

Clay C. Warren Vice President Operations Support

APR 9 2001

CO 01-0019

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Mail Stop: P1-137 Washington, D. C. 20555

> Subject: Docket No. 50-482: Changes to Wolf Creek Generating Station (WCGS) Radiological Emergency Response Plan, Implementing Procedures, and Associated Forms

Gentlemen:

In accordance with 10 CFR 50, Appendix E, enclosed are revisions to Wolf Creek Generating Station (WCGS) Radiological Emergency Response Plan (RERP), implementing procedures, and associated forms. The attachment provides a summary of changes to the RERP, implementing procedures, and associated forms. The RERP revision reflects those changes which ensure that the Plan contains the information necessary to satisfy the program content requirements of 10 CFR 50, Appendix E, and 10 CFR 50.54(q). The following is a list of the specific enclosures.

RERP Effective March 13, 2001 AP 06-002, Revision 3 Forms Effective March 22, 2001 EPF 06-004-01, Revision 5 EPF 06-011-03, Revision 0

Procedures Effective March 22, 2001 EPP 06-001, Revision 3 EPP 06-012, Revision 4

If you have any questions concerning this submittal, please contact me at (620) 364-4048, or Mr. Tony Harris at (620) 364-4038.

Verv truly your ? Ware

Clay C. Warren

CCW/rlr

Enclosures Attachment

cc: J. N. Donohew (NRC), w/e G. M. Good (NRC), w/e W. D. Johnson (NRC), w/o E. W. Merschoff (NRC), w/e (2) Senior Resident Inspector, w/o

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P.O. Box 411 / Burlington, KS 66839 / Phone: (316) 364-8831 An Equal Opportunity Employer M/F/HC/VET Attachment to CO 01-0019 Page 1 of 1

Change Summary

AP 06-002, "Radiological Emergency Response Plan (RERP)," Revision 3 Step 3.2.2, removed reference to Unresolved Safety Question Determination (USQD).

EPP 06-001, "Control Room Operations," Revision 3

- Step 7.2.3.1, changed from "Gaitronics" to "Plant All Page system" to ensure everyone on site is notified.
- Step 7.2.4.6, deleted note prior to step; changed from "announced to personnel on-site" to "read over the Plant All Page system" to ensure everyone on site is notified.
- Step 7.2.12, added step to ensure the ENS Communicator position is established. Renumbered remaining two steps.
- Step 7.3, added note prior to step to state the preferred system to be used to make announcements.

EPP 06-012, "Dose Assessment," Revision 4

- Step 3.2.1, added description of the listed Industry Technical Information Program (ITIP).
- Step 6.1, changed from "Rev 2.1" to "Rev 3.0.1" which is being issued.
- Step 7.1.1, added directions on selecting the appropriate tab for dose assessment.
- Step 7.1.1.6, deleted step listing "Containment Release" since it is no longer a useful model.
- Step 7.1.2.1 deleted substeps b, d, & e due to the change in available selections in the new program; renumbered remaining substeps.
- Step 7.1.2.2, updated directions for using the Dose Projection screens.
- Step 7.1.2.5, deleted step since Nuclear Plant Information System (NPIS) information is not available, and renumbered remaining steps.
- Step 7.1.3.1.d, added new substep to list "Long Range Calculation" which was added to program.
- Step 7.1.4, deleted all substeps and added new substep 1 to state that off-site dose calculation will be displayed.
- Step 7.1.5, added step that Long Range Calculations will be displayed on Model Screen.
- Step 7.2.1, updated description for starting the program.
- Step 7.2.2, changed methodology for selecting the Release Model.
- Step 7.2.6, deleted reference to step 7.2.12; changed reference from 7.2.12 to 7.2.11.
- Step 7.2.12, deleted step and all substeps since the Containment (CTMT) release model is no longer used.

EPF 06-004-01, "Public Information Organization Activation Checklist," Revision 5 Changed all the 316 area codes to 620.

EPF 06-011-03, "Airborne Radioactivity Calculations," Revision 0

Changed "Particulate" to "lodine" in the lower right hand side of the form. The second formula at the bottom of the form is for lodine.

CORRECTED COPY 04/09/2001



AP 06-002

RADIOLOGICAL EMERGENCY RESPONSE PLAN (RERP)

Responsible Manager

Manager Resource Protection

Revision Number	3
Use Category	Reference
Administrative Controls Procedure	Yes
Infrequently Performed Procedure	No
Program Number	06
DC12 03/13/2001	· · · · · · · · · · · · · · · · · · ·

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1.0 PURPOSE

1.1 The purpose of the Wolf Creek Generating Station (WCGS) Radiological Emergency Response Plan (RERP) is to classify emergencies, assign responsibilities for actions, and to establish the lines of authority and communications to protect the public and plant personnel in the event of an emergency.

2.0 <u>SCOPE</u>

- 2.1 The RERP has been developed in accordance with 10CFR Part 50, Paragraph 50.47 and Appendix E, Regulatory Guide 1.101 and generally follows the guidelines of NUREG 0696 and 0654. The RERP is sensitive to a broad spectrum of emergency conditions which have been postulated for a commercial pressurized water reactor. Although the probability of an accident is low, the RERP is maintained to assure the safety and well-being of plant personnel and members of the public in the vicinity of WCGS.
- 2.2 The RERP interfaces with several related documents such as the Administrative Procedures (APs) and Emergency Plan Procedures (EPPs). Detailed instructions necessary to support the RERP are included in these procedures and are available for training, drill, and actual emergency use. The RERP references the WCGS Fire and Security Plans, Vendor contingency plans as well as those of medical support facilities and the Institute of Nuclear Power Operations (INPO). This document has been designed to coordinate with the State Emergency Operations Plan and the Coffey County Contingency Plan for Incidents Involving Commercial Nuclear Power, which govern the activities of these support groups in response to events at WCGS.
- 2.3 The RERP is based on a graduated, escalating level of emergency response which is activated as conditions at the plant warrant. This approach provides the flexibility necessary to ensure adequate emergency response to a spectrum of possible events. The RERP is designed to control emergency response activities ranging from initial event detection, classification of the event, notification of off-site authorities and providing protective action recommendations to the county and state.
- 2.4 The RERP reflects three chief phases of activation. First the response is dominated solely by the site staff, next the onsite and off-site public information facilities are jointly activated, and finally the recovery efforts are performed by site, public information facilities, vendor, and other critical support groups.

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2.5	The WCGS normal operating organization and its functional
	responsibilities are described in the WCGS Technical
	Specifications, Administrative Procedures, Human Resources
	company organization charts and the WCGS Updated Safety Analysis
	Report (USAR). No further discussion of the normal operating
	organization is contained within the RERP.

- 2.6 The WCGS design bases accidents and various plant systems are listed and described in the WCGS Technical Specifications and USAR. No further discussion of these accidents or systems is contained within the RERP.
- 2.7 The owners of WCGS do not respond to the site during emergency events for augmentation. The Wolf Creek Nuclear Operating Corporation organization functions from the site during normal everyday operations.

3.0 REFERENCES AND COMMITMENTS

3.1 References

- 3.1.1 Coffey County Contingency Plan for Incidents Involving Commercial Nuclear Power (County Plan)
- 3.1.2 State of Kansas, Appendix 12, Nuclear Facilities Incidents Response Plan to Annex N, Nuclear Emergencies of the State Emergency Operations Plan (State Plan)
- 3.1.3 Updated Safety Analysis Report (USAR)
- 3.1.4 NUREG 0654, Criteria For Preparation And Evaluation Of Radiological Emergency Response Plans And Preparedness In Support Of Nuclear Power Plants
- 3.1.5 NUREG 0696, Functional Criteria For Emergency Response Facilities
- 3.1.6 NUREG 0737, Clarification Of TMI Action Plan Requirements
- 3.1.7 Title 10, Code Of Federal Regulations, Part 50
- 3.1.8 Regulatory Guideline 1.101
- 3.1.9 Regulatory Guide 1.145
- 3.2 Commitments
 - 3.2.1 RCMS #93-325, Emergency Action Levels Converted To NUMARC EALs
 - 3.2.2 APF 06-002-01, EMERGENCY ACTION LEVELS, required to have a 50.54(q) review performed for each revision.

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4.0 DEFINITIONS

- 4.1 Administrative Procedures (APs)
 - 4.1.1 Procedures which provide programmatic responsibilities and are typically used to solve problems, assemble documentation, process information, and present results of administrative functions.
 - 4.1.2 Administrative procedures control activities affecting quality or nuclear safety.
- 4.2 As Low As Reasonably Achievable (ALARA)
 - 4.2.1 Making every reasonable effort to maintain exposures to radiation as far below dose limits as is practical, consistent with the purpose for which the licensed activity is undertaken, taking into account the state of technology, the economics of improvements in relation to benefits to the public health safety, and other societal and socioeconomic considerations.
- 4.3 Alert
 - 4.3.1 Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the Environmental Protection Agency (EPA) Protective Action Guideline (PAG) exposure levels.
- 4.4 Assessment Actions
 - 4.4.1 Those actions taken during or after an accident to obtain and process information that is necessary to make decisions to implement specific emergency measures.
- 4.5 Coffey County Emergency Operations Center (County EOC)
 - 4.5.1 The base of operations for the Coffey County Emergency Response Organization.
- 4.6 Consultant/Vendor
 - 4.6.1 The Nuclear Steam System Supplier (NSSS), Architect/Engineer, and other organizations who have available multidiscipline teams ready to support emergency response and Recovery Operations.
- 4.7 Control Room

4.7.1 The location at the WCGS from which the reactor and its auxiliary systems are normally controlled.

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4.8 Drill

4.8.1 A supervised activity used to develop and maintain skills. On the spot correction of erroneous performance is permitted.

4.9 Emergency Action Levels (EALs)

4.9.1 Radiological dose rates; specific contamination levels of airborne, waterborne or surface-deposited concentrations of radioactive materials; or specific instrument indications that may be used as thresholds for designating a particular class of emergency.

4.10 Emergency Alert System (EAS)

4.10.1 A coordinated network of broadcasters (e.g. Radio, Television, Cable) that allows the President to address the nation, Governors to address their State and public safety officials to address local citizens with emergency information.

4.11 Emergency Classification

4.11.1 A system used to define the severity of emergencies into one of four categories based upon projected or confirmed emergency action levels. Classifications listed in order of increasing severity are Notification of Unusual Event (NUE), Alert, Site Area (SAE) and General Emergency (GE).

4.12 Emergency Operations Facility (EOF)

4.12.1 This facility serves as a base of operations for all emergency plant support activities, site environmental surveillance, communications with supporting agencies, and the WCGS Emergency Organization.

4.13 Emergency Plan Procedures (EPPs)

4.13.1 Specific procedures providing step-by-step actions to implement the WCGS Radiological Emergency Response and Recovery Plans, and to provide guidance to improve or terminate an emergency situation.

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4.14 Evacuation Registration Centers

4.14.1. Facilities designated for receiving personnel evacuating the Emergency Planning Zone (EPZ) for accountability, contamination monitoring and decontamination.

4.15 Exclusion Area

4.15.1 That area within a 1200-meter radius of the Containment Building in which WCGS has the authority to determine all activities including exclusion or removal of persons and property from the area.

4.16 Executive Management

4.16.1 Those members of WCGS management at the vice president level and above.

4.17 Exercise

4.17.1 An event that simulates a radiological emergency condition, incorporates the integrated capability of the basic elements existing within the Radiological Emergency Response Plan (RERP). These events are normally evaluated by FEMA / NRC.

4.18 General Emergency (GE)

4.18.1 Events are in process or have occurred which involve actual or imminent substantial core degradation with potential for loss of containment integrity. Releases can reasonably be expected to exceed EPA Protective Action Guideline exposure levels off-site for more than the immediate site area.

4.19 Immediate Notification

4.19.1 Notification made to State of Kansas and Coffey County authorities within 15 minutes of a declared emergency at WGCS.

4.20 Information Clearinghouse (IC)

- 4.20.1 The facility where news statement and news conference materials for the media are prepared.
- 4.21 Kansas State Emergency Operations Center (State EOC)

4.21.1 The command-and-control center for the state.

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4.22 Licensed Operators

4.22.1 WCGS Reactor Operators and Senior Reactor Operators who are licensed under 10CFR55 and who stand watches on shift and report to the Shift Manager.

- 4.23 Media Center (MC)
 - 4.23.1 Facility utilized as a focal point for giving information to the media through news conferences.
- 4.24 Notification of Unusual Event
 - 4.24.1 Events in process, or have occurred, which indicate a potential degradation of the level of safety of the plant. No releases of radioactive material requiring off-site response or monitoring are expected unless further degradation of safety systems occurs.
- 4.25 Off-site

4.25.1 Any area outside the Exclusion Area of WCGS.

4.26 Onsite

4.26.1 Any area inside the Exclusion Area of WCGS.

4.27 Operations Support Center (OSC)

4.27.1 A staging area for emergency teams to support the emergency response effort.

- 4.28 Protective Actions
 - 4.28.1 Those emergency measures taken before or after a release of radioactive material has occurred for the purpose of preventing or minimizing radiological exposures to personnel.
- 4.29 Protective Action Guides (PAGs)
 - 4.29.1 Guides promulgated by the Environmental Protection Agency (EPA) which set dose limits for the evacuation of the public during an accident condition at a nuclear power plant.
- 4.30 Radiologically Controlled Area (RCA)
 - 4.30.1 An area to which access is controlled by WCGS for purposes of protection of individuals from exposure to radiation or radioactive materials.

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4.31 Recovery

4.31.1 Post-emergency efforts initiated to restore WCGS to full operation or place the plant in a safe shutdown condition until full operation can be resumed.

4.32 Site Area Emergency (SAE)

4.32.1 Events are in process or have occurred which involve actual or likely major failures of plant functions needed for protection of the public. Any releases are not expected to result in exposure levels which exceed EPA Protective Action Guideline exposure levels except near the site boundary.

4.33 Technical Support Center (TSC)

4.33.1 The TSC serves as a center outside of the Control Room that acts in support of the command-and-control function and houses the OSC organization. Plant status and diagnostic information are available at this location for use by technical and management personnel in support of reactor command-and-control functions.

5.0 RESPONSIBILITIES

- 5.1 Site Emergency Manager
 - 5.1.1 Assumes command and control of the emergency and directs onsite response to stabilize plant conditions.
- 5.2 Off-site Emergency Manager
 - 5.2.1 Assumes command and control of the emergency and interfaces with off-site agencies.
- 5.3 Superintendent Emergency Planning
 - 5.3.1 Ensures the Emergency Planning Program is implemented and maintained as required to protect the health and safety of the public.
 - 5.3.2 Ensures changes to the overall Emergency Planning Program meets the standards of 10CFR50.47(b) and the requirements of 10CFR50, Appendix E.
- 5.4 Nuclear Safety Review Committee (NSRC)
 - 5.4.1 Ensures a review of the WCGS Emergency Preparedness Program will be performed at least once every twelve months in accordance with 10CFR 50.54(t).

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5.5 President and Chief Executive Officer

- 5.5.1 Maintains overall authority and responsibility for the WCGS Emergency Preparedness Program.
- 5.6 Public Information Officer (PIO)
 - 5.6.1 The PIO has the authority and responsibility for the WCGS Public Information Organization and all plant information disseminated to the media.
- 5.7 Shift Manager (SM)
 - 5.7.1 The Senior Reactor Operator designated by WCGS management with immediate onsite authority and responsibility for the safe and proper operation of the plant. This position is staffed at all times. The Shift Manager is responsible for the initial evaluation of any abnormal or emergency situation and for directing the appropriate response. He assumes responsibilities of the Emergency Manager until relieved.

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6.0 PROCEDURE

6.1 Site Description

- 6.1.1 WCGS is a Pressurized Water Reactor (PWR) nuclear generating station operated by Wolf Creek Nuclear Operating Corporation (WCNOC).
- 6.1.2 WCGS is located near the center of Coffey County, Kansas (KS), about 3.5 miles northeast of Burlington, the county seat, 90 miles southwest of Kansas City, MO and 55 miles south of the state capital Topeka, KS.
- 6.1.3 The immediate site environs are sparsely populated. Burlington and New Strawn are the major population centers. John Redmond Reservoir (JRR) and Coffey County Lake (CCL) are the major recreational facilities. Most of the seasonal or daily shifts in population are associated with recreational areas around JRR and CCL. Approximately 70% of the annual visitors to the John Redmond Reservoir and Coffey County Lake come to the area during the summer months.
- 6.1.4 Coffey County totally encompasses the 10-mile Plume Exposure Emergency Planning Zone (EPZ) which forms a major consideration in the RERP.
- 6.1.5 The total population of the effective 10-mile EPZ is shown in ATTACHMENT B, SUBZONE EVACUATION TIMES. With the exception of Burlington and the other population centers listed in ATTACHMENT A, EFFECTIVE 10-MILE POPULATION CENTERS, the population density of the effective 10-mile EPZ is approximately 4.4 persons per square mile. Other than the WCGS, there are no large industries in the area.
- 6.1.6 Principal geographical features within the effective 10-mile EPZ are the Neosho River, JRR, and CCL. The land around WCGS is flat with scattered low hills. Dense vegetation in the form of large trees exists on the banks of the river and in recreational areas. There are no topographical features within the effective 10-mile EPZ that significantly influence the design of the Alert and Notification System.
 - 1. Sparsely populated farm land comprises the majority of the effective 10-mile EPZ.
 - 2. The site also demonstrates favorable topography, demography, and meteorology, which have been factored into many analyses that support the emergency planning effort.

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		3. The Neosho River is oriented northwo and extends to within 3 miles south plant.	
		4. The main dam of the John Redmond Reamines west of the plant. This wates pool is approximately 4 miles in dia surface area of 15 square miles.	r conservation
		5. The Coffey County Lake is approximal long with a normal surface area of	tely 7 miles 8 square miles.
	6.1.7	Approximately 99% of the 10-mile EPZ is Coffey County and 1% within Anderson Co- has been defined by developing sub-zone natural and political subdivisions. The described for evacuation zones approxim 10-mile radial rings. This distribution identification of areas to be evacuated public recognition of subzones in which reside. FIGURE 1, EFFECTIVE 10 MILE EP EVACUATION ROUTES, presents the 2, 5 an zones and subzones which provides the b design of an alert and notification sys	unty. The EPZ s based upon ese have been ating 2, 5 and n allows ready and facilitate they work or Z, SUBZONES ANI d 10-mile radia asis for the
	6.1.8	The meteorological conditions within the mile EPZ are characterized by a distinc climate with warm humid summers and hig winter weather. Maritime tropical air the Gulf of Mexico is the dominant air through August. This air mass is quite in considerable thunderstorm activity. through February, continental polar air climate.	tly continental hly variable originating ove mass from June humid resultir From November
6.2	Emergen	cy Classifications	
	6.2.1	10 CFR Part 50, Appendix E, Section IV. classification scheme of four specific emergencies. NUMARC/NESP 007 is identi REGULATORY GUIDE 1.101 and is considere an acceptable alternative method to tha Appendix 1 to NUREG 0654. [Commitment	levels of fied within ed by the NRC as at described in
	6.2.2	An emergency class is a qualitative est status of the plant. Inputs to the eme classification system include the statu systems and the levels of radiation in effluents. However, an emergency class qualitative or quantitative estimate of status of the plant or radioactive rele	ergency as of plant plant areas and does not give the subsequen

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6.2.3	The emergency classes are used by off-s: to determine the level of preplanned act taken by their emergency organizations. actions taken on behalf of members of the the legal responsibility of state and lo	tions to be Protective he public are
	1. The functional interfaces between Wo emergency organizations are shown in EMERGENCY ORGANIZATIONS INTERFACES.	
6.2.4	The classification system used at WCGS that ranges from primarily event-based Event to primarily symptom or barrier-based Emergencies. This is to better assure recognition and notification occurs, the occurring during refueling and cold shu appropriately covered, and that multiple effectively treated.	for Unusual ased for Genera that timely at events tdown are
6.2.5	The Emergency Action Levels (EAL) are constant of the Emergency Action Levels (EAL) are constant of the Action Levels. The developed and agreed upon by WCGS, the and Coffey County and approved by the N Step 3.2.1]	e EAL have been State of Kansas
	 The EAL are reviewed annually by th County. 	e State and
6.2.6	Each emergency classification causes ce happen such as notifications, activatio evacuation.	rtain actions t n and
	 An NUE requires plant personnel, th State to be notified. No evacuatio required. 	e County and n or activation
	2. An Alert requires plant personnel, State to be notified. The ERO is c the emergency facilities are activa Accountability may be performed if	alled out and ted.
	3. A Site Area Emergency requires plan County and State to be notified. Th out and the emergency facilities ar The protected area is evacuated of personnel for accountability. JRR evacuated. Accountability for site performed.	e ERO is called e activated. non-responding and CCL are

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4.	A General Emergency requires plant personnel, the
	County and State to be notified. The ERO is called
	out and the emergency facilities are activated.
	The site is evacuated of non-responding personnel.
	JRR and CCL are evacuated. Accountability for site
	personnel is performed.

