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1.0 **PURPOSE**

The purpose of this procedure is to provide guidance for activation and operation of the Operations Support Center (OSC). Guidance is also provided for Search and Rescue Operations, Emergency Repair/Operations and In-Plant Radiological Controls.

2.0 **APPLICABILITY/SCOPE**

- This procedure is applicable to all Operations Support Center personnel.
- The OSC is activated during an Alert, Site Area, or General Emergency or when directed by the Emergency Director.

3.0 **DEFINITIONS**

IREO - Initial Response Emergency Organization

4.0 **RESPONSIBILITIES**

- The Operations Support Center Coordinator (OSCC) is responsible for coordinating OSC activities.
- The security representative is responsible, except during security related emergencies, for coordinating Protected Area Access Control and for coordinating the location and movement of security personnel with the OSCC and the Radiological Controls personnel in the OSC.
- The Radiological Assessment Coordinator (RAC) is responsible for in-plant Radiological Controls coverage, habitability surveys of the OSC, and Radiological Controls support for the site evacuation until the Rad Con Coordinator (RCC) position is filled. Thereafter, the RCC is responsible for these actions.
- The Chemistry Coordinator is responsible for coordinating all chemistry samples and analyses.
- The Emergency Maintenance Coordinator (EMC) is responsible for carrying out emergency maintenance, repair, damage control, and corrective actions as deemed necessary by the OSC Coordinator.

5.0 **PROCEDURE**

- 5.1 The OSC Coordinator (Maintenance Team Leader/IREO OSC Coordinator) will perform the applicable steps of Exhibit 1.
- 5.2 A Rad Con Technician/IREO Rad Con Coordinator will perform the applicable steps of Exhibit 2.

NOTE The Radiological Controls Coordinator (RCC) and Emergency Maintenance Coordinator (EMC) are not on-shift emergency organization positions.

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	5.3	The Senior Chem Tech/Chemistry Coordinator will perform the app	blicable steps of Exhibit 3.
	5.4	The Emergency Maintenance Coordinator will perform the applicat	ble steps of Exhibit 4.
6.0	REFE	RENCES	
	•	TMI Emergency Plan	
	•	TMI Emergency Plan Implementing Procedure EPIP-TMI05, Com	munications and Record Keeping
	•	TMI Emergency Plan Implementing Procedure EPIP-TMI16, Con	taminated Injuries
	•	TMI-1 Security Procedure TSEC-IMP-1530.01, Personnel Account Emergencies	ability During Site Area/General
7.0	<u>EXHI</u>	BITS	
	•	Exhibit 1 - OSC Coordinator Checklist	
	٠	Exhibit 2 - In-Plant Rad Controls Checklist	
	•	Exhibit 3 - Chemistry Coordinator Checklist	
	•	Exhibit 4 - Emergency Maintenance Coordinator Checklist	
	•	Exhibit 5 - Emergency Team Dispatch Checklist	
	•	Exhibit 6 - Search and Rescue Checklist	
	•	Exhibit 7 - Dose Limits for Emergency Personnel	
	•	Exhibit 8 - Heat Stress Control	
	•	Exhibit 9 - Protected Area Accountability	
	•	Exhibit 10 - OSC Intercom System Operation	
	•	Exhibit 11 - OSC Emergency Team Status Form	
	•	Exhibit 12 - OSC Personnel Roster	
	•	Exhibit 13 - OSC Utilization	
	•	Exhibit 14, OSC Setup (Emergencies)	
	•	Exhibit 15 Normal Use Setup	

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OSC Coordinator Checklist

1.0 Activate the OSC and coordinate the in-plant support of emergency operations by completing the following steps (initial the space provided for actions taken):

NOTE

Steps not currently applicable or not required should be left blank in case those steps become applicable as the emergency evolves.

NOTE

The following steps are provided in an order likely to result in the most efficient response. However, due to the dynamic and unpredictable nature of emergencies associated with a nuclear power facility, the order of performing the steps may be modified to cope with existing conditions. Modifying the specific order of performance of these steps will have no adverse consequences.

INITIALS

ACTIVATION

- 1.1 Announce to the personnel in the OSC that you are assuming the duties of the OSC Coordinator.
- _____ 1.2 Set up facility per Exhibit 14.
 - 1.3 Distribute the appropriate checklist to the lead OSC staff members.
 - a. Exhibit 2 to the Rad Con Coordinator if available, or to a Rad Con Technician if available.
 - b. Exhibit 3 to the Chemistry Coordinator (Chemistry Technician or duty roster Chemistry Coordinator).
 - c. Exhibit 4 to the Emergency Maintenance Coordinator (Maintenance Team Leader or duty roster Emergency Maintenance Coordinator).
- 1.4 Begin tracking emergency teams/individuals as they are dispatched from the OSC. Use the Emergency Team Status Form (Exhibit 11). When the duty roster OSC Coordinator Assistant arrives, assign team tracking to him/her and using Exhibit 11 and the Team Tracking Status Board.
- 1.5 Contact the Operations Coordinator in the Control Room and request that he/she direct all Auxiliary Operators to report their location to you by radio or page phone. Also request that the Control Room coordinate the movement of Auxiliary Operators in the plant through the OSC.
- 1.6 Determine the in-plant priorities from the Emergency Director and assign available personnel to address these priorities. List the priorities on the status board.

