

ENRICO FERMI ATOMIC POWER PLANT

UNIT NO. 2

RERP IMPLEMENTING PROCEDURES

INDEX

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100/RERP2/INDEX.1

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RERP IMPLEMENTING PROCEDURES

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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: CLASSIFICATION OF EMERGENCIES

RECORD OF APPROVAL AND CHANGES

Prepared by F. A. Abramson/T. L. Schehr 6/20/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational Assurance/Delegate
Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear Production/Delegate
Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
2					*			
3					*			
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5					*			
6					*			
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: CLASSIFICATION OF EMERGENCIES

Prepared by	F. A. Abramson/T. L. Schehr		6/20/83
		Date	
Recommended by	Donald S. MacKenzie		8-11-83
	Communication System Division	Date	
Recommended by	James L Jones		8-11-83
	Community & Government Affairs	Date	
Recommended by	Larry E Schuman		8/11/83
	Licensing	Date	
Recommended by	Walter H. McQuinn		8/11/83
	Medical Staff	Date	
Recommended by	James E Plante		8/12/83
	Nuclear Administration	Date	
Recommended by	George R. Schubert		8-23-83
	Nuclear Production	Date	
Recommended by	Edward J. Turek		8/11/83
	Nuclear Training	Date	
Recommended by	Burt Kuffner		8-11-83
	Public Information	Date	
Recommended by			
	Security	Date	
Recommended by	Maurice L Vermeulen		8/11/83
	Wayne-Monroe Division	Date	
Approved by	Thomas Randazzo		8/11/83
	RERP Committee Chairperson	Date	

Revision
No.

RERP Committee
Chairperson Approved

Date _____

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Enclosure

Emergency Action Levels (TAB 1 - TAB 12)

1.0 Purpose

To provide a guide for properly classifying emergencies and initiating actions to protect the health and safety of personnel and the general public.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section D, Emergency Classification System.
- *2.2 Unusual Event (EP-102)
- *2.3 Alert (EP-103)
- *2.4 Site Area Emergency (EP-104)
- *2.5 General Emergency (EP-105)
- 2.6 Organization and Responsibilities (EP-110)
- *2.7 Emergency Notifications from the Control Room, Technical Support Center, or Emergency Operations Facility (EP-290)
- *2.8 Protective Action Guideline Recommendations (EP-545)

3.0 Entry Conditions

Any of the following events occur refer to:

- 3.1 TAB 1 - High Radiological Effluent
- 3.2 TAB 2 - Fuel Handling and Spent Fuel Pool Accidents
- 3.3 TAB 3 - Reactor Coolant Leakage and Steam System Accidents
- 3.4 TAB 4 - Degraded Safety Systems
- 3.5 TAB 5 - Reactor Control System Failures
- 3.6 TAB 6 - Loss of Electrical Power
- 3.7 TAB 7 - Loss of Annunciators, Alarms or Indicators
- 3.8 TAB 8 - Natural Disasters, Accidents, or Fire
- 3.9 TAB 9 - Loss of Fission Product Barriers

*Denotes "Use" Reference

3.10 TAB 10 - Security Compromise

3.11 TAB 11 - High Radiation or Contamination Levels Within Facility

3.12 TAB 12 - Personnel Injury

4.0 General Information

4.1 Responsibilities

4.1.1 Nuclear Shift Supervisor (NSS)

1. Perform the initial evaluation of any abnormal or emergency situation.
2. Ensure that the appropriate actions of applicable Abnormal and Emergency Operating Procedures are performed.
3. Ensure that a determination is made of the magnitude of the emergency conditions and whether or not a potential hazard to the health and safety of personnel or the general public exists.
4. Upon classifying an emergency condition, assume the position of Emergency Director, until properly relieved or the emergency is terminated.

4.1.2 Nuclear Assistant Shift Supervisor (NASS)

Assume the responsibilities of this procedure if the NSS is absent or incapacitated.