6.3 Emergency Measures

- 6.3.1 Protective actions to minimize personnel exposure are taken when an incident has occurred, or may occur, which could result in a fission product barrier challenge or breach. In addition, protective actions are taken for personnel onsite for situations such as fires or flooding, where personnel safety is threatened.
- 6.3.2 Emergency measures consist of assessment, corrective, and protective actions. The Shift Manager and Senior Reactor Operators assume immediate responsibility for accident assessment and mitigation. The RERP and detailed emergency actions are based on the assumption that, in an emergency, licensed operators take appropriate measures to maintain or return the facility to a safe condition, in accordance with operating license conditions and the technical specifications.
 - Callout of the ERO to augment the on-shift staff and to activate the Emergency Facilities is performed at an Alert or higher classification or whenever augmentation is deemed necessary.
- 6.3.3 Immediate and Follow-up notifications made to State and County authorities provide information for their use in making prompt decisions for notifying the public and ordering off-site protective actions.
 - 1. Immediate notifications are made for each emergency classification.
 - 2. Immediate notifications are made to the Coffey County Sheriff dispatcher and the Kansas Division of Emergency Management State Duty Officer within 15 minutes.
 - 3. The notification form contains information agreed upon by WCGS, the State and County for each of the Immediate and Follow-up notifications. The following is a list of information that may be on the form:
 - o Name of facility
 - o Date and time of classification

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	o Classification
	o Release status, type of material and estimated duration
	o Affected subzones, if any
	o Message authentication of phone call
	o Recommended Protective Actions
	o Meteorological conditions
	o Dose rates at site boundary
	o Event Prognosis, worsening or termination
6.3.4	Actions to protect the general public, and criteria fo their implementation, are described in the State Plan. Protective action recommendations are made to the County and State authorities.
	1. ATTACHMENT E, EPA/KANSAS PROTECTIVE ACTION GUIDES, illustrates the EPA/Kansas PAGs for members of the public in the vicinity of WCGS and contains information typical of what may be used for the PA guidelines. The Attachment provides guidelines an action levels to be used to develop protective action recommendations. Actions taken off-site ar the responsibility of County and State officials.
	2. Evacuation is the normally anticipated off-site protective action. Sheltering may be the preferre protective action when it will provide protection equal to or greater than evacuation. ATTACHMENT B, SUBZONE EVACUATION, contains evacuation times for the general and transient public.
	 An Alert and Notification System, made up of a number of sirens, is one means of alerting the public. Tone Alert radios are also used for notifications.
6.3.5	Contact point for information concerning the County Plan, protective measures, and special needs of the handicapped is the County Emergency Preparedness Office.
6.3.6	Additional resources available for accident assessment include the Post Accident Sampling System, accident monitoring, and in-plant iodine instrumentation under accident conditions. Detailed discussions of these resources and their capabilities are found in the USA

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6.3.7	The Emergency Dose Calculation Program (EDCP) is a computerized method to provide dose estimates using actual or estimated meteorological data (wind speed, wind direction, degree of cloud cover, day or night determination) and radiological effluent data (actual measurements, estimated values based upon USAR source terms, or field measurements). EDCP is designed to: [Reference Step 3.1.9]
	 Use radiological and meteorological information to provide an estimate of off-site exposure.
	 Be capable of estimating release rates and off-sit exposures from off-site field team data.
	3. Be capable of estimating release rates and off-sit exposures for an unmonitored, pressure driven containment release using the Containment High Are Radiation Monitor readings and changes in containment pressure.
	4. Off-site dose predictions when combined with actual release duration information and meteorological data during an event, provide sufficient data to estimate the cumulative population dose resulting from the event. The actual off-site population dose is confirmed by off-site monitoring, sampling and analysis.
6.3.8	Radiological monitoring teams have a goal of 60 minute from the declaration of Alert or greater emergency to be ready for deployment to confirm effluent readings and verify plume emission and locations.
6.3.9	FIGURE 7, WCGS EMERGENCY RESPONSE FACILITIES, provides a view of the off-site area, showing the location of the EOF. FIGURE 8, DIRECT RADIATION PATHWAY SAMPLING LOCATIONS, shows the fixed air sampling and TLD locations. FIGURE 9, WATERBORNE PATHWAY SAMPLING LOCATIONS, shows locations for collecting water samples.
6.3.10	At a Site Area Emergency, General Emergency, or when accountability is required, all personnel not responding to an Emergency Response Facility report to an assembly area for accountability and additional information. ERO personnel report to their assigned emergency facility. Security reports the results of

emergency facility. Security reports the results of accountability to the TSC.

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6.3.11	If the Exclusion Area is evacuated, then direct an inspection of the lake and lan the Exclusion Area but outside of the Pr ensure that all personnel not responding Emergency Response Facility are evacuate Exclusion Area.	nd area within rotected Area to g to an	
6.3.12	WCGS procedures contain decontamination and guidelines. Methods for determining individual is a potential inhalation or contamination case are also provided. Coordinator or appropriate Health Physic personnel will review the records general decontamination procedures.	g if the ingestion The Radiologica: cs supervisory	
	 Decontamination can be performed in control area of the Control Buildin room of the TSC, and in the laborat EOF. 	g, in the HVAC	
	2. Other decontamination areas are set by the Health Physics personnel on		
6.3.13	Respiratory protective devices and protective clothin are stored at several locations onsite and at the EC The use of protective clothing and respiratory protection equipment is governed by normal WCGS procedures.		
6.3.14	A supply of potassium iodide (KI) is ma Control Room, TSC and the EOF to be use that an individual may be exposed to ra	d in the event	
6.3.15	There are suggested levels of exposure in emergencies. Immediate reentry may save a life, account for missing person vital equipment. The Emergency Manager responsible for exposure control and ca receiving of up to 5 REM per person for activities, 10 REM for saving valuable REM for lifesaving after consulting wit feasible. Exposure which might exceed lifesaving activities, must be approved Manager. Although EPA and NRC do not p guidance for the upper bounds for lifes WCGS has chosen to use the following cr	be necessary to nel, or secure s are ultimatel n permit the work equipment and 2 h the NRC, if 25 REM, for by an Emergence provide specific aving exposure,	

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	 Emergency Managers shall not knowingly permit an individual's exposure to exceed 25 REM, unless it is for lifesaving activities or protection of large populations. Emergency Managers shall not knowingly permit an individual to enter a high dose area if the projected Total Effective Dose Equivalent (TEDE) is expected to exceed 75 REM.
	 Those individuals designated to exceed 25 REM must be volunteers and be fully aware of the risks involved.
	2. Emergency Managers should obtain the advice and concurrence of the Radiological Coordinators in approving additional exposure.
6.3.16	Under emergency conditions, normal exposure controls are maintained. This is ensured by the on-shift Health Physics Technician (HP) in the Control Room, the Team Directors in the TSC and EOF.
6.3.17	The Radiological Coordinator has responsibility for maintaining exposure control for site activities, including establishment of access control at alternate locations. Strict exposure control of individuals passing through the access point is maintained on a 24- hour-per-day basis.
6.3.18	In order to enhance the exposure control process and to provide dosimetry for an expanded number of people, dosimetry vendors are available to expedite shipment of extra dosimetry devices to supplement existing onsite supplies of dosimetry equipment and to supply personnel to assist in onsite appraisal of exposures.
6.3.19	When activated, the Emergency Response Team covers emergency sampling, surveying, analysis, and hazard evaluation.
6.3.20	The Post Accident Sampling System (PASS) accomplishes automatic, remote-controlled reactor coolant system and containment atmosphere sampling while minimizing personnel exposure.
6.3.21	Personnel, instruments, and equipment are to be monitored at the access control point. Personnel and equipment decontamination is controlled in accordance with WCGS procedures.
6.3.22	WCGS maintains control over the Exclusion Area as necessary, restoring affected onsite areas to acceptable conditions for access.

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- Reentry into affected areas is a controlled evolution. Surveys are performed, environmental samples are obtained and analyzed, and areas posted or decontaminated.
- 6.3.23 Contamination limits for food supplies and drinking water are based upon the State of Kansas Protective Action Guides, as presented in ATTACHMENT E, EPA/KANSAS PROTECTIVE ACTION GUIDES.

6.4 Emergency Facilities

- 6.4.1 Control Room Facilities
 - The Control Room is designed to be habitable under emergency conditions. The Control Room contains controls, instruments, and communications equipment necessary for operation of the plant under both normal and emergency conditions. The ventilation system, shielding, and structures are designed and built to permit continuous occupancy during a postulated design basis accident.
 - 2. Equipment available in the Control Room gives early warning and continuous evaluation of potential emergency situations. Portable radiation survey instruments are readily available within the Control Room.
 - 3. Access to the Control Room is controlled by the Shift Manager.

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6.4.2	Tec	nical Support Center Facilities	
	1.	The TSC is a brisk 2 minutes and 15 s from the Control Room inside the Prot This is sufficiently close to permit interaction between personnel in the and the TSC, should telephone communi inoperable.	ected Area. face-to-face Control Room
	2.	The TSC is activated in the event of higher emergency. The TSC may be act an NUE at the discretion of the Shift	ivated during
	3.	The TSC is designed to the seismic cr Uniform Building Code. It is designe 100-year-recurrence winds and is loca probable maximum flood level.	ed to withstan
		a. The manually activated single-train Category I TSC ventilation system efficiency particulate air and chat The radioiodine monitoring equipment provides a designed minimum detect 1.0E-07 uCi/cc radioiodine. A rad (including the monitor for radioio to alert TSC personnel if radiation affect the habitability of the TSC	utilizes high arcoal filters ant in the TSC table level of diation monito odines) alarms on levels may
		b. Portable radiation monitoring equi provided in the TSC for backup rac monitoring capability.	
		c. Equipment for Emergency Response T available in the TSC. This equipm protective clothing, dosimetry, su and respirators.	ment includes
		d. A diesel generator is available to backup power to the TSC. Until th loaded, batteries are available fo Plant Instrument System (NPIS).	he diesel is
		e. The TSC is sized to accommodate a persons and has the same radiolog: habitability as the Control Room a conditions.	ical
	4.	Personnel in the TSC have access to the materials:	the following
		 WCGS USAR, Environmental Report, a Specifications 	and Technical

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		o WCGS, State, and Coffey County emergency response plans
		o System drawings, schematics, and diagrams
6.4.3	Ope	rations Support Center
	1.	The OSC is housed in the TSC and is activated whenever the TSC is activated.
	2.	The OSC serves as an assembly area for plant personnel immediately serving in emergency repair or Health Physics support capacity during an event The OSC functions include the coordination, formation and dispatch of Emergency Response Teams
	3.	The basement of the Security Building has been identified as an alternate location for the OSC function. It contains telephones and a Gai-Tronic call box, which will allow direct communications with the other emergency centers. Portable radios are available to key personnel to further provide communications with other emergency centers.
6.4.4	Eme	rgency Operations Facility (EOF)
	1.	The EOF is located approximately 2.8 miles north northwest of WCGS, in the Dwight D. Eisenhower Learning Center, and is activated at an Alert or higher emergency. Following facility activation, overall emergency response is managed from the EOF
		a. This facility serves as a center for evaluation and coordination of environmental activities related to the emergency including radiological assessment and the evaluation of potential or actual radioactive releases from the plant.
	2.	The EOF design life is equivalent to that of the plant and engineered such that a protection factor of greater than 5 is provided to attenuate 0.7 MeV gamma radiation.
		a. The EOF is provided with a manually activated, single-train, non-seismic Category I ventilation system which incorporates a HEPA filter system and fixed radiation monitors, including an alarming monitor for radioiodines (with a minimum detectable level of 1.0E-07 uCi/cc).
		b. A diesel generator is available to provide backup power to the EOF. Until the diesel is loaded, batteries are available for NPIS equipment use upon loss of AC power.

equipment use upon loss of AC power.

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	c. The EOF is sized to accommodate at lea persons.	ast 35
	3. Accommodations and telephones are provide limited number of County, State and Feder personnel. Facilities are provided for field survey efforts from the EOF.	ral
	4. The EOF serves as the base of operations evacuation assessments and for communicat federal, state, and local response organ Radio and telephone links are available and Control Room.	tions with izations.
	5. Personnel in the EOF have access to the materials:	following
	o WCGS USAR, Environmental Report, and Specifications	Technical
	o Plant operating and emergency procedu	res
	o WCGS, State, and Coffey County emerge response plans	ncy
	o System drawings, schematics, and diag	rams
	6. Arrangements have been made to use the K and Light (KPL) Customer Business Office 210 E. 2nd, Emporia, KS as the backup EO facility is located approximately 28 air of the plant. Telephones available at t location ensure the provision for contin decision-making functions and for commun supporting dose projections.	located a F. This miles wes his uity in
6.4.5	Public Information Facilities	
	 At an NUE or Alert the Information Clear (IC) is established in the Dwight D. Eis Learning Center. The Phone Team and Med (MC) are activated when needed. The IC, Center and Phone Team are kept in close to each other to facilitate coordination information in the form of news statement conferences or telephone conversations. 	enhower lia Center Media proximity of
	a. If a radioactive release requires tha Public Information Organization be re they will be moved to the Kansas Stat Building, 2800 Topeka Ave., in Topeka	elocated, e Defense

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		b. Dedicated telephone lines allow the IC, TSC, and the EOF. The I status boards, appropriate offic computer(s), printer(s), faxing capabilities, and outside teleph	C contains e supplies, and photocopy
	2.	The Wolf Creek PIO, the State PIO a PIO communicate with the IC to obta information. The PIOs prepare news the IC and coordinate their efforts	in technical statements at
	3.	The MC accommodates news conference Media Room is established in the Dw Eisenhower Learning Center. The MC the Public Information Manager when an NUE or Alert, and will be activa Area or General Emergency.	ight D. is activated b needed during
		a. If radioactive releases require re-located, the MC will be moved Memorial Armory, 2722 S. Topeka KS. The Topeka facility will ac several hundred media representa auditorium and adjoining Media R	to the Nickell Ave., Topeka, commodate tives in an
		b. The Media Room is a facility set the media with a work area, audi material, outside telephone line information status boards.	o/visual
	4.	The Kansas City Power and Light (KC Office (GO) is where the Media Moni performs rumor control functions for State and Coffey County. The KCPL equipment and supplies, and has fax communications with the IC. All ap statements and information are tran KCPL GO after the IC is activated.	toring Team or WCGS, the GO contains and telephone oproved news
		a. The Media Monitoring Team report Control Coordinator. This team Rumor Control Coordinator of any misinformation heard or observed monitoring of the media.	notifies the rumors or

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6.4.6	Ons	ite Medical Facility	
	1.	A medical facility located in the C building, is staffed with a full ti Assistant. This facility is equipp basic medical response capabilities	me Physicians ed to provide
	2.	First aid kits are located througho Emergency supplies and equipment ar to ensure that assistance can be pr contaminated personnel.	e also availabl
	3.	Shift personnel, trained in first a available onsite 24 hours per day. be given to treating those with the medical needs.	Priority shoul
	4.	In the case of contamination, effor decontaminate injured personnel ons practicable. However, first aid or individual from a hazardous environ precedence over decontamination eff decontamination is not possible, th covered in such a manner as to avoi contamination until medical aid can hospitalization accomplished.	ite, as soon as removal of the ment, takes orts. If e victim is d any spread of
	5.	Personnel leaving the RCA are monit contamination. All personnel are m contamination before leaving the si	onitored for
		a. Personnel may be monitored by po friskers when entering or leavin facilities.	
		b. Personnel found to be contaminat decontamination under the direct physics personnel using health p and equipment available during r activities. Release limits for decontamination are found in the Protection Manual.	ion of health hysics supplies outine personnel

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6.4.7 State and County Facilities

- 1. Coffey County Emergency Operations Center (County EOC) is located in the Coffey County Courthouse, Burlington, KS. The County EOC is a command center for county agencies and a mustering area for personnel who arrive in the WCGS area in response to an emergency. The County EOC is activated at the Alert level with the additional support staff activated upon declaration of an SAE or GE. Other centers are established as the emergency needs dictate.
- Kansas State Emergency Operations Center (State EOC), located in the State Defense Building, 2800 South Topeka Avenue, Topeka, KS, is the commandand-control center for the State.
- 3. The State Forward Staging Area is located about 11 miles north of WCGS in the roadside park at the intersection of Old Highway 50 and U.S. 75. When it becomes necessary for the State to dispatch emergency personnel to the plume exposure pathway emergency planning zone (EPZ), the State activates the State Forward Staging Area to serve as a secondary base of operations for state personnel and a local contact point with Coffey County.

6.4.8 Evacuation Registration Centers

- People in the EPZ evacuating to Emporia on I-35, should exit I-35 at Merchant Street and go to the Emporia State University Physical Education building at 18th and Merchant.
- 2. People in the EPZ evacuating to Garnett should use 12th Rd, 16th Rd, Hwy. 31 or Hwy. 57 East to go to the Anderson County Jr/Sr High School.

6.5 Control Room Organization

- 6.5.1 The Shift Manager is responsible for the initial evaluation and classification of any abnormal situation and for directing the appropriate response, including initial activation of a callout.
 - Control Room personnel are on shift 24 hours a day. The shift complement is shown in Figure 2, MINIMUM SHIFT COMPLEMENT.

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6.5.2	Upon declaration of an emer assumes the duties of Emerg Manager normally goes to an Room unless it is necessary Control Room in order to pe corrective, or protective a performs the following acti	ency Manager d remains in for him to rform specif ctions. The	. The Shift the Control leave the ic assessment,
	o Initiate appropriate te the event	chnical meas	ures to mitigat
	 Determine if releases h necessary assessment of of radioactivity result evacuate non-essential 	the off-sit ing from a r	e concentration elease, and
	 Direct the activities o Notification System (EN Communicators 		_
	o Ensure immediate and for made which provide suff emergency classification dose projections or mean recommendations for off authorities responsible measures	icient infor n, plant sta surements, a -site protec	mation on tus, off-site nd issue tive actions to
	o Ensure NRC Resident Ins as possible after the S		
	 Ensure notifications to possible within 60 minu emergency in accordance 	tes of class	sification of an
	o Ensure other notificati with EPPs	ons are made	e in accordance
	o Activate onsite emerger	cy teams if	required
	o Notify plant personnel status	of the chang	ge in plant
6.5.3	Off-site Communicator		
	 The Off-site Communicat Manager, performs initi initiates the Automatic callout the ERO. 	al notificat	cions, and
	a. Non-Responding Emerg assist in the manual staff the ERO if the	callout of	personnel to

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6	.5.4	Emergency Notification System (ENS) Communicator
		1. The ENS Communicator reports to the Shift Manager and maintains communications with the NRC.
6	.5.5	Chemistry Technician
		1. The Chemistry Technician reports to the Shift Manager and performs dose assessment until relieve by Dose Assessment personnel in the EOF.
6	.5.6	Health Physics Technician
		1. The Health Physics Technician reports to the Shift Manager and performs radiation monitoring for personnel sent from and in the Control Room.
6	.5.7	Control Room Supervisor
		1. Reports to the Shift Manager and provides direction to Reactor Operators and Nuclear Station Operators for the safe operation of the unit.
6	.5.8	Reactor Operators
		1. The Reactor Operators report to the Control Room Supervisor and perform plant monitoring and reactor manipulations as needed from the Control Room.
6	.5.9	Nuclear Station Operators
		1. Nuclear Station Operators report to the Control Room Supervisor and perform local plant monitoring and manipulations as directed.
6	.5.10	Shift Technical Advisor
		 The Shift Technical Advisor reports to the Shift Manager and performs STA requirements as assigned by the NRC.
6	.5.11	Initial emergency response to the major functional areas is within the capabilities of the minimum operations shift complement.
6	5.5.12	On-shift staff augmentation is available, when deemed necessary, in accordance with ATTACHMENT D, WCGS MINIMUM STAFFING FOR EMERGENCIES.
6.6 <u>T</u>	'echnica	l Support Center (TSC) Organization

6.6.1 TSC activation will be performed as soon as practical and within the times as stated in the following:

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	1. During off-normal working hours, it is the goal to activate the TSC within 75 minutes of a declaratio of an Alert or higher classification.	
	 During normal working hours, it is the goal to activate the TSC within 30 minutes of a declaratio of an Alert or higher classification. 	
6.6.2	The TSC is considered activated when the following positions are present, the Site Emergency Manager determines the facility is ready to activate, and declares the facility activated:	
	o Site Emergency Manager	
	o TSC Operations Coordinator	
	o TSC Administrative Coordinator	
	o TSC Radiological Coordinator	
	o Maintenance Coordinator	
6.6.3	The TSC organization is shown in FIGURE 3, TSC/OSC ORGANIZATION.	
6.6.4	Additional personnel to support repair efforts and recovery functions will be added as necessary. Personnel reporting from off-site may initially report to the Dwight D. Eisenhower Learning Center, and then proceed to the TSC as plant/site conditions allow.	
6.6.5	Site Emergency Manager	
	1. The assigned Site Emergency Manager will assume command-and-control functions and will be the top line manager responsible for the emergency. An assigned Site Emergency Manager is available 24 hours a day. The assigned Site Emergency Manager may assume command-and-control functions from the Shift Manager during an NUE if so requested by the Shift Manager.	
	2. The Shift Manager will transfer the Site Emergency Manager duties to the assigned Site Emergency Manager in accordance with EPPs. The Shift Manage resumes Control Room duties and reports to the Sit Emergency Manager.	
	3. The Site Emergency Manager directs the onsite emergency effort, implements the applicable EPPs and, as appropriate, performs the following:	

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		o Assess and verify the situation appropriate mitigating efforts a		
		o Review initial event classificat reclassify as appropriate	ion and	
		 Determine the necessity for evac personnel onsite 	uation of	
		o If a release has occurred, make assessment of the off-site conce radioactivity resulting from a r	ntration of	
		 Ensure immediate and follow-up n made which provide sufficient in emergency classification, plant dose projections or measurements recommendations for off-site pro to authorities responsible for o emergency measures 	formation on status, off-sit , and issue tective actions	
	4.	The following responsibilities are Emergency Managers and may not be d responsibilities may be divided bet and Off-site Emergency Managers:	elegated. Thes	
		o Classification of the emergency		
		o Protective action recommendation	S	
		 Authorization for notification o authorities 	f off-site	
		<pre>o Authorization of emergency expos 10CFR20 limits</pre>	ure in excess o	
6.6.6	TSC	Operations Coordinator		
	1.	The TSC Operations Coordinator repo Emergency Manager and is responsibl following:		
		o Supervise reactor plant operation Engineering Coordinator, and ENS		
		o Keep the Site Emergency Manager conditions and operational manip		
	2.	The TSC Operations Coordinator may positions as directed by WCGS proce		

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6.6.7	Engineering Coordinator	
	 The Engineering Coordinator reports Operations Coordinator and directs of the Engineering Team to technics status and the severity of emergene 	the activities ally assess plar
6.6.8	Engineering Team	
	1. The Engineering Team reports to the Coordinator. The Team evaluates constructed historical plant parameters, assess of the emergency conditions and man damage, and recommends corrective actions.	urrent and ses the severity gnitude of fuel
6.6.9	TSC Emergency Notification System (ENS) Communicator
	 The TSC ENS Communicator reports to Operations Coordinator and maintain with the NRC. 	
6.6.10	TSC Radiological Coordinator	
	 The TSC Radiological Coordinator r Site Emergency Manager and is resp preventing or minimizing direct ex ingestion/inhalation of, radioacti during a radiological emergency. are as follows: 	onsible for posure to, or ve materials
	o Monitoring Dose rates and dose	projections
	o Monitoring Radiological survey	teams' results
	o Assists the On-site Emergency M formulation of recommended prot	
	o Monitoring Personnel radiation ensure they are maintained in a 10CFR 20 limits unless otherwis the Emergency Manager	ccordance with
	2. The TSC Radiological Coordinator w site duties to the EOF when the EC	vill transfer of F is activated.