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				EXHIBIT 1	Page 2 of 4			
		1.7	When the OSC Assistant in the personnel in ea	is fully staffed with personnel from the duty roster, notify Control Room (extension 8070, [2070 during drills]). Pr ch position to the Emergency Director Assistant.	[,] the Emergency Director ovide the names of the			
		OPER/	ATION					
		1.1	Print your name	e on the OSC status board under the OSC Coordinator p	osition.			
		1.2	Pin on the posit	ion tag for the OSC Coordinator.				
		1.3	Establish a rost	er of OSC personnel using Exhibit 12.				
		1.4	Assign a persor	n to man the Operations Line and start a log.				
		1.5	Consider the need to call out additional personnel.					
		1.6	Set up the ED i	ntercom as follows:				
_			a. Energy the re	gize the amplifier by sliding the power switch to the " ON ' ed power L.E.D. is lit.	position and verifying that			
			b. Adjus	st the " Volume " knob to at least half way (i.e., 12 o'clock).			
		1.7	If relieved by ar over to him/her	n OSC Coordinator, provide a briefing on the current pla	nt status and turn the duties			
		1.8	If anyone repor by others) cont	ting for duty is suspected of NOT being Fit For Duty, (as act Security to perform Fitness For Duty testing.	reported by the individual or			
		1.9	If Protected Are declaration or e	ea Accountability is required (i.e., at the Site Area Emergearlier if ordered by the Emergency Director), refer to Ex	ency or General Emergency nibit 10 for instructions.			
		1.10	Review operato standby equipn	or rounds for content and perform regularly scheduled of nent per OP-TM-102-102-1001.	servations of operating and			
		1.11	Establish an OS Communicatior	SC Watch Bill if operations have the potential to exceed as and Record Keeping Procedure EPIP-TMI05 for guid	twelve hours. Refer to Jance.			
	2.0	The fo necess periodi	llowing is a list of sarily listed in the ically review the l	additional duties that the OSC Coordinator should over order they are to be performed or in order of priority. T list to ensure that they are adequately covered.	see. They are not he OSC Coordinator must			
		•	Pursue the follo	owing activities as directed by the Emergency Director:				
			a. Eme	rgency Team Dispatch Checklist (see Exhibit 5)				
\sim	<i>i</i>		b. Sear	ch and Rescue (see Exhibit 6)				

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NOTE

If keys are needed to perform any repair/operation, they can be obtained from the key locker at the remote shutdown (RSD) control panel area located on the second floor of the control tower on the south wall of the backup Tech Support Center.

- Coordinate in-plant repairs with the Tech Support Center, if the facility is operational.
- If personnel are injured and/or contaminated, inform the Emergency Director and ensure that medically trained and/or Rad Controls personnel are responding.
- Utilize the OSC Security Representative to coordinate access control to the Protected Area and to coordinate the movements of Site Protection personnel in the plant.

NOTE

For security events, the Security Representative will not report to the OSC. In such events, coordinate with security in the CAS at ext. 8039.

- Retransmit Emergency Director Briefings using the OSC Intercom to allow all OSC personnel to be updated simultaneously. If OSC Coordinator briefings to key OSC staff members contain significant additional information or information relevant to the standby personnel, use the OSC Intercom to transmit that information. (Instructions for the OSC Intercom are found in Exhibit 10).
- If problems are encountered with the telephone system, request resolution from the ECC Communications Coordinator.
- Ensure that the Radiological Controls personnel:
 - a. Monitor habitability in the OSC.
 - b. Consider the need for frisking stations at OSC entrances.
- If evacuation of the OSC becomes necessary:
 - a. Contact teams in the plant and advise them of the OSC evacuation and the backup location.
 - b. Gather the OSC logs, procedures, radios, emergency telephones with cords, headsets, rad instruments and emergency locker equipment for transfer to the backup location.
 - c. Relocate to the backup OSC on the 355' elev. of the Control Building.
 - d. Set up the OSC in the available space. Connect the telephones to the labeled wall jacks and establish communications.

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		e. Fi	II in the current information on the status boards.	
		f. Es	stablish a frisking station at the backup OSC entrance.	
3.0	Upon perfor	close-out of the model of the model of the model of the following	e emergency and direction from the Emergency Director to g	deactivate the facility,
	a.	Gather all lo them over to	gs, records and any procedures which were utilized during t a member of the Emergency Preparedness Department.	he emergency and turn
	b.	Ensure that	the facility is returned to its pre-emergency condition per Ex	hibit 15.
	C.	Ensure eme	rgency equipment is re-stocked in the emergency lockers.	

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		In-Plant Rad Controls Checklist	
INITIA	ALS		
1.0	Perform the in-plant radiolo provided for action taken):	ogical controls function by completing the following st	eps (initial the space

NOTE Steps not currently applicable or not required should be left blank in case those steps become applicable as the emergency evolves. NOTE The following steps are provided in an order likely to result in the most efficient response. However, due to the dynamic and unpredictable nature of emergencies associated with a nuclear power facility, the order of performing the steps may be modified to cope with existing conditions. Modifying the specific order of performance of these steps will have no adverse consequences. Assess in-plant radiological conditions based on available information such as RMS readings, in-plant surveys, samples, etc. Keep the OSC Coordinator (OSCC) and RAC (if applicable) informed of the conditions.

- 1.2 Dispatch field monitoring teams as directed by the RAC. Request drivers for the teams from the OSC but do not delay teams while waiting for drivers to be assigned. Ensure vehicles are available and ensure that current dose information is verified for techs and drivers.
- 1.3 Implement habitability monitoring in the OSC.

1.1

1.4 If the backup TSC is in use, implement habitability monitoring in the backup TSC.

NOTE

The following steps (1.5 through 1.7) are to be implemented by the Initial Response Emergency Organization Rad Controls Coordinator upon assuming the duties.

