of respiratory protective equipment.

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COURSE CATALOG

Severe Accident Management (SAM)

Implementors:

Training session includes the following four modules of training:

- Overview for SAMG (OPB1.SAM.AG1)
- Executive Volume for Control Room (OPB1.SAM.AG2)
- SACRG-1 (OPB1.SAM.AG3)
- SACRG-2 (OPB1.SAM.AG4)

Evaluators

Training session includes the following modules of training:

- Overview for SAMG (OPB1.SAM.AG1)
- SAMG for the TSC (EP21.SAM.XY1)
 - Executive Volume for the TSC
 - DFC/SCST
 - Instrumentation
 - SACRG-1 and 2
- Guidelines for the TSC (EP21.SAM.XY2)

Decision Maker

Training session includes the following modules of training:

- Overview for SAMG (OPB1.SAM.AG1)
- SAMG for the TSC (EP21.SAM.XY1)
 - Executive Volume for the TSC
 - DFC/SCST
 - Instrumentation
 - SACRG-1 and 2

ATTACHMENT 8.1.3

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KEY ERO POSITIONS

CONTROL ROOM

Shift Manager

TSC

TSC Manager

TSC Ops Coordinator

TSC ONRAC

TSC Communications Coordinator

TSC Communicator

TSC Rad Status Board Recorder

TSC Engineering Team Coordinator

OSC

OSC Manager

EOF

EOF Manager

EOF RP Coordinator

EOF OFFRAC

EOF Communications Coordinator

EOF Communicator