IMPORTANT TO SAFETY NON-ENVIRONMENTAL IMPACT RELATED 1004.9 Revision 2 10/13/82

CONTROLLED COPY FOR USE IN UNIT I ONLY

UNIT NO. 1 EMERGENCY PLAN IMPLEMENTING PROCEDURE NO. 1004.9 RADIOLOGICAL CONTROLS DURING EMERGENCIES

			Table of E	ffective	Pages	appea	g r fue. 15	nera Ty.
ige	Revision	Page	Revision	Page	Revision	Page	Revision	
0	2							
2.0	2							
3.0	2							
4.0	2							
5.0	2							
6.0	2							
7.0	2							
8.0	2							
9.0	2							
0.0	2							
1.0	2							
2.0	2							
2.0	2							
3.0	2							

1 Aalchon (PCRC gnature

PDR

00 Signature

10/12/82 Date

10-13-82

Document ID: 0005W

THREE MILE ISLAND NUCLEAR STATION UNIT NO. 1 EMERGENCY PLAN IMPLEMENTING PROCEDURE NO. 1004.9 RADIOLOGICAL CONTROLS DURING EMERGENCIES

1.0 PURPOSE

The purpose of this procedure is to provide guidelines for coordination of the implementation of the radiological program during emergency conditions and for re-entry operations during and after the declaration of a radiological emergency to assure maximum protection of the general public, plant personnel, and emergency teams without restricting necessary operations and maintenance.

The Radiological Controls Coordinator is responsible for implementing Section 4.0 of this procedure. The Radiological Assessment Coordinator is responsible for implementing Attachment I of this procedure.

2.0 ATTACHMENTS

- 2.1 Attachment I Radiological Controls Checklist
- 2.2 Attachment II Personnel Briefing/Debriefing
- 2.3 Attachment III Re-entry Team Dress-out and Equipment Checkiist
- 2.4 Attachment IV Personnel Assignment Checklist

3.0 EMERGENCY ACTION LEVELS

- 3.1 This procedure shall be implemented under the following conditions:
 - 3.1.1 If radiological problems exist and one of the following emergencies has been declared:
 - a. Unusual Event (1004.1)
 - b. Alert (1004.2)
 - c. Site Emergency (1004.3)
 - d. General Emergency (1004.4)

1004.9 Revision 2

- 3.1.2 If it is necessary to enter an area, during or after a radiation related emergency, in which the radiological conditions are unknown but are suspected to be hazardous.
- 3.1.3 As referenced by other emergency procedures.
- 3.1.4 As directed by the Emergency Director.
- 4.0 EMERGENCY ACTIONS

INITIALS

:	NOTE:	For overall coordination of Radiological Controls	:
:		activities, refer to the Radiological Controls	:
:		Checklist, Attachment I.	:

- 4.1 If exposures in excess of the limits of 10CFR20.101 are anticipated, ensure that each member of the team (Search and Rescue, Emergency Repair, In-Plant Monitoring, etc.) understands that this exposure is voluntary. Exposure in excess of the limits of 10CRF20.101 shall be authorized by the Emergency Director only.
- ____4.2 Preference should be given to those team members who are current in their Radiation Worker Training.
- 4.3 When re-entry to a hazardous or potentially hazardous area is necessary, ensure that re-entry team members are briefed on all known hazards in the re-entry area (i.e., heat, smoke, steam, flooding, fire, toxic materials, direct radiation and airborne radioactivity levels) and that they are properly prepared. If time permits, the re-entry should be planned in detail and every effort should be made to minimize exposure. Complete Attachment II, Personnel Briefing/Debriefing Checklist.

- ____4.4 Ensure that each re-entry team is properly equipped. See Attachment III checklist.
- 4.5 Report to the Operations Support Center Coordinator that the team(s) is (are) briefed and ready to perform the assigned task.
 - ____4.6 Ensure that communications at predetermined intervals, are maintained with the Operations Support Center.
- 4.7 Appropriate Radiological Controls Procedures (RCP-1602, RCP-1609, RCP-1605) shall be used. Implement the following guidelines and controls when deviations from routine procedures are determined to be necessary. The specifics of the implementation will be dependent on the radiological conditions. Assign individuals to be responsible for each designated area and make appropriate entries on Attachment IV.

