Arkansas Nuclear One - Administrative Services Document Control Friday, March 10, 2000

Document Update Notification

103	
NRC - WASHINGTO	N
DOC CNTRL DESK WASHINGTON DC 2	
OP-1905.001	
EMERGENCY RADI CONTROLS	OLOGICAL
013-01-0	
PC-01	
PERMANENT CHAN	IGE (PC)
ked, please sign, date, and reled. ANO-1 Docket 50-313 ANO-2 Docket 50-368 Signature	3
	NRC - WASHINGTO DOC CNTRL DESK WASHINGTON DC 2 OP-1905.001 EMERGENCY RADI CONTROLS 013-01-0 PC-01 PERMANENT CHAN Aced, please sign, date, and relead. ANO-1 Docket 50-31.

A045

ENTERGY OPERATIONS INCORPORATED ARKANSAS NUCLEAR ONE

59 of 70

1			
TITLE: EMERGENCY	Y RDIOLOGICAL CONTROLS	PROC/WORK PLAN NO 1905.001	013-01-0
		WORK PLAN EXP. DAT	N/A
SET# /03		SAFETY-RELATED ⊠YES □NO	IPTE
		TEMP ALT ☐YES ☑NO	
When you see the	ese <u>TRAPS</u>	Get these <u>TOO</u>	<u>LS</u>
	Time Pressure		Communication
	Distraction/Interruption	Questioni	ng Attitude
	Multiple Tasks	Placekeep	oing
	Over Confidence	Self Chec	k
	Vague or Interpretive Guidance	Peer Chec	k
	First Shift/Last Shift	Knowledg	je
	Peer Pressure	Procedure	?S
	Change/Off Normal	Job Briefi	ng
Í	Physical Environment	Coaching	
	Mental Stress (Home or Work)	Turnover	
VERIFIED BY	Y DATE		TIME
<u>· </u>			
FORM TITLE:	EDIFICATION COVER CUETT	FORM 1000	NO. CHANGE NO. 0.006A 048-00-0
VI	ERIFICATION COVER SHEET	1000	7.000A U40-UU-U

ENTERGY OPERATIONS INCORPORATED ARKANSAS NUCLEAR ONE

61 of 70

TITLE:Emergency Ra	adiological Controls	PROCWORK PLAN 1905.001		NO. 13-01-0
⊠PROCEDURE	□WORK PLAN, EXP. DATE_	N/A_	PAGE 1	_ OF_1
TYPE OF CHANGE: NEW Procedure or Work Plance AFFECTED SECTION:	☐ REVISION ☐ PC IN ☐ EZ DESCRIPTION OF CHANGE: (For	☐ TC EXP. DATE:N		
(Include step # if applicable)	reason for the change.)			
6.0	Added note explaining that it is allow emergency to expedite repair and d safety of the public.	wable to disregard normal amaged control actions in	radiological contr order to protect t	ol practices in an he health and
			FORM NO.	CHANGE NO.
FORM TITLE:	DESCRIPTION OF CHANGE		1000.006C	048-00-0

PROC./WORK PLAN NO. 1905.001 PROCEDURE/WORK PLAN TITLE:

EMERGENCY RADIOLOGICAL CONTROLS

PAGE:

1 of 15

CHANGE: 013-01-0

SECTION	N			PAGE I	NO.	
1.0	Purpose.				2	
2.0	Scope				2	
3.0	Referenc	es			2	
4.0	Definitions					
5.0	Responsibilities					
6.0	Instructions				4	
	6.1	General Gu	idelines for Emergency Radiological Control .		4	
	6.2	Control Po	int Establishment		5	
	6.3	Respirator	y Protection		6	
	6.4	Iodine Can	ister Use		7	
	6.5	Personnel	Monitoring		8	
	6.6	Decontamin	ation of Evacuees		10	
7.0	ATTACHME	ENTS AND FO	RMS		10	
	7.1	ATTACHMENT	s			
		7.1.1	ATTACHMENT 1 - "Emergency Radiological Conditions Action Levels"		11	
	7.2	FORMS				
		7.2.1	Form 1905.001A - "Emergency Radiological Controls Checklist"		13	
		7.2.2	Form 1905.001B - "Access and Exposure Contro Log"		15	

PROC./WORK PLAN NO.	PROCEDURE/WORK PLAN TITLE:	PAGE:	2 of 15
1905.001	EMERGENCY RADIOLOGICAL CONTROLS	CHANGE:	013-01-0

1.0 PURPOSE

This procedure provides guidance for the following radiological control practices during emergency situations:

- 1.1 Personnel Monitoring.
- 1.2 Respiratory Protection.
- 1.3 Contamination Control.