4.1.3 Emergency Director

1. Evaluate and assess the emergency condition.
2. Perform the following actions.
 - o Classify/reclassify the emergency.
 - o Initiate required notifications in accordance with Implementing Procedure EP-290.
 - o Order a Plant Area, Protected Area or Site Evacuation, if required.
 - o Authorize emergency response personnel to exceed radiation exposure limits delineated in 10 CFR 20, if required.

- o Augment the emergency organization as appropriate for the severity of the emergency.
- o Augment the emergency organization as appropriate for the severity of the emergency.
- o Recommend protective actions to off-site authorities when appropriate.

5.0 Procedure

5.1 The Nuclear Shift Supervisor will:

- 5.1.1 Verify the initial emergency indications (such as an alarm or surveillance report) by such means as comparison with redundant instrument channels, comparison with other related plant parameters, physical observations, and field measurements.
- 5.1.2 Determine the appropriate emergency classification by comparing the verified plant conditions with the Emergency Action levels identified in the Enclosure to this procedure.

NOTE: This procedure is a guide for classifying emergency conditions. In any situation not covered by the Action Levels in the Enclosure, the NSS must use his best judgement in determining the appropriate emergency classification.

- 5.1.3 Declare the appropriate emergency classification.
- 5.1.4 Assume the responsibilities of the Emergency Director and take actions in accordance with Emergency Plan Implementing Procedures EP-102, 103, 104, or 105.
- 5.1.5 Continually assess the emergency situation and, if necessary, upgrade or downgrade the emergency classification as more definitive information becomes available, and/or if plant conditions change significantly.
- 5.1.6 Maintain the Control Room command function and remain cognizant of the overall plant status at all times.

5.2 The Emergency Director (Plant Superintendent or delegate) will:

- 5.2.1 Continually assess the emergency situation and, if necessary, upgrade or downgrade the emergency classification as more definitive information becomes available, and/or if plant conditions change significantly.

- 5.2.2 Determine the appropriate emergency classification by comparing the verified plant conditions with the Emergency Action Levels identified in the Enclosure to this procedure.

NOTE: This procedure is a guide for classifying emergency conditions. In any situation not covered by the Action Levels in the Enclosure, the Emergency Director must use his best judgement in determining the appropriate emergency classification in consultation with the Control Room.

- 5.2.3 Take actions in accordance with Emergency Plan Implementing Procedures EP-102, 103, 104 or 105.

INDEX OF EMERGENCY ACTION LEVELS

TAB 1: HIGH RADIOLOGICAL EFFLUENT

- GASEOUS EFFLUENT TECHNICAL SPECIFICATION
INSTANTANEOUS LIMITS
- LIQUID EFFLUENT > TECHNICAL SPECIFICATION
LIMITS
- GASEOUS EFFLUENT > 10 TIMES TECHNICAL
SPECIFICATION INSTANTANEOUS LIMITS
- LIQUID EFFLUENT RELEASE > 10 TIMES TECHNICAL
SPECIFICATION LIMITS
- PROJECTED DOSE AT SITE BOUNDARY > 100 MREM/HR
WHOLE BODY OR > 500 MREM/HR
CHILD THYROID
- PROJECTED/MEASURED DOSE RATE > 1 REM/HR
WHOLE BODY OR > 5 REM/HR CHILD THYROID AT THE
SITE BOUNDARY OR BEYOND

TAB 2: FUEL HANDLING AND SPENT FUEL POOL ACCIDENTS

- FUEL HANDLING ACCIDENT RESULTING IN
RADIOACTIVE RELEASE TO REACTOR BUILDING
- MAJOR DAMAGE TO SPENT FUEL IN REACTOR
BUILDING

TAB 3: REACTOR COOLANT LEAKAGE AND STEAM SYSTEM ACCIDENTS

- o REACTOR COOLANT LEAKAGE > TECHNICAL SPECIFICATION LIMITS
- o SIGNIFICANT (> 50 GPM) REACTOR COOLANT LEAKAGE
- o STEAM LINE BREAK INSIDE CONTAINMENT
- o STEAM LINE BREAK OUTSIDE CONTAINMENT
- o STEAM LINE BREAK OUTSIDE CONTAINMENT WITHOUT ISOLATION
- o REACTOR COOLANT LEAKAGE > 5000 GPM (LOCA GREATER THAN MAKEUP PUMP CAPACITY)