4.7.1 Access Control

Insure that inadvertent entry into areas of extreme dose rate does not occur by considering implementation of one or more of the following controls:

a. Request the Ops Support Center Coordinator to have the Control Room make an announcement over the public address system identifying the locations of those areas that are off limits due to radiological hazards.

b. Lock the doors at all possible entry points.

1004.9 Revision 2

- c. Post "Danger-High Radiation" signs at all possible entry points and consider barricading with radiological rope.
- d. Post personnel at possible entry points that cannot be secured by other means.

4.7.2 Personnel Radiation Exposure Monitoring Track accumulated exposures for personnel required to enter high radiation exposure areas. The RWP Log sheet can be used to document exposures and stay times.

4.7.3 Radiation Surveys

We eme dose-rate conditions exist, Radiological Controls personnel should not be used for the sole purpose of performing dose-rate surveys. Radiation levels must be determined while performing other duties (in conjunction with 4.7.5) with all information documented for use as guidance by others requiring access.

4.7.4 Airborne Surveys

Where emergency access is required to in-plant areas where known or suspected airborne radioactivity exists, maximum respiratory protection shall be provided. Air samples will be taken if they can be obtained without significant additional personnel exposure. Air samples (preferably lapel sampling) should be obtained by personnel making entries for

1004.9 Revision 2

other purposes, if practical, to minimize exposure. Whole Body Counts on personnel should be used to evaluate the effectiveness of the respiratory program and the need for additional concern of personnel who have made entries. Unless real-time monitoring is available, air samples should not be used as guidance in determining respiratory requirements during accident conditions. Maximum protection shall be afforded each individual.

4.7.5

.5 Personnel Briefing/Debriefing

Insure that each individual entering an area of extreme radiation exposure rate has appropriate authorization to enter. A briefing and debriefing should be accomplished before and after each entry. Attachment I provides guidance in briefing/ debriefing information requirements. The Radiological Controls Coordinator should assign a specific individual(s) to conduct the briefing/debriefing.

NOTE: These individuals may be located at the access control point and also provide positive access control required by 4.7.1.

1004.9 Revision 2

4.7.6 Personnel Assignments

As soon as possible, individuals should be assigned to maintain radiological controls supplies and equipment. Segregation of contaminated materials for eventual decontamination or discarding should occur. Attachment IV provides specific logistic concerns which should be addressed.

4.7.7 Personnel Decontamination

Assign a specific individual to insure all contaminated personnel are properly deconned and evaluated as necessary. Control Point personnel must be aware of the location of decontaminated facilities and insure contaminated personnel are directed to the facility. (See procedure 1004.16 Radiation Overexposure and Decontamination, for personnel decontemination).

4.7.8 Bioassay

All personnel entering known high airborne radioactivity areas shall be scheduled for whole body counts. An individual shall be assigned, as soon as practical, to coordinate the whole body counts, assuring that all scheduled personnel are counted, reviewing and evaluating the results and scheduling follow-up counts. Health Physics Consultants (i.e., Porter Consultants, Inc., Radiation Management Corporation, etc.) can be used for this function.

1004.9 Revision 2

If airborne tritium is suspected or known to exist, obtain 24-hour urine samples from all persons who have entered these areas. Analyze the samples for the "maximum risk" individuals within 48 hours.

- ____4.8 Debrief the team(s) in accordance with Attachment II, Personnel Briefing/Debriefing checklist.
- 5.0 FINAL CONDITIONS