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6.6.11 TSC Administrative Coordinator

- 1. The TSC Administrative Coordinator reports to and assists the Site Emergency Manager to ensure that emergency notifications are performed. The TSC Administrative Coordinator is responsible for logistical support in the areas of TSC personnel, Control Room, procurement and warehouse support, communications support and equipment repair services.
- 2. After EOF activation, the TSC Administrative Coordinator directs requests for logistical support beyond onsite staff capabilities to the EOF Administrative Coordinator.
- 6.6.12 TSC Team Director
 - 1. The TSC Team Director reports to the TSC Radiological Coordinator and provides advise on radiological safety matters concerning Emergency Response Team activities.

6.6.13 Maintenance Coordinator

 The Maintenance Coordinator reports to the Site Emergency Manager and directs the Maintenance Assistant in the coordination of emergency team activities, including PASS team. The Maintenance Coordinator also directs the formation of teams to be assigned to search and rescue.

6.6.14 Operations Communicator

- 1. Provides data, progress and plant conditions from the Control Room via the Operations Recorders.
- 6.6.15 Additional Personnel
 - 1. The following are examples of positions that are not needed for activation and operation of the TSC but supplement those personnel which are essential to an emergency response:
 - Operations Recorder maintains the Operations Status Board current.
 - Team Communicator reports to the Team Director and is responsible for communicating with Onsite Teams.
 - Onsite Survey Team Technicians perform tasks as assigned by the Maintenance Assistant.

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 cover security concerns. 6.7 <u>Operations Support Center (OSC) Organization</u> 6.7.1 <u>Maintenance Assistant</u> The Maintenance Assistant reports to the Maintenance Coordinator and coordinates emergency repair and damage control activities, coordinates deployment of onsite teams, and coordinates the activities of the Maintenance Engineers. 6.7.2 <u>Emergency Response Team (ERT)</u> The ERT personnel may be selected from Health Physics Technicians (Tech), Chemistry Tech, and Instrumentation and Control, Mechanical, or Electrical maintenance. The ERT reports to the Maintenance Assistant and is responsible for repairs, surveys, sampling, analysis, and search and rescue. 6.7.3 <u>Additional Personnel</u> The following are examples of positions that are not needed for activation and operation of the OS but supplement those personnel which are essentia to an emergency response. Chemistry Technicians perform emergency chemice sampling and provide post-accident sample analysis. Maintenance Planners develop repair plans for use by the emergency repair and damage control teams. 			accountability, assist the Emergency Manager, faxing and copying, log keeping, and Off-site notifications and communications as directed.
 6.7.1 <u>Maintenance Assistant</u> The Maintenance Coordinator and coordinates emergency repair and damage control activities, coordinates deployment of onsite teams, and coordinates the activities of the Maintenance Engineers. 6.7.2 <u>Emergency Response Team (ERT)</u> The ERT personnel may be selected from Health Physics Technicians (Tech), Chemistry Tech, and Instrumentation and Control, Mechanical, or Electrical maintenance. The ERT reports to the Maintenance Assistant and is responsible for repairs, surveys, sampling, analysis, and search and rescue. 6.7.3 <u>Additional Personnel</u> The following are examples of positions that are not needed for activation and operation of the OS but supplement those personnel which are essentia to an emergency response. Chemistry Technicians perform emergency chemic sampling and provide post-accident sample analysis. Maintenance Planners develop repair plans for use by the emergency repair and damage control teams. Warehouse Support Personnel assist in locating and securing parts and equipment from the warehouse. 			communications between the TSC and Security to
 The Maintenance Assistant reports to the Maintenance Coordinator and coordinates emergency repair and damage control activities, coordinates deployment of onsite teams, and coordinates the activities of the Maintenance Engineers. Emergency Response Team (ERT) The ERT personnel may be selected from Health Physics Technicians (Tech), Chemistry Tech, and Instrumentation and Control, Mechanical, or Electrical maintenance. The ERT reports to the Maintenance Assistant and is responsible for repairs, surveys, sampling, analysis, and search and rescue. The following are examples of positions that are not needed for activation and operation of the OS but supplement those personnel which are essentia to an emergency response. Chemistry Technicians perform emergency chemic sampling and provide post-accident sample analysis. Maintenance Planners develop repair plans for use by the emergency repair and damage control teams. Warehouse Support Personnel assist in locating and securing parts and equipment from the warehouse. 	6.7 <u>Op</u>	erations Su	pport Center (OSC) Organization
 Maintenance Coordinator and coordinates emergency repair and damage control activities, coordinates deployment of onsite teams, and coordinates the activities of the Maintenance Engineers. 6.7.2 Emergency Response Team (ERT) The ERT personnel may be selected from Health Physics Technicians (Tech), Chemistry Tech, and Instrumentation and Control, Mechanical, or Electrical maintenance. The ERT reports to the Maintenance Assistant and is responsible for repairs, surveys, sampling, analysis, and search and rescue. 6.7.3 Additional Personnel The following are examples of positions that are not needed for activation and operation of the OS but supplement those personnel which are essentia to an emergency response. Chemistry Technicians perform emergency chemic sampling and provide post-accident sample analysis. Maintenance Planners develop repair plans for use by the emergency repair and damage control teams. Warehouse Support Personnel assist in locating and securing parts and equipment from the warehouse. 	6.	7.1 <u>Main</u>	tenance Assistant
 The ERT personnel may be selected from Health Physics Technicians (Tech), Chemistry Tech, and Instrumentation and Control, Mechanical, or Electrical maintenance. The ERT reports to the Maintenance Assistant and is responsible for repairs, surveys, sampling, analysis, and search and rescue. Additional Personnel The following are examples of positions that are not needed for activation and operation of the OS but supplement those personnel which are essentia to an emergency response. Chemistry Technicians perform emergency chemic sampling and provide post-accident sample analysis. Maintenance Planners develop repair plans for use by the emergency repair and damage control teams. Warehouse Support Personnel assist in locating and securing parts and equipment from the warehouse. 		1.	Maintenance Coordinator and coordinates emergency repair and damage control activities, coordinates deployment of onsite teams, and coordinates the
 Physics Technicians (Tech), Chemistry Tech, and Instrumentation and Control, Mechanical, or Electrical maintenance. The ERT reports to the Maintenance Assistant and is responsible for repairs, surveys, sampling, analysis, and search and rescue. 6.7.3 <u>Additional Personnel</u> The following are examples of positions that are not needed for activation and operation of the OS but supplement those personnel which are essentia to an emergency response. Chemistry Technicians perform emergency chemic sampling and provide post-accident sample analysis. Maintenance Planners develop repair plans for use by the emergency repair and damage control teams. Warehouse Support Personnel assist in locating and securing parts and equipment from the warehouse. 	6.	.7.2 <u>Emer</u>	gency Response Team (ERT)
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and securing parts and equipment from the warehouse.			use by the emergency repair and damage control
6.8 Emergency Operations Facility (EOF) Organization			and securing parts and equipment from the
	6.8 <u>Er</u>	mergency Op	erations Facility (EOF) Organization

6.8.1 EOF activation will be performed as soon as practical and within a goal of 90 minutes of a declaration of an Alert or higher Emergency.

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	1.	The EOF is considered activated when the following positions are present, the Off-site Emergency Manager determines facility readiness, and declares the facility activated:
		o Off-site Emergency Manager
		o EOF Operations Coordinator
		o EOF Administrative Coordinator
		o EOF Radiological Coordinator
		o EOF Facility Technician
	2.	The complete EOF organization is shown in FIGURE 4, EOF ORGANIZATION.
6.8.2	<u>Off</u>	-site Emergency Manager
	1.	The Off-site Emergency Manager will assume the command-and-control functions and direct the emergency from EOF. An assigned Off-site Emergency Manager is available 24 hours a day.
	2.	The Off-site Emergency Manager is the official WCGS interface with government authorities. The Manager may discuss events in progress with the County and State personnel present in the EOF when making decisions concerning the emergency. Responsibilities include the following:
		a. Supports and provides resources or performs tasks as requested by the Site Emergency Manager
		b. Directs all WCGS personnel in the EOF
		c. Obtains personnel and coordinates the efforts of the following:
		o Emergency response personnel who perform off-site radiological surveys, plus any other personnel deemed useful for the emergency response effort
		 Outside contractors and vendors, such as consultants, laboratories under contract, the Nuclear Steam Supply System (NSSS) vendor, the Architect/Engineer, and regional utilities
		 Additional technical resources may be called in during the emergency for further support or shift assignment onsite.

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	in the	nates with the Administrat logistics effort to supply cessary personnel and equip	y the plant wi
		WCGS Executive Management d to the emergency	on matters
	Inform	nates with the Onsite and o ation Coordinators (PICs) cal input for news stateme:	in providing
	made w emerge dose p protec	immediate and follow-up no hich provide sufficient in ncy classification, plant rojections or measurements tive actions recommendation ities responsible for off- es	formation on status, off-si , and issue ns to off-site
		ts federal assistance thro als per the State Plan	ugh state
	Emergency responsib	wing responsibilities are Managers and may not be d ilities may be divided bet ite Emergency Managers:	elegated. The
	o Emerge	ncy classification	
	o Protec	tive action recommendation	S
	o Author author	ization for notification o ities	f off-site
	o Author 10CFR	ization of emergency expos 20	ure in excess
6.8.3	EOF Radiologi	cal Coordinator	
	Off-site radiologi	adiological Coordinator re Emergency Manager and is r cal monitoring and dose as es off-site. Responsibilit	esponsible fo: sessment
		s and coordinates activiti ment Coordinator and staff	
		s the Off-site Emergency M ation of recommended prote	
		des the PIC with an assessm ogical conditions	nent of

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- Requests through the EOF Administrative Coordinator additional radiation monitoring equipment, instrumentation and Health Physics support personnel as necessary
 - Interfaces with State and County emergency response personnel who are assigned to the EOF regarding matters related to off-site radiological assessment

6.8.4 EOF Team Director

- The EOF Team Director assumes responsibility for authorizing and supervising Off-site Monitoring Teams. The EOF Team Director directs Emergency Response Teams and advises the EOF Radiological Coordinator on radiological conditions encountered by the Teams.
 - a. Off-site Monitoring Team authorization should be made promptly upon activation of the EOF.
 - b. Monitoring teams are specially trained in field sampling techniques. Each team will be equipped with equipment capable of detecting and measuring radioiodine concentrations in the air at levels as low as 10⁻⁷ uCi/cc.
 - c. County and State personnel may become part of the Emergency Response Teams and assist with off-site monitoring.

6.8.5 EOF Facility Technician

1. Reports to the EOF within a goal of 60 minutes of declaration of an Alert or higher classification to ensure the EOF is prepared and functional.

6.8.6 Dose Assessment Coordinator

- 1. Reports to the EOF Radiological Coordinator and is responsible for directing/assisting with dose projection and protective action recommendation activities.
- Ensures the Radiological Status Board is maintained current.
- 6.8.7 Emergency Dose Calculation Program (EDCP Operator)
 - Reports to and is responsible for providing completed off-site dose projections to the Dose Assessment Coordinator.

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6.8.8	HPN Communicator	<u> </u>
	1. The HPN Communicator reports to the Radiological Coordinator and mainta communications with the NRC via the Network (HPN) telephone.	ins
6.8.9	EOF Operations Coordinator	
	 Reports to and briefs the Emergency plant conditions and mitigative str 	
6.8.1	EOF Administrative Coordinator	
	 The Administrative Coordinator is r coordinating, directing, and respon from the ERO for administrative and support. The techniques and proced this effort are adapted from normal procurement practices. The Adminis Coordinator also ensures notificati authorities are made. 	ding to request logistical ures used durin WCGS trative
6.8.1	Representative At County	
	 The Representative at the County is County Emergency Operations Center KS, and reports to the Off-site Eme The Representative responds to requipersonnel for clarification or verive received from the TSC or EOF. 	in Burlington, ergency Manager. ests from Count
6.8.1	Additional Personnel	
	 The following are examples of posit not needed for activation and opera but supplement those personnel which to an emergency response. 	ation of the EOF
	o Team Communicators communicate v Monitoring Teams.	with Off-site
	o Operations Recorders maintain th Status Board current.	ne Operations
	 Administrative Assistants perfor accountability, assist the Emerging faxing and copying, log keeping, notifications and communications 	gency Manager, and Off-site
6.9 Publi	Information Organization	

6.9.1 Wolf Creek Public Information Officer (WC PIO)

Reference Use Page 37 of 80 1. The WC PIO is the public voice for plant information. The WC PIO is responsible for ensuring the timely issuance of accurate information to the public and media during an emergency at WCGS. Public interaction may be as formal news conference or a telephone call. a. The WC PIO coordinates with the County and St. for information to be released to the public. 2. The WC PIO position is activated at an NUE or higher emergency to coordinate the development at release of news statements. 3. The WC PIO has overall responsibility for the Public Information Organization. 6.9.2 Wolf Creek Public Information Manager 1. The Wolf Creek Public Information Manager positi	Revision: 3	RA	ADIOLOGICAL EMERGENCY RESPONSE PLAN	AP 06-002
 information. The WC PIO is responsible for ensuring the timely issuance of accurate information to the public and media during an emergency at WCGS. Public interaction may be as formal news conference or a telephone call. a. The WC PIO coordinates with the County and St. for information to be released to the public. 2. The WC PIO position is activated at an NUE or higher emergency to coordinate the development at release of news statements. 3. The WC PIO has overall responsibility for the Public Information Organization. 6.9.2 Wolf Creek Public Information Manager Not Creek Public Information Manager positi is activated at an NUE or higher emergency. The Wolf Creek Public Information Manager works clos with the WC PIO, the Onsite PIC, the Off-site PI and the Technical Support staff to ensure that information provided the public is timely and accurate. 2. The Wolf Creek Public Information Manager has responsibility for ensuring the Public Informati Organization is activated and functions as direct in EPPs. 3. During a declared emergency the Public Informati Manager determines and coordinates the activatio of Rumor Control, Information Clearinghouse, Med Center and the Phone Team. The Public Informati Manager determines from the appropriate Informatic Clearinghouse. 4. The complete Public Information organization is 	Reference Use		(RERP)	Page 37 of 86
 information. The WC PIO is responsible for ensuring the timely issuance of accurate information to the public and media during an emergency at WCGS. Public interaction may be as formal news conference or a telephone call. a. The WC PIO coordinates with the County and St. for information to be released to the public. 2. The WC PIO position is activated at an NUE or higher emergency to coordinate the development at release of news statements. 3. The WC PIO has overall responsibility for the Public Information Organization. 6.9.2 Wolf Creek Public Information Manager Molf Creek Public Information Manager vorks closs with the WC PIO, the Onsite PIC, the Off-site PI and the Technical Support staff to ensure that information provided the public Informati Organization. 2. The Wolf Creek Public Information Manager has responsibility for ensuring the Public Informati Organization. 6.9.2 The Wolf Creek Public Information Manager positi is activated at an NUE or higher emergency. The Wolf Creek Public Information Manager has responsibility for ensuring the Public Informati Organization is activated and functions as direct in EPPs. 3. During a declared emergency the Public Informati Manager determines and coordinates the activatio of Rumor Control, Information Clearinghouse, Med Center and the Phone Team. The Public Informati Manager operates from the appropriate Informatic Clearinghouse. 4. The complete Public Information organization is 	······································			
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 higher emergency to coordinate the development as release of news statements. 3. The WC PIO has overall responsibility for the Public Information Organization. 6.9.2 Wolf Creek Public Information Manager 1. The Wolf Creek Public Information Manager positi is activated at an NUE or higher emergency. The Wolf Creek Public Information Manager works clos with the WC PIO, the Onsite PIC, the Off-site PI and the Technical Support staff to ensure that information provided the public is timely and accurate. 2. The Wolf Creek Public Information Manager has responsibility for ensuring the Public Informati Organization is activated and functions as direct in EPPs. 3. During a declared emergency the Public Informati Manager determines and coordinates the activatio of Rumor Control, Information Clearinghouse, Med Center and the Phone Team. The Public Information Clearinghouse. 4. The complete Public Information organization is 				
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Manager determines and coordinates the activatio of Rumor Control, Information Clearinghouse, Med Center and the Phone Team. The Public Informatio Manager operates from the appropriate Informatio Clearinghouse. 4. The complete Public Information organization is		2.	responsibility for ensuring the Pub Organization is activated and funct	lic Informatior
4. The complete Public Information organization is shown in FIGURE 5. PUBLIC INFORMATION ORGANIZATI		3.	Manager determines and coordinates of Rumor Control, Information Clear Center and the Phone Team. The Pub Manager operates from the appropria	the activation ringhouse, Media plic Information
		4.	The complete Public Information or shown in FIGURE 5, PUBLIC INFORMATI	ganization is ION ORGANIZATION

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6.9.3	Onsite Public Information Coordinator (PIC)
	 The PIC gathers and transmits technical information to the Wolf Creek Public Information Officer for use in news statements following the declaration of any emergency classification.
6.9.4	Off-site Public Information Coordinator (PIC)
	 During a SAE or GE, the PIC is responsible for gathering all information related to the health and safety of the public. The PIC transmits this information to the WC PIO at the Information Clearinghouse. The PIC operates from the EOF.
6.9.5	Media Center Manager (MC Manager)
	1. The MC Manager is located at the Media Center and reports to the WC PIO. Responsibilities include set-up of the Media Center, leadership for the Media Registrar and Media Liaison and management o the media news conferences. The Media Center Manager maintains contact with the Information Clearinghouse to provide news conference schedules
6.9.6	Media Liaison
	 Media Liaison is located in the Media Center and reports to the MC Manager. Responsibilities include managing the media crowd at the Media Center and assisting the media with registration and facility orientation, providing general Wolf Creek background information or approved emergency related information, arranging individual interviews, and announcing and coordinating scheduled news conferences.
6.9.7	News Writer
	1. The News Writer reports to and provides support for the WC PIO. The News Writer provides support to the PIO including: answering telephones, writing and distributing news statements, updating the status log, maintaining the media status board and faxing news statements. The News Writer maintains a chronological log of the events and news statements.
6.9.8	Phone Team Manager
	1. The Phone Team Manager reports to the WC PIO and coordinates the rumor control activities of the

Phone Team.

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6.9.9 Rumor Control Coordinator

1. The Rumor Control Coordinator is located in the KCPL General Office and reports to the WC PIO. Rumor Control monitors news statements or news conferences to identify misinformation being released to the public.

6.9.10 Technical Support

 The Technical Support staff discusses technical details of the news statement with EOF staff to ensure accuracy, provides technical interpretation for the WC PIO, the Public Information Officer for Coffey County and the State of Kansas. Technical Support gathers information from the Emergency Facilities to communicate plant, health and safety issues to the public.

6.9.11 Additional Personnel

- 1. The following are examples of additional personnel used to fill ERO positions such as clerical, log keeping, or status board posting. Staffing of these positions does not affect the activation of the facility.
 - Media Center Registrar monitors access to the Media Center, records news conference attendance, provides media packets, provides directions for telephone use and work space information to the media representatives.
 - Audio/Visual Support records on video and audio tape the proceedings of news conferences presented in the Media Center.
 - Information Messenger performs clerical and administrative duties at the direction of the Public Information Manager.
 - The Phone Team may make initial media notifications at PIO discretion, addresses media and public questions to the extent possible and reports rumors or misinformation to the Phone Team Manager.
 - The Media Monitoring Team notifies the Rumor Control Coordinator of any rumors or misinformation heard or observed from their monitoring of the media.

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6.10 Local Off-site Organizations

- 6.10.1 The Coffey County Contingency Plan for Incidents Involving Commercial Nuclear Power describes the authorities, responsibilities, and agreements to which various county agencies are a party in their response to emergencies at WCGS. Information is provided therein about the various agencies' interrelationships and support roles provided to WCGS.
 - The County Plan contains the formulas for calculating evacuation times for each subzone.

6.10.2 Coffey County Commissioners

- 1. The Coffey County Board of Commissioners maintains the executive authority and responsibility for planning and coordinating the county response. They have delegated responsibilities and tasks to the local support agencies and have established operating procedures.
- After declaring a State of Local Disaster Emergency, the Chairman of the Coffey County Commissioners is responsible for making the decision to activate the alert and notification system. Emergency authority, as stated in County Plan, is given in an established line of succession.
- 3. If a State of Emergency has not been declared, after receipt of notification and in accordance with the County Plan, the Chairman decides which protective actions would be appropriate.
 - When a protective action is decided upon, the County may notify the State to activate EAS or they may activate EAS.

6.10.3 Coffey County Sheriff's Office

- 1. The Coffey County Sheriff's Office provides local notification, access control, and law enforcement support in accordance with the Coffey County Plan.
- 2. If time does not permit, or if he is unable to contact the Chairman or other members of the County Emergency Response Organization, the County Sheriff has the authority to make protective action decisions based upon recommendations by WCGS.
- The County Dispatcher may contact the Kansas Division of Emergency Management to activate EAS or they may activate EAS.