- 1.5 Print your name on the OSC status board under the Rad Con Coordinator (RCC) position.
- _____ 1.6 Pin on the position tag for Rad Con Coordinator.
- 1.7 Activate the In-Plant Rad Con Line or the Radiological Line and establish contact with the Radiological Assessment Coordinator (RAC) and start a log. Assign a log keeper/phone talker if someone is available.

(See EPIP-TMI-.05, Communications and Record Keeping for guidance.)

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- 2.0 The following is a list of in-plant rad controls duties. They are not necessarily listed in the order they are to be performed or in order of priority. This list must be reviewed periodically to ensure that the functions are adequately covered.
 - Provide radiological support for Emergency Repair, Search and Rescue, Fire Brigade, etc. as requested by the OSCC or Emergency Maintenance Coordinator (EMC).
 - Ensure radiological briefings are provided for in-plant teams.
 - Call out additional Rad Con Techs as needed.
 - Personnel Radiation Exposure Monitoring:
 - a. Ensure proper dosimetry is issued as needed. Track accumulated doses for personnel required to enter areas of high radiation dose rates. Utilize the computerized dose tracking system or manual backup to document doses and stay times.
 - b. For those situations where the computerized dose tracking system is not sufficiently updated to support processing of NRC personnel into RWP areas, the following guidelines should be used to support such entries as requested by NRC personnel:
 - Confirm the individual has either a TMI or NRC Whole Body TLD. Baseline bioassay is not required.
 - Discuss the radiological conditions likely to be encountered and the protective equipment/methods required to be used as specified on the RWP. If the individual does not feel sufficiently trained to enter the area due to his/her past training/experience, provide an escort. NRC personnel will make the determination relative to their qualifications to use respiratory protection equipment, if required.
 - > Obtain a verbal annual dose bank estimate from the individual and ensure that the bank is sufficient to support the proposed entry.
 - > Manually collect the RWP entry/exit data such that the information can be input into the computerized dose tracking system at a later date.
 - Coordinate Rad Con Tech actions in obtaining in-plant surveys/samples to support assessment of plant conditions and emergency response.
 - a. Radiation Surveys:

When high dose-rate conditions exist, Radiological Controls personnel should not be used for the sole purpose of performing dose-rate surveys. Other duties (for which he/she is qualified and has been briefed) may be performed while radiation levels are determined with all information documented for use by others requiring access.

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	b.	<u>Airborne</u>	Surveys:	
		>	When emergency access is required to areas airborne radioactivity exists, the need for resp evaluated.	where known or suspected iratory protection shall be
		>	Life saving activities may take precedence.	
		>	Air samples should be taken unless authorized	d otherwise by the RAC.
		>	Where practical, in order to minimize exposure obtained by personnel making entries for othe	e, air samples should be r purposes.
		>	Whole Body Counts of personnel should be us effectiveness of the respiratory protection prote additional concern for personnel who have ma	sed to evaluate the gram, and the need for ade entries.
		>	Unless continuous air monitoring is available, guidance in determining respiratory requireme conditions.	air samples should be used as ints during emergency
•	lf in-pl	ant condition	s warrant, set up friskers and step-off pads at the	entrance(s) to the OSC.
•	Ensur (e.g.,	e that areas v Turbine Bldg.	which are radiologically affected by the emergency postings for a primary to secondary leak).	y are properly controlled
•	Ensur or mo	e that inadver re of the follow	rtent entry into areas of high dose rate does not o wing controls.	ccur by implementation of one
	a.	Request announce that are c	the Ops. Support Center Coordinator to have the ement over the public address system identifying off limits due to radiological hazards.	Control Room make an the locations of those areas
	b.	Lock doo	ors at all possible entry points.	
	C.	Post sign	ns at all possible entry points.	
	d.	Post pers	sonnel in low background areas at all possible en by other means.	ry points that cannot be
	e.	Personne	el access should be restricted and logged appropr	iately.
•	lf site Exhibi	evacuation of t 2 of EPIP-T	f non-essential personnel is required, provide Rac MI36, Emergency Assembly and Site Evacuation	I Con support by completing n.
•	Perioc Con T	lically provide echs.	e updated status to the following positions , as app	blicable: RAC, OSCC, and Rad

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	•	lf an R Chemi	CS Post Acciden stry Coordinator.	t Sample has been requested, coordinate Ra	ad Controls support with the
	•	Consic (TEDE	ler evacuation of). Consult with th	the OSC if actual or projected dose exceeds the RAC and OSCC regarding this determination of the second s	a 1 REM Total Whole Body Dose tion. If evacuation is necessary:
		a.	Contact Rad the backup lo	Con Techs in the plant and advise them that cation in the Group Operations Supervisor C	the OSC is being evacuated to Office.
		b.	Gather the log portable coun keys/inventor	gs, procedures, radios, telephones with cord ting equipment, emergency locker equipment y sheets for transfer to the backup OSC.	s, headsets, rad instruments, nt and locked high rad
		C.	Minimize pers	sonnel doses and the spread of contamination	on during the evacuation.
		d.	Establish acc OSC.	ess control, habitability monitoring, commun	ications, etc. at the backup
	•	When Code).	needed, access t	he Reuter-Stokes data via the Emergency Ir	formation Network (i.e., RAC
	•	As soo mainta eventu	n as necessary, f in radiological co al decontaminatio	the Radiological Controls Coordinator should ntrols supplies and equipment. Segregation on or discarding should occur.	l assign an individual(s) to of contaminated materials for
	•	Assign decont facilitie	a specific individ aminated. Contro s, and ensure co	lual to ensure contaminated personnel are p ol Point personnel must be aware of the loca ntaminated personnel are directed to the fac	roperly evaluated and ation of decontamination illity.
	٠	if requ	ested by the RAC	c, administer stable iodine (KI) in accordance	with EPIP-TMI44.
	•	Upon o followi	close-out of the ei	mergency and direction from the OSCC to de	eactivate the facility, perform the
		a.	Gather all log during the em Manager.	s, records, surveys, sample results and any nergency and turn them over to the Radiolog	procedures which were utilized ical Controls Field Operations
		b.	Ensure that the emergency e	ne facility is returned to its pre-emergency co quipment is re-stocked in the emergency loc	ndition if possible and kers.
		C.	An inventory	of the OSC facility is required to be performe	ed by the end of the working day

