COMANCHE PEAK NUCLEAR POWER PLANT

EMERGENCY PLAN MANUAL

EMERGENCY EXPOSURE GUIDELINES AND PERSONNEL DOSIMETRY

PROCEDURE NO. EPP-305

REVISION NO. 13

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CPNPP EMERGENCY PLAN MANUAL

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PROCEDURE NO.

1.0 <u>PURPOSE</u> [C-09056]

This procedure provides instructions and guidelines for monitoring and documenting exposures to ionizing radiation for Emergency Response Organization personnel during a declared emergency. Also included is guidance for authorizing and documenting emergency exposures.

2.0 <u>APPLICABILITY</u>

This procedure becomes effective upon declaration of an emergency at Comanche Peak Nuclear Power Plant.

2.1 This procedure applies to the:

Emergency Coordinator; EOF Radiation Protection Coordinator: OSC Radiation Protection Coordinator; TSC Onsite Radiological Assessment Coordinator; Radiation Protection Manager; Radiation Protection Technicians; and Emergency Planning Manager.

- 2.2 This procedure applies to:
 - 2.2.1 All personnel remaining within the boundaries of Comanche Peak Nuclear Power Plant (CPNPP) or arriving onsite after the declaration of an emergency; and
 - 2.2.2 All CPNPP or contractor employees engaged in offsite activities in support of an emergency at CPNPP.

3.0 <u>DEFINITIONS</u>

- 3.1 <u>CPNPP Administrative Levels</u> Maximum exposure levels imposed by CPNPP, less than the exposure limits imposed by Federal regulation.
- 3.2 <u>Emergency Response Organization (ERO)</u> Personnel assigned to perform selected emergency response tasks during a declared emergency.
- 3.3 <u>Radiologically Controlled Area (RCA)</u> Any area where access is controlled by the licensee for the purpose of protection of individuals from exposure to ionizing radiation and radioactive materials.
- 3.4 <u>Personnel Dosimetry</u> Devices worn by personnel and used to record exposure to ionizing radiation Examples of these are optically stimulated luminescence (OSL), the thermoluminescent dosimeter (TLD), the pocket ion chamber (PIC), and electronic or alarming dosimeters (e.g., MGs, Thermo or equivalent).
- 3.5 <u>Emergency Exposure Limit</u> Special limits which allow a worker to receive radiation exposure greater than 10 CFR 20 limits for the sole purpose of immediate life saving activities or activities needed to restore the plant to a safe shut-down condition.

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4.0	<u>INSTRU</u>	ICTIONS			
4.1	Respons	ibilities			
	4.1.1	The Emergene personnel exp exposure limi	cy Coordinator/Recovery Mana posures in excess of Title 10, Co ts. [C-06380]	ger is responsible for a ode of Federal Regulation	authorizing ions, Part 20
	4.1.2	The EOF Rad	liation Protection Coordinator is	s responsible for:	
		4.1.2.1	Ensuring personnel radiation of accordance with 10 CFR, Part exposures are authorized by th [C-05671]	exposures are maintain 20 limits, except when he Emergency Coordin	ed in n higher ator.
		4.1.2.2	Providing for 24-hour-per-day received by ERO personnel in	v capability to determin volved in an emergence	ne doses cy at CPNPP.
		4.1.2.3	Assessing the need for and iss various members of the ERO.	uing of personnel dosi	metry to
	4.1.3	The <u>TSC Ons</u> assuming the to activation of	ite Radiological Assessment Corresponsibilities of the EOF Rad	<u>pordinator</u> is responsib liation Protection Coor acility (EOF).	le for dinator prior
	4.1.4	The <u>Radiation</u> implementing "Exposure Mo	n Protection Manager is respons the Exposure Monitoring progonitoring Program."	tible for developing an ram in accordance with	d n STA-655,
	4.1.5	Radiation Pro	tection Technicians are respons	sible for:	
		4.1.5.1	Maintaining personnel exposu	ire records;	
		4.1.5.2	Assisting personnel to determ	ine their current expos	ure;
		4.1.5.3	Issuing and collecting dosime	try; and	
		4.1.5.4	Processing dosimetry used dur manner.	ring an emergency in a	timely