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	4. Specific services provided by the Coffey Co Sheriff's Office include:	ounty
	o Perform notifications as defined within County Plan and associated implementing procedures	the
	o Provide a 24 hour per day manning of communications links between the County WCGS, and between the County and State	and
	o Implement off-site protective actions as necessary and as specified in the County implementing procedures	
	o Initiate warning and initial notification population	on of th
	o Direct the evacuation of specific subzor the EPZ upon the decision to evacuate	nes of
	o Provide traffic control and roadblocks j implementing procedures	per
	 Obtain additional assistance as necessation secure the evacuated areas 	ry to
	o Control access to the County EOC	
6.10.4	Coffey County Fire District #1 (CCFD)	
	 Contractual arrangements have been made wi Board of Trustees of Fire District No. 1, County, KS, for the provision of fire figh support. Services contracted are summariz Letter of Agreement and maintained in an Ex Planning file. 	Coffey ting ed in th
	 The WCGS Fire Brigade Leader is also respo for directing all fire fighting activities Once onsite, Fire District members and equ shall be escorted by Security. 	onsite.
6.10.5	Off-site Medical Treatment	
	 Coffey County Hospital and Newman Memorial each have developed emergency procedures t guidance in the rendering of medical treat contaminated patients. 	o provid
	 Coffey County Hospital, located in Burling approximately 9 road miles from the WCGS s agreed to provide aid to injured/contamina personnel. 	ite, has

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	3. Newman Memorial Hospital serves as Coffey County Hospital and is locat KS, approximately 40 miles from WCG	ed in Emporia,	
·	4. Contaminated injured personnel tran WCGS to off-site medical facilities personnel qualified in radiological Once the patient(s) has been stabil personnel survey patient(s), attend vehicles, and equipment to ensure to decontaminated in accordance with W State procedures.	are attended b practices. ized, WCGS ling personnel, hey have been	
6.10.6	Coffey County Emergency Medical Service	e (EMS)	
	1. Coffey County EMS provides medical transports victims to medical facil personnel requiring treatment for i exposure to radiation, and contamin notifies the Ambulance Service by t though the Coffey County Sheriff's	ities for njuries, nation. WCGS celephone or	
	2. If conditions warrant, any vehicle used to transport affected personne		
6.10.7	Radiological Emergency Assistance Center (REAC/TS)	er/Training Site	
	 REAC/TS maintains a 24 hour Hospita Network. Consultation is available emergencies involving radiological patients. 	e for medical	

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6.11 State Organizations

- The Governor, by law, is the Chief Executive Officer of 6.11.1 the State of Kansas and is responsible for the safety and well-being of all citizens within the State. The State Plan describes the responsibilities of local, federal, state, and volunteer agencies during nuclear emergencies. Upon declaration of a State of Disaster Emergency the State has primary responsibility for responding to an off-site nuclear emergency. Activation of the State EOC, located in the lower level of the State Defense Building, Topeka, KS, is the responsibility of the Governor or authorized representatives, depending on the nature of the The Kansas Division of Emergency emergency. Management, Technological Hazards Section, provides overall coordination as the responding state agency during a Fixed Nuclear Facilities Incident.
- 6.11.2 Appendix 12 to Annex N of the Kansas State Emergency Operations Plan describes in detail, the authorities, responsibilities, and agreements to which various state agencies of their response to emergencies at WCGS. Reference to this document is made for detailed information on each agency's interrelation and support role provided to WCGS.
 - Upon declaration of an SAE or GE representatives of Kansas Department Emergency Management (KDEM) and Kansas Department of Health and Environment (KDHE) go to the EOF. They act as the interface between WCGS, the County, and the State.
- 6.11.3 Kansas Division of Emergency Management (KDEM)
 - 1. The KDEM provides the following assistance:
 - a. Evaluates information presented by WCGS to decide off-site protective actions
 - b. Coordinates nuclear incident response planning, training, and notification. Activities include:
 - o Notification of KDHE
 - Notification of Key federal and state agencies
 - o Notification of the Governor's Office
 - o Provides radiological monitoring
 coordination

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		o Requests federal assistance a federal and state support on affected areas	
		o Provides 24 hour per day poin receive notification	nt of contact to
		o Activates the State EOC	
		o Activates the Kansas Emergen	cy Alert System
6.11.4	Kansas	Department of Health and Environ	ment (KDHE)
	1. The	e KDHE provides assistance as des	cribed below:
	0	Acts as the lead state agency for radiological emergency response	r operational
	0	Conducts radiological monitoring areas	in affected
	0	Provides radiological advice to	hospitals
	0	Develops and establishes State P.	AGs
	0	Provides information and guidanc about protective actions, via th	_
	0	Assesses off-site contamination environment	of the
	0	Provides technical guidance and recovery activities	coordination in
	0	Supports the development and con radiological response training	duct of
	0	Reviews, evaluates, and maintain records for non-licensee emergen other affected individuals	
6.11.5	Kansas	Highway Patrol (KHP)	
	su	e KHP provides communications and oport including backup notificati llowing:	
	0	Coffey County Sheriff's Office	
	0	KDEM, Technological Hazards Sect	ion
	0	The Governor's Office	

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		2. The KHP augments local law enforcements the area and establishing evacuation providing traffic control.	
		3. The KHP provides self-support radio: monitoring.	logical
		4. The KHP maintains emergency communic 24 hours per day.	cations systems
	6.11.6	Kansas National Guard	
		1. The Kansas National Guard may be di Governor to provide assistance as no the following:	
		o Evacuation of communities	
		o Area security	
		o Media Center Security	
	6.11.7	Kansas Department of Transportation (KD	OT)
		1. KDOT provides assistance as follows	:
		o Provides emergency traffic barri	ers and signs
		o Supplements emergency traffic co	ntrol
		o Supplies construction equipment	
		o Provides communications support	
6.12	Federal	Organizations	
	6.12.1	Should an emergency situation or accide WCGS, notification and reports must be federal agencies and organizations, and assistance may also be made.	made to various
	6.12.2	Federal Emergency Management Agency (FE	MA)
		 FEMA is the lead agency supporting of the state and local emergency pl FEMA response time is estimated to 	ans. Region VI

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6.12.3 Department of Energy (DOE)

1. The DOE Radiological Assistance Program provides monitoring assistance and radiological consultation to the KDHE. The DOE provides assistance under the Federal Radiological Emergency Response Plan (FRERP) and responds to authorized requests for assistance by the KDHE. It is expected that initial responders, to assist with off-site radiological monitoring, will arrive within 8 hours. Full Federal response (FRMAC) is expected within 48 hours.

6.12.4 Nuclear Regulatory Commission (NRC)

- The NRC provides advice to other federal, state, and local agencies on the radiological health consequences of various emergency protective actions. The NRC requires notification and reports as indicated in ATTACHMENT H, REPORTING OF INCIDENTS PER 10CFR20 and as specified in the WCGS Technical Specifications. NRC Region IV response time is estimated to be 12 hours.
- 6.12.5 Licensee resources available to support the federal response include the following:
 - o Space and equipment in the TSC and EOF provided for key federal personnel
 - Telecommunications equipment at these centers is available to federal personnel for use
 - Parking space adjacent to the EOF provides an area for the location of federal response vehicles, with power and sanitary services available at the EOF
 - Open fields south of the parking lot at the EOF provide access for helicopters
 - o Coffey County Airport is available for air traffic

6.13 Additional Support Agencies

- 6.13.1 Vendor and Architect/Engineers (A/E)
 - NSSS supplier, Westinghouse, is the chief vendor who may be involved with emergency response for WCGS. Westinghouse has emergency response plans which are activated upon notice and is expected to provide the following services:
 - o Personnel with expertise in various areas

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- o Technical analysis
- o Operational analysis
- o Accident/transient analysis
- o Recommendations

6.13.2 Regional Utility Support

WCGS shares the SNUPPS power-block design with the 1. Union Electric Callaway Plant. Because of this design concept and similarity with the WCGS layout, assistance from Union Electric is possible. Α specific mutual aid agreement between WCGS and Union Electric Company has been established. While this assistance may be available within a short period of time, it shows greatest promise in the case of a prolonged emergency where extended, around the clock coverage is required. The Site Emergency Manager may authorize the temporary use of this resource, should staff augmentation be necessary. Union Electric Company is a signatory of the INPO FIXED FACILITY EMERGENCY RESPONSE VOLUNTARY ASSISTANCE AGREEMENT.

6.13.3 Institute of Nuclear Power Operations (INPO)

1. WCGS has signed the INPO FIXED FACILITY EMERGENCY RESPONSE VOLUNTARY ASSISTANCE AGREEMENT. This agreement is by and among electric utilities which have responsibility for the construction and operation of commercial U.S. nuclear power plants. Assistance may be requested from any of the signatory companies in the form of technical and administrative aid or personnel, facility, or equipment resources. Requested assistance is rendered according to the agreement.

6.13.4 American Nuclear Insurers (ANI)

 ANI is notified at emergency classifications of Alert or higher. ANI is available to provide insurance services as necessary.

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6.14 Plant Monitoring

6.14.1 Nuclear Plant Information System (NPIS)

- 1. The integration and display of selected and critical data is performed by NPIS which is a nonsafety, non-Class LE system. Isolation is provided to ensure that NPIS does not degrade the performance of safety system equipment or displays.
- 2. NPIS provides data storage and recall capability.
- 3. Certain parameters are also transmitted to the NRC Operations Center via the Emergency Response Data System (ERDS) link of NPIS. ERDS is activated through NPIS within 60 minutes of an Alert or higher classification.
- 4. The NPIS computer feeds key plant parameters to individual terminals in the Control Room, TSC, and EOF which display data identical in accuracy, resolution, and reliability. Support personnel may assist the Control Room staff to analyze and diagnose plant abnormalities so that corrective action may be taken and then monitored.
- 5. The Safety Parameter Display System (SPDS) provides for continuous indication of plant parameters or derived variables representative of the safety status of the plant. The primary function of the SPDS is to aid the user in the rapid detection of abnormal operating conditions. As a plant safety information and diagnostic tool, SPDS concentrates on a minimum set of plant parameters from which the plant safety status can be assessed.

6.14.2 Onsite Radiological Monitors

- Process monitors monitor the radiation intensity of materials within plant systems. These monitors continuously measure, indicate and record the radioactive material concentrations located within systems being monitored. Each monitor includes an adjustable alarm to provide indication of a significant change or the existence of a concentration of radioactive material above preselected values. The USAR, Chapter 11.5, includes a listing and range of plant monitors.
- 2. The Area Radiation Monitoring System monitors provide information about radiation intensity at specific plant locations. These monitors provide the following:

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		a. Warnings of excessive gamma radi areas where nuclear fuel is store	
		b. Control Room personnel with a co indication of gamma radiation le locations within the various pla	vels at selecte
		c. Assistance in detecting unauthor inadvertent movement of radioact the plant, including the radwast	ive material in
		d. Supplementation of other systems process radiation monitoring or in detecting abnormal migrations material	leak detection,
		e. Local alarms to warn personnel i	n the area
		Effluent monitors provide informati concentration of radioactive materi effluent pathways. Each significan pathway from the plant includes an to enable the quantification of the material concentration exiting the	al in plant t effluent effluent monito radioactive
6.14.3	Mete	orological Monitoring System	
	1.	The Meteorological Monitoring Syste a 90-meter instrument tower and a t controlled shelter at the base of t associated instrumentation and equi	emperature he tower housin
	2.	The function of the meteorological monitor and record meteorological c	
	3.	Information provided by instruments meteorological tower is available f computer system.	
	4.	Time interval measurements are used 15-minute averages for all paramete	
	5.	When needed, Meteorological data ca from the National Weather Service.	an be obtained
6.14.4	Seis	smic Monitoring System	
	1.	The seismic warning panel in the Co provides local visual and audible is seismic event has occurred.	ontrol Room Indication when

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	6.14.5	Hydrologic Monitoring	
		 Hydrologic monitoring is not requi "dry site" as defined by Regulator The plant site is located above th flood level. 	y Guide 1.102.
	6.14.6	Fire Protection	
		 WCGS is protected by an independen system consisting of two subsystem detection/alarm system and a suppr 	s, a
		2. Activation of the fire systems res audible alarm throughout the plant also displayed in the Control Room	. Alarms are
	6.14.7	Laboratory Facilities	
		 A radiochemistry (hot) laboratory, laboratory, and turbine building c laboratory are located in the powe chemistry shop laboratory is locat P. Chrysler Building. Further inf onsite laboratory equipment can be Chapter 12.5. 	hemistry r block. The ed in the Walter ormation on
		2. The environmental laboratory at the for processing of routine and emer samples. The Kansas Health and Em Laboratory in Topeka, KS, is avail augment the processing of emergence	gency field vironmental able to further
		3. Private laboratories under contract laboratories of neighboring utilit signatories of the INPO Voluntary Agreement may be considered for us	ies who are Assistance
6.15	Emergenc	y Supplies	
	6.15.1	Emergency supplies include protective, and radiological monitoring equipment, and other supplies. The EPPs list eme and their locations.	check sources,
	6.15.2	Emergency supplies are maintained, invinspected on a quarterly basis in according to the EPPs contain an inventory list of for emergency supplies. This equipment augmented by other onsite equipment.	ordance with EPP: WCGS equipment

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6.15.3 Instruments are calibrated in accordance with WCGS Health Physics Procedures. For any items removed from the emergency supplies for calibration or repair, an operable equivalent instrument is used to replace it. Sufficient quantities of spare instruments/equipment are onsite to provide replacements.

6.16 Communications

6.16.1 Communication Equipment

- Telephones provide primary communications contact with the State and County EOCs. The on-site system in the Olive Beech Building and the off-site system in Dwight D. Eisenhower Learning Center are powered by their own battery and charger. The battery will supply the system if the charger fails.
 - a. The Emergency Telecommunications System (ETS) is used for NRC communications.
 - b. Trunk lines are available for communications with outside agencies.
 - c. Cell phones or other comparable equipment are used as a backup means of communications with joint radiological monitoring teams.
- 2. Radio communications provide backup communications with the State and County EOCs. Fixed AC-powered transmitter/receiver units and a number of portable and hand-held units are also capable of providing fixed and mobile communications to joint radiological monitoring teams.
 - a. Radio communication is the primary communication method for the joint radiological monitoring teams.
- 3. A paging system is used for initial notification of key personnel. Pager coverage is provided in and around the cities of Burlington, Emporia, Topeka, Ottawa and Lawrence.

6.16.2 Communication Dissemination

- 1. The methods of employee communications may be employee meetings, announcements, or literature handouts.
- 2. The Public Information Organization is responsible for interfacing with the media. Communication between WCGS and media organizations are performed in accordance with EPPs.

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		3.	Annually, WCGS offers the news media with the following information:
			o Information concerning the emergency plan
			o Information concerning radiation
			o Facilities available for media
			 Points of contact for statements of public information
			o Differences between normal and emergency plant operations
		4.	Standardized public announcements for broadcast during an emergency have been written by the state county, and WCGS and are found in the State Plan.
		5.	WCGS, state, and local emergency organizations provide members of the public, including transients, public education information on how they are notified and what their initial actions should be during an emergency.
×			a. Emergency planning information is provided within local telephone directories. The information, developed jointly by WCGS, Coffey County and the State of Kansas, is distributed to residences of the EPZ.
			b. Information includes educational facts on radiation, protective measures, special needs of the handicapped and the points of contact for additional information.
			c. An annual mail-out to the public provides information regarding operation of Tone Alert Radios.
		6.	Emergency planning information, displayed on information boards, is provided for transients in the public use areas of John Redmond Reservoir (JRR), Coffey County Lake (CCL), and other WCGS controlled areas. Transients have access to emergency plan information within motel rooms and telephone books.
6.17 <u>En</u>	nergenc	cy Pl	an Training
6.	.17.1	pro	S has developed an emergency preparedness training gram which meets the requirements of 10CFR50, endix E, Section IV. F.

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6.17.2	The Superintendent Emergency Planning e training is provided for ERO personnel with plant procedures.	
6.17.3	The Superintendent Emergency Planning ensures corrective actions for any Emergency Planning weakness or deficiencies identified are initiated and corrected using the WCGS corrective action process.	
6.17.4	Personnel receive general RERP training Plant Access Training prior to receivin access to WCGS.	
6.17.5	Initial and re-qualification training is provided f personnel on the ERO. This training may be in the of self study, class room training, drills, tabletc or any combination of these.	
	 Position specific training is provi personnel filling positions in the 	
	o Directors/Coordinators of the em	ergency
	o Personnel responsible for accide	nt assessment
	o Radiological monitoring teams	
	o Fire brigade members	
	o Emergency response teams	
	o Medical support personnel	
	o Security personnel	
	o Support personnel	
	 Critiques are performed after each to identify weak or deficient areas 	
6.17.6	Where Letters of Agreement exist betwee agencies and for each off-site response emergency support role, training is off Training is also offered to the partici Interlocal Agreements between Coffey Co counties, Anderson and Lyon.	e organization's Sered annually. pants in the
	 This training consists of an orient operations and site access procedur radiation protection and monitoring procedures for notification, an ove duties and activities, and training associated with performance of their 	res, basic g information, erview of the EF g materials

roles.

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6.17.7	Drills are considered part of the Emergency Plan Training Program. Periodic drills conducted between the biennial exercise ensure that the ERO is capable of
	executing the crucial tasks necessary to detect emergency conditions, assess and mitigate the
	consequences, notify key licensee and non-licensee personnel and organizations, perform appropriate response and protective actions, and recommend off-site protective actions to state and local agencies.

1. State and County participation in drills will be allowed if they so desire.

6.18 Emergency Plan Drills

- 6.18.1 Annual communication drills between WCGS, State and County EOCs, and field assessment teams ensure that contact can be made and that messages are comprehended.
 - Monthly communication tests verify communications with the local County and State authorities. Communications tests are made with the NRC Headquarters via the Emergency Telecommunications System (ETS). These tests are performed in accordance with EPPs.
- 6.18.2 Fire drills are conducted in accordance with plant administrative procedures.
- 6.18.3 Annual medical emergency drills include transportation and treatment of simulated contaminated individuals by ambulance and off-site medical treatment facilities.
- 6.18.4 Annual radiological monitoring drills include collection and analysis of sample media, field activities, and provisions for communications and record keeping.
- 6.18.5 Semi-annual Health Physics drills involve response to and analysis of simulated elevated airborne and liquid samples and direct radiation measurements in the environment.
 - Annually, analysis of in-plant liquid samples using the post-accident sampling system (PASS) is included in a Health Physics drill.
- 6.18.6 Each calendar quarter, a callout drill is conducted to verify the operability of the notification system.
- 6.18.7 Critiques should be conducted following each drill to identify and correct noted deficiencies.

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6.19.1	In accordance with 10CFR50 Appendix E, emergency exercises will test the adequ and content of implementing procedures test emergency equipment and communicat test the public notification system, an ERO personnel are familiar with their d	acy of timing and methods, ion networks, d ensure that	
6.19.2	Exercises will be conducted biennially on-site and off-site emergency plans.	to test the	
6.19.3	To meet NRC and FEMA requirements, the varied so as to test, at least once eve all major components of the WCGS, State plans and response organizations. The actively participate in these exercises	ry six years, , and County State and Count	
	1. Exercises should be conducted under conditions.	various weathe	
	2. At least once every six years an un exercise is initiated between 6:00	announced p.m. and 4 a.m.	
	3. At least once every six years an in exercise shall be conducted.	gestion pathway	
6.19.4	Designated observers from federal, stat governments, and WCGS observe the requi Certain of these observers also evaluat	red exercises.	
	 The Superintendent Emergency Planni responsibility for ensuring correct associated with emergency planning 	ive actions	
	2. Critiques are conducted following e identify and correct noted deficier		
6.19.5	Prior to an exercise a scenario package is prepare which contains the following:		
	o Basic objective of each exercise an evaluation criteria	nd appropriate	
	o Simulated events		
	o Dates, time periods, places, and pa organizations	articipating	
	o Time schedule of all initiating evo	ents	

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		0	Descriptive scenario addressing the exercise which should include public activities, off-site fire department simulated casualties, rescue of per- protective clothing and radiological teams	c information t assistance, sonnel, use of
		0	Description of the arrangements for materials to be provided to officia	
	6.19.6	whic	edial exercises will be conducted fo ch do not satisfactorily test the em h as determined by FEMA and the NRC.	
6.20	Emergenc	cy Pla	an And Procedures Administrative Con	trols
	6.20.1	the perf	NSRC is responsible for assuring th WCGS Emergency Preparedness Program formed, at least once every twelve m ordance with 10CFR 50.54(t).	will be
		1.	Personnel performing this review wi direct responsibility for implement Emergency Preparedness Program.	
		2.	The review shall evaluate interface local governments, licensee drills, capabilities, procedures and emerge	exercises,
		3.	The results of the review are repor representatives and WCGS Senior Man shall be retained for at least five	agement and
		4.	Correction of review findings are e implemented using normal WCGS proce	
		5.	The applicable portions of the revi available to the State and local go	
	6.20.2	coo: rev. rev.	Superintendent Emergency Planning erdination and documentation of RERP isions and the RERP distribution. Thised annually to incorporate changes ing drills, exercises and the 10CFR	reviews and he RERP is identified
		1.	The RERP and approved changes are of all organizations and individuals we responsibility for implementation of	vith
	6.20.3		Superintendent Emergency Planning e nning personnel are properly trained	

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6.20.4 Action items required to be performed in a time period are allowed a 1.25 times frequency grace period to complete the item.