c. An inventory of the OSC facility is required to be performed by the end of the working day following the end of the event/drill. The inventory is the responsibility of Rad Con Field Ops. Notify the Manager of Rad Con Field Ops of the need to perform the inventory in accordance with procedure TEP-ADM-1300.01, Maintaining Emergency Preparedness.

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	o opore		EXHIBIT 3	Page 1 of 1
			Chemistry Coordinator Checklist	
1.0	Assist the sp	in the activation of ace provided for ac	the OSC and provide chemistry support by completin tions taken):	ng the following steps (initial
			NOTE	
		Steps not cu those steps	rrently applicable or not required should be left bland become applicable as the emergency evolves.	< in case
			NOTE	
		The followin efficient resp nature of em of performin Modifying th adverse con	g steps are provided in an order likely to result in the bonse. However, due to the dynamic and unpredicta hergencies associated with a nuclear power facility, to g the steps may be modified to cope with existing co e specific order of performance of these steps will have sequences.	most ble he order nditions. ave no
<u>INIȚI</u>	IALS			
	1.1	Print your name o	on the OSC status board under the Chemistry Coord	inator position.
	1.2	Pin on the positio	n tag for Chemistry Coordinator.	
	1.3	Establish a Cherr	nistry Coordinator log.	
		(See EPIP-TMI0	05, Communications and Record Keeping for guidan	ce).
	1.4	Assess the curre	nt status of plant chemistry control and brief the OSC	Coordinator (OSCC).
	1.5	Brief on-shift Che elevated activity i	mistry Techs on the current status and advise them in any plant samples.	to be aware of possible
	1.6	Consider the nee	d to call out additional chemistry assistance (e.g., du	ty chemist, etc.).
2.0	The for they a to ens	bllowing is a list of th are to be performed sure that they are ac	ne duties of the Chemistry Coordinator. They are no or in order of priority. The Chemistry Coordinator me lequately covered.	t necessarily listed in the order ust periodically review the list

- Coordinate all plant chemistry sample taking and analysis. Prioritize samples in cooperation with the RAC and the OSCC.
- Coordinate RCS PAS, MAP-5, and/or CAT PASS sampling and analysis as directed. Coordinate with the Rad Assessment Coordinator (RAC)/Rad Con Coordinator (RCC) for radiological coverage of these samples.
- Provide sample results to both the OSCC and the Radiological Assessment Coordinator (RAC).

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Emergency Maintenance Coordinator Checklist

1.0 Assist in the activation of the OSC and provide support in emergency maintenance, repairs, damage control, search and rescue, and corrective actions by completing the following steps (initial the space provided for actions taken):

NOTE

Steps not currently applicable or not required should be left blank in case those steps become applicable as the emergency evolves.

NOTE

The following steps are provided in an order likely to result in the most efficient response. However, due to the dynamic and unpredictable nature of emergencies associated with a nuclear power facility, the order of performing the steps may be modified to cope with existing conditions. Modifying the specific order of performance of these steps will have no adverse consequences.

INITIALS

- 1.1 Print your name on the OSC status board under the Emergency Maintenance Coordinator (EMC) position.
- 1.2 Pin on the position tag for Emergency Maintenance Coordinator.
- 1.3 Establish an Emergency Maintenance Coordinator Log.

(See EPIP-TMI-.05, Communications and Record Keeping for guidance).

- 1.4 Determine from the OSC Coordinator (OSCC) the priorities for in-plant repairs, damage control, etc.
- 1.5 Establish a standby area for Operations and Maintenance personnel awaiting assignment.
- 2.0 The following is a list of the duties of the Emergency Maintenance Coordinator. They are not necessarily listed in the order they are to be performed or in order of priority. The Emergency Maintenance Coordinator must periodically review the list to ensure that they are adequately covered.
 - Consider establishing a "Ready Team" for immediate response into the plant. The team should be briefed on known plant conditions and hazards and should be prepared to respond in full PC's and SCBA.
 - If Search and Rescue is needed, refer to Exhibit 6 for instructions. Exhibit 5 is for briefing and debriefing the team.
 - If Emergency Repair/Operations is needed, refer to Exhibit 5 for instructions. Provide technical briefings, as needed, to teams.

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	EXHIBIT 4	Page 2 of 2

- Coordinate with the Radiological Controls Coordinator (RCC)/RAC to ensure in-plant teams are provided radiological briefings prior to dispatch, if needed.
- Keep the OSCC informed of the status of in-plant emergency teams, their work progress and findings.
- 3.0 Upon close-out of the emergency and direction from the OSCC to deactivate the facility, perform the following:
 - a. Gather all logs, records, and any procedures which were utilized during the emergency and turn them over to the OSCC.
 - b. Ensure that the facility is returned to its pre-emergency condition if possible.

Specify frequency of, or interval between status reports.

C. Test portable communications equipment before dispatch.

Specify communications equipment to be used by the team.

- 2.0 Request engineering support if appropriate.
- 3.0 Appoint a team leader.

a.

b.

- 4.0 Establish communications requirements.
- Total Whole Body Name Badge Number Dose (TEDE)
- be left blank in case those steps become applicable as the emergency evolves.