- 4.1.6 The <u>Emergency Planning Manager</u> is responsible for ensuring sufficient numbers of dosimeters are available for use by members of the ERO and all non-ERO personnel responding to the emergency.
- 4.1.7 <u>All personnel responding to an emergency at CPNPP</u> are responsible for receiving, wearing, and returning dosimetry equipment in accordance with instructions contained within this procedure, Radiation Worker Training and/or instructions provided them at the time dosimetry is issued.

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4.2 <u>General Requirements and Instructions</u>

- 4.2.1 During a declared emergency at CPNPP, personnel exposures shall be maintained in accordance with the exposure limits given in Title 10, Code of Federal Regulations, Part 20, except as specified in this procedure. [C-06380]
- 4.2.2 Radiation Protection personnel should issue dosimetry devices to appropriate members of the ERO in accordance with approved Radiation Protection procedures and instructions.
- 4.2.3 If warranted, based on the radiological conditions in the area, the EOF Radiation Protection Coordinator should direct Radiation Protection personnel to issue dosimetry devices to ERO Personnel reporting to the Emergency Operations Facility.

4.3 <u>Emergency Exposure Authorization</u>

4.3.1 No individual at CPNPP shall intentionally exceed the exposure limits given in 10 CFR 20 without specific authorization. Authorization for personnel to exceed exposure limits set forth in 10 CFR 20 is obtained from the Emergency Coordinator/Recovery Manager. [C-06380]

<u>NOTE</u>: Attachment 1, "Emergency Exposure Guidelines," sets forth the limits for planned exposures in accordance with Environmental Protection Agency guidelines.

- 4.3.1.1 If time permits, the Emergency Coordinator or the EOF Radiation Protection Coordinator shall discuss with a member of the Nuclear Regulatory Commission (preferably the Radiological Health Branch), the rationale for authorizing exposures above 10 CFR 20 limits.
- 4.3.1.2 Using Form EPP-305-2, "Emergency Exposure Authorization," document whether or not the NRC was contacted.