TAB 4: DEGRADED SAFETY SYSTEMS

- o ECCS INITIATION AND FLOW TO VESSEL
- o FAILURE OF SAFETY RELIEF VALVE TO RESET
- o LOSS OF CONTAINMENT INTEGRITY REQUIRING PLANT SHUTDOWN BY TECHNICAL SPECIFICATIONS
- o LOSS OF ANY ESF SYSTEMS REQUIRING PLANT SHUTDOWN BY TECHNICAL SPECIFICATIONS
- o ABNORMAL REACTOR DOME PRESSURE OUTSIDE OF TECHNICAL SPECIFICATION OPERATIONAL LIMITS
- o COMPLETE LOSS OF ANY FUNCTION ESSENTIAL TO MAINTAIN PLANT IN COLD SHUTDOWN
- o COMPLETE LOSS OF ANY FUNCTIONS ESSENTIAL FOR BRINGING THE PLANT FROM HOT SHUTDOWN TO COLD SHUTDOWN
- o SMALL OR LARGE LOCA'S WITH FAILURE OF ECCS TO PERFORM

TAB 5: REACTOR CONTROL SYSTEM FAILURES

- FAILURE OF REACTOR PROTECTION SYSTEM (RPS) TO INITIATE AND COMPLETE A SCRAM AND/OR FAILURE OF MANUAL SCRAM TO BRING THE REACTOR SUBCRITICAL
- PLANT TRANSIENT REQUIRING RPS WITH FAILURE TO SCRAM (NO CORE DAMAGE)

TAB 6: LOSS OF ELECTRICAL POWER

- LOSS OF OFF-SITE POWER
- LOSS OF ON-SITE AC POWER CAPABILITY
- LOSS OF OFF-SITE POWER AND ON-SITE AC POWER \leq 15 MINUTES
- LOSS OF ALL ON-SITE VITAL DC POWER \leq 15 MINUTES
- LOSS OF OFF-SITE POWER AND ON-SITE AC POWER $>$ 15 MINUTES
- LOSS OF ALL ON-SITE VITAL DC POWER $>$ 15 MINUTES

TAB 7: LOSS OF ANNUNCATORS, ALARMS OR INDICATORS

- LOSS OF CHANNEL OPERABILITY OF EFFLUENT MONITORS REQUIRING PLANT SHUTDOWN IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS
- SIGNIFICANT LOSS OF COMMUNICATIONS CAPABILITY
- MOST OR ALL ALARMS LOST $>$ 15 MINUTES
- MOST OR ALL ALARMS LOST, PLANT TRANSIENT INITIATED OR IN PROGRESS