2.0 SCOPE

- 2.1 This procedure is applicable during Alert, Site Area or General Emergency conditions.
- 2.2 This procedure applies to ANO emergency support personnel and emergency response facilities within the ten mile Emergency Planning Zone.

3.0 REFERENCES

- 3.1 REFERENCES USED IN PROCEDURE PREPARATION.
 - 3.1.1 Emergency Plan.
 - 3.1.2 1903.043, "Duties of the Emergency Radiation Team".
 - 3.1.3 1000.031, "Radiation Protection Manual".
 - 3.1.4 1903.033, "Protective Action Guidelines For Rescue/Repair and Damage Control Teams"
 - 3.1.5 1903.023, "Personnel Emergency"
 - 3.1.6 1012.019, "Radiological Work Permits"
 - 3.1.7 Letter H-5, 79-739, of May 16, 1976 from Mr. Alan Hack, LASL, Respirator Research and Development Section to Mr. John Collins, USNRC RE: Respiratory Protection at TMI.
 - 3.1.8 10 CFR 20
 - 3.1.9 10 CFR 50
 - 3.1.10 NRC Information Notice 90-08
- 3.2 REFERENCES USED IN IMPLEMENTING THIS PROCEDURE.
 - 3.2.1 1903.033, "Protective Action Guidelines for Rescue/Repair and Damage Control Teams"
 - 3.2.2 1903.030, "Evacuation"
 - 3.2.3 1601.209, "Whole Body Counting Bioassay"
 - 3.2.4 1601.201, "Issue/Control of TLD's"
- 3.3 RELATED ANO PROCEDURES

PROC./WORK PLAN NO.	PROCEDU	RE/WORK PLAN TITLE:	PAGE:	3 of 15
1905.001		EMERGENCY RADIOLOGICAL CONTROLS	CHANGE:	013-01-0
	3.3.1	1903.066, "Emergency Response Facility - Support Center (OSC)"	Operation	al
	3.3.2	1903.067, "Emergency Response Facility - Operations Facility (EOF)"	Emergency	
3.4		Y CORRESPONDENCE CONTAINING NRC COMMITMENTS ED IN THIS PROCEDURE: [BOLD] DENOTES COMMI		RE
	3.4.1	OCAN078609, (P-4235), Section 6.2		
	3.4.2	0CAN038313, (P-4192), Form 1905.001 A Sec	tion IIB1	
	3.4.3	LIC94-226 (P-14029), 6.5.2 Note		

- 4.1 Controlled Access Area Any area where full radiological controls are in effect for the purpose of providing protection and/or information to the individual. (Includes the auxiliary buildings inside the turnstyles, both reactor buildings, and inside the fenced area of the BWST/RWT.)
- 4.2 Control Point An area established on the perimeter of, and in the normal access route to/from an RCA for the purpose of controlling personnel and or material movement.
- Radiologically Controlled Area A Radiologically Controlled Area (RCA) is defined as an area within the plant site in which radioactive material and/or radiation may be present in quantities sufficient to require protective measures. (The Controlled Access Area, for example, is a Radiologically Controlled Area).
- 4.4 Emergency Operations Facility (EOF) A near site emergency response facility located approximately 0.65 miles northeast of the reactor buildings (the ANO Training Center).
- 4.5 Technical Support Center (TSC) Located within the ANO Administration Building equipped with instrumentation and communication systems and facilities useful in monitoring the course of an accident; this center is located in the 3rd Floor Conference Room.
- Emergency Response Organization (ERO) The organization which is composed of the Initial Response Staff (IRS), the EOF staff, the TSC staff, the OSC staff and the emergency team members. It has the capability to provide manpower and other resources necessary for immediate and long-term response to an emergency situation.
- Operational Support Center (OSC) The Emergency Response Center within the ANO maintenance facility, that serves as the assembly point and briefing area for rescue/repair and damage control teams. The OSC is where the following functions are coordinated:
 - 4.7.1 On-site Radiological Monitoring