Make copies of this exhibit before initial use to ensure sheets are

NOTE

This exhibit should be used for trouble shooting, repairs, operations, or damage control. For search and rescue assignments, utilize Exhibit 6.

NOTE

Authorized Dose

Thyroid Dose

(CEDE)

Initial the steps as covered. Steps not applicable or not required should

Assemble the team using the appropriate available disciplines. 1.0

available for subsequent team briefings.

TMI - Unit 1 Emergency Plan Implementing Procedure

EXHIBIT 5

Emergency Team Dispatch Checklist

NOTE

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Team Member Signature

Number

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Title

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Team Member

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EXHIBIT 5

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Provide a technical briefing. The following points should be covered as a minimum. 5.0

PACKAGE HOLDER CHECK LIST YE JOB TASK / DESCRIPTION – REVIEW / PLANT IMPACT WO - SCHEDULED OR IN PROGRESS AR/MMWO - PLANNED or ASSIGNED	S N	I/A
JOB TASK / DESCRIPTION – REVIEW / PLANT IMPACT WO - SCHEDULED OR IN PROGRESS AR/MMWO - PLANNED or ASSIGNED		
WO - SCHEDULED OR IN PROGRESS AR/MMWO PLANNED or ASSIGNED		
AR/MMWO - PLANNED or ASSIGNED		
CLR - WALKED DOWN		
- SIGNED ON / SCT/ EI		
CORRECT UNIT VERIFIED / COMPONENT DOUBLE VERIFIED		
PROCEDURE/PRINTS – CURRENT REV., ADDITIONAL COPIES, CORRECT LEVEL		
PRE-JOB LIST YES	S N	IA
RWP, CLEARANCE #, POINT OF CONTACTS (HP / OPS / QV)		
RESPONSIBILITIES OF TEAM MEMBERS, SPECIAL REQUIREMENTS / QUALS		
3 PART COMMUNICATIONS AND METHODS	3	
SPECIAL TOOLING / PARTS AVAILABLE / VERIFIED TO BE CORRECT		
LESSONS LEARNED - PAST INTERNAL and EXTERNAL OPERATING EXPERIENCE (OE)		
NOTIFICATION RQD FOR OPS/SUPPORT GRPS, 6 HR FOR ST/SI - INCLUDE SYS. STATUS		
WORK GROUP TAGGING, IF YES, SEE OTHER SIDE		
REQUIREMENTS FOR SYSTEM RESTORATION/ABNORMAL LINEUPS FOR PMT's	3	
PLANT IMPACT OF COMPONENT MANIPULATIONS/CONTINGENCY ACTIONS/BARRIERS		
ARW / RAD PRACTICES (INCLUDING HP INVOLVEMENT IF SCOPE CHANGES)		
TEMP INSTALLATIONS, LIFTED LEADS, DAISY CHAINS, AIR JUMPERS, TEST EQUIPMENT		
FME - CONSIDERED POTENTIAL FME CONCERNS?		
DISCUSSED ERROR LIKELY SITUATIONS?		
DISCUSSED 10/30 RULE?		
HWP/CSP PERMIT IN PROPER STATUS, AND REQUIREMENTS DISCUSSED		
SAFETY REVIEW LIST YES	S N	IA
BE SURE PRINCIPLE DISCUSSED	i	
HOUSEKEEPING (WORK AREA LEFT BETTER THAN FOUND)		<u></u>
HEAT STRESS / CONFINED SPACE / HAZARDOUS MATERIAL		
CLEARANCE - REVIEW COMMENTS SECTION		
REVIEW SAFETY POCKET GUIDE Pre-Job Brief/Job Safety LIST		

CREW:_____

BRIEFING BY:_____

Number

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EXHIBIT 5

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EXPECTATIONS FOR PRE-JOB BRIEFS

- Brief will be performed by an Experienced/Knowledgeable person.
- Briefer has reviewed package thoroughly before briefing.
- Everyone involved with job attends the briefing.
- Briefing is interactive
- Briefees understand their role/tasks thoroughly before starting work.
- Use BE SURE
- All documents checked for accuracy and correct revision
- Multiple shift jobs will be briefed in sections
- CAP will be generated as required for quality issues

WORK GROUP TAGGING CHECKLIST

IMPORTANT

• All personnel applying or removing tagging shall be documented in the work order CREM section in accordance with clearance & tagging manual.

APPLICATION

- Review the work order package
- Check the work order activity status (Activity should be "Inprog" or "Sched".)
- Check the Work Group Tagging (WGT) activity status (Must be "Inprog")
- Check the tags
 - are they readable?
 - do they match the clearance step?
 - Notify the Control Room prior to applying the clearance
- Apply tags in sequence
- Each step of the clearance shall be signed off as it is performed
- Identify verification requirements

RESTORATION

- Verify the work is complete
- Remove all tags in reverse sequence
- Notify the Control Room prior to re-energizing any equipment

DOCUMENTATION

- Document the activity in the CREM:
 - activity number
 - tagging applied
 - removed by
 - IVOR on applied
 - IVOR on removed by

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nue			Revision No.
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1		Generic Turnover Sheet	
1.	Date/Time/Shift/	Poreon.	
	Date/Trifle/Stift/	t.	
	Points of Contact Phone # Eield:		
2	DI ANT STATUS		
Ζ.	PLANT STATUS:		
	Reactor Power:_		
~		Changes):	
3.			
	Events:		
	Near Misses:	· · · ·	
/	Personnel Conta	mination Reports:	
4.	PROTECTED EQUIPME	NT:	
	Accessibility:		
5.	ISSUES FOR NEXT SHI	FT:	
	Work in Progres	S:	
	Work to Start:		
	Work Completed	l:	
	Clearances:		
	Emergent Work:		
6.	EQUIPMENT STATUS:		,
	Instrumentation:		
	■ Tools:		
	Parts:		
	TSA Outages:		
	Non-TSA Outage	es:	
	Clearances:		