TAB 8: NATURAL DISASTERS, ACCIDENTS OR FIRE

- UNUSUAL NATURAL PHENOMENA EXPERIENCED OR PROJECTED (EARTHQUAKE DETECTED ON-SITE, FLOOD WARNING, TORNADO ON-SITE, SUSTAINED WINDS > 75 MPH)
- SEVERE NATURAL PHENOMENA EXPERIENCED OR PROJECTED (EARTHQUAKE > OBE, FLOOD APPROACHING DESIGN LEVELS, TORNADO STRIKING FACILITY, STORM WINDS APPROACHING DESIGN LEVELS)
- SEVERE NATURAL PHENOMENA EXPERIENCED OR PROJECTED ON-SITE (EARTHQUAKE EXCEEDING SSE, FLOOD > DESIGN LEVEL, TORNADO STRIKING FACILITY AND CAUSING SIGNIFICANT DAMAGE, SUSTAINED WINDS EXCEEDING DESIGN LEVELS)
- HAZARDS BEING EXPERIENCED OR PROJECTED (AIRCRAFT CRASH ON-SITE, EXPLOSION NEAR OR ON-SITE, TOXIC OR FLAMMABLE GAS RELEASE, TURBINE ROTATING COMPONENT FAILURE CAUSING RAPID PLANT SHUTDOWN, TRAIN DERAILMENT NEAR OR ON-SITE)
- HAZARDS BEING EXPERIENCED OR PROJECTED (AIRCRAFT CRASH OR MISSILE IMPACT ON FACILITY, ON-SITE EXPLOSION AFFECTING PLANT OPERATIONS, UNCONTROLLED ENTRY OF TOXIC OR FLAMMABLE GAS INTO FACILITY)
- HAZARDS BEING EXPERIENCED OR PROJECTED (AIRCRAFT CRASH/MISSILE IMPACT/EXPLOSION AFFECTING SAFETY SYSTEMS OR FUNCTIONS, UNCONTROLLED ENTRY OF TOXIC GAS INTO AREAS CONTAINING NUCLEAR SAFETY SYSTEMS OR ENGINEERED SAFETY FEATURES)
- UNCONTROLLED PLANT FIRE (NOT EXTINGUISHED BY AUTOMATIC FIRE SUPPRESSION SYSTEM OR FIRE BRIGADE IN 10 MINUTES, OR FIRE THAT REQUIRES OFF-SITE SUPPORT)
- UNCONTROLLED FIRE POTENTIALLY AFFECTING SAFETY SYSTEMS
- FIRE COMPROMISING SAFETY SYSTEM FUNCTIONS

TAB 9: LOSS OF FISSION PRODUCT BARRIERS

- o FUEL DAMAGE INDICATION
- o SEVERE LOSS OF FUEL CLADDING
- o DEGRADED CORE WITH POSSIBLE LOSS OF COOLABLE GEOMETRY
- o LOSS OF TWO FISSION PRODUCT BARRIERS WITH POTENTIAL LOSS OF THE THIRD BARRIER

TAB 10: SECURITY COMPROMISE

- o SECURITY THREAT OR ATTEMPTED ENTRY OR ATTEMPTED SABOTAGE
- o ONGOING SECURITY COMPROMISE
- o IMMINENT LOSS OF PHYSICAL CONTROL OF THE PLANT

TAB 11: HIGH RADIATION OR CONTAMINATION LEVELS WITHIN FACILITY

- o SIGNIFICANT INCREASE IN RADIATION OR AIRBORNE ACTIVITY LEVELS
- o EVACUATION OF CONTROL ROOM
- o DOSE RATES ON-SITE > 1 REM/HR WHOLE BODY OR > 5 REM/HR THYROID
- o EVACUATION OF CONTROL ROOM (CONTROL NOT ESTABLISHED LOCALLY WITHIN 10 MINUTES)

TAB 12: PERSONNEL INJURY

- o CONTAMINATED INJURED INDIVIDUAL(S) REQUIRING OFF-SITE MEDICAL TREATMENT

HIGH RADIOLOGICAL EFFLUENT

<u>CONDITION</u>	<u>PAGE</u>
o GASEOUS EFFLUENT > TECHNICAL SPECIFICATION INSTANTANEOUS LIMITS	2
o LIQUID EFFLUENT > TECHNICAL SPECIFICATION LIMITS	3
o GASEOUS EFFLUENT > 10 TIMES TECHNICAL SPECIFICATION INSTANTANEOUS LIMITS	4
o LIQUID EFFLUENT RELEASE > 10 TIME TECHNICAL SPECIFICATION LIMITS	5
o PROJECTED DOSE AT SITE BOUNDARY > 100 MREM/HR WHOLE BODY OR > 500 MREM/HR CHILD THYROID	6
o PROJECTED/MEASURED DOSE RATE > 1 REM/HR WHOLE BODY OR > 5 REM/HR CHILD THYROID AT THE SITE BOUNDARY OR BEYOND	7