0

5.1 The normal plant Radiological Controls Procedures are fully implemented.

C

0

ATTACHMENT I RADIOLOGICAL CONTROL" CHECKLIST

4. Attachment I, Section IV) completed the RAC II, Section I and III completed and irational iche ED Item Data med by the EACC innel 3) Accomplished with Field Teams Teld Teams Approach 300 arem Gulate Concentrations Approaching inty (P.C.'s, Plume Drivection, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summond. ry Mospital, dispatch Rad Con Tech. r Briefed as to the Status of the itariantion Facility with tatus of the Contaminated s (1004.31) Airborne Radioactivity and Analyzed erwed ti.e., posting requirements, ornel, etc.) inel excl s (1004.31) Airborne Radioactivity and Analyzed erwed ti.e., posting requirements, ornel, etc.) itaus of Airborne Radioactivity and Analyzed erwed to Quantifies of 1-131	FUNCTIONS	I CHECK I	COMMENTS
the RAC 1, occumpleted and II, Section I and IIJ completed and irational the ED Item Data med by the EACC innel 3J Accomplished with Field Teams Teld Teams Approach 300 mem Gulate Concentrations Approaching ent Sample Requested Upon Approval of Results port of Contaminated Injurcd ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. fy Hospital, dispatch Rad Con Tech. r Friefed as to the Status of the itoring Location with Contaminated is (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, ecc.) itaus of Airborne Radioactivity itaus of Airborne Radioactivity itaus of Airborne Radioactivity	rotective Action Recommendations (1004.14. Attachment I. Section IV) completed		CONTINUES
Other Network It, Section 1 and III completed and It, Section 1 and III completed and Prational The ED Item Data med by the EACC innel 3) Accomplished with Field Teams Teld Teams Approach 300 arem Gulate Concentrations Approaching Ient Sample Requested Upon Approval of Results port of Contaminated Injured ed Area ng the transport of the victim out of ty (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s re one is summoned. ry Hospital, dispatch Rad Con Tech. re Fifefed as to the Status of the itoring Location with Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, etc.) nel, etc.) tatus of Airborne Radioactivity een Exposed to Quantifies of I-131 se	BRP has initiated communications with the DAF		
Item Data	Status Reports (1004 1.4 Aftachment II Cartion 1 and III completed and		
rational the ED Tem Data med By the EACC innel 3) Accomplished with Field Teams Teld Teams Approach 300 mem Culate Concentrations Approaching ent Sample Requested Upon Approval of Results port of Contaminated Injured ed Area ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. Ty Hospital, dispatch Rad Con Tech. r Briefed as to the Status of the tatus of the Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of 1-131 Dse	info there the the second seco		
Prational Contaminated Contaminated Contamination Facility with Contaminated Contamination Facility with Contamination Facility Co	Thto, transmitted to pkr		
retrievel as to the Status of the status of the Contaminated in the Contaminated in the status of the Status of 1-131 is a status of the Contaminated in the the contaminate	Des Projection (1004 /1 THE DO E/IL and Convetions)		
Item Data	se Projection (1004.7) IKS-00 S/U and Uperational		
Item Data	Initial Dose Projections Supplied to the ED		
Item Data	PAG Recommendations Supplied to the ED		
med by the EACC innel 3) Accomplished with Field Teams ield Teams Approach 300 mrem Gulate Concentrations Approaching ient Sample Requested Upon Approval of Results port of Contaminated Injured ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re fis summoned. fy Hospital, dispatch Rad Con Tech. itoring Location with Contaminated itoring Location with Contaminated s (1004.31) Airborne Radioactivity and Analyzed een Exposed to Quantities of 1-131 Die	EALC Briefed per Plant Status, Source Item Data		
innel 31 Accomplished with Field Teams Approach 300 mrem Gulate Concentrations Approaching Ient Sample Requested Upon Approval of Results port of Contaminated Injured ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. Ty Hospital, dispatch Rad Con Tech. Ty Hospital, dispatch Rad Con Tech. To Briefed as to the Status of the itoring Location with Contaminated s (1004.31) Airborne Radioactivity and Analyzed een Exposed to Quantities of 1-131 Dise	Offsite Monitoring Responsibility Assumed by the EACC		
Innel 3) Accomplished with Field Teams Field Teams Approach 300 mrem Culate Concentrations Approaching ent Sample Requested Upon Approval of Results port of Contaminated Injured ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. fy Hospital, dispatch Rad Con Tech. r Briefed as to the Status of the fitoring Location with Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, etc.)			