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				EXHIBIT 5	Page 5 of 6
6.0	Provid	de a ra	adiological brief	ing. The following points should be covered as a mir	limum.
	a.	Dos	se limits (refer t	o Exhibit 7).	
		1)	Record of	dose limits in the Table under Step 1.0.	
				NOTE	
			Doses in exce over 45 years not be used.	ess of 10 CFR 20.1201 limits require volunteers, prefe of age. Declared or potentially pregnant workers sh	ərably ould
		2)	Record r Radiolog	name of Emergency Director authorizing dose extens gical Assessment Coordinator.	ion (if applicable) and the
			Emerger	ncy Director	
			Radiolog	gical Assessment Coordinator	
	-	3)	Ensure t	eam members understand their dose limits.	
/	b.	Rac	diological condit	tions	
	-	1)	Along ac	ccess route	
	-	2)	At job sit	te	
	_ C.	App	propriate dosime	etry and monitoring instruments.	
	_ d.	Pro	tective clothing	(includes respiratory protection).	
	7.0	Cor	nfirm the team u	understands the assignment.	
<u> </u>	8.0	Dis	patch the team	and inform the ECC.	
9.0	Team	Debri	iefing		
·····	_ a.	Obt	tain a task statu	IS	
		1)	Success	or failure of the mission.	
		2)	"As Left"	condition of the equipment.	

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b.	Notify the ECC of the st	atus before continuing.		
C.	Obtain the following info	rmation from the team.		
	1) Health of the	eam members		

Doses/contamination received by the team members.

Team Member Name	Dose	Contamination (Yes/No)	Comments

3) Conditions en route to, and at the work site.

4) Difficulties encountered with the task.

____ 5) Suggestions

2)

10. Stage deactivated team members for reassignment if appropriate.

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EXHIBIT 6

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Search and Rescue Checklist

NOTE

Make copies of this exhibit before initial use to ensure sheets are available for subsequent search and rescue team briefings.

NOTE

Initial the steps as covered. Steps not applicable or not required should be left blank in case those steps become applicable as the emergency evolves.

- 1.0 Assign personnel to continuously attempt to establish contact with the missing individual(s) using plant page or radio.
- 2.0 Assemble the team using the appropriate available disciplines. If available, at least one member should be trained in first aid procedures.

		Authorize	d Dose	
Team Member		Total Whole Body	Thyroid Dose	
Name	Badge Number	Dose (TEDE)	(CEDE)	Team Member Signature

- 3.0 Appoint a team leader.
- 4.0 Establish communications requirements.
 - a. Specify communications equipment to be used by the team.
 - b. Specify frequency of, or interval between status reports.
 - c. Test portable communications equipment before dispatch.
- 5.0 Provide search subject information. If known, the following points should be covered as a minimum.
 - a. Person or persons missing by name, badge number, company, and department.

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	b.	Description of indiv	vidual(s) if unknown by search team.			
	C.	Last known locatio	n/task.			
6.0	Search	n Area				
	a.	Building/area to be	e searched.			
	b.	Sector assignment	S			
	C.	Search pattern				
7.0	Conditions if known					
	a.	Environmental (he	at, cold, steam, normal, etc.).			
	b.	Heat stress consid	erations (refer to Exhibit 8). Prehydrate the team.			
8.0	Equipr	nent				
/	a.	Safety items				
	b.	Supplemental light	ing			
	C.	First aid equipmen	t			
	d.	Equipment				
9.0	Provid minimu	e a radiological brief um.	ing. If applicable to conditions, the following points sh	ould be covered as a		
	a.	Dose limits (refer to	o Exhibit 7).			
		1) Record of	dose limits in the table under Step 1.0.			
			NOTE			

Doses in excess of 10 CFR 20.1201 limits require volunteers, preferably over 45 years of age. Declared or potentially pregnant workers should not be used.

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				EXHIBIT 6	Page 3 of 4
		2)	Record Radiolog	name of Emergency Director authorizing dose extension gical Assessment Coordinator.	ion (if applicable) and the
			Emerge	ncy Director	
			Radiolog	gical Assessment Coordinator	·····
		3)	Ensure t	team members understand their dose limits.	
	b.	Radiolog	ical condi	tions	
		1)	Along ad	ccess route	
		2)	At job si	te	
	C.	Appropri	ate dosim	etry and monitoring instruments.	
	d.	Protectiv	e clothing	(includes respiratory protection).	
10.Q	Confin	m the team	n understa	inds the assignment.	
- 11.0	Dispat	ch the tear	m and info	orm the ECC.	
12.0	Reque	est/obtain a	dditional r	resources as necessary to support the search and res	cue team.
13.0	Team	Debriefing			
	a.	Obtain a	task statu	is (success or failure of the mission.	
	b.	Notify the	e ECC of t	the status before continuing.	,
	C.	Obtain th	ne followin	g information from the team.	
		1)	Health o	f the team members	
		2)	Doses/c	ontamination received by the team members.	