Condition	Indication(s)	Emergency Classification
Gaseous Effluent release > instantaneous limits allowed by Technical Specification 3.11.2.1 (500 mRem/yr)	Alarm on Radwaste Building Stack Monitor/Turbine Building Stack Monitor/SGTS Exhaust Div I Monitor/SGTS Exhaust Div II Monitor/Reactor Building Stack Monitor, as indicated by Annunciator "EFFLUENT PROCESS RADIATION MONITOR TROUBLE" (3D44), and verification by CT-2 recorder on Panel H11-P812 (back panel)	Unusual Event (EP-102)

Condition	Indication(s)	Emergency Classification
Liquid Effluent release > limits allowed by Tech- nical Specification 3.11.1.1	Annunciator "CIRCULATING H ₂ O SYSTEM DECANT LINE RADIATION MONITOR TROUBLE" (3D57) or "CIRCULATING H ₂ O SYSTEM DECANT LINE RADIATION MONITOR UPSCALE" (3D61)	Unusual Event (EP-102)

and

Confirmed analysis by Rad/Chem
that liquid effluent exceeds
concentration specified in 10
CFR Part 20, Appendix B, Table II,
Column 2

Condition	Indication(s)	Emergency Classification
Gaseous Effluent release > 10 times instantaneous limits allowed by Technical Specification 3.11.2.1 (5 Rem/yr)	Alarm on Radwaste Building Stack Monitor/Turbine Building Stack Monitor/SGTS Exhaust DIV I Monitor/Reactor Building Stack Monitor, as indicated by Annunciator "EFFLUENT PROCESS RADIATION MONITOR TROUBLE" (3D44), and verification by CT-2 recorder on Panel H11-P812 (back panel)	Alert (EP-103)
	<u>and</u>	
	Confirmed analysis by Rad/Chem that offsite dose >5 Rem/yr Whole Body	

Condition	Indication(s)	Emergency Classification
Liquid Effluent release > 10 times limits allowed by Technical Specifi- cation 3.11.1.1	Annunciator "CIRCULATING H ₂ O SYSTEM DECANT LINE RADIATION MONITOR TROUBLE" (3D57)	Alert (EP-103)

and

Confirmed analysis by Rad/Chem
that liquid effluent > 10 times
concentrations specified in
10 CFR Part 20, Appendix B,
Table II, Column 2

Condition	Indication(s)	Emergency Classification
Projected or actual radiation readings that indicate a potential dose (at the Site Boundary) of > 100 mRem/hr Whole Body or > 500 mRem/hr Child Thyroid using actual meteorology (or worst case if actual meteorology is not known)	Alarm on Radwaste Building Stack Monitor/Turbine Building Stack Monitor/SGTS Exhaust Div I Monitor/SGTS Exhaust Div II Monitor/Reactor Building Stack Monitor, as indicated by Annunciator "EFFLUENT PROCESS RADIATION MONITOR TROUBLE" (3D44), and verification by CT-2 recorder on Panel H11-P812 (back panel)	Site Area Emergency (EP-104)

and

Dose calculations show a potential dose or actual measurements indicate a dose of > 100 mRem/hr Whole Body or > 500 mRem/hr Child Thyroid at the Site Boundary

Condition	Indication(s)	Emergency Classification
Projected or measure dose rate (at the Site Boundary or beyond) of > 1 Rem/hr Whole Body or > 5 Rem/hr Child Thyroid	1. Alarm on Radwaste Building Stack Monitor/Turbine Building Stack Monitor/SGTS Exhaust Div I Monitor/SGTS Exhaust Div II Monitor/Reactor Building Stack Monitor, as indicated by Annunciator "EFFLUENT PROCESS RADIATION MONITOR TROUBLE" (3D44), and verification by CT-2 recorder on Panel H11-P812 (back panel)	General Emergency (EP-105)

and

Dose calculations show a projected dose rate or radiation surveys indicate a dose rate of > 1 Rem/hr Whole Body or > 5 Rem/hr Child Thyroid at the Site Boundary or beyond

or

2. High Range Containment Monitors (CHRRMS) read $> 1.5 \times 10^4$ R/hr, as indicated by recorder on Panel H11-P812 (back panel)

and

One of the following:

- A. High Main Steam Line Radiation
>3.6 times full power background (later), as indicated by Main Steam Line PRMS recorders on Panel H11-P601 (back panel)
- B. Reactor Water Level < TAF, as shown by Reactor Water Level indicators on Panels H11-P601/602/603.