ield Teams Approach 300 mrem Gulate Concentrations Approaching ient Sample Requested Upon Approval of Results port of Contaminated Injured ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. Ty Hospital, dispatch Rad Con Tech. r itoring Location with Contaminated itoring Location with Contaminated is (1004.31) Airborne Radioactivity and Analyzed erved [i.e., posting requirements, onnel, etc.) itaus of Anilyzed erved ti.e., posting requirements, onnel, etc.) itaus of Anilyzed erved to Quantities of I-131 ise	teld Monitoring (1004.10) Radio Check (Channel 3) Accomplished with Field Teams		
Approach 300 mrem Gulate Concentrations Approaching Ient Sample Requested Upon Approval of Results port of Contaminated Injured ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. fy Hospital, dispatch Rad Con Tech. - - r Briefed as to the Status of the itoring Location with Contaminated is (1004.31) Airborne Radicactivity and Analyzed erved (I.e., posting requirements, onnel, etc.) and Alized to Quantities of I-131 See	Telephone Pager Numbers Recorded for Field Teams		
Approach 300 mrem Image: Status and Status	Consideration given to Rad Mon		
culate Concentrations Approaching ient Sample Requested Upon Approval of Results port of Contaminated Injured ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summend. ty Hospital, dispatch Rad Con Tech. itoring Location with Contaminated itoring Location with Contaminated s (1004.31) Airborne Radioactivity and Analyzed erwed (i.e., posting requirements, onnel, etc.) ene Exposed to Quantities of I-131 bse	Team Relief when Whole Body Exposures Approach 300 mrem	1 1	
Ient Sample Requested Upon Approval of Results port of Contaminated Injured ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. fy Hospital, dispatch Rad Con Tech. itoring Location with Contaminated itoring Location with Contaminated is (1004.31) Airborne Radicactivity and Analyzed erved (I.e., posting requirements, onnel, etc.) and Analyzed erved (I.e., posting requirements, onnel, etc.) tatus of Airborne Radicactivity een Exposed to Quantities of I-131	Respirators Utilized in Airborne Particulate Concentrations Approaching		
Ient Sample Requested Upon Approval of Results port of Contaminated Injured ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. Ty Hospital, dispatch Rad Con Tech. r Briefed as to the Status of the itoring Location with Contaminated itoring Location with Contaminated itoring Location with Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of 1-131 Dise	3E-10 uc/m1		
ient Sample Requested Upon Approval of Results port of Contaminated Injured ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. Ty Hospital, dispatch Rad Con Tech. r Briefed as to the Status of the itoring Location with Contaminated itoring Location with Contaminated itoring Location with Contaminated itoring Location with Contaminated is (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of 1-131 Dise		i i .	and the second
Results	ost-Accident Sampling (1004.15) Post-Accident Sample Requested Upon Approval of of Emergency Director		
port of Contaminated Injured ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. ty Hospital, dispatch Rad Con Tech. r Briefed as to the Status of the itoring Location with Contaminated itoring Location with Contaminated itoring Location with Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of I-131 Dec	Emergency Director Briefed ner Samle Devilte		
port of Contaminated Injured ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summored. fy Hospital, dispatch Rad Con Tech. ir Briefed as to the Status of the itoring Location with Contaminated ontamination Facility with tatus of the Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of 1-131 Dee	unergency utrector prieted per sample kesuits		
ed Area ng the transport of the victim out of ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. fy Hospital, dispatch Rad Con Tech. ir Briefed as to the Status of the itoring Location with Contaminated ontamination Facility with tatus of the Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of 1-131 Dee	antaminated/Injured Personnal (1004 16) Becort of Contaminated Injured	<u> </u>	e de la collection de la collection
re area ng the transport of the victim out of 1 ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. ity Hospital, dispatch Rad Con Tech. r Briefed as to the Status of the itoring Location with Contaminated itoring Location with Contaminated in Briefed as to the Status of the itoring Location with Contaminated itoring Location with Contaminated itoring Location with Contaminated itoring the Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved [i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of I-131 se	Parsonnel in a Padiologically Controlled Arra		
ng the transport of the victim out of 1 ity (P.C.'s, Plume Direction, etc.) in a finite transport of the victim to the 1 me Direction, P.C.'s)	Personnel in a natiologically controlled Area		