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Selection o purpose of numbers of	f individuals authorized to receive conducting lifesaving activities or f people, shall be based on the follo	e an emergency exposu activities required to owing criteria: [C-056	rre for the protect large 45]
4.3.2.1	The individual should be a vol person;	lunteer or a profession	al rescue
4.3.2.2	The individual should be fami exposure to radiation;	liar with the conseque	nces of
ichment 2, "R ssist briefing	tisks Associated With Emergency the individual on potential conseq	Radiation Exposure," uences.	is provided
4.3.2.3	The individual shall not be a f	emale capable of repro	oduction; and
4.3.2.4	If more than one volunteer is be given to individuals who ha	being considered, prefe ave reached age 45 yea	erence should ars or older.
Selection o purpose of of effluents	f individuals authorized to receive protecting valuable facilities and e s, or to control fires, shall be based	e an emergency exposu equipment, eliminating l on the following crite	tre for the g further escape eria: [C-05646]
4.3.3.1	The individual should be a vol completed.;	lunteer familiar with th	ne task to be
4.3.3.2	The individual should be fami exposure to radiation; and	liar with the conseque	nces of
chment 2, "R ssist briefing	isks Associated With Emergency the individual on potential consequ	Radiation Exposure,"	is provided
4.3.3.3	The individual shall not be a f	emale capable of repro	oduction.
Once select considered	tion of individuals has been compl , prior to dispatching these individ	leted, the following cri luals: [C-05645, 05646	teria shall be]
4.3.4.1	Dose to the individual should guidelines given in Attachmer	not be planned to excent 1;	eed the
4.3.4.2	In accordance with the policy respiratory protection equipme exposure and protective clothi contamination; and	of minimizing total do ent may be used to min ing may be used to min	ose equivalent, nimize internal nimize skin
4.3.4.3	Limit exposures received under	er these conditions to c	once in a
	ND PERSONNISelection of purpose of numbers of4.3.2.14.3.2.2uchment 2, "R ssist briefing4.3.2.34.3.2.4Selection of purpose of of effluents4.3.3.14.3.3.2uchment 2, "R ssist briefing4.3.3.2uchment 2, "R ssist briefing4.3.4.14.3.4.24.3.4.24.3.4.3	 Selection of individuals authorized to receive purpose of conducting lifesaving activities or numbers of people, shall be based on the follower of the individual should be a vor person; 4.3.2.1 The individual should be family exposure to radiation; 4.3.2.2 The individual should be family exposure to radiation; 4.3.2.3 The individual shall not be a for the individual on potential conseq 4.3.2.4 If more than one volunteer is the given to individuals who have be given to individuals who have of the individual shall not be a for the individual shall not be a for the individual shall be based of effluents, or to control fires, shall be based of effluents, or to control fires, shall be based at a suppose of protecting valuable facilities and of effluents, or to control fires, shall be based at a suppose to radiation; and at a suppose to radiation; and at a suppose to radiation and the individual should be family exposure to radiation; and at a suppose to radiation and the individual should be family and the individual shall not be a for the individual shall nor the a for the individual shall not be a for t	ND PERSONNEL DOSIMETRY REVISION NO. 13 Selection of individuals authorized to receive an emergency exposu purpose of conducting lifesaving activities or activities required to numbers of people, shall be based on the following criteria: [C-056 4.3.2.1 The individual should be a volunteer or a profession person; 4.3.2.2 The individual should be familiar with the conseque exposure to radiation; uchment 2, "Risks Associated With Emergency Radiation Exposure," ssist briefing the individual on potential consequences. 4.3.2.3 The individual shall not be a female capable of repro- deside the given to individuals who have reached age 45 yet be given to individuals who have reached age 45 yet Selection of individuals authorized to receive an emergency exposus purpose of protecting valuable facilities and equipment, eliminating of effluents, or to control fires, shall be based on the following crite 4.3.3.1 4.3.3.2 The individual should be familiar with the conseque exposure to radiation; and uchment 2, "Risks Associated With Emergency Radiation Exposure," ssist briefing the individual on potential consequences. 4.3.3.3 The individual shall not be a female capable of repro- Once selection of individuals has been completed, the following cri- considered, prior to dispatching these individuals: [C-05645, 05646 4.3.4.1 Dose to the individual should not be planned to exce- guidelines given in Attachment 1; 4.3.4.2 In accordance with the policy of minimizing total do respiratory protection equipment may be used to mi

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	4.3.4.4	Additionally, any individual re than 25 rem should have a me	eceiving a TEDE equa dical evaluation.	l to or greater
	4.3.4.5	Persons receiving exposures a avoid procreation for a period	s indicated above shull up to a few months.	d be advised to
4.3.5	Form EPP-30: document auth	5-2, "Emergency Exposure Aut horization of exposures greater	horization," should be than those specified in	used to 10 CFR 20.
	4.3.5.1	Prior to being dispatched into Form EPP-305-2 should be co authorized to perform lifesavin	a high exposure area, a mpleted for each indiv ng or protective/correc	a separate idual tive actions.
	4.3.5.2	If conditions preclude comple dispatch, the form should be c	ting Form EPP-305-2 J ompleted when time p	prior to ermits.
	4.3.5.3	When Form EPP-305-2 has be the post-exposure data section Coordinator/Recovery Manag signing on the appropriate blas approval may be granted by te	een completed (with th), the Emergency er should authorize the nk. If sufficient time i elephone.	e exception of e exposure by s not available,
	4.3.5.4	If the Emergency Coordinator authorization by telephone, the	/Recovery Manager ha	s granted
		• Record the authorization Activities Log Sheet, and	on Emergency Respon	se Facility
		• Direct the person request EPP-305-2 that authoriza documented in the Emerg Manager's log.	ing the authorization to tion has been given an gency Coordinator's/Ro	o state on Form d is ecovery
4.3.6	Personnel sele briefing prior the:	ected to receive an emergency e to being dispatched. The briefi	exposure extension sho ing should be the respo	uld receive a onsibility of
	4.3.6.1	Shift Manager (direct a Radiat Radiation Protection Shift Tec	tion Protection Superv chnician to conduct the	isor or Lead briefing);
	4.3.6.2	OSC Radiation Protection Cod	ordinator;	
	4.3.6.3	TSC Onsite Radiological Asse	essment Coordinator; c	or
	4.3.6.4	EOF Radiation Protection Coo	ordinator.	