6.21 Recovery Plan

- 6.21.1 The Recovery Plan is activated in a progressive manner when the Site, if EOF not activated, or Off-site Emergency Manager determines stabilized plant conditions warrant the transition of the emergency response efforts to the recovery phase.
- 6.21.2 If a General Emergency has been reached, NRC and KDEM concurrence shall be obtained prior to downgrading.
- 6.21.3 The EPPs provide the general plans for reentry and recovery and describe the means by which decisions to relax protective measures are reached.
 - Evaluation of the status of the three fission product barriers is used for de-escalation. As the situation improves and barriers are restored, the next lower level of event may be declared.
 - 2. De-escalation may also occur if conditions have stabilized such that the potential for re-escalation to a higher level has been removed and a controlled situation exists. A declaration of de-escalation is provided by the Emergency Manager based on known information and recommendations of the ERO.
 - Guidelines are provided for Reentry Team(s) to perform surveys and monitoring activities to be employed for initial reentry.
- 6.21.4 During the recovery process the normal procedures employed for configuration control, reporting, interfaces with regulatory agencies and support groups, exposure control, environmental monitoring, and procurement of supplies and services shall be utilized.
- 6.21.5 The Recovery Plan utilizes the necessary technical, administrative, managerial and support personnel that may be required for the recovery phase of emergency response, as determined by Site or Off-site Emergency Managers. The responsibilities and functions of the Emergency Managers and staff are detailed in the EPPs.

7.0 RECORDS

7.1 None

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8.0 FORMS

8.1 APF-06-002-01, EMERGENCY ACTION LEVELS

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EFFECTIVE	10-MILE	ΕPΖ	POPULATION	CENTERS

Significant Population Centers	Approximate Population	Subzone	Distance (miles) And Direction From The Site To Population Center
Burlington, KS	2,812	SW-1	3.5 Southwest
New Strawn, KS	434	W-1	3.4 West-Northwest
Waverly, KS	642	NE-2	11.5 North-Northeast
LeRoy, KS	582	SE-3	11.1 South-Southeast
Aliceville, KS	40	SE-2	9.3 Southeast
Ottumwa, KS	20	N₩-1	6.8 West-Northwest
Sharpe, KS	10	N-1	2.4 North
Jacob's Creek	70	W-2	10.0 West

The population numbers were taken from the 1992 census.

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ATTACHMENT B (Page 1 of 3)SUBZONE EVACUATION TIMES

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Table B.1 lists each subzone and the population in that subzone. B.1

	TABLE B.1	
	POPULATION BY SUBZONE	
Evacuation Subzone	Evacuation Zone	Population
Center (CTR)	0 - 2	75
North-1 (N-1)	2 - 5	65
Northeast-1 (NE-1)	2 - 5	82
East-1 (E-1)	2 - 5	53
Southeast-1 (SE-1)	2 - 5	40
South-1 (S-1)	2 - 5	40
Southwest-1 (SW-1)	2 - 5	2,866
West-1 (W-1)	2 - 5	463
Northwest-1 (NW-1)	2 - 5	82
North-2 (N-2)	5 - 10	121
Northeast-2 (NE-2)	5 - 10	721
Northeast-3 (NE-3)	5 - 10	144
East-2 (E-2)	5 - 10	71
Southeast-2 (SE-2)	5 - 10	138
Southeast-3 (SE-3)	5 - 10	650
Southeast-4 (SE-4)	5 - 10	56
South-2 (S-2)	5 - 10	88
Southwest-2 (SW-2)	5 - 10	88
West-2 (W-2)	5 - 10	142
Northwest-2 (NW-2)	5 - 10	114

Total Coffey County population equals 8,559 persons (1992 в.2 census). Effective 10-Mile Emergency Planning Zone Subtotals are as follows:

Effective 0 - 2-mile zone = 75 persons 0 Effective 2 - 5-mile zone = 3,691 persons 0 Effective 5 - 10-mile zone = 2,333 persons 0 Effective 0 - 10-mile zone = 6,099 persons 0

Table B.2 lists evacuation confirmation time parameters. B.3

TABLE B.2 EVACUATION CONFIRMATION TIME PARAMETERS							
EVACOATION CONFIRMATION TIME FARAMETERS Speed Vehicles							
EPZ Location	Miles Traveled	Number of Houses	Between Houses	Effort in Vehicle	Assumed Available	Confirmation Time	
Burlington	36	1,183	5 mph	105 Hrs	11	9.5 Hrs	
New Strawn	New Strawn 3	229	5 mph	20 Hrs	3	6.6 Hrs	
LeRoy	9	289	5 mph	43 Hrs	5	8.6 Hrs	
Waverly	7	280	5 mph	33 Hrs	4	8.3 Hrs	
Remaining EPZ*	289	649	30 mph	80.5 Hrs	8	10.3 Hrs	

Includes the evacuation confirmation of the U.S. Army Corps of Engineers areas at John Redmond Reservoir, Coffey County Lake, and the U.S. Fish and Wildlife Service area north of the Neosho River.

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ATTACHMENT B (Page 2 of 3) SUBZONE EVACUATION TIMES

B.4 Table B.3 lists Ambulances and Funeral Directors (FD) who may assist with transportation for non-ambulatory persons, distance to travel, time to travel, capacity of each vehicle, and an accumulative total of person capacity.

TABLE B.3							
	TRANSPORT	ATION FOR	NON-AMBULA	TORY PERSONS			
			Availabili	ty Due To Weather	Accumulated		
Location	Distance	Capacity	Good	Adverse (minutes)	Capacity		
	(miles)	(persons)	(minutes)		(persons)		
Coffey Co Ambu		10	Immediate	Immediate	10		
Yates Center FD	23	4	30	40	14		
Allen Co Ambu	49	6	47	67	20		
Lyon Co Ambu	40	12	48	68	32		
Emporia FD	40	4	48	68	36		
Franklin Co Ambu	46	9	55	79	45		
Chanute FD	50	6	60	86	51		
Garnett FD	30	3	36	52	54		
Eureka FD	55	4	66	94	58		
McPherson FD	122	2	132	210	60		
Osawatomie FD	70	4	78	120	64		
Lyndon FD	28	3	30	48	67		
LÎFESTAR	50 (air)	2	30	Limited by ceiling and visibility	69		
Anderson Co Ambu	30	8	25	45	77		

B.5 Tables B.4 and B.5 lists the 10-mile evacuation time for average and adverse weather conditions.

TABLE B.4								
10 MILE	EVACUATION TIMES	FOR AVERAGE WEATHER	CONDITIONS (HOURS) *					
Subzone	Effective 2-mile	Effective 5-mile	Effective 10-mile					
CTR	0.7	0.9	1.1					
CCL	2.5	2.5	2.5					
JRR	2.5	2.5	2.5					
N-1	_	0.8	1.1					
NE-1	-	0.9	1.1					
E-1	-	0.9	0.9					
SE-1	-	0.8	1.0					
S-1	-	0.9	1.2					
SW-1	_	1.4	1.5					
W-1	-	1.0	1.1					
NW-1	_	0.8	1.0					
N-2	_	-	0.9					
NE-2	-	_	1.0					
NE-3	-	-	0.9					
E-2	-	-	0.8					
SE-2	-	-	0.9					
SE-3	-	-	1.0					
SE-4	-	-	0.7					
S-2	. –	-	0.9					
SW-2	-	-	0.9					
W-2	-	-	0.8					
NW-2	<u> </u>		0.7					

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TABLE B.5						
10 MILE	EVACUATION TIMES	FOR ADVERSE WEATHER	CONDITIONS (HOURS)			
	Effective	Effective	Effective			
Subzone	2-mile	5-mile	10-mile			
CTR	0.7	1.0	1.3			
CCL	2.5	2.5	2.5			
JRR	2.5	2.5	2.5			
N-1	-	0.9	1.3			
NE-1	-	1.0	1.1			
E-1	-	1.0	1.1			
SE-1	-	0.9	1.1			
S-1	-	0.9	1.4			
SW-1	-	1.7	1.8			
W-1	-	1.1	1.3			
NW-1	-	0.9	1.1			
N-2	-	-	1.0			
NE-2	-	-	1.1			
NE-3	-	-	1.0			
E-2	-	-	0.9			
SE-2	-	-	1.0			
SE-3	-	-	1.1			
SE-4	-	_	0.8			
S-2	-	-	1.0			
SW-2	_	-	0.9			
W-2	-	-	0.9			
NW-2	-		1.0			

- NOTE: For all transportation-dependent people, including the non-ambulatory occupants of the Burlington Life Care Center, Sunset Manor Nursing Home and the Coffey County Hospital, an evacuation time of 2.5 hours is estimated using area resources.
- * Evacuation times are based on the population from the 1980 census. The 1980 population was larger than the population determined from the 1990 census. Since the evacuation times are based on a greater population than what is presently in Coffey County, and because the condition of some of the evacuation routes has improved (e.g. paving), the times are considered to be conservative.

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01(055		DETWEEN NONEC COOT,	
	1	1	
0654	RERP	Comments	Procedure
Section	Section		
		PONSIBILITY (Organizatio	
l.a	6.5, 6.6,		EPP 06-002, TECHNICAL SUPPORT CENTER OPERATIONS
	6.8, 6.9	site organizations	EPP 06-003, EMERGENCY OPERATION
			FACILITY OPERATIONS
			EPP 06-004, PUBLIC INFORMATION
			ORGANIZATION
l.a	6.10,	Outside organizations	
	6.11,		
	6.12,		
	6.13		
1.b	6.5 -		
	6.13		
1.c	FIGURE 6		
1.d	6.5, 6.6,		EPP 06-001, CONTROL ROOM
	6.8, 6.9		OPERATIONS
			EPP 06-002, TECHNICAL SUPPORT CENTER OPERATIONS
			EPP 06-003, EMERGENCY OPERATION
			FACILITY OPERATIONS
1.e	6.5.2	Notifications are	
1.6	0.0.2	made from the control	
		room, at the	
		direction of the Site	
		Emergency Manager.	
2.a & 2.b	N/A		
3	ATTACH. G		
4.	6.8.2	Off-site Emergency	EPP 06-003, EMERGENCY OPERATION
		Manager	FACILITY OPERATIONS
	6.6.11,	Administrative	EPP 06-002, TECHNICAL SUPPORT
	6.8.10	Coordinators	CENTER OPERATIONS
			EPP 06-003, EMERGENCY OPERATION FACILITY OPERATIONS
			FACILITI OFERATIONS
		ORGANIZATION	EPP 06-001, CONTROL ROOM
1.	6.5, Figure 2		OPERATIONS
2.	6.5.2	Site Emergency	EPP 06-001, CONTROL ROOM
۷.	0.5.2	Manager	OPERATIONS
3.	5.1.1,	Transfer of control	EPP 06-001, CONTROL ROOM
~ •	5.2.1,	from the Shift	OPERATIONS
	6.5.2,	Manager to the Site	EPP 06-002, TECHNICAL SUPPORT
	6.6.5,	Emergency Manager.	CENTER OPERATIONS
	6.6.5.1,	······································	EPP 06-003, EMERGENCY OPERATION
	1 0.0.0.1		

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4.	6.5.2,	Responsibilities of the Shift Manager,	EPP 06-001, CONTROL ROOM OPERATIONS
	6.6.5,	Site Emergency	EPP 06-002, TECHNICAL SUPPORT
	0.0.2	Manager, Off-site	CENTER OPERATIONS
		Emergency Manager	EPP 06-003, EMERGENCY OPERATION
		Emergency Hanager	FACILITY OPERATIONS
5	6.5, 6.6,	Major ERO positions	EPP 06-001, CONTROL ROOM
5	6.7, 6.8,	and their functions	OPERATIONS
	6.9		EPP 06-002, TECHNICAL SUPPORT
	0.5		CENTER OPERATIONS
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6.	6.5, 6.6,	Interfaces between	
	6.7, 6.8,	WCGS and outside	
	6.9, Fig.	organizations	
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7a.	6.8.11	Administrative	EPP 06-003, EMERGENCY OPERATION
		Coordinator	FACILITY OPERATIONS
7b.	6.21	Recovery Plan	EPP 06-003, EMERGENCY OPERATION
			FACILITY OPERATIONS
7c.	6.8.2	Duty Emergency	EPP 06-003, EMERGENCY OPERATION
		Manager	FACILITY OPERATIONS
7.d	6.9	On-site & Off-site	EPP 06-002, TECHNICAL SUPPORT
		Public Information	CENTER OPERATIONS
		Coordinator & Wolf	EPP 06-003, EMERGENCY OPERATION
		Creek Public	FACILITY OPERATIONS
		Information Officer	EPP 06-004, PUBLIC INFORMATION
			ORGANIZATION
8.	6.13	Specify contractors /	
		organizations	
0	C 10	available on request	
9.	6.10	Identify local	
		support agencies	1
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1.a	6.8.2	Persons authorized to	
		request assistance	
1.b	6.12	Expected Federal	
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		limited space for state	
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2a.	N/A		
2.b	6.8.12		·····
3.	6.14.7	Identify radiological	
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4.	6.13 and	Identify other	
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		organizations which	
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2.	6.2	Initiating conditions	EPP 06-005, EMERGENCY
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б.	6.10.3,	Evacuation times	
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2. 3.	6.10.6 6.15, 6.18.1, 6.18.6		EPP 06-018, MAINTENANCE OF EMERGENCY FACILITIES AND EQUIPMENT/COMMUNICATION CHECKS
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6.4.3		EPP 06-002, TECHNICAL SUPPORT CENTER OPERATIONS
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		identified as a post-	
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WC	ATTACHMENT D (Page 1 of 1) GS MINIMUM STAFFING FOR EN	MERGENCIES		
FUNCTIONAL AREA	POSITION TITLE OR EXPERTISE	ON SHIFT	Capabil: Additio 60 mins	
Plant Operations & Assessment of Operational Aspects	Shift Manager (SRO) Control Room Supervisor (CRS) Reactor Operator (RO) Nuclear Station Operator	1 1 2 4	- - - -	
Emergency Direction and Control	Site Emergency Manager	1*	_	
Notification/ Communication	Emergency Communicator	1*	3	
Radiological Accident Assessment & Support of Operational Accident Assessment	Off-site Emergency Manager and staff Sr. Health Physics Expertise HP Personnel	- - 1	- 1 8	5
	Chemistry Personnel	1	1	-
Plant System Engineering, Repair & Corrective Actions	Shift Technical Advisor Core/Thermal Hydraulics Eng. Electrical Eng. Mechanical Eng. Radwaste Operator Mechanical Maint. Electrical Maint. I&C Technician	1 - - 1* - 1*	- 1 1 1 - 2 2 1	
Protective Actions (In-Plant)	HP Personnel	1*	4	_
Fire fighting = Fire Brigade(FB)		FB per Tech Specs	Local Support	Local Support
Rescue Operations and First Aid		2*	Local Support	Local Support
Site Access Control and Accountability	Security Personnel	All per Security Plan	25	. 5
	TOTAL	11		J

* May be provided by shift personnel assigned to other functions.

** It is a goal to add, in accordance with this table, to the on-shift capabilities when determined necessary after a declared Emergency.

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ATTACHMENT E (Page 1 of 2) EPA/KANSAS PROTECTIVE ACTION GUIDES

E.1 <u>Population Protective Action Guides (PAG) For Exposure To A</u> Plume - Early Phase

Protective Action	PAG (Projected Dose)	Comments	
Evacuation	1-5 rem (Note 1)	Evacuation (or sheltering should normally be initiated at 1 rem.	
Administration of stable iodine (Note 2)	25 rem (Note 3)	Special Populations	

(1) Dose is TEDE, which includes effective dose equivalent from external and internal sources and committed effective dose equivalent from inhalation. Committed dose equivalents to the thyroid and to the skin may be 5 and 50 times larger, respectively.

(2) Use of KI is not planned for general population in Kansas. The State considers prompt evacuation of the public to be a more effective protective measure than administration of KI.

(3) Committed dose equivalent to be thyroid from radioiodine.

E.2 Emergency Worker Dose Limits

E.2.1 Keep all doses ALARA and limit doses to the following TEDE levels:

Dose Limit (Rem)	Activity	Condition
5	All	
10	Protecting valuable property	Lower dose not practicable
25	Life saving or protection of large populations	Lower dose not practicable
>25	Life saving or protection of large populations	Only on a voluntary basis to persons fully aware of the risks involved

E.3 Emergency Worker Iodine Dose Limits

E.3.1 Keep all doses ALARA and limit iodine doses to the following committed dose equivalent through use of KI and/or respiratory protection:

Dose Limit (Rem)	Activity
25	Any worker, any phase
No Limit - Life saving activities	No specific upper limit is given for thyroid dose since in life saving activities, complete thyroid loss might be an acceptable sacrifice if a life can be saved. However, this should not be necessary if respirators and/or thyroid protections for rescue personnel are available as a result of adequate planning.

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ATTACHMENT E (Page 2 of 2) EPA/KANSAS PROTECTIVE ACTION GUIDES

E.4 Protective Action Guides For Exposure To Deposited Radioactivity

- Intermediate Phase

Protective Action	PAG (Projected Dose) (1)	Comments
Relocate the general population (2)	<u>></u> 2 rem	Beta dose to skin may be up to 50 times higher. Doses in any single year after the first will not exceed 0.5 rem, and the cumulative dose over 50 years will not exceed 5 rem.
Apply simple dose reduction techniques (3)	<2 rem	These protective actions should be taken to reduce doses to as low as practicable levels

- (1) The projected sum of effective dose equivalent from external gamma radiation and committed effective dose equivalent from inhalation suspended materials, from exposure or intake during the first year. Projected dose refers to the dose that would be received in the absence of shielding from structures of the application or dose reduction techniques. These PAGs may not provide adequate protection for some long-live radionuclides.
- (2) Persons previously evacuated from areas outside the relocation zone defined by this PAG may return to occupy their residences. Cases involving relocation of persons at high risk from such action (e.g. patients under intensive care) should be evaluated individually.
- (3) Simple dose reduction techniques include scrubbing and/or flushing hard surfaces, soaking or plowing soil, minor removal of soil from spots where radioactive materials have concentrated, and spending more time than usual indoors or in other low exposure rate areas.

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ATTACHMENT F (Page 1 of 1) USAR CHAPTER 15 POSTULATED EVENTS Feedwater system malfunctions that result in decrease of feedwater temperature Feedwater system malfunctions that result in increase of feedwater system flow Excessive increase in secondary steam flow Inadvertent opening and failure to close of SG ARV or safety vlv Steam system piping failure (inside containment) Steam system piping failure (outside containment) Loss of external load (Main Generator trip) Turbine Trip Inadvertent closure of MSIVs Loss of condenser vacuum & other events resulting in turbine trip Loss of non-emergency AC power to station auxiliaries Loss of normal feedwater Feedwater system pipe break Partial loss of forced RCS flow Complete loss of forced RCS flow RCP shaft seizure (locked rotor) RCP shaft break Uncontrolled RCCA bank withdrawal from a subcritical of low-power startup condition Uncontrolled RCCA withdrawal at power RCCA misalignment Startup of inactive RCP at an incorrect temperature CVCS malfunction resulting in a decrease in the boron concentration in the RCS Inadvertent loading and operation of a fuel assembly in improper position RCCA ejection accidents Inadvertent ECCS operation at power CVCS malfunction that increases RCS inventory Inadvertent opening, with failure to close, of pressurizer safety or relief valve Break in instrument line or other lines from RCS pressure boundary that penetrate containment SG tube rupture LOCA spectrum Radioactive waste gas decay tank failure Postulated radioactive releases due to liquid tank failure Fuel handling accident (inside containment) Fuel handling accident (Fuel Building) Spent fuel cask drop Anticipated transients without scram - END -

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Party:				
The Coffe	ey County Sheriff's Office			
Board of	Trustees Fire District No. 1, Coffey C	ounty, KS		
Newman Me	emorial Hospital			
Coffey Co	Coffey County Hospital and EMS			
Topeka Ai	ir Ambulance Inc. (d.b.a. Life Star)			
	ek Nuclear Operating Corporation/Union 7 Mutual Assistance Agreement	Electric Co.		
INPO (Sup	INPO (Support During an Emergency)			
Departmer	Department of Energy**			
Nuclear H	Regulatory Commission**			
National	Weather Service***			
	O/NEI/Member Utilities Coordination Agr y Information	eement on		
Westingh	ouse			
transferre Operating	ary 1, 1987, the Letters of Agreement in this d from Kansas Gas and Electric Company to the Corporation. These Letters of Agreement are m riewed upon request.	Wolf Creek Nuclear		
of the "Fe	These LOAs will not be updated. They have been superseded by the public of the "Federal Radiological Emergency Response Plan" in the Federal Reg on 11/8/85.			
of Agreeme	5/93, the National Weather Service stated in wr ent with WCGS is unnecessary. Their "National es at Commercial Nuclear Power Plants," Novembe	Plan for Radiologic		
	- END -			