FUEL HANDLING AND SPENT FUEL POOL ACCIDENTS

<u>CONDITION</u>	<u>PAGE</u>
o FUEL HANDLING ACCIDENT RESULTING IN RADIOACTIVE RELEASE TO REACTOR BUILDING	2
o MAJOR DAMAGE TO SPENT FUEL IN REACTOR BUILDING	3

Condition	Indication(s)	Emergency Classification
Fuel Handling Accident which results in the release of radioactivity to the Reactor Building	1. Alarm on Area Radiation Monitor Channels 15 or 17 on Panel H11-P816	Alert (EP-103)
	<u>or</u> 2. Annunciator "DIV I/II FUEL POOL VENT EXHAUST RADIATION MONITOR UPSCALE TRIP" (3D35)	

Condition	Indication(s)	Emergency Classification
Major damage to Spent Fuel in Reactor Building	Observation of Spent Fuel damage, resulting in rup- ture of the fuel cladding	Site Area Emergency (EP-104)

and

Any of the following:

- A. Annunciator "FUEL POOL
COOLING TROUBLE ALARM"
(2D13) indicates uncover-
ing of Spent Fuel (low
fuel pool water level)
- B. Area Radiation Monitor
Alarms on Channels 15 and
17 and Channel 18 upscale
on Panel H11-P816
- C. Annunciator "DIV I/II FUEL
POOL VENT EXHAUST RADIATION
MONITOR UPSCALE TRIP" (3D35)
- D. Direct information from Health
Physics personnel indicating
area radiation survey >1 R/hr
in Reactor building

REACTOR COOLANT LEAKAGE AND STEAM SYSTEM ACCIDENTS

<u>CONDITION</u>	<u>PAGE</u>
o REACTOR COOLANT LEAKAGE > TECHNICAL SPEC- IFICATION LIMITS	2
o SIGNIFICANT (> 50 GPM) REACTOR COOLANT LEAKAGE	3
o STEAM LINE BREAK INSIDE CONTAINMENT	4
o STEAM LINE BREAK OUTSIDE CONTAINMENT	5
o STEAM LINE BREAK OUTSIDE CONTAINMENT WITHOUT ISOLATION	6
o REACTOR COOLANT LEAKAGE >5,000 GPM (LOCA GREATER THAN MAKEUP PUMP CAPACITY)	8

Condition	Indication(s)	Emergency Classification
Reactor Coolant System Leakage Rates greater than those specified in Technical Specification 3.4.3.2	1. Pressure boundary leakage, as indicated by Annunciator "DRYWELL FLOOR DRAIN SUMP LEAKAGE HIGH" (2D95)	Unusual Event (EP-102)
	<u>or</u>	
	2. 25 gpm total leakage averaged over any 24-hour period or >5 gpm unidentified leakage	
	<u>or</u>	
	3. >2 gpm increase in unidentified leakage within any 4-hour period	

Condition	Indication(s)	Emergency Classification
Reactor Coolant Leak Rate greater than 50 gpm	1. Increased Drywell Floor Drain Sump and Equipment Drain Sump water movement activities, as indicated by Drywell Floor Drain Sump Flow Running Time Integrator on Panel H11-P602	Alert (EP-103)
	<u>and</u>	
	Annunciator "REACTOR BUILDING DRYWELL FLOOR DRAIN SUMP LEVEL HIGH HIGH" (2D92)	
	<u>or</u>	
	2. Reactor Water Cleanup System leakage, as indicated by Annunciator "RWCU DIFFERENTIAL FLOW HIGH HIGH" (2D115) for >5 minutes	