PROC./WORK PLAN NO	. PROCEDUR	RE/WORK PLAN TITLE:	PAGE:	4 of 15
1905.001 EMERGENCY RADIOLOGICAL CONTROLS				013-01-0
	4.7.2	Maintenance		
	4.7.3	Nuclear Chemistry		
	4.7.4	Emergency Medical Support		
	4.7.5	Fire Fighting Support		
4.8	HEALTH PH	YSICS NETWORK (HPN) TELEPHONE		
	or initia has been of commun	telephone system established by the NRC du l activation mode of operations after the l activated and is operational. The HPN is t icating radiological data (on-site and off- assessment information) from the licensee t	icensee's the primar site meas	s TSC/EOF cy means surements
5.0 RESPONS	IBILITIES			
5.1	MANAGER,	RADIATION PROTECTION AND RADWASTE		
	5.1.1	Responsible for the overall control and in this procedure.	mplementa	tion of
5.2	HEALTH PH	YSICS SUPERVISOR		
	5.2.1	Responsible for the implementation of thi the ANO site boundary fence.	s procedu	re within
	5.2.2	Responsible for directing on-site monitor personnel to the on-site and off-site rad monitoring sections of the Emergency Radi	iological	
5.3	EOF HEALT	H PHYSICS SUPERVISOR		
	5.3.1	Responsible for ensuring that the appropr points and radiological control measures and implemented at the Emergency Operation	are estab	lished

6.0 INSTRUCTIONS

NOTE

Alternate Emergency Operations Facility.

In an emergency, the Health Physics Supervisor may allow normal radiological work practices to be disregarded in order to expedite repair and damage control actions if necessary to protect the health and safety of the public.

6.1 GENERAL GUIDELINES FOR EMERGENCY RADIOLOGICAL CONTROL

- 6.1.1 The Health Physics Supervisor should use Form 1905.001A as a checklist for ensuring appropriate radiological controls have been implemented.
- 6.1.2 As manpower becomes available, the Health Physics
 Supervisor should assign at least one (preferably two) H.P.
 technicians to report to the EOF to assist the EOF Health
 Physics Supervisor.

		And the second s	/ - : 	
PROC./WORK PLAN NO.		E/WORK PLAN TITLE:	PAGE:	5 of 15
1905.001	E	EMERGENCY RADIOLOGICAL CONTROLS	CHANGE:	013-01-0
	6.1.3	Upon receipt of survey results, the Manag Protection and Radwaste should check Atta appropriate emergency response actions su or notification are implemented. Radiolo results should be posted in the Technical and the Operational Support Center.	chment 1 ch as eva gical sur	to ensure cuation vey
	6.1.4	Based on reported radiological survey dat by the Manager, Radiation Protection and Health Physics Supervisor shall establish Controlled Area boundaries in accordance Protection procedures.	Radwaste, Radiolog	the ically
	6.1.5	$\overline{\text{IF}}$ an emergency condition lasts longer the $\overline{\text{THEN}}$ the Manager, Radiation Protection an establish an Emergency Radiation Team wor	d Radwast	e shall
	6.1.6	Beta radiation from Kr-85 gas is a signif accident involving spent fuel. Direct ex gas could result in a skin dose up to 100 Dose equivalent dose. The half-life of K years. For these reasons, IF the accident involves spent fuel, THEN the Health Physics Supervisor shall area surveyed for beta radiation.	posure to times th r-85 is 1	Kr-85 e Deep 0.76
6.2	[CONTROL P	OINT ESTABLISHMENT]		
	6.2.1	IF radiation levels exceed 2.5 mRem/hr or (greater than 1 DAC particulate or iodine activity exists outside confines of Auxil buildings, THEN control points should be established as defined by survey results.) airborn iary and	e Turbine
	6.2.2	Once the extent of contamination, radioac concentrations and radiation exposure rat known, the control point for Emergency T be located as close to the Controlled Acc possible without sacrificing communication entry/exit control.	e conditi eam entri ess Area	ons are es should as
		A. Radiological conditions permitting, controlled access area control point Two Auxiliary Building (Elev. 386') the control point for emergency respinto the Auxiliary Building.	s in Unit should be	One and used as
•	6.2.3	IF radiation levels exceed 2.5 mRem/hr or (greater than 1 DAC particulate or iodine activity exists at the EOF, THEN a control point should be established to the EOF and the need for a contamination evaluated.) airborn d at the	entrance

evaluated.