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	4.3.7	As a minimur	n, the briefing should include:		
		4.3.7.1	The task to be completed;		
		4.3.7.2	The location of the task;		
		4.3.7.3	The preferred route to reach the	ne specified location;	
		4.3.7.4	Recommended protective mea	sures to be taken, incl	uding
			 Protective clothing, Respiratory Protection, Stay times; 		
		4.3.7.5	Projected dose; and		
		4.3.7.6	Potential effects of the exposu	rre (Attachment 2).	
	4.3.8	Arrangements to have a qual radiation badg	s should be made through the Ed lified Radiation Protection Tech ges used by personnel authorize	OF Radiation Protection nician standing by to p d to receive emergency	on Coordinator process the y exposures.
	4.3.9	Any individua should not be badge has bee	al suspected of receiving an exp allowed to reenter any known r en processed and an actual dose	osure in excess of 10 or adiation areas until the has been determined.	CFR 20 limits, eir radiation
	4.3.10	Upon complet granted, enter	tion of the task for which the en the <u>estimated</u> dose received by	nergency exposure aut the worker on the EPI	horization was P-305-2 form.
	4.3.11	Route the con Coordinator f	npleted EPP-305-2 form to the lor review.	EOF Radiation Protect	ion
4.4	<u>Subsequ</u>	ent Actions			
	4.4.1	Report all dos soon as possil Response Org Protection Ma	simetry findings to the EOF Rac ole. If the emergency has been ganization no longer exists, repo anager.	diation Protection Coor terminated and the Em ort all findings to the R	rdinator as hergency adiation
	4.4.2	The EOF Rad the Emergenc dosimetry find	iation Protection Coordinator (1 y Response Organization is no dings to determine if 10 CFR 20	the Radiation Protection longer in place) should limits have been exce	on Manager, if d evaluate all eeded.
		4.4.2.1	If 10 CFR 20 limits have been to the Shift Manager for detern Nuclear Regulatory Commissi "Nonroutine Reporting."	exceeded, provide thi mination of need to int ion in accordance with	s information form the STA-501,
	4.4.3	Personnel resp use, or retriev Manager for r "Station Reco	ponsible for collection of docum al, should transmit such docum review and subsequent retention ords."	nentation relating to do ents to the Emergency in accordance with S ⁷	osimetry issue, Planning ΓA-302,

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5.0	<u>REFERENCES</u>		
5.1	Title 10, Code of Federal Regulations, Part 20, "Standa Radiation"	ards for Protection Aga	inst
5.2	CPNPP Emergency Plan, Section 1, 8, 9, and 11		
5.3	EPA-400-R-92-001, "Environmental Protection Agenc Guides and Protective Actions for Nuclear Incidents",	y Manual of Protective May 1992.	e Action
5.4	National Council on Radiation Protection and Measure "Limitation of Exposure to Ionizing Radiation," 1993 (Report No. 91).	ments (NCRP), Report This reports supersede	t No. 116, s NCRP
5.5	NUREG-0654, FEMA-REP-1, "Criteria for Preparation Emergency Response Plans and Preparedness in Suppo II.K	n and Evaluation of Ra ort of Nuclear Power Pl	diological ants," Section
5.6	STA-302, "Station Records"		
5.7	STA-501, "Nonroutine Reporting"		
5.8	STA-655, "Exposure Monitoring Program"		