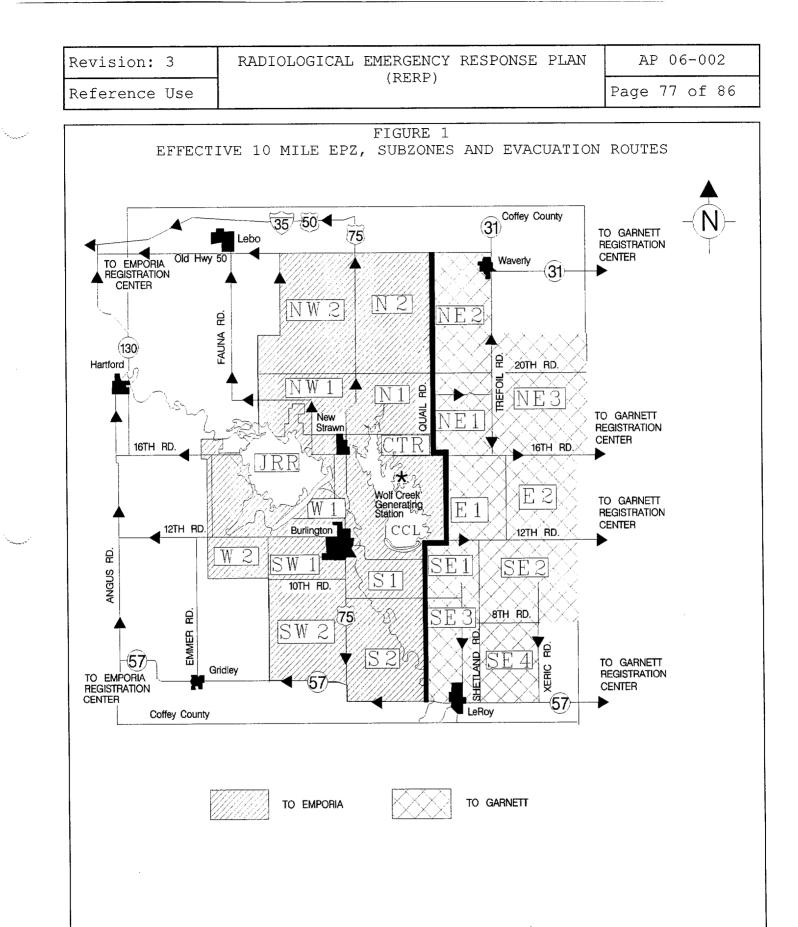
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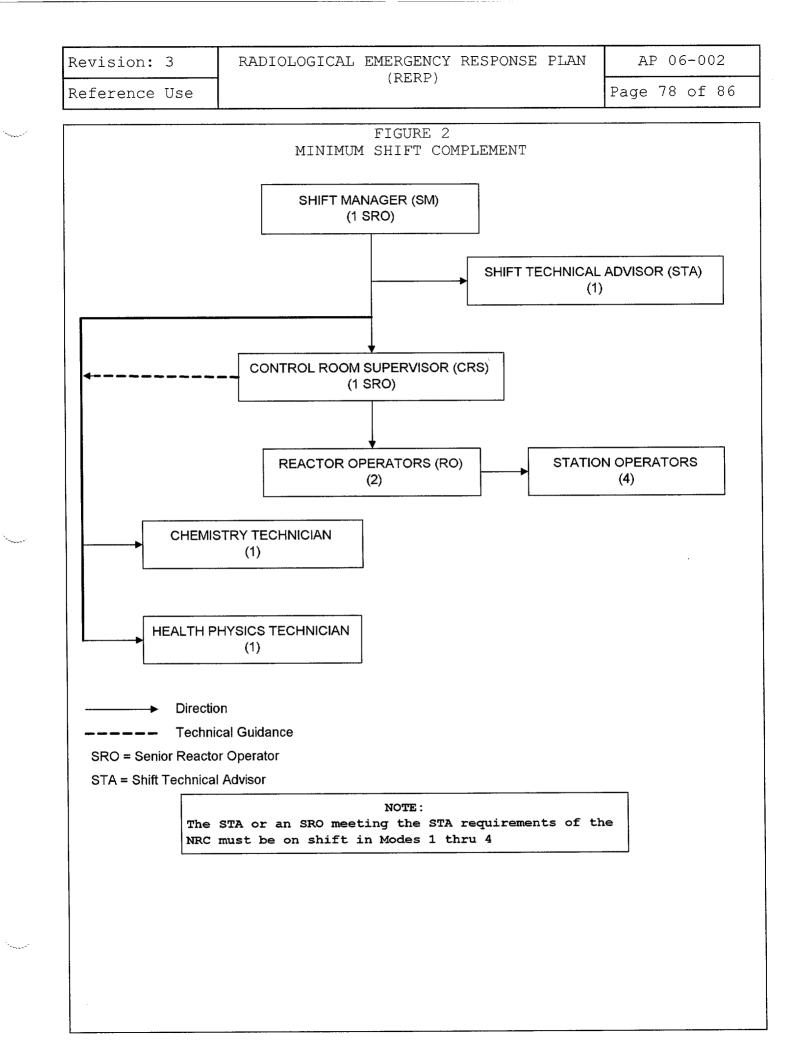
ATTACHMENT H (Page 1 of 1) REPORTING OF INCIDENTS PER 10 CFR 20

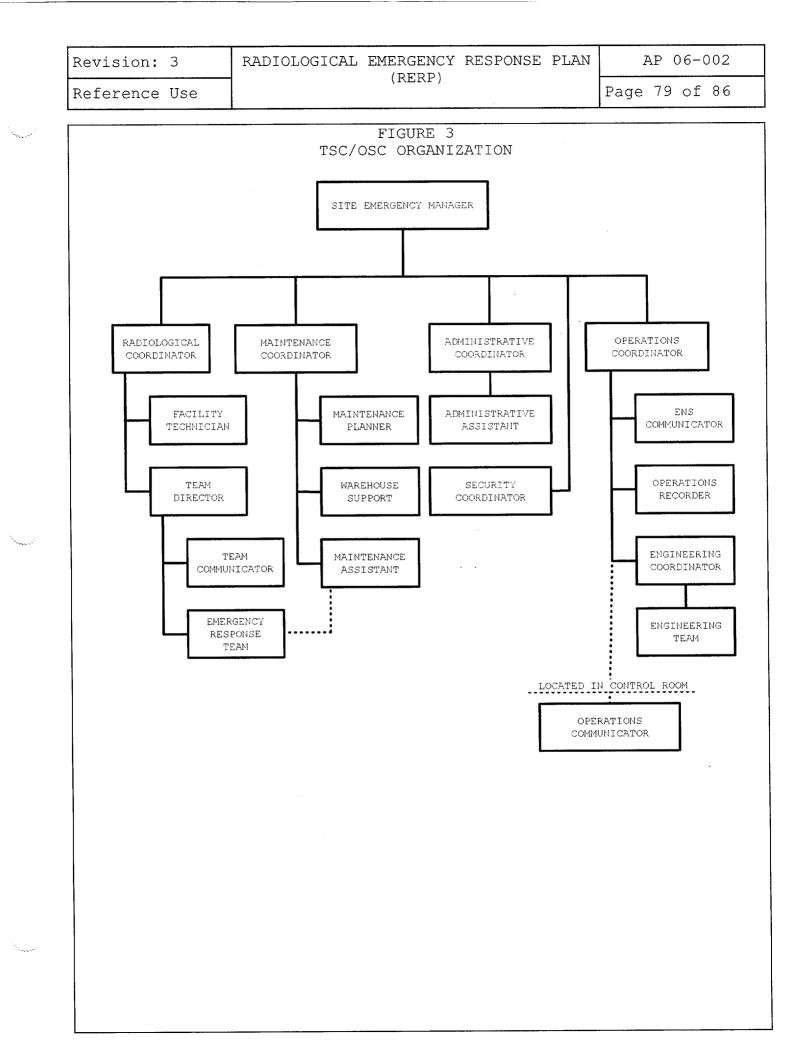
		.2202	Teleph	one & Tele	graph			.2203 Wr	itten	
		Immediat	e Notific	ation	24 Hour	Notificat	ion	30 Day N	otificatio	n
RADIATION INCIDENTS	VALUES	WCGS	NRC	KDEM	WCGS	NRC	KDEM	WCGS	NRC	KDEM
TEDE	<u>25 REM (.25 Sv)</u> <u>5 REM (.05 Sv)</u>	X X	Х	Х		Х	х	X X	X X	x x
	MPE .1201				х			х	Х	Х
Shallow dose to skin or extremities	250 Rad 50 REM	X X	Х	Х		х	x	X X	X X	X X
in excess of	MPE .1201				x			х	Х	Х
To the eye	<u>75 REM (.75 Sv)</u> <u>15 REM (.15 Sv)</u>	x x	Х			х	х			
	MPE .1201				x			x	Х	
Effluent release excess of	<u>5 ALI</u> <u>1 ALI</u> MPE .1201	x x	Х	х	x	х	X	X X X	X X X	X X X

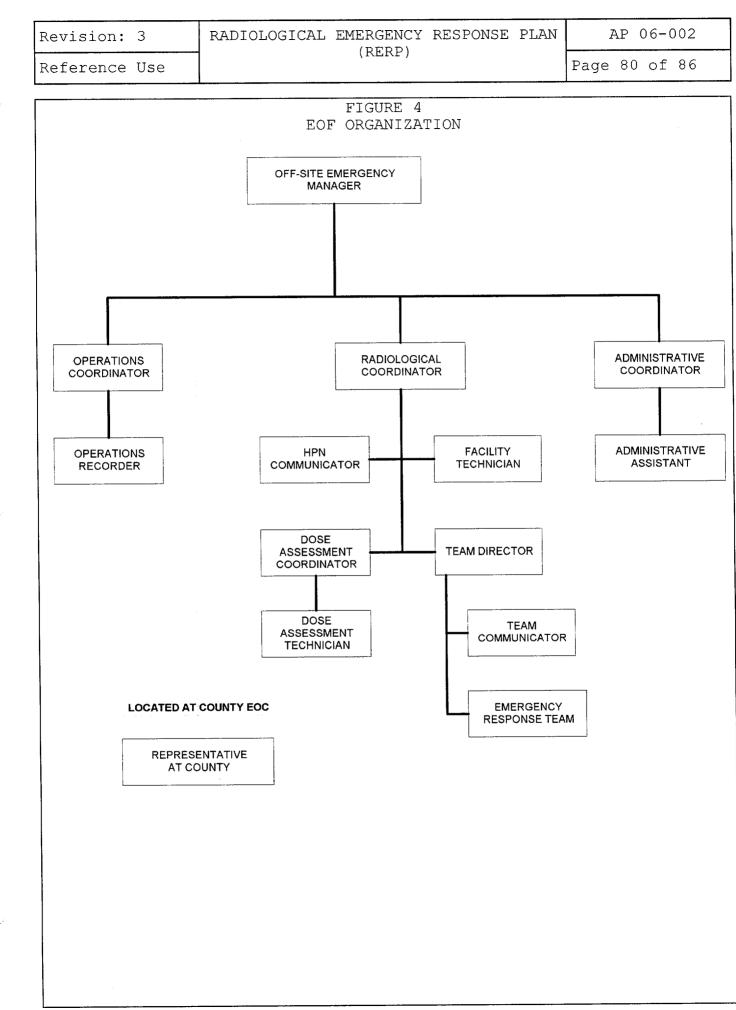
X = Indicates notification is required MPE = Maximum Permissible Exposure DAC = Derived Air Concentration WCGS = Wolf Creek Generating Station NRC = Nuclear Regulatory Commission KDEM = Kansas Division of Emergency Management

ALI = Annual Limit on Intake

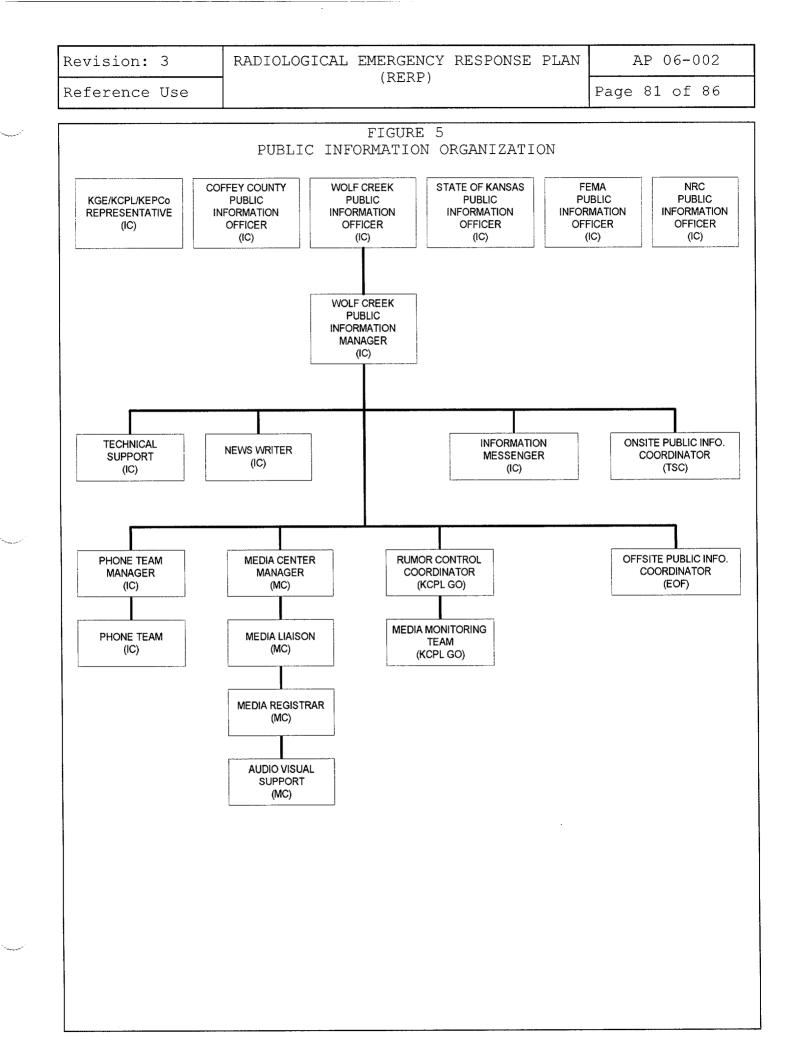


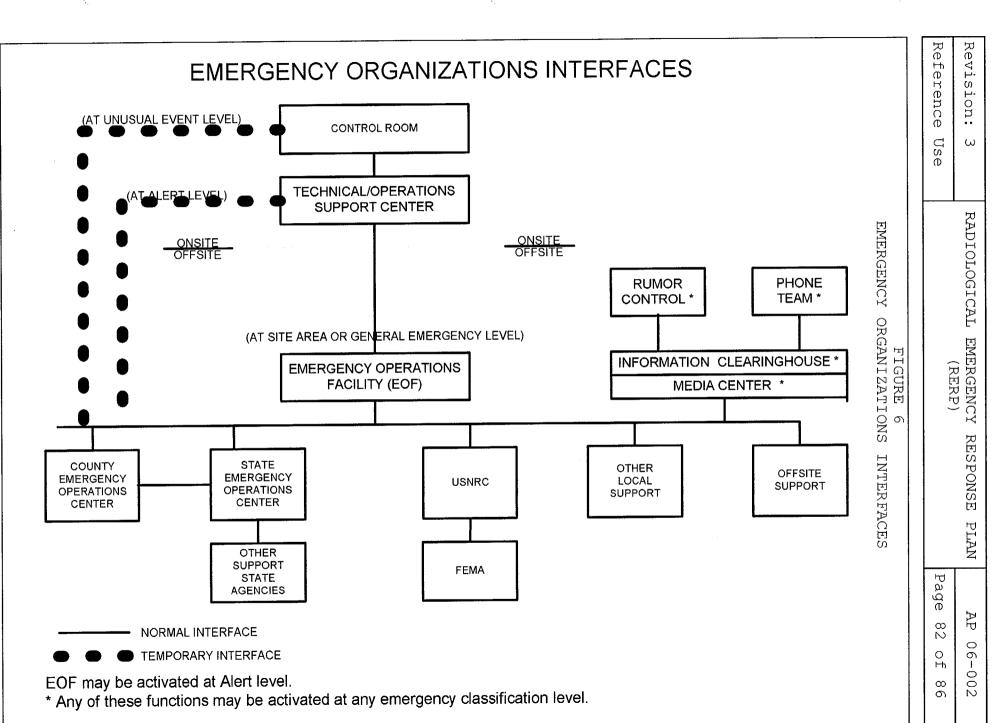


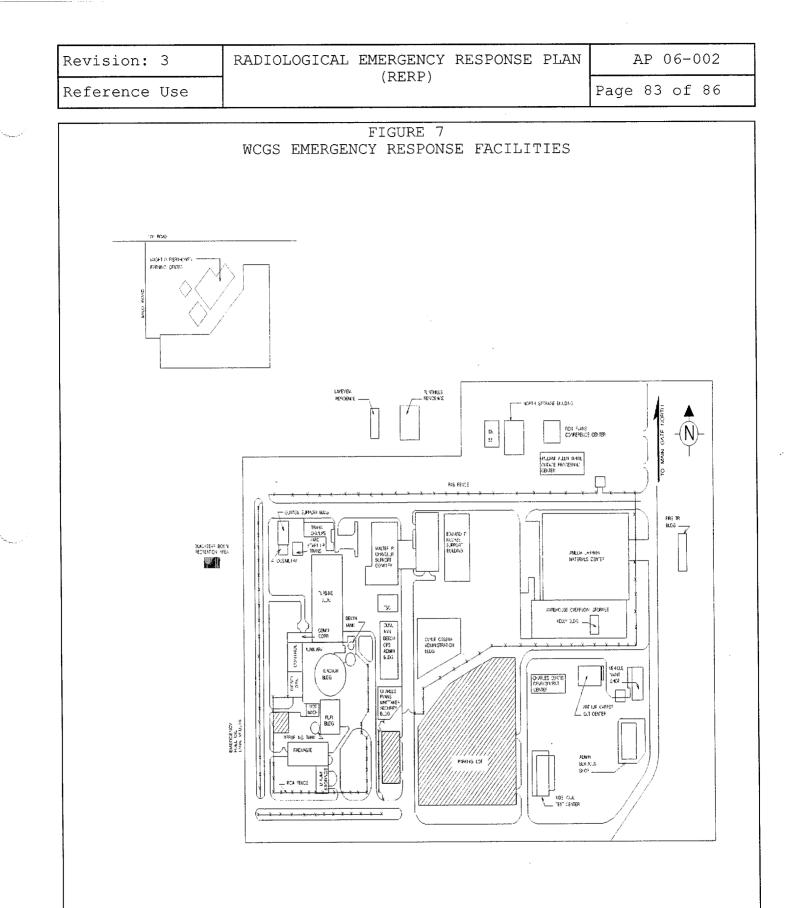




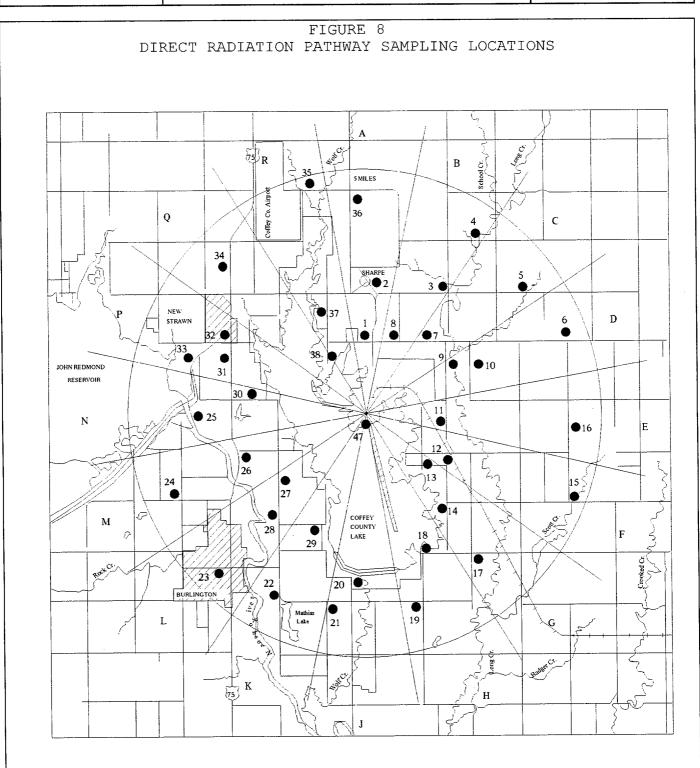
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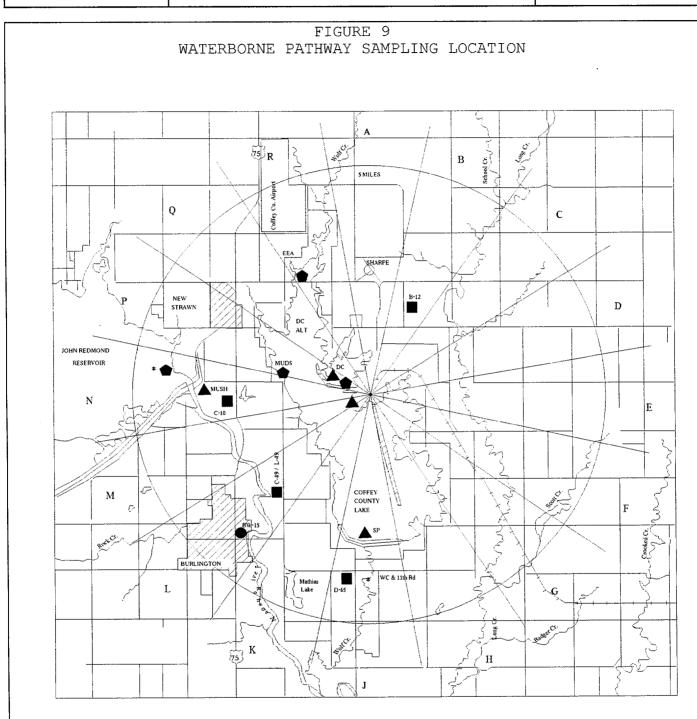
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DIRECT RADIATION PATHWAY SAMPLING LOCATIONS

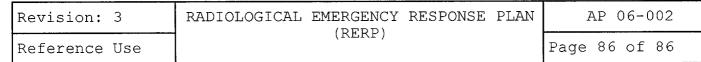
= TLD LOCATIONS

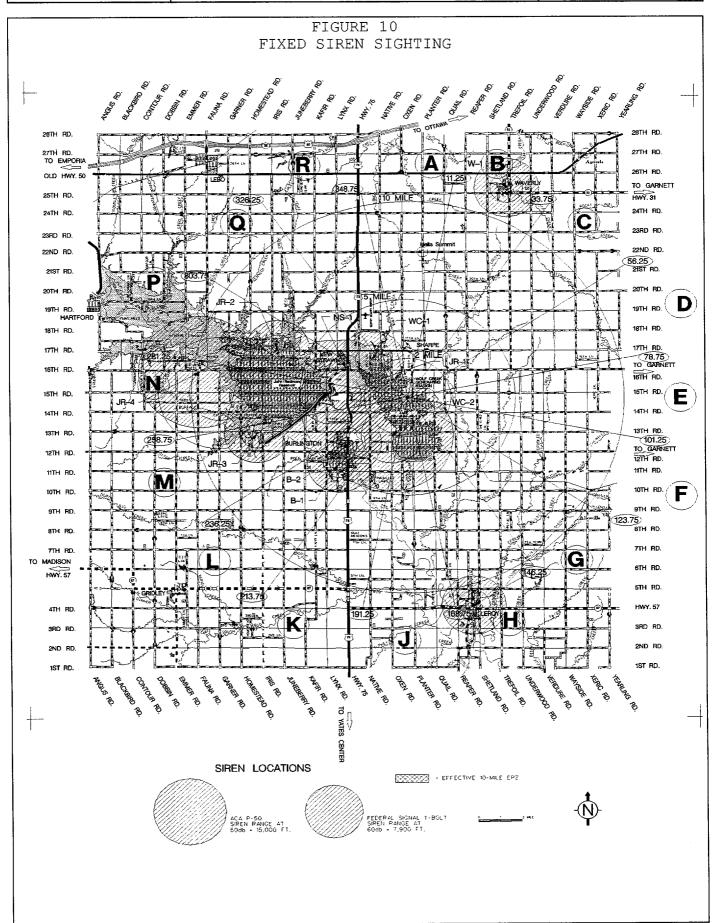
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WATERBORNE PATHWAY SAMPLING LOCATIONS

- = DRINKING WATER
- = GROUND WATER
- = BOTTOM SEDIMENT
- = SURFACE WATER
- SHORELINE SEDIMENT
- \checkmark = AQUATIC VEGETATION / ALGAE







EPP 06-001

CONTROL ROOM OPERATIONS

Responsible Manager

Manager Resource Protection

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1.0 PURPOSE

1.1 This procedure provides direction for on-shift personnel respond from the Control Room upon the declaration of an emergency classification.