PROC./WORK PLAN NO.	PROCEDURE/WORK PLAN TITLE:	PAGE:	6 of 15
1905.001	EMERGENCY RADIOLOGICAL CONTROLS	CHANGE:	013-01-0

- 6.2.4 The following radiological controls should be instituted at control points.
 - A. Personnel entry log including time in, out and Dosimeter reading(s) should be maintained for all entries on Form 1905.001B.
 - B. A frisking station should be used to check personnel for contamination when exiting a radiologically controlled area.
 - C. Air samples should be taken every hour and shall be taken once every four hours.
 - D. A survey of the control point area should be conducted if the friskers indicate a rise in the area radiation level.

IF no friskers are set up at the control point, THEN hourly area surveys should be conducted. Air sample and dose rate data should be maintained on appropriate forms and data reviewed periodically by the Health Physics Supervisor to determine increases or trends. Significant changes should be reported to the Manager, Radiation Protection and Radwaste as soon as practical.

6.3 RESPIRATORY PROTECTION

6.3.1 Respiratory Protection Guidelines

- A. Although doses should be maintained as low as reasonably achievable during an emergency, respirators should not be assigned to emergency team members or emergency response facility personnel if the use of respirators will have an adverse affect on the timely implementation of emergency measures and projected dose is less than 40 DAC-hrs/week.
- B. During emergency conditions, higher uptakes may be authorized in a manner similar to that for increased external exposure as specified in 1903.033 "Protective Action Guidelines for Rescue/Repair and Damage Control Teams".
- C. Protection factors for respirators are identified in 1000.031, "Radiation Protection Manual" and 10 CFR 20 Appendix A. However, the Respiratory Protection Manual specifies that these protection factors are not applicable unless the respirator has been quantitatively fit tested on the wearer.
- D. The Health Physics Supervisor shall ensure the following data, on personnel entering the RCA(s), is recorded on Forms 1601.209D and F or tracked on the ERIM system.
 - 1. Occupancy time and airborne concentrations
 - 2. DAC-Hrs (each entry, each day, and last 7 days)
 - Protection factor for the respiratory protection device worn

PROC./WORK PLAN NO.	PROCEDURE/WORK PLAN TITLE:	PAGE:	7 of 15
1905.001	EMERGENCY RADIOLOGICAL CONTROLS	CHANGE:	013-01-0

E. All individuals entering radiologically controlled areas shall have whole body counts or bioassays performed, as soon as practical, if their exposure to radioactive airborne concentration exceed 4 DAC-HRS per day or 12 DAC-HRS/wk or 40 DAC hours since last whole body count.

6.4 IODINE CANISTER USE

- NUREG-0041 and Regulatory Guide 8.15 do not provide a 6.4.1 protection factor for iodine canisters for routine use because of difficulties ensuring continued protection. a result, the only respirators which are suitable in iodine atmospheres are air supplied devices, such as SCBA and air (NUREG-0041 prohibits the use of air line line masks. masks in rescue operations). However, in addition to airborne radioactivity, the areas in which the respirators are likely to be used may also be affected by high dose rates. Since mobility is reduced when wearing SCBAs, it may be more conducive to overall dose reduction to use iodine canisters in lieu of SCBAs. For these reasons, the Manager, Radiation Protection and Radwaste or the Health Physics Supervisor may direct that iodine canisters be used in emergency conditions.
- 6.4.2 The filter canister authorized is the MSA GMR-I charcoal canister.
- 6.4.3 The protection factor is 1 for iodine.
- 6.4.4 The respirator shall not be used in iodine atmospheres greater than 100 times the 10 CFR 20 value for the specific iodine nuclide. For Iodine-131, this is 2 E-6 μCi/cc. (Assumes stay-time control).
- 6.4.5 The stay-time in affected areas shall not exceed 40 DAC-hours in any seven consecutive days. (This provides for additional subsequent dose).
- 6.4.6 Appropriate representative air sampling shall be performed.
- 6.4.7 Suitable DAC-hour records shall be kept in accordance with Section 6.3.1(D).
- 6.4.8 Personnel exposure to iodine atmospheres with iodine canisters shall be monitored as follows:
 - A. At least weekly whole body counting while exposures continue.
 - B. <u>IF</u> results of whole body counting indicate an iodine uptake in excess of 70 nCi,

 <u>THEN</u> that individual(s) shall be restricted from further entry to iodine atmospheres pending evaluation by the Manager Radiation Protection and Radwaste.