6.0 <u>ATTACHMENTS/FORMS</u>

6.1 <u>Attachments</u>

- 6.1.1 Attachment 1, "Emergency Exposure Guidelines"
- 6.1.2 Attachment 2, "Risks Associated with Emergency Radiation Exposure"

6.2 <u>Forms</u>

6.2.1 EPP-305-2, "Emergency Exposure Authorization"

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EMERGENCY EXPOSURE GUIDELINES

Dose Limit ¹ (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 (See Attachment 2)

¹ This is the Total Effective Dose Equivalent (TEDE) to non-pregnant adults from exposure and intake during an emergency condition at CPNPP. Workers performing services during emergencies should limit dose to the lens of the eye to three times the listed value and doses to any other organ (including skin and body extremities) to ten times the listed value. These limits apply to all doses received from an incident, except those received in unrestricted areas as members of the public during the intermediate (ingestion) phase of the incident.

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RISKS ASSOCIATED WITH EMERGENCY RADIATION EXPOSURE

The following is a discussion of the biological effects of ionizing radiation, particularly in the range of a 25 rem dose.

BLOOD CHANGES:

A 25 rem dose can result in a decrease in red and white blood cells and platelets. Red blood cells carry oxygen to the cells and carry away carbon dioxide and waste. White blood cells function as a major line of defense against bacterial infection. Platelets aid in blood clotting. The amount of decrease, however, would be unnoticeable to the individual and could only be determined by laboratory analysis.

STERILITY:

An exposure of 250 rem to men and 150 rem to women could result in temporary sterility. Normal function should return after 1 year.

CANCER:

Every individual has approximately one chance in four of getting cancer over a period of a lifetime. A dose of 25 rem could, theoretically, increase that chance by less than one percent.

GENETIC EFFECTS:

Genetic effects exceeding normal incidence have not been observed in any study of humans exposed to these levels of radiation.

DEATH:

With adequate medical care, death is not likely unless 500 - 700 rem is received.

SUMMARY:

Biological effects associated with exposure in the range of 25 rem are limited to unnoticeable changes in blood count. The risk of cancer to individuals or the increase in genetic effects in offspring are so small that they cannot be distinguished from the natural incidence rate of such effects in a given population, at these exposure levels. There should be no impairment to the individual (either long or short term) as a result of receiving this exposure.

Any questions concerning exposures should be directed to the OSC Radiation Protection Coordinator (OSC-RPC) or the TSC Onsite Radiological Assessment Coordinator (ONRAC).

- <u>E</u>	MERGENCY EX.	POSURE AUTHORIZAT	
Name: Emergency Org.Position Tit	le	SSN:	
		THEN exposure limit is:	
IF	TEDE	Other organs including skin & extremities	Lens of the eye
Life saving or protection of large population	25 rem	250 rem	75 rem
Protecting valuable property	10 rem	100 rem	30 rem
	ure		
- YTD TEDE from expos	sure records:		rem
Current pocket dosi	imeter estimate:		rem
TOTAL ESTIMATED EXI	POSURE:		rem
Projected Emergency Exposu	re		
	and the MDGD		rem
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If YES, name of cor	ntact:	L YES L] ^{NO}
If YES, name of cor	ntact:		
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If YES, name of cor Statements I have volunteered for thi exposure listed above.	sed with NRC?	I understand the potential	effects of the projec
If YES, name of cor Statements I have volunteered for thi exposure listed above. Signature	ssed with NRC? ntact: s assignment and Worker	I understand the potential Date / Ti	NO
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