2.0 SCOPE

2.1 This procedure is applicable to all Control Room and on-shift personnel upon declaration of an emergency classification.

3.0 REFERENCES AND COMMITMENTS

3.1 References

- 3.1.1 Code of Federal Regulations 10CFR20, Standards for Protection Against Radiation.
- 3.1.2 AP 06-002, RADIOLOGICAL EMERGENCY RESPONSE PLAN (RERP)

3.2 Commitments

- 3.2.1 RCMS 95-083, Failure Of The Control Room Staff To Use Site-Wide Announcements And Facility Briefings To Inform Plant Staff Of Major Developments And The Status Of Emergency Response Activities.
- 3.2.2 RCMS 91-140, Guidance To Appropriate Personnel For Access Control, Habitability, And Dosimetry Control.

4.0 DEFINITIONS

4.1 Emergency Classification

- 4.1.1 A system used to define the severity of emergencies into one of four categories based upon Emergency Action Levels. Classifications listed in order of increasing severity are as follows:
 - 1. Notification of Unusual Event (NUE)
 - 2. Alert
 - 3. Site Area Emergency (SAE)
 - 4. General Emergency

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4.2 Records

4.2.1 Documents such as calculation worksheets, computer printouts, forms, logs, memos, checklists, or any paper used to record data or information during an emergency, drill or exercise which may be used for event reconstruction.

5.0 **RESPONSIBILITIES**

5.1 Shift Manager

- 5.1.1 Initial response and classification of an event which is diagnosed during their assigned shift.
- 5.1.2 For the direction and response of on shift Operations, Maintenance, Chemistry, and Health Physics personnel who report to the Control Room.

5.2 Off-site Communicator

- 5.2.1 Perform immediate and follow-up notifications of offsite agencies.
- 5.3 Emergency Notification System (ENS) Communicator
 - 5.3.1 Make and maintain contact with the NRC Operations Center using the ENS telephone.
- 5.4 Chemistry Technician
 - 5.4.1 Perform dose assessment during a declared emergency.
- 5.5 Health Physics Technician (HP)
 - 5.5.1 Provide radiological data to the Shift Manager.
 - 5.5.2 Monitor Control Room habitability.
- 5.6 Operations Communicator
 - 5.6.1 Provide information on plant status from the Control Room to the TSC as it happens.
- 5.7 Shift Engineer
 - 5.7.1 Initiate the Emergency Response Data System (ERDS) within 60 minutes of an Alert or higher classification.

6.0 PRECAUTIONS/LIMITATIONS

6.1 The Emergency Response Data System (ERDS) must be activated within 60 minutes of a declaration of an Alert or higher emergency.

Reference Use

7.0 PROCEDURE

7.1 Control Room Functions

- 7.1.1 Control Room personnel monitor plant operations and respond to any abnormal situation or event which could require an emergency classification to be declared.
- 7.1.2 Emergency Action Levels (EALs) are used to determine if and which emergency classification to declare.

7.1.3 The Shift Manager assumes the duties of the Site Emergency Manager upon the declaration of an Emergency Classification. While performing the duties of the Site Emergency Manager, the Shift Manager may not delegate the following responsibilities:

- o Emergency Classification
- Authorization of Notification of Off-site Authorities
- o Protective Action Recommendations
- Authorization of Emergency Exposure in excess of 10CFR20 Limits
- 7.1.4 Once a classification is made, on shift personnel perform the following:
 - 1. Control Room personnel take appropriate technical actions to mitigate the event.
 - 2. Nuclear Station Operators (NSOs) notify the Control Room of their location and perform as directed by the Control Room.
 - 3. Chemistry and one Health Physics Technicians report to the Control Room and perform as directed by the Shift Manager.
 - 4. Assigned personnel perform notifications to offsite agencies and establish ENS communications.
 - 5. Control Room habitability is monitored, dose assessment is implemented, and contamination control is established for the Control Room.
 - 6. On-shift Maintenance personnel notify the Control Room of their location and perform as directed by the Shift Manager.

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	 Personnel sent out from the Contro designated functions, except on-sh to the Control Room until the TSC of Emergency Response Teams. 	nift NSOs, report
7.1.5	Plant announcements are made for items emergency classifications, changes in status, known hazards in the plant, an terminating an emergency.	major equipment
	1. The following written announcement	ts are available:
	 EPF 06-001-01, NOTIFICATION OF EMERGENCY ANNOUNCEMENT 	UNUSUAL EVENT
	0 EPF 06-001-02, ALERT EMERGENCY	ANNOUNCEMENT
	0 EPF 06-001-03, SITE AREA EMERG	ENCY ANNOUNCEMENT
	o EPF 06-001-04, GENERAL EMERGEN	CY ANNOUNCEMENT
	o EPF 06-001-05, RECOVERY/TERMIN	ATION ANNOUNCEMEN
7.1.6	Work being performed in the plant sho and personnel performing work critica may be exempted from evacuating. Tho be included in Control Room accountab	l to the emergences se personnel will
7.1.7	Personnel should maintain a log of ev emergency for later event reconstruct	
7.1.8	Control Room positions and steps cove are listed below.	ring each positic
	o Step 7.2, Shift Manager	
	o Step 7.3, Off-site Communicator	
	o Step 7.4, ENS Communicator	
	o Step 7.5, Chemistry Technician	
	o Step 7.6, Health Physics Technici	an
	o Step 7.7, Operations Communicator	
	o Step 7.8, Shift Engineer	

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7.2	Shift Ma	anager		
	7.2.1	class notif	Security Emergency has been dec ify the event and perform State ications in accordance with EPP ICATIONS.	e and County
		E	O NOT implement call-out and/or mergency Facilities until the S as been terminated.	
	7.2.2	immed	a classification has been deter liately direct the Off-site Comm assigned emergency response du	nunicator to perfo:
	7.2.3		NUE has been declared, <u>THEN</u> pe wing:	erform the
		E	Obtain EPF 06-001-01, NOTIFICATI MERGENCY ANNOUNCEMENT, and ensu s read over the Plant All Page	ire the announcement
		5	Complete EPF 06-007-01, WOLF CRE STATION EMERGENCY NOTIFICATION, priginal to an Off-site Communic	and give the
	7.2.4		Alert or higher emergency has orm the following:	been declared, \underline{TH}
			Obtain and complete the appropri Form for the declared emergency.	
		(D EPF 06-001-02, ALERT EMERGENC	CY ANNOUNCEMENT
		C	D EPF 06-001-03, SITE AREA EMEF	RGENCY ANNOUNCEMEN
		(D EPF 06-001-04, GENERAL EMERGE	ENCY ANNOUNCEMENT
			List the reason(s) for the emergent the form.	gency classificati
	<u></u> ,		NOTE	
			Facility is normally closed betw ill open SAF upon request from S	

3. <u>IF</u> personnel are ordered to evacuate, <u>THEN</u> use the following to determine which exit personnel should use to evacuate and check the appropriate box on the form:

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	a. <u>IF</u> no radiological release is wind direction is not of conce PAB and assemble at an assemble	ern, <u>THEN</u> exit the
	b. <u>IF</u> a radiological release is a and wind direction is from 180 only through Main Security and Charles Curtis Development Cer	0-269°, <u>THEN</u> exit d assemble in the
	c. <u>IF</u> a radiological release is a and wind direction is from 270 only through Secondary Access assemble in the William Allen Processing Center.	0-360°, <u>THEN</u> exit Facility and
	d. <u>IF</u> dose projections indicate or equal to 1 REM OR Thyroid equal to 5 REM, <u>THEN</u> evacuate Emporia State University Phys. Building.	greater than or and assemble at
	4. IF radiological release is actual check the box for stopping eating smoking, and chewing.	
	5. IF unique hazards exist or areas $\frac{\text{THEN}}{\text{form}}$ check the box and list the	
	6. Ensure Site Evacuation Alarm is completed announcement form is r All Page system.	
	7. Complete EPF 06-007-01, WOLF CRE STATION EMERGENCY NOTIFICATION, original to an Off-site Communic	and give the
7.2.5	IF Off-site Support is needed, THEN of the RETD, OFFSITE SUPPORT, for Of phone numbers.	refer to Section I f-site Support
7.2.6	Monitor plant status and reclassify necessary in accordance with EPP 06- CLASSIFICATION.	the emergency as 005, EMERGENCY
7.2.7	Ensure personnel accountability has	been completed.
7.2.8	$\frac{\text{IF}}{\text{the Unit Vent Monitor is in Prog}}$ with SYS SP-121, OPERATION OF THE G.	MODE in accordance

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7.2.9	Initiate dose assessment and habitabil by informing the Chemistry Technician of release status, path, duration and plant status.	and HP Technician
7.2.10	$\frac{\text{IF}}{\text{following}}$ conditions warrant, $\frac{\text{TH}}{\text{as}}$	
	o Authorize emergency exposures in a EPP 06-013, EXPOSURE CONTROL AND F PROTECTION	
	o Decontamination of onsite personne with RPP 02-310, PERSONNEL DECONTA	el in accordance MINATION
	o Issuance of KI in accordance with EXPOSURE CONTROL AND PERSONNEL PRO	
	 Notify HP of teams and their job of dispatched to the field to ensure instructions are provided for the 	proper
7.2.11	Make required Protective Action Recomm accordance with EPP 06-006, PROTECTIVE RECOMMENDATION.	nendations in E ACTION
7.2.12	Ensure the ENS Communicator position is within one hour of the declaration of	is established an emergency.
7.2.13	WHEN the responsibility and authority has been transferred to Site Emergency resume normal duties and keep the TSC status.	y Manager, <u>THEN</u>
7.2.14	Ensure Control Room personnel are not: transfer of duties to an Emergency Mar	

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NOTES

- o The steps in this section may be performed in any order to ensure tasks are completed in the required time.
- o The Plant All Page system is the preferred method for plant announcements. Other public announcement systems should be used if the Plant All Page system is not available.
- 7.3 Off-site Communicator
 - 7.3.1 WHEN an emergency is declared <u>OR</u> as directed, <u>THEN</u> initiate staffing of the Emergency Response Organization (ERO) by activating the E-Plan pagers or Automatic Dialing System (ADS) in accordance with EPP 06-015, EMERGENCY RESPONSE ORGANIZATION CALLOUT.
 - 7.3.2 Perform Emergency Notifications in accordance with EPP 06-007, EMERGENCY NOTIFICATIONS.
 - 1. <u>WHEN</u> the State and County notifications are complete, <u>THEN</u> provide a copy of the notification form to the ENS Communicator.
 - 7.3.3 At an Alert or higher emergency, unless directed otherwise by the Shift Manager, sound the Site Evacuation Alarm.
 - 1. Read the appropriate emergency classification announcement as distinctly as possible over the Plant All Page system. [Commitment Step 3.2.1]
 - Plant Page System number is 7920. At tone dial
 0 for all buildings.
 - 2. Ensure the gaitronics is merged after Site Evacuation Alarm has timed out.
 - 7.3.4 Provide Security with the emergency classification announcement and the ACAD badge numbers for anyone retained by the Shift Manager who are not in the control room for accountability. [Commitment Step 3.2.1]
 - 7.3.5 <u>WHEN</u> the TSC is activated and has assumed notification responsibilities, <u>THEN</u> disconnect the verification phone in the Control Room.

7.3.6 Perform duties as assigned by the Shift Manager.

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7.4 ENS Communicator

- 7.4.1 Obtain and complete EPF 06-001-06, ENS COMMUNICATOR'S WORKSHEET, to use for communicating with the NRC.
- 7.4.2 Establish and maintain continuous communications with the NRC via the Emergency Notification System (ENS) FTS 2000 telephone. IF the NRC determines that continuous communications or contact with all facilities is not necessary, THEN communications may be terminated as directed by the NRC.
 - 1. Use of the ENS phone is in accordance with EPP 06-007, EMERGENCY NOTIFICATIONS.
- 7.4.3 Provide the following additional information to the NRC:
 - 1. Any further degradation in the level of safety of the plant or other worsening plant conditions
 - 2. The results of ensuing evaluations or assessments of plant conditions
 - 3. The effectiveness of response or protective measures taken
 - 4. Any information related to plant behavior that is not understood by the NRC

7.5 Chemistry Technician

- 7.5.1 Notify the Shift Manager of your presence in the Control Room.
- 7.5.2 <u>IF CHARMS GT RE 59 and/or GT RE 60 change substantially</u> while performing a dose assessment, <u>THEN</u> inform the Shift Manager.
- 7.5.3 <u>IF CHARMS GT RE59 and/or GT RE60 read equal to or</u> greater than 2.8E+4 R/HR, <u>THEN</u> notify the Shift Manager.
- 7.5.4 IF while performing a dose assessment it is obvious the 1 Rem TEDE or 5 Rem Thyroid value will be exceeded, THEN inform the Shift Manager.
- 7.5.5 WHEN dose assessment is completed, <u>THEN</u> brief the Shift Manager on the following:
 - 1. Assumptions used
 - 2. Results

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		3. Specify if TEDE doses equal or exc value	ceed the 1 Rem
		 Specify if Thyroid doses equal or value 	exceed the 5 Rem
	7.5.6.	IF a Follow-up Notification is require correct dose projection numbers have b the form.	
	7.5.7	WHEN the EOF is activated, THEN provided ata generated in the Control Room to Radiological Coordinator.	
7.6	Health	Physics Technician	
	7.6.1	Notify the Shift Manager of your pres- Control Room.	ence in the
	7.6.2	Keep the Shift Manager informed of th status of the Control Room. [Commitme	
	7.6.3	Make radiological protective action r teams sent out by Shift Manager.	ecommendations fo
	7.6.4	Keep the Shift Manager informed of ot items such as team reports or increas readings from plant area. [Commitmen	ing radiation
	7.6.5	Ensure an access control point is est entrance and exit of the Control Room Step 3.2.2]	ablished for . [Commitment
	7.6.6	Assist Control Room personnel with ob appropriate dosimetry. [Commitment S	
	7.6.7	$\underline{\text{IF}}$ directed by the Shift Manager, $\underline{\text{THE}}$ Control.	\underline{N} report to Acce
7.7	Operati	ons Communicator	
	7.7.1	Set up communications system.	
	7.7.2	WHEN the TSC and EOF activate, THEN i conference phone call with the Operat performing the following:	
		1. Call the TSC Operations Recorder	at ext. 5387
		2. Flash the switch-hook, listen for	tone
		3. Call the EOF Operations Recorder	at ext. 5704
		4. Flash the switch-hook, ensure all	parties on line

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- 5. Repeat steps 2 through 4 for additional parties, up to a total of six
- 7.7.3 Determine and report the locations and activities of teams dispatched from the Control Room to the TSC Operations Recorder.
- 7.7.4 <u>IF</u> the NPIS computer is inoperable, <u>THEN</u> provide required information to the Operations Recorders for the Operations Status Board.
 - Refer to EPF 06-002-02, OPERATIONS STATUS, for data needed to be obtained. Form is in the EPP Forms book.

7.7.5 Report plant conditions and operational manipulations to the Operations Recorders.

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CONTROL ROOM OPERATIONS

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7.8 Shift Engineer

NOTE

Emergency Response Data System (ERDS) must be activated within 60 minutes of an Alert or higher classification.

7.8.1 Ensure ERDS is initiated within 60 minutes of an Alert or higher classification.

NOTE

The NPIS screen used to initiate ERDS will be unavailable for use during the event.

- 1. From an authorized NPIS terminal initiate ERDS by performing one of the following:
 - o Select the E-Plan Menu, then touch the ERDS block on the screen.

OR

- o Type the Turn-On code "ERDS" and press the "Return/Enter" key
- 2. Follow the prompts until the ERDS is activated.
- 7.8.2 Resume duties as directed by the Shift Manager.
- 8.0 INITIAL ACTIONS
- 8.1 None

9.0 SUBSEQUENT ACTIONS

- 9.1 None
- 10.0 RECORDS
- 10.1 Records generated by this procedure during an actual emergency are considered lifetime QA records and shall be forwarded to Emergency Planning at the termination of the emergency.
- 10.2 Records generated by this procedure during a drill or exercise are considered non-QA records and shall be forwarded to Emergency Planning at the termination of the drill or exercise.
- 11.0 FORMS
- 11.1 EPF 06-001-01, NOTIFICATION OF UNUSUAL EVENT EMERGENCY ANNOUNCEMENT

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11.2 EPF 06-001-02, ALERT EMERGENCY ANNOUNCEMENT

11.3 EPF 06-001-03, SITE AREA EMERGENCY ANNOUNCEMENT

11.4 EPF 06-001-04, GENERAL EMERGENCY ANNOUNCEMENT

11.5 EPF 06-001-05, RECOVERY/TERMINATION ANNOUNCEMENT

11.6 EPF 06-001-06, ENS COMMUNICATOR'S WORKSHEET

- END -



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EPP 06-012

DOSE ASSESSMENT

Responsible Manager

Manager Resource Protection

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DOSE ASSESSMENT

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1.0 PURPOSE

1.1 This procedure provides guidance for determining release rates and for estimating off-site dose to the Whole Body and Thyroid.

2.0 SCOPE

2.1 The estimated release rate, total release values, off-site dose rates, and integrated doses to the Whole Body and Thyroid, are used in conjunction with EPP 06-006, PROTECTIVE ACTION RECOMMENDATIONS, as one basis for determining off-site protective actions to be recommended to State and County Officials.

3.0 REFERENCES AND COMMITMENTS

- 3.1 References
 - 3.1.1 CHS AX-G01, SAMPLING OF UNIT AND RADWASTE VENTS FOR RADIOACTIVE GAS AND TRITIUM
 - 3.1.2 EPP 06-006, PROTECTIVE ACTION RECOMMENDATIONS
 - 3.1.3 EPP 06-009, DRILLS AND EXERCISE REQUIREMENTS
 - 3.1.4 EPP 06-011, EMERGENCY TEAM FORMATION AND CONTROL
 - 3.1.5 EPP 06-013, EXPOSURE CONTROL AND PERSONNEL PROTECTION
 - 3.1.6 Radiological Emergency Response Plan (RERP)
 - 3.1.7 Regulatory Guide 1.109, Calculation Of Annual Doses To Man From Routine Release Of Reactor Effluents For The Purpose Of Evaluating Compliance With 10CFR50, Appendix I, (Rev. 1, October, 1977)
 - 3.1.8 Regulatory Guide 1.111, Methods For Estimating Atmospheric Transport And Dispersion Of Gaseous Effluents In Routine Releases From Light Water Cooled Reactors, (Rev. 1, July 1977)
 - 3.1.9 Regulatory Guide 1.145, Atmospheric Dispersion Models For Potential Accident Consequence Assessments At Nuclear Power Plants, (August, 1979)
 - 3.1.10 Regulatory Guide 1.23, Meteorological Programs In Support Of Nuclear Power Plants, (September, 1980)
 - 3.1.11 Regulatory Guide 1.4, Assumptions Used For Evaluating The Potential Radiological Consequences Of A Loss Of Coolant Accident For Pressurized Water Reactors, (Rev. 2, June 1974)

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3.2 Commitments

3.2.1 ITIP 00101 (SOER 83-02, Recommendation R12), Ensure Estimates Of Dose Can Be Made For Two-Phase Or Liquid Releases Though S/G Safety And Relief Valves.

4.0 DEFINITIONS

4.1 Emergency Planning Zone (EPZ)

4.1.1 The area around WCGS in which emergency preparedness planning is conducted. The plume exposure EPZ has a radius of approximately 10 miles. The ingestion exposure pathway EPZ has a radius of about 50 miles.

4.2 Exclusion Area

4.2.1 That area within a 1200-meter radius surrounding WCGS in which WCNOC has the authority to determine all activities including exclusion or removal of persons and property from the area.

4.3 Integrated Dose

- 4.3.1 The amount of ionizing radiation that has been received during a given period of time by a population or group.
- 4.4 Pasquill Atmospheric Stability Classifications
 - 4.4.1 Are measures of the stability or instability of an air mass based upon the vertical temperature differential between two points.

4.5 Projected Dose

4.5.1 The amount of ionizing radiation that is likely to be received by a population or group if no protective action measures are implemented.