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Team Member Name	Dose	Contamination	Commonte
	D03e		Comments
	······································		

- 3) Conditions/status of the missing/found individual(s).
- 4) Conditions en route to, and at the search area site.
- 5) Difficulties encountered with the task
- 6) Suggestions

14.0 Stage deactivated team members for reassignment if appropriate.

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Dose Limits For Emergency Personnel

Emergency measures may warrant the acceptance of greater than normal radiation exposure (doses). Lifesaving, measures to prevent substantial radiation exposure to the population or preservation of vital equipment may be sufficient cause for greater than normal exposures. The following are the exposure guidelines for these emergency activities:

Life	Saving	Action -	No Pre-established Limit

Corrective Action -10 REM Total Whole Body Dose (TEDE)30 REM to the lenses of the eyes100 REM total organ dose (CDE) to any organ

The Emergency Director is the designated individual who can authorize emergency workers to receive doses as defined in excess of the 10CFR20 limits. These emergency workers **must** be volunteers and will be required to closely adhere to the guidance and instruction provided during their briefing.

Emergency personnel should consider the risks involved in accepting the dose verses the benefits of the emergency action prior to volunteering to receive such dose. The table below is provided to assist potential volunteers in deciding whether to volunteer.

HEALTH EFFECTS FROM ACUTE WHOLE BODY DOSES: (From Rad Health Handbook)

<25 RAD	No observable effects
25-100 RAD	Range from no symptoms to nausea. Changes in white blood cells are anticipated so the
	individual is more susceptible to diseases.
110 RAD	10% chance of being lethal with no medical intervention.*
340 RAD	50% chance of being lethal with no medical intervention.*
585 RAD	90% chance of being lethal with no medical intervention.*

*Note that medical intervention will approximately double the chance of survival.

	NOTES
•	In addition to the acute health effects, the worker may have an increased long-term risk of fatal cancer. This risk is roughly estimated to be about 2% per 25 REM of exposure (based on a risk factor of 8E-4 per REM from Table 4.3, BEIR V). By comparison, natural cancer mortality is about 20%.
•	For the purpose of estimating doses for use with the table on health effects (above) use the following relationships:
	1 RAD is approximately equal to 1 REM for GAMMA 1 RAD is approximately equal to 10 REM for NEUTRON

Heat Stress Control Recommended Work Time Limits (Action Times) Using Dry Bulb Temperature

DRY BULB		LIGHT	WORK			MODERATI	E WORK			HEAVY \	NORK	
TEMPERATURE	WORK	SINGLE	DOUBLE	WET SUIT	WORK	SINGLE	DOUBLE	WET SUIT	WORK	SINGLE	DOUBLE	WET SUIT
RANGE (°F)	CLOTHES	PC'S	PC'S (min.)	(min.)	CLOTHES	PC'S (min.)	PC'S (min.)	(min.)	CLOTHES	PC's (min.)	PC'S (min.)	(min.)
65	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
70	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	180
75	NO LIMIT	NO LIMIT	NO LIMIT	240	NO LIMIT	NO LIMIT	NO LIMIT	180	NO LIMIT	NO LIMIT	240	140
80	NO LIMIT	NO LIMIT	240	200	NO LIMIT	NO LIMIT	240	150	NO LIMIT	240	180	80
85	NO LIMIT	NO LIMIT	210	175	NO LIMIT	240	170	70	240	165	90	45
90	NO LIMIT	240	180	120	240	130	80	40	180	65	50	25
95	240	170	135	70	150	65	45	30	80	35	30	20
100	195	110	75	45	70	40	35	25	45	25	20	15
105	120	65	50	30	40	30	25	20	30	20	15	15
110	70	40	30	20	30	20	15	15	25	15	15	*
115	45	25	20	15	25	15	15	*	20	15	*	*
120	30	20	15	*	20	15	*	*	15	*	*	*
125	20	15	*	*	15	*	*	*	*	*	*	*
130	15	*	,* ,	*	*	*	*	*	*	*	*	*
135	*	*	*	*	*	*	*	*	*	*	*	*
140	*	*	*	*	*	*	*	*	*	*	*	*

*These conditions present a high heat stress environment. It is required that some combination of the following countermeasures be taken, depending upon the nature of the work:

- a. Monitoring of the worker's condition by the supervisor or designee
- d. Drinking plenty of water prior to entering this environment

b. Use of personal cooling devices

e. Acclimating of the worker to these conditions

c. Stressing self-determination

Guidelines for Using Personal Cooling Devices

- a. Ice Vests can double action time if properly worn. When the ice has melted the individual must leave the area and remove the ice vest.
- b. Circulating ice water garments can increase the action time by a factor of 4 or more, provided that the ice container is changed as needed; i.e., when the water temperature increases to the point that it is not providing sufficient cooling.
- c. Circulating air garments (e.g., supplied air hood/helmet and vortex tube suit) can also increase the action time by a factor of 4 or more, depending upon the temperature of the air supplied to the garment.
 NOTE

These are only guidelines and do not reflect the differences in heat tolerance among the workers. Therefore, the ability of the worker to recognize the onset of symptoms of heat related illness must be stressed.