PROC./WORK PLAN NO.	PROCEDURE/WORK PLAN TITLE:	PAGE:	8 of 15
1905.001	EMERGENCY RADIOLOGICAL CONTROLS	CHANGE:	013-01-0

6.5 PERSONNEL MONITORING

6.5.1 Assignment of Dosimetry

- A. Personnel radiation exposure shall be monitored by regulation if 10% of the applicable limit could be received; or they will be entering a High Radiation Area or a Very High Radiation Area.
- B. IF a significant release of radioactivity occurs such that an individual would receive a dose in excess of 2.5 mRem in any one hour,

 THEN this area shall be designated as radiologically controlled area and Dosimetry shall be worn in affected areas.
- C. Emergency response personnel shall wear a TLD at all times while on site during the emergency.
- D. When an emergency involves a site evacuation, final personnel dosimetry issue and collection operations should be relocated to the EOF or an alternate low back-ground area designated by the Manager, Radiation Protection and Radwaste.

6.5.2 Assignment of Dosimetry to Emergency Teams

NOTE

Alarming dosimeters may be used in lieu of self-reading dosimeters (SRDs). Personnel should be cautioned to check SRDs frequently since conditions may change rapidly. SRDs should never be allowed to exceed 3/4 scale. Personnel with SRDs reading at or above 3/4 scale should exit immediately unless such action would endanger the plant or another person. Other dosimetry (SRDs or alarming dosimeters) may be assigned by the HP Supervisor or Radiation Protection and Radwaste Manager.

[NOTE

During a "Personnel Emergency" the Emergency Medical Team may go into Radiologically Controlled Areas without SRDs/Alarming Dosimeters as long as an HP Technician is acting as the RWP; and is monitoring dose rates and time in the area. Prompt medical attention shall take precedence over HP procedures when an individual is seriously injured.]

- A. Personnel requiring entry into a Radiologically Controlled Area shall wear the following dosimetry as a minimum:
 - 1. TLD
 - 2. SRD (0-200 mR or 0-500 mR) or alarming dosimeter

-	PROC./WORK PLAN NO.	PROCEDURE/WORK PLAN TITLE:	PAGE:	9 of 15
	1905.001	EMERGENCY RADIOLOGICAL CONTROLS	CHANGE:	013-01-0

- B. In the event major fuel damage is sustained or suspected, use of 0-200 R dosimeters should be considered in high dose rate areas.
- C. The Health Physics Supervisor and the Manager, Radiation Protection and Radwaste shall ensure the following data are maintained for emergency team members on Form 1905.001B.
 - 1. Entry and exit times
 - Dosimeter readings for each entry
 - Cumulative personnel exposures
 - 4. If multiple dosimetry is required, refer to Procedure 1601.201, "Issue and Control of TLD's".

6.5.3 Assignment of Dosimetry to Offsite Emergency Organizations

- A. Offsite personnel called upon to provide assistance within the ANO protected area should be issued an unassigned whole body TLD.
 - 1. TLD issue log should include:
 - individual's last name
 - TLD number
 - The TLD issue process shall not delay the response of organizations such as Pope County Emergency Medical Services (PCEMS) or London Fire Department that are responding to protect life or plant equipment necessary for protection of the public.
- B. At the termination of the emergency, Security shall notify the dosimetry department of the issue of unassigned TLDs.
- C. Security shall forward the badge issue log (or a copy) to the Manager, Emergency Planning.
 - The Manager, Emergency Planning shall review the log and provide the following information to the dosimetry department.
 - a. Individual's full name and social security number
 - b. Individual's address
 - c. Employer's name
- D. As directed by the Radiation Protection Manager, the individuals that have been issued unassigned TLDs should have a whole body count as soon as practical following the emergency.