ity (P.C.'s, Plume Direction, etc.) ng the transport of the victim to the me Direction, P.C.'s) me Direction, P.C.'s) ire one is summoned. fy Hospital, dispatch Rad Con Tech. r Briefed as to the Status of the itoring Location with Contaminated itatus of the Contaminated is (1004.31) Airborne Radioactivity and Analyzed erved (1.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity is en Exposed to Quantifies of 1-131 is en Exposed to Quantifies of 1-131	Radiological Precautions observed during the transport of the victim out of		
ng the transport of the victim to the me Direction, P.C.'s) re one is summoned. fy Hospital, dispatch Rad Con Tech. r Briefed as to the Status of the itoring Location with Contaminated intamination Facility with tatus of the Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved [i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of I-131 be	the controlled Area to an Unsite Facility (P.C.'s, Plume Direction, etc.)		
me Direction, P.C.'s) re one is summoned. fy Hospital, dispatch Rad Con Tech. r Briefed as to the Status of the itoring Location with Contaminated itoring Location with Contaminated intamination Facility with tatus of the Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of 1-131 be	Radiological Precautions observed during the transport of the victim to the		
re one is summoned. Ty Hospital, dispatch Rad Con Tech. ir Briefed as to the Status of the itoring Location with Contaminated itoring Location with Contaminated itoring Location with Contaminated intering Location with Contaminated itoring	Offsite Facility (Ambulance lined, Plume Direction, P.C.'s)	1	
fy Hospital, dispatch Rad Con Tech.	If offsite ambulance is required, ensure one is summoned.		
itoring Location with Contaminated itoring Location with Contamin	If offsite transport is required, notify Hospital, dispatch Rad Con Tech.		and the second state is the second state of th
ar Briefed as to the Status of the itoring Location with Contaminated itoring Location with Contamin	Supply Status to ED		And the second se
or Briefed as to the Status of the itoring Location with Contaminated itoring Location with Contamin			North Contraction of the second s
er Briefed as to the Status of the itoring Location with Contaminated itoring Location with Contaminated itatus of Facility with tatus of the Contaminated is (1004.31) Airborne Radioactivity and Analyzed erved [i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of I-131 pse			
itoring Location with Contaminated : ontamination Facility with tatus of the Contaminated : s (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity : een Exposed to Quantities of I-131 be	econtamination (1004.20) Emergency Director Briefed as to the Status of the Injured/Contaminated Individual	1.	
itoring Location with Contaminated : ontamination Facility with : tatus of the Contaminated : s (1004.31) Airborne Radioactivity : and Analyzed : erved (i.e., posting requirements, onnel, etc.) : tatus of Airborne Radioactivity : een Exposed to Quantities of 1-131 : ose :	Report of Contaminated Person/Vehicle		
ontamination Facility with tatus of the Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of 1-131 pse	Team Leader Assigned/Dispatched to Monitoring Location with Contaminated		
tatus of the Contaminated s (1004.31) Airborne Radioactivity and Analyzed erved (i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of 1-131 pse	leam Leader Assigned/Dispatched to Decortemination Excility with		And the second second second second second
tatus of the Contaminated	Contamination Pacing (Vabia)		
and Analyzed erved (1.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of 1-131 DSE			
s (1004.31) Airborne Radioactivity	Person/Vehicle		
s (1004.31) Airborne Radioactivity			
and Analyzed erved (i.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of 1-131 pse	rborne Radioactivity Sampling and Analysis (1004.31) Airborne Radioactivity		
and Analyzed erved [1.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of 1-131	Sample Requested	and the second	
erved (1.e., posting requirements, onnel, etc.) tatus of Airborne Radioactivity een Exposed to Quantities of I-131	Airborne Radioactivity Sample Procured and Analyzed		the second s
een Exposed to Quantities of 1-131	Resultant Radiological Precautions Observed Li.e., posting requirements		
een Exposed to Quantities of 1-131	use of respirators, evacuation of personnel, etc.)		
een Exposed to Quantities of 1-131	Emergency Director Briefed as to the Status of Mishanne Badioactivity		
een Exposed to Quantities of 1-131	Levels		
een Exposed to Quantities of 1-131		1	
058	hyroid Blocking (1004.35) Personnel Have Been Exposed to Quantities of 1-131		
	that will result in > 10 RAD Thyroid Dose	1	
And a second secon	RMC Representative Notified		
arvous with Evoneed Individuals	Safety Representative Notified to Rendervous with Evoneed Individual-		
cheast 21 complete	Potassium India Arministered and Interferenze 71 annual		the second second second second
	Empanery Director Builded as to the Chables of Complete		
catus of caposed refsonnel	thergency streeter shered as to the status or exposed rersonnel		
tatus of Exposed Personnel	Emergency Director Briefed as to the Status of Exposed Personnel		