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		Protected Area Accountability	
Perform the followir General Emergency	ng steps when F y or when order	rotected Area Accountability is required (i.e., at the de ed by the Emergency Director).	eclaration of a Site Area or
		NOTE	
	Steps not curr those steps be	ently applicable or not required should be left blank ir ecome applicable as the emergency evolves.	case
		NOTE	
	The following efficient response nature of eme of performing Modifying the adverse conse	steps are provided in an order likely to result in the m nse. However, due to the dynamic and unpredictable rgencies associated with a nuclear power facility, the the steps may be modified to cope with existing cond specific order of performance of these steps will have equences.	ost order tions. no
INITIALS			
A. Anr	nounce to all OS	C personnel that Protected Area Accountability has b	een ordered.
B. Inst key nee the	truct the coordir -card reader on eded (the OSC 5 normal door #4	ators in the OSC to have their personnel process thro the West wall near door #41. Assign someone to as Security Representative may be available to provide a 1 key-card reader for accountability processing.	ough the accountability sist with this process, if ssistance). DO NOT use
C. The indi pro	e green light on icates that the p blem. Notify Sit	the accountability key-card reader should flash after e erson has been accounted for by the system. The rig e Protection of any badges which cause the red light	ach card is read. This ht hand red light indicates a to flash.
D. Cor (the imp	ntact all emerge key-card numb ortant to obtain	ncy teams and other personnel in the plant and obtair per is the hand-written number in on the reverse side of KEY-CARD NUMBER and <u>NOT</u> SECURITY BADGE	n their key-card numbers of the key-card). It is NUMBER.
E. Ent key	er the key-card -card reader as	numbers for personnel in the plant using the key-pad follows:	on the accountability
1	Press the	e "*" button.	
2	Enter the	e key-card digits in order.	
3	Then pre key-card	ess the "*" button and pause for the green light to flash number.	before entering the next

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F.	When all OSC personnel and emergency team personnel in the P	Protected Area have been

G. Site Protection will produce a report of any personnel in the Protected Area who did not respond to accountability. This report may be faxed to the OSC. Assist Site Protection in determining the whereabouts and status of these persons. Implement Search and Rescue per Exhibit 6, Search and Rescue Instructions, if needed.

OSC or call the Site Protection Officer in the CAS at ext. 8039.

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			EXHIBIT 10	Page 1 of 1
			OSC Intercom System Operation	
1.0	Pre-op	perational checks		
	a.	Verify that the pow nearby outlet.	ver supply (gray box in the Ops/Maintenance muster a	area) is plugged into the
	b.	Verify that the 'Tra while you are facir	nsmit Volume' control is at maximum. To do this, rotang the unit.	ate the knob away from you
2.0	Transı	mitting Plant Status t	Jpdates	
	a.	Depress <u>all</u> station	selector buttons except for the station you are at and	l any blank buttons.
	b.	Depress the "Talk'	' button (or "Talk Lock" button for hands-free use).	
		• To spea	k - Talk in a normal voice toward the unit at a distanc	e of 12 to 18 inches, or
		• To retra speaker	nsmit the Emergency Director briefing as it is given - in close proximity to the unit.	Hold the ED intercom
/	C.	When finished, rel appropriate.	ease the 'Talk' button or depress the 'Talk Lock' butto	n again to release it, as
3.0	Two W	ay Communications	3	
	a.	Depress the statio	n selector button for the station you want to contact.	
	b.	Depress the 'Talk' identify your statio intercom correspo	button and speak in a normal voice at a distance of 1 n to the station you are calling and instruct them to de nding to your station.	2 to 18 inches. Be sure to epress the button on their
	C.	Release the 'Talk'	button when you are finished and wait for a reply.	
	d.	To answer a call, o a normal voice at a	depress the appropriate station selector button and th a distance of 12 to 18 inches.	e 'Talk' button and speak in
	e.	When the convers depressing it a sec	ion is completed, release the 'Talk' button and the sta cond time.	tion selector button by

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EXHIBIT 11 OSC Emergency Team Status Form

		OPS SUPPORT CENTER	JS		
TYPE OF				TIME	TIME
TEAM	TEAM MEMBERS	PURPOSE	LOCATION	DISPATCHED	RETURNED
				· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·			

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OSC Personnel Roster

Date: _____

Π.

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NAME	DEPT.	BADGE #	KEY CARD #
		· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·	
1			
	· · · · · · · · · · · · · · · · · · ·		
·			

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OSC Utilization

The Rad Con Chemistry lunch room is transformed into the Operations Support Center during an emergency or during drills and exercises. OSC staff members must assist in the transformation by clearing any routine paperwork and personal items so that the room needed to efficiently and effectively fulfill Operations Support Center emergency responsibilities is available. Courtesy and sensitivity to the people who use the room every day dictate that personal belongings and paperwork are carefully collected and stored to result in the least amount of disruption or inconvenience. The <u>suggested</u> use of the facility follows.

- 1. <u>OSC Coordinator</u> The OSC Coordinator should use the north-west table in the center of the room. This provides a good working surface, access to the emergency telephones and intercom, and is centrally located. It provides accessibility to the OSC Coordinator Assistant and to the Security Representative in the hallway.
- 2. <u>Rad Con Coordinator</u> The Rad Con Coordinator and a Rad Con communicator should be stationed in the north-east corner of the room. Space is available for this function and all of the relevant telephone and radio communications are located there.
- 3. <u>Operations Line Communicator</u> The Operations Line Communicator should be stationed at the desk with the Operations Line telephone. This provides suitable space for log keeping and communicator activities.
- 4. <u>Emergency Maintenance Coordinator</u> The Emergency Maintenance Coordinator should work at the south-east table in the center of the room. This provides suitable writing space and access to a plant page phone. Team briefings can be performed in this or any other suitable area.
 - 5. <u>Security Representative</u> The Security Representative should work in the hallway outside the OSC door. This is the location of a dedicated telephone jack and the accountability key card reader.
 - 6. <u>Chemistry Coordinator</u> The Chemistry Coordinator should operate from an available table in the room.
 - 7. <u>OSC Coordinator Assistant</u> The OSC Coordinator assistant should work in the hallway outside the OSC at the team tracking status board. In this location, the OSC Coordinator Assistant will be in the route of all personnel dispatched from the OSC allowing more positive team tracking.
 - 8. <u>Other Staff</u> Support staff members should work from an available table in the room.
 - 9. <u>Staging</u> Personnel awaiting assignment should be staged in the secondary chemistry laboratory.