PROC./WORK PLAN NO.	PROCEDURE/WORK PLAN TITLE:	PAGE:	10 of 15
1905.001	EMERGENCY RADIOLOGICAL CONTROLS	CHANGE:	013-01-0

6.5.4 Accelerated TLD Processing

- A. More frequent readings of TLDs should be performed during the emergency and, initially, during recovery operations until such time as exposure trends have been identified and exposure control methods established by the Manager, Radiation Protection and Radwaste.
- B. In the event of an accidental exposure, or an approved planned emergency exposure, the TLDs of the individuals involved shall be processed as soon as practicable following exposure. Further exposure should not be allowed until the results of their TLD badge readings are available and have been evaluated.

6.5.5 Recording of Personnel Exposures

- A. Dosimeter (SRD or alarming dosimeter) readings shall be recorded on Form 1905.001B, "Access and Exposure Control Log" or equivalent ERIM system programs. Form 1905.001B shall be kept by the Health Physics Supervisor for the purpose of interim exposure tracking for individuals performing emergency activities.
- B. TLD readings shall be recorded in accordance with procedure 1601.201, "Issue/Control of TLD's".

6.6 DECONTAMINATION OF EVACUEES

6.6.1 During plant evacuation, the Health Physics personnel stationed at the portal monitors should segregate any contaminated individuals until an evaluation/decontamination can be performed.

7.0 ATTACHMENTS AND FORMS

7.1 ATTACHMENTS

7.1.1 Attachment 1 - "Emergency Radiological Conditions Action Levels"

7.2 FORMS

- 7.2.1 1905.001A, "Health Physics Supervisor Checklist".
- 7.2.2 1905.001B, "Access and Exposure Control Log"
- 7.2.3 1905.001C, **DELETED PER PC-1**.

PROC./WORK PLAN NO. PROCEDURE/WORK PLAN TITLE: PAGE: 11 of 15

1905.001 EMERGENCY RADIOLOGICAL CONTROLS CHANGE: 013-01-0

ATTACHMENT 1

Page 1 of 2

EMERGENCY RADIOLOGICAL CONDITIONS ACTION LEVELS

Α.	Emergency	Classifications

Initiating Condition Emergency Classification

1. Two or more ARMS in Rx. Bldg. increase by greater than 2000 mR/hr due to severe degradation in the control of radioactive material.

Alert

2. Two or more ARMS in Aux. Bldg. or Fuel Handling Area increase by greater than 100 mR/hr due to severe degradation in the control of radioactive materials.

Alert

3. Greater than 50 mRem/hr TEDE at site boundary.

Site Area Emergency

4. Greater than 150 mRem/hr Child Thyroid at site boundary.

Site Area Emergency

5. Greater than 250 mRem/hr TEDE at site boundary.

General Emergency

6. Greater than 500 mRem/hr Child Thyroid at site boundary.

General Emergency

B. Evacuation

Initiating Condition Action

1. Greater than 2.5 mRem/hr outside CAA

Notify Shift Superintendent/ TSC Director

2. Greater than 9E-10 μ Ci/cc outside CAA (un-evaluated)

Notify Shift Superintendent/ TSC Director

3. Greater than 2.5 mRem/hr radiation levels at TSC, OSC, or remainder of the Administration Building. *Notify Shift Superintendent/ TSC Director

4. Greater than 9E-10 $\mu\text{Ci/cc}$ in the TSC, OSC, or remainder of the Administration Building (unevaluated).

*Notify Shift Superintendent/ TSC Director

5. Iodine Airborne levels greater than $2.7E-9~\mu\text{Ci/cc.}$

Keep Occupancy Log for Affected Area

 Iodine Airborne levels greater than 4 DAC (8.0E-8 μCi/cc). Evacuate Affected Area or Use Respiratory Protection in Affected Area PROC./WORK PLAN NO. PROCEDURE/WORK PLAN TITLE:

1905.001 EMERGENCY RADIOLOGICAL CONTROLS

CHANGE: 013-01-0

ATTACHMENT 1

Page 2 of 2

Initiating Condition

Action

7. Radiation levels greater than 100 mRem/hr but less than 1 Rem/hr at TSC, OSC, or remainder of the Administration Building.

Evacuate if determined to be a long term condition. If determined to be a short-term condition evaluate the projected personnel accumulated dose.

8. Radiation levels greater than 1 Rem/hr at TSC, OSC, or remainder of the Administration Building.

Evacuate Immediately

*On-site radiological monitoring section should:

- 1. Increase surveillance of airborne radioactivity to once per hour.
- Determine the dose rates in the area every 15 minutes.
- 3. Evaluate projected personnel accumulated doses and establish appropriate stay times.
- 4. Post radiological survey results in the TSC and in the OSC.