Condition	Indication(s)	Emergency Classification
Steam Line Break inside Primary Containment	Deviation in any Main Steam Line flow $>10^6$ lb/hr, as indicated by Main Steam Line flow indicators on Panel H11-P601 or Panel H11-P602 <u>and</u> Annunciator "CONTAINMENT DIV I/II TEMPERATURE HIGH" (2D25), and verification that Drywell average temperature $> 138^{\circ}\text{F}$ and increasing, as indicated on Panel H11-P602 <u>and</u> Annunciator "PRIMARY CONTAINMENT PRESSURE HIGH/LOW" (3D81), and verification that Drywell pressure >1.93 psig and increasing, as shown by Drywell pressure indicator on Panel H11-P601 or Panel H11-P602	Alert (EP-103)

Condition	Indication(s)	Emergency Classification
Steam Line Break outside Primary Containment	1. Annunciator "NSSS STEAM TUNNEL HIGH TEMPERATURE CHANNEL A/C TRIP" (1D39) or "NSSS STEAM TUNNEL HIGH TEMPERATURE CHANNEL B/D TRIP (2D40), and verification that Steam Tunnel temperature >148°F and increasing, as indicated on NSSS temperature recorder on Panel H11-P614 (Relay Room)	Alert (EP-103)
	<p style="text-align: center;"><u>or</u></p> 2. Annunciator "TURBINE BUILDING HIGH RADIATION" (16D8), and Area Radiation Monitor Recorder Channels 19, 21, 34 or 37 on Panel H11-P816 show rapid increase in radiation level	
	<p style="text-align: center;"><u>or</u></p> 3. Annunciator "TURBINE BUILDING VENT- ILATION EXHAUST RADIATION MONITOR UPSCALE/INOP" (3D48), and verifi- cation by CT-2 recorder on Panel H11-P812 (back panel)	

Condition	Indication(s)	Emergency Classification
Steam Line Break outside Primary Containment without isolation	1. <u>Main Steam Line</u> Increase in any Main Steam Line flow to 4.25×10^6 lb/hr, as shown by Main Steam Line flow indicators on Panel H11-P601 or Panel H11-P602	Site Area Emergency (EP-104)

and

Any of the following:

- A. Annunciator "NSSS MAIN STEAM LINE LOW PRESSURE CHANNEL A/C TRIP" (1D31) or "NSSS MAIN STEAM LINE LOW PRESSURE CHANNEL B/D TRIP" (2D32), and verification that Main Steam Line pressure low at <736 psig with mode switch in run
- B. Annunciator "NSSS STEAM TUNNEL HIGH TEMPERATURE CHANNEL A/C TRIP" (1D39) or "NSSS STEAM TUNNEL HIGH TEMPERATURE CHANNEL B/D TRIP" (2D40), and verification that Steam Tunnel temperature >148°F and increasing, as indicated on NSSS temperature recorder on Panel H11-P614 (Relay Room)

or

2. HPCI Steam Line

Any of the following:

- A. Annunciator "HPCI STEAM LINE DIFFERENTIAL PRESSURE HIGH" (2D58) and HPCI isolation

or

- B. Annunciator "STEAM LEAK DETECTION AMBIENT TEMPERATURE HIGH" (1D66)

and

Condition	Indication(s)	Emergency Classification
Steam Line Break outside Primary Containment without isolation (Continued)	Annunciator "REACTOR AND AUXILIARY BUILDING SUB BASEMENT AND BASEMENT HIGH RADIATION" (16D5), and Area Radiation Monitor Recorder Channel 11 on Panel H11-P816 indicates high	Site Area Emergency (EP-104)

3. RCIC Steam Line

Any of the following:

- A. Annunciator "NSSS STEAM LINE
DIFFERENTIAL PRESSURE HIGH"
(1D85), and RCIC isolation

or

- B. Annunciator "STEAM LEAK DETECTION
AMBIENT TEMPERATURE HIGH" (1D66)

and

Annunciator "REACTOR AND AUXILIARY
BUILDING SUB BASEMENT AND BASEMENT
HIGH RADIATION" (16D5) and Area
Radiation Monitor Recorder Channel 10
on Panel H11-P816 indicates high