8.0

1004.9 Revision 2

ATTACHMENT II

PERSONNEL BRIEFING/DEBRIEFING

1. Briefing prior to entry into High Radiation Area.

DESCRIPTION OF ENTRY

Building or space being entered_____

Purpose of Entry

INITIAL

- A. Ensure that team members are aware of the voluntary nature of reentry, if applicable.
- B. Ensure that Reentry Team members understand the Potential Hazards and are familiar with the area(s) and the access/escape routes.
- C. Discuss suspected Dose Rates and Activity levels.
- _____D. Ensure proper Dosimetry (TLD and High range self-reading dosimeter) is issued and use understood. Also give consideration to Quarterly, Annual, and Lifetime Exposure History.
 - E. If Respiratory Protection is required, ensure proper Respiratory Protection is specified and all members of Reentry Team are qualified in its use.
 - F. Ensure proper Protective Clothing is prescribed.
- G. Ensure that each member of the Reentry Team has been properly instructed and stay times have been discussed and are understood.
- H. Ensure instrumentation to be used has appropriate range and sensitivity and has been calibrated and operationally checked.
- Use mock-up situation if time permits.

1004.9 Revision 2

ATTACHMENT II (Cont'd)

PERSONNEL BRIEFING/DEBRIEFING

- ____J. Review Documentation required for reentry and for personnel records if time permits.
- K. Review Safety and Health Concerns i.e., gases present, toxic materials, equipment malfunction, etc.
- L. Review and explain any known or suspected system malfunctions, breaks or hazards from operating equipment.
- M. Ensure Reentry Team members are briefed on any surveys to be performed (air, cont. rad.) in accordance with RCP 1602, 1605, 1609.
 - N. The following Reentry Team Members have been briefed as detailed above.

Name	Badge No.	Initials

Rad Con Coordinator

2. Debriefing after exiting High Rad stion Area.

INITIAL

- A. Determine exposure and time in Area.
- B. Monitor for Personnel Contamination, document positive findings.
 - C. Determine approximate dose-rates from survey meter.
- D. Document exposure, time and survey information.

10.0 FOR USE IN UNIT I ONLY

0

()

1004.9 Revision 2

ATTACHMENT II (Cont'd) PERSONNEL BRIEFING/DEBRIEFING

E.	Any noticeable radiological or operations concern, i.e., gas leaks,
	liquid spills, alarms, equipment malfunction, etc.
F.	Document recommended bioassay.
G.	Take nasal swabs of persons in airborne contamination areas.
н.	Obtain any survey data sheets.

Rad Con Coordinator

1004.9 Revision 2

ATTACHMENT III

RE-ENTRY TEAM DRESS-OUT AND EQUIPMENT CHECKLIST

Depending on hazards involved, teams should be equipped with appropriate equipment from the list below:

		Number	Туре
1.	Protective Clothing for each individual		
2.	Respirators for each individual		
3.	Scott-Air Paks (refill of bottles)		
4.	Gamma Dose-rate instruments; Beta Dose-rate instruments		-
5.	Self-Reading dosimeters (two high range for each		
	individual.)		1.2.1
6.	TLD's, Extremity TLD's (at least one whole body TLD for		
	each individual; if available, several TLD's should be		
	worn by each individual.)		1.1.1.
7.	Wet Suits		
8.	Air Samplers	-	
9.	Air Particulate Filters		
10.	Iodine Filters (Silver Zeolite or Charcoal.)		
11.	Poly Bags		
12.	Absorbent materials		
13.	Maranelli beakers for grab air samples		
14.	First Aid Kit		_
15.	Additional survey equipment as required		

0

0

O

1004.9 Revision 2

ATTACHMENT IV

PERSONNEL ASSIGNMENT CHECKLIST

Radiation	Exposure Moni	toring Ind	lividual A	ssigned:	<u></u>	
Radiation	Surveys: Ind	lividual As	signed:			
Airborne	Surveys: Indi	vidual Ass	igned:			_
Personnel	Briefing/Debr	iefing: I	Individual	Assigned	;	
Supplies	Individual A	Assigned:				
Personnel	Decontaminati	ion: Indiv	vidual Ass	ianed:		