HEALTH PHYSICS SUPERVISOR CHECKLIST

NOTE

This checklist is to be used in conjunction with the Health Physics Supervisor's Position Guide in Procedure 1903.066, "Emergency Response Facility- Operational Support Center (OSC)"

			INITIALS
I.		already accomplished, contact should be attempted with where either by the plant paging system or by one.	
	for you Supervi	the TSC Support Superintendent to call an assistant (if desired). This assistant may be another HP isor or someone from the HP Technical Assistant list in ergency Telephone Directory.	
II.	Assign	the On-site Radiological Monitoring Section	
	Α.	Assign at least one (1) H.P. for monitoring the affected unit's Control Room.	
	В.	Assign HP coverage for the TSC, OSC, and EOF HP Supervisor.	
		 [Ensure that all radiological surveys are posted in their respective Facilities for staff review] 	
	C.	Establish communications:	
		 Assign OSC base radio operator. (Instruction booklet with radio.) 	
		 Assign HPN telephone communicator. (Instruction booklet with HPN telephone.) 	
	D.	Emergency equipment inspected and made operational.	
	Ε.	RCA boundaries established.	
	F.	Contamination control point established.	
	G.	Control point logs established.	
	н.	Personnel decontamination sites designated.	
	I.	Emergency dosimetry/respiratory equipment requirements established for ERT members and TSC/OSC staff.	
	J.	Determine immediate response needs:	
		1. On-site surveys, samples required, etc.	*****
		2. Initial re-entries by other emergency teams.	
		3. Obtain equipment from routine stock as needed.	

FORM TITLE:	FORM NO.	REV.
EMERGENCY RADIOLOGICAL CONTROLS CHECKLIST	1905.001A	013-01-0
		i .

		₽	age 2 of 2
			INITIALS
		4. Plant Evacuation- one HP technician shall be stationed at the portal monitors at each guard station. Ensure HP personnel have obtained portable radiological monitoring equipment.	
		5. Medical Emergencies - provide assistance to medical personnel in accordance with procedure 1903.023.	
		6. PASS Sample- provide assistance to Nuclear Chemistry personnel in accordance with procedure 1905.003.	
		 Survey affected area for beta radiation if the accident involves spent fuel. 	
III.	Assign appoint	the Off-site Radiological Monitoring Team (include tment of section leaders as necessary).	
	Α.	Establish 2 to 4 Off-site Monitoring Teams, each team composed of at least 2 members; have the teams obtain vehicle keys and gas pump keys. The teams are to proceed to the EOF, obtain and inspect field monitoring kits, and report to the Off-site Monitoring Supervisor in Room 264 at the EOF.	
	В.	Select one HP technician to report to the Off-site Monitoring Supervisor in Room 264 at the EOF as the Off-site Monitoring team Base Radio Operator. (Instruction booklet with Base Radio in Dose Assessment Room.)	
	C.	Select one HP technician to report to the Dose Assessment Supervisor in Room 262 at the EOF as the HPN telephone communicator. (Instruction booklet with HPN telephone).	*******
	D.	Instruct at least 2 HP technicians to report to the EOF HP Supervisor at the EOF.	
	E.	After immediate needs are addressed, establish ERT schedule for an extended event.	
	F.	Contact the Support Manager in the EOF if additional manpower is required.	
	G.	Provide periodic updates to team personnel and the OSC Director.	
	Comple	ted by:	
	Review	red by:	
		Health Physics Supervisor	

Form 1905.001A for records retention.

FORM TITLE:	FORM NO.	REV.
EMERGENCY RADIOLOGICAL CONTROLS CHECKLIST	1905.001A	013-01-0

ACCESS AND EXPOSURE CONTROL LOG

ATE:	LOCATION:				SHIFT:		
Name	Badge #	ED/SRD Number	Availible Exposure	Time Departed	Destination/ Comments	Time Returned	Exposure Received
						_	
EVIEWED BY:_				DA ⁻	ΓΕ:		
							I none
RM TITLE:	CCESS AN	ID EXPOSU	RE CONTROI	LOG	F	ORM NO. 1905.001B	REV. 013-01-