4.6 Projected Integrated Dose

4.6.1 The summation of the Integrated Dose (previous) and the Projected Dose (future).

4.7 Protective Actions

4.7.1 Those emergency measures taken to minimize or prevent radiological exposures to personnel.

4.8 Release Rate

4.8.1 The quantity of radioactive material released to the environment expressed in curies per second (Ci/sec).

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4.9 Source Term

- 4.9.1 The calculated quantity of radioactive material available for or being released to the environment.
- 4.10 <u>X/Q</u>
 - 4.10.1 A factor based on meteorological dispersion characteristics which relates atmospheric radionuclide release rates to offsite air concentrations.
- 4.11 Nuclear Plant Instrument System (NPIS)
 - 4.11.1 A plant monitoring tool designed to view critical systems and components during normal and accident conditions.

4.12 Dose Assessment Program

4.12.1 A computer program developed at Wolf Creek designed to use site-specific source terms in the performance of Dose Assessment during an accident condition.

5.0 RESPONSIBILITIES

- 5.1 Shift Manager
 - 5.1.1 Prior to activation of the Emergency Operations Facility (EOF), assures the Shift Chemist implements this procedure.
- 5.2 Radiological Coordinator
 - 5.2.1 <u>IF</u> vent monitor(s) are inoperable, <u>THEN</u> consider dispatching Plant Team(s) to collect appropriate samples.

5.3 Shift Chemist

- 5.3.1 At the declaration of an ALERT or higher emergency classification reports to the Control Room to perform emergency dose calculations in accordance with this procedure.
- 5.4 Dose Assessment Coordinator
 - 5.4.2 Recommends that Offsite Monitoring Teams be dispatched to determine offsite dose rates in accordance with EPP 06-011, EMERGENCY TEAM FORMATION AND CONTROL.
 - 5.4.3 Informs the appropriate TSC or EOF management of the dose rate and projected integrated TEDE and Thyroid doses.

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5.5 Dose Assessment Technician

5.5.1 Performs emergency dose calculations in accordance with this procedure.

6.0 PRECAUTIONS/LIMITATIONS

- 6.1 To confirm that the correct version of the Dose Assessment Program is in use, open the Dose Assessment Program, then click on 'Help' and 'Help About'. The correct version currently in use is Rev. 3.0.1 If the correct version is not loaded on your computer, it should be removed from your hard drive.
- 6.2 Offsite dose projection calculations should be performed at least once per hour during the first eight hours after the accident unless it is determined that releases of airborne radioactivity from the plant have been terminated.
- 6.3 Offsite dose projection calculations should be updated if any of the following conditions occur:
 - 6.3.1 Release rate increases by more than 25 percent.

NOTE

Use 15 minute MET data averages for minor wind direction changes.

- 6.3.2 Wind direction changes by more than 22.5°.
- 6.3.3 Atmospheric stability classification changes.
- 6.3.4 Wind speed changes by more than 50 percent.
- 6.3.5 Prior to any planned releases.
- 6.4 IF a radiological release is already in progress before a dose assessment calculation is performed, <u>THEN</u> be sure to look at historical release data / trend on the NPIS to determine the maximum release rate, monitor readings, and meteorological conditions.
 - 6.4.1 <u>IF</u> this is not done <u>THEN</u> an under estimation of an emergency dose projection can occur.

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7.0 PROCEDURE

7.1 Program Description

NOTES

- o Tab and Shift Tab key manipulations may be used to move through a Model Screen.
- o Commonly practiced window manipulations may also be used to move through the program.

7.1.1 The following models may be selected by selecting the appropriate tab in the upper right hand corner of the program window.

- 1. Release Rate Model
- 2. Design Basis Accident (DBA)
- 3. SG Tube Rupture
- 4. Radiation Monitoring System
- 5. Field Team Data

7.1.2 Information

- 1. Selection of the INFORMATION heading on the tool bar allows access to the following screens:
 - a. Dose Projection Report/Dose by Subzone
 - b. Source Term
- The Dose Projection Report/Dose by Subzone and Model Screen are two separate program windows and can both be visible at the same time, subject to limitations of screen resolution, and size.
 - a. The Model Screen includes:
 - 1) MET data section
 - 2) Release data section
 - 3) Performed/Verified signature section
 - 4) Release start time
 - 5) Calculation result section:

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		<u> </u>	a) Particulate, Noble Gas rates.	and Iodine releas
			b) Projected Centerline Do results of the data ent summed.	
		6	PAR section which is based Dose Segment as well as th	
			a) Only evacuation recomme listed.	nded subzones are
			se Projection Report/Dose by cludes:	Subzone Screen
		1	Dose Rate to the Whole Bod Exclusion Area Boundary (E miles in Roentgen per hour	CAB), 2, 5, and 10
		2	Plume arrival time in minu and 10 miles based on wind	
		3	Estimated hours until evac for EAB, 1 R TEDE or 5R th	
		4	A list of both TEDE and Theach subzone.	nyroid Dose for
	3.		ource term option allows mar mation.	nipulation of DCF
		Ċ	e source term enables the us stribution from the USAR Gap tivities.	
		1	Selection of the Activity source term screen tool ba to zero all activities fo to return to USAR Gap act	ar allows the use: r manual entry or
		2	Selection of the File head term screen tool bar allow manipulation.	

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NOTE

If the containment spray is selected, the program will inquire whether the spray has been on for 30 minutes or more. If the spray has been on for 30 minutes or more, the filtration factor will be utilized; if not, the filtration factor will not be applied.

- b. Two additional nuclide distribution factors are available on the source term screen, HEPA filters and Containment Spray.
 - A "Y" entry in the HEPA Filter Box reduces the Iodine Activity 90%. That is, 10% of the Iodine activity is released to the public.
 - 2) A "Y" entry in the Containment Spray Box reduces the Iodine Activity available for release by 75%. That is, 25% of the Iodine activity is released to the public.
 - 3) If both HEPA Filter and Containment Spray are answered "Yes", the Iodine Activity used in the offsite dose projections is reduced to 2.5% of its original activity level.
 - Prior to performing real time calculations, the user must remember to check the source term screen values to ensure projection source term values are appropriate.
- 4. PARs selection from the Information Menu Bar provides information for review of Protective Action Recommendations.

NOTE

The notification form can only be printed if THE DOSE ASSESSMENT PROGRAM is running from the LAN.

- 5. The File Menu bar provides options to print the Notification form and calculation worksheet.
- 7.1.3 Data
 - 1. Selection of Data from the Menu Bar allows selection of the following actions:
 - a. Sort Dose by Subzone

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	b. Sum Dose	
	c. Perform Calculations	
	d. Long Range Calculations	

 The Sort Dose by Subzone and Sum Dose actions are self-explanatory.

7.1.4 Calculations

- 1. The offsite doses will be calculated using the data displayed on the Model Screen.
- 7.1.5 Long Range Calculations
 - The offsite doses, and farthest evacuation distance will be calculated using the data displayed on the Model Screen.

7.2 Program Use

- 7.2.1 The Dose Assessment Program will normally be operated from an Icon on the desktop. The program is also available at I:\Shared\EDCP\EDCP.EXE.
- 7.2.2 Select a Release Model from the tabs in the upper right hand corner of the program screen.
- 7.2.3 Dose calculations may now be performed. Menu items necessary for operation of the program are selected from the Menu Bar.

NOTE

On a total loss of offsite power, certain radiation monitors are still available. See ATTACHMENT B for more information.

- 7.2.4 Obtain the following information:
 - 1. Plant Status
 - 2. MET data
 - 3. Process Monitor data
 - 4. Effluent Flow rate data

-OR-

5. If no data is available perform a DESIGN BASIS RCS LOCA using:

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······		a. DBA Release Rate	
		b. Unfiltered Release Pathway	
		c. Stability Class D for daytime or F for night time	Stability Class
		-OR-	
		d. If the accident is deemed to be Design Basis and is rapidly esca recommend to the Emergency Manag 06-006, PROTECTIVE ACTION RECOMM	lating, er to use EPP
7.2.5	Dos	e Assessment Program MET Information	:
	1.	Wind speed can be input as mph, kph double-clicking within the box surr input description until the appropr is displayed.	ounding the
	2.	Projected release duration and time trip can both be input as hrs., min double-clicking within the box surr input description until the appropr is displayed.	s., or days by ounding the
	3.	A Stability Class-Wind Speed/Weathe Help Screen is available by double- the stability class input field.	
		a. The user may generate a stabilit selecting the appropriate weathe inputting the proper wind speed.	er condition and
		b. The generated stability class is Model Screen by selecting FILE E	
7.2.6	Dos	e Assessment Program Model Operation	<u>ns</u>
	1.	Steps 7.2.7 through 7.2.11 contain regarding data entry specific to ea	
7.2.7	Opt	ion One, Release Rate Model	
	1.	This model allows the user to input Iodine release rates in Ci/sec.	Gaseous and
	2.	The following instructions may be a operating the Release Rate Model:	seful in

a. Gaseous Release Rate may be changed to Total Release Rate by double-clicking within the box surrounding the Gaseous Release Rate.

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		1)	Likewise, the display can be Gaseous Release Rate from To by double-clicking within th surrounding the total releas	tal Release Rat e box
	b	dou	line Release Rate may be chang ble-clicking within the box s line Release Rate.	
		1)	$\underline{\text{IF}}$ the ratio is known, $\underline{\text{THEN}}$ entered.	the value can b
		2)	If the ratio is unknown, a H be displayed by double-click input field for the iodine r	ing within the
		3)	Once the user selects the ap from the list, FILE EXIT is to the Model Page of the rep	used to return
		4)	The display may be changed b Release Rate by double-click box surrounding Iodine/Noble	ing within the
	с	is	a leak rate (gal/min) and act known or can be estimated, <u>TH</u> Lculation could be used to det	IEN the followin
			$\frac{Ci}{c} \left(\frac{gal}{\min}\right) \left(\frac{\min}{60s}\right) \left(\frac{3.785L}{gal}\right) \left(\frac{1000cc}{L}\right) \left(\frac{Ci}{1E6\mu}\right)$	C_i = $\frac{C_i}{s}$
7.2.8	Optic	n Two	o, Design Basis Accident (DBA)	Model
	C	alcu	model allows the user to perfo lations based on USAR release us design accidents.	
			is option is selected, the use a list of nine DBAs:	er may select
	e	Lo	ss of Coolant	
	k	. Ma	in Steam Line Break	
	C	. Lo	ss of Offsite AC	
	С	l. Lo	cked RCP Rotor	
	e	e. Wa	ste Gas Decay Tank Rupture	
	t	E. CV	CS Break	

.

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- g. SG Tube Rupture
- h. Fuel Handling Accident
- i. Control Rod Ejection

NOTE

Use field team data whenever available to provide the most accurate dose estimations.

- 7.2.9 Option Three, Steam Generator Tube Rupture
 - The SG Tube Rupture Model allows the user to perform dose calculations based on a steam generator tube rupture utilizing steam flow and shine monitor readings.
 - 2. The following instructions may be helpful when performing SG Tube Rupture calculations:
 - a. Steam generator monitor readings may be input in mR/hr for either a steaming steam generator or a full steam generator.
 - The input description is changed by doubleclicking within the box surrounding the input description.
 - Steam generator flow may be input in lbm/hr, thousands of lbm/hr, gph or as a pressure entered by the user.
 - a) Gallons per hour (gph) should be selected if the steam generator is full of water. This option represents a two-phase or liquid release from the steam generator. [Commitment Step 3.2.1]
 - b) The input description is changed by double-clicking within the box surrounding the input description.
 - 3) A Steam Generator PORV/Auxiliary Feed Exhaust Help Screen is available by doubleclicking either the steam generator monitoring readings or steam generator flow input field.
 - a) Once the Help Screen is completed, the user can return the averaged flow and monitor readings to the Main Screen by selecting FILE EXIT.

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7.2.10	Opt	Option Four, Radiation Monitoring System (RMS)				
	1.	the uthe t	nit and/or ra	ows the user to i adwaste vent moni es to perform off	tor as well as	
	2.		following instructions may be helpful when forming RMS calculations:			
		Ac	tivity by dou	ty - May be chang uble-clicking wit seous Activity.		
		1)	may be togo	lf Total Activity gled back to Gase same technique.		
		ne by th fu	cessary by en double-click e Iodine Act:	y - May be change ntering the ratic king within the b ivity. This is a ay be returned to technique.	value followed ox surrounding toggle type of	
		1)	If the rat: entered.	io is unknown, th	e value may be	
		2)	has been cl	io is unknown, on hanged to a ratic h the associated elp Screen.	input, double-	
		3	ratio, FIL	ser selects the a E EXIT may be use ne Model Screen.		
		c. Ve	nt Flow ma	ay be entered.		
		1		een is available ne Vent Flow data		
		2		fan status for ea he status and the		
		3		t Totals from the flows required.	e tool bar and	
		4		E EXIT from the t e value to the Mo		
7.2.11	<u>Opt</u>	tion F	ve, Field Te	am Data Model		

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	1.	rates, concen calcul	odel allows the user to input iodine concentration, particu tration and distance informat ate the plant release rate and tely the down field doses.	late ion to back
	2.		llowing instructions may be he ming the Field Team dose calcu	
			NOTE	
Program is 0 unless an en	.112. try i	. If t is made	ratio used throughout the Dose he Particulate/Iodine ratio is , the value of 0.0 will be use the field team model.	s selected,
	ć	to the Con and usi Iod	ld Team Iodine Concentration r Iodine/Noble Gas Ratio by doub box surrounding Field Team Io centration. This is a toggle- may be changed back to concer ng the same technique. By set ine/Noble Gas Ratio the partic l change to Particulate/Iodine	ole-clicking in odine -type function ntration input lecting culate field
		1)	If the ratio is known, the valentered.	alue may be
		2)	If the ratio is unknown, once has been changed to a ratio clicking on the associated da access a Help Screen.	input, double-
		2) 3)	has been changed to a ratio clicking on the associated d access a Help Screen.	input, double- ata field will propriate ratio
		3) b. Fie of	has been changed to a ratio clicking on the associated da access a Help Screen. Once the user selects the app FILE EXIT may be used to ret	input, double- ata field will propriate ratio urn the value t ed between unit e-clicking in
7.3 <u>Printer</u>	Use	3) b. Fie of	has been changed to a ratio clicking on the associated da access a Help Screen. Once the user selects the app FILE EXIT may be used to ret the Model Screen. eld Team Distance may be toggle miles and kilometers by double	input, double- ata field will propriate ratio urn the value t ed between unit e-clicking in

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NOTE

There may be error messages received when printing the notification form. In most cases these are due to the PC configuration and not the Dose Assessment Program program. If the program does not abort, then you should get printed output.

- 7.3.2 The notification form will only print if the PC is connected to the LAN and the user is logged into a server.
- 8.0 INITIAL ACTIONS
- 8.1 None.

9.0 SUBSEQUENT ACTIONS

9.1 None.

10.0 RECORDS

- 10.1 Printouts associated with this procedure are considered records.
- 10.2 Records generated by this procedure during an actual emergency are considered lifetime QA records and shall be forwarded to Emergency Planning at the termination of the emergency.
- 10.3 Records generated by this procedure during a drill or exercise are considered non-QA records and shall be forwarded to Emergency Planning at the termination of the drill or exercise.
- 11.0 FORMS
- 11.1 None

- END -

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		CHMENT		
	-	e 1 of		
	NPIS SCF	KEEN DI	SPLAYS	
	Group Menu - Touc	h Scree	en for E-Plan Menu	
	F-Dlan Manu - Touch Sci	roon fa	or one of the following	
	E-Fian Menu Touch Sc.		one of the fortowing	
Т	STATUS BOARD	II	AREA RAD	
_				
1.	RCS	1.	Radiological Status	
2.	Steam Generators a) Levels		a.) <u>MET</u> Data	
	b) Pressures	Press	b) Radmonitors μCi/cc F2 κey	
3.	ECCS	2.	-	
4.	Containment	-	and CHARM R/hr	
	a) Pressure b) Temperature	3.	To exit press F6 Key	
	c) H_2 concentration			
	d) CHARM R/hr			
	F3 Key			
5. 6.	Critical Parameters To exit press Group Key			
III	MET TOWER DATA	IV		
$1 \cdot 2$	Stability Class Wind Speed	1. 2.		
3.	Wind Direction	3.		
4.	Vert Temp Difference °F	4.	PORVMSIV, etc.	
NOTE:		NOTE: Key	a) To trend press F4	
	GD MET and press	110]	b) For the New Group	
_	Enter Key	-	Display press F5 Key	
5.	To exit press Group Key	5.	To exit press Group Key	
	NOTE: Screen D	isplay	Color Code	
	RED - Alarm			
	YELLOW - Alert GREEN - Normal			
	BLUE - Invalid	Reading	т	
			2	
		- TND-		

-END-

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ATTACHMENT B (Page 1 of 2) RADIATION MONITOR INFORMATION

On a total loss of off-site power the following radiation monitors remain operable:

GHRT 10A Radwaste Building Vent - Part & Iodine

GHRT 10B Radwaste Building Cent - WRGM

GTRE 21A Unit Vent - Part & Iodine

GTRE 21B Unit Vent - WRGM

FCRT 385 Aux. Feedwater Turbine Discharge Monitor

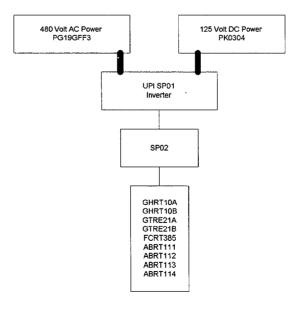
ABRT 111 Steam Line "D" PORV Discharge Monitor

ABRT 112 Steam Line "C" PORV Discharge Monitor

ABRT 113 Steam Line "B" PORV Discharge Monitor

ABRT 114 Steam Line "A" PORV Discharge Monitor

1. These monitors have as their normal AC power SP02 which is supplied by AC power supply PG19GFF3 (480 Volt AC). This feeds or goes from PG19GFF3 to SP01 Inverter [an UPI] to SP02 to monitors.



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ATTACHMENT B (Page 2 of 2) RADIATION MONITOR INFORMATION

- 2. The SP01 Inverter is also fed by a 125 volt DC power PK0304 [plant batteries]. In the event of a loss of offsite power occurs (PG19GFF3) then the inverter (UPI) SP01 still feeds the monitors via SP02.
- 3. If after a total loss of offsite power, the plant would regain one of the NB buses, then the radiation monitors that are fed from that bus would also be available if flow was restored to the monitor.

NOTE

The Chemistry Technicians may have to remind the Control Room to restore flow to these monitors.

4. If the RM-11 is not available the flow to these monitors will have to be done from their RM-23's. (The RM-11 is not powered by NB bus).

- END -

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PUBLIC INFORMATION ORGANIZATION ACTIVATION CHECKLIST

Completed	All steps requiredwithin each level
	Information Clearinghouse Activation
	WC PIO position staffed.
	WC Public Information Manager position staffed.
	(1) WC Technical Support position staffed.
	News Writer position staffed.
	IC telephones available with dial tone.
	Fax, copier, computer or alternative capability operational.
	Onsite PIC contacted for status update.
	Clocks synchronized with Control Room.
	Information Clearinghouse Activation Date: / / Time:
	Notify before continuing
	Site Emergency Manager 620-364-8831-5341
	Onsite PIC 620-364-4152 or ext. 5396
	Off-site Emergency Manager 620-364-8831-5342 if available
	KGE/Western Resources (Pri) 785-575-1927, (Alt) 620-261-6209
·	KEPCO (Pri) 785-271-4842, (Alt) 785-271-4802, (Alt) 785-271-4840
	KCPL (Pri) 816-556-2897, (Alt) 816-556-2653
	Rumor Control (KCPL), 816-556-2269
	State PIO, 785-274-1192

Phone Team Activation

 Phone Team telephones availab 3 of 4 phone team members stat Repeat notifications from IC A	ffed			·····	
Phone Team Activation	Date:	1	/	Time:	

Media Center Activation

 Media Center Manager or Media	Liaison posit	ion	staff	ed
1 of 2 Media Registrar staffed				· · · · · ·
Media Registration setup				
Media Room setup				
Media Center operational				
Security posted				
Repeat notifications from IC A	ctivation Lev	rel		
Media Center Activation	Date:	1	1	Time:

Public Information Manager

Date

Time

Check When Completed All steps required--Within each level

EPF 06-011-03, Rev. 0

AIRBORNE RADIOACTIVITY CALCULATIONS

.

Team Designator:

Second water concerns

No. Loc 1 2 3	cation / (Time - for dose rates)	EXPOSURE R. OPEN CLO (mR/Hr) (mR	SED Time On	A / S Time Off Date	A / S Flow (cfm)	A / S Volume (Ft ³)	Date/Time Counted Background	Type Part. Iodine	GROSS CPM	NET CPM See Note 1	x C.F. See Note 2 7.95E-12 4.32E-10	Activity (uCi/cc)	C.F. (DAC/uCi) 1E+08 5E+07	Gross DAC	Total DAC
2															
								lodine			4.32E-10	••••••	5E+07		
										1					
3								Part.			7.95E-12		1E+08		
3								lodine			4.32E-10		5E+07		
		4 1						Part.	:		7.95E-12		1E+08		
								lodine			4.32E-10		5E+07		
4							· · ·	Part.			7.95E-12		1E+08		
								lodine			4.32E-10		5E+07		
5								Part.			7.95E-12	· · ·	1E+08		
								lodine			4.32E-10	••••••	5E+07		
6								Part.			7.95E-12		1E+08		
				•				lodine			4.32E-10		5E+07		
7								Part.			7.95E-12		1E+08		
				-				lodine			4.32E-10		5E+07		
8	· · · · · · · · · · · · · · · · · · ·						ł	Part.			7.95E-12		1E+08		
								lodine			4.32E-10		5E+07		
NOTE 1 NOTE 2		.F.) based use formula	as below t					instru			(0.1 Part		0.0025 10		

		Activity		Activity	
2.22E+06	* VOL.(Ft ³) * 2.832E+04 * 0.1	(uCi/cc)	2.22E+06 * VOL.(Ft ³) * 2.832E	+04 * 0.0025 * 0.9 * 0.82	(uCi/cc)
Comments:					
					<u></u>

Survey Team Technician:

2

1

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