Condition	Indication(s)	Emergency Classification
Reactor Coolant System Leakage (LOCA) greater than makeup pump capacity (exceeding 5000 gpm)	Reactor Water Level low at < Level 1 (14 inches), as shown by Reactor Water Level indicators on Panels H11-P601/602 <u>and</u> Annunciator "PRIMARY CONTAINMENT PRESSURE HIGH-LOW" (3D81), and verification that containment pressure >1.93 psig and increasing, as shown by recorders on Panel H11-P601 or Panel H11-P602 <u>and</u> Annunciator "CONTAINMENT DIV I/II TEMPERATURE HIGH" (2D5), and verification that temperature >138°F and increasing, as shown by recorders on Panel H11-P601 or Panel H11-P602	Site Area Emergency (EP-104)

DEGRADED SAFETY SYSTEMS

<u>CONDITION</u>	<u>PAGE</u>
o ECCS INITIATION AND FLOW TO VESSEL	2
o FAILURE OF SAFETY RELIEF VALVE TO RESET	4
o LOSS OF CONTAINMENT INTEGRITY REQUIRING PLANT SHUTDOWN BY TECHNICAL SPECIFICATIONS	5
o LOSS OF ANY ESF SYSTEMS FUNCTIONS REQUIRING PLANT SHUTDOWN BY TECHNICAL SPECIFICATIONS	7
o ABNORMAL REACTOR SYSTEM PRESSURE OUTSIDE OF TECHNICAL SPECIFICATION OPERATIONAL LIMITS	9
o COMPLETE LOSS OF ANY FUNCTION ESSENTIAL TO MAINTAIN PLANT IN COLD SHUTDOWN	10
o COMPLETE LOSS OF ANY FUNCTIONS ESSENTIAL FOR BRINGING THE PLANT FROM HOT SHUTDOWN TO COLD SHUTDOWN	11
o SMALL OR LARGE LOCA'S WITH FAILURE OF ECCS TO PERFORM	12

Condition	Indication(s)	Emergency Classification
Unanticipated ECCS (non-test) initiated and flow to vessel	1. HPCI is operating, as indicated by turbine speed indicator on Panel H11-P602	Unusual Event (EP-102)
	<u>and</u>	
	HPCI Pump discharge inboard isolation valve open, as shown by indicator light on Panel H11-P602	
	<u>and</u>	
	HPCI Pump discharge flow indicated by flow meter on Panel H11-P602 with test line isolated	
	<u>or</u>	
	2. Core Spray Pump running as shown by indicator light on Panel H11-P601 or Panel H11-P602	
	<u>and</u>	
	Core Spray Discharge Valves (F004 and F005) open, as shown by indicator light on Panel H11-P601 or Panel H11-P602	
	<u>and</u>	
	Core Spray Pump discharge flow to vessel by flow meter on Panel H11-P602	
	<u>or</u>	
	3. RHR Pump running, as shown by indicator light on Panel H11-P601 or Panel H11-P602	
	<u>and</u>	

Condition	Indication(s)	Emergency Classification
Unanticipated ECCS (non-test) initiation and flow to vessel (Continued)	LPCI Injection Valves (F015 and F017) open, as shown by indicator light on Panel H11-P601 or Panel H11-P602	Unusual Event (EP-102)

and

LPCI flow to vessel, as shown
by indications on Panel H11-P601
or Panel H11-P602, and injection
check valve F050A on Panel H11-P601
and F050B on Panel H11-P602 indi-
cates open

Condition	Indication(s)	Emergency Classification
Failure of Safety Relief Valve to reset	1. Valve position indicates open, as shown by indicator lights on Panel H11-P601	Unusual Event (EP-102)

or

2. Annunciator "SAFETY RELIEF VALVE OPEN" (1D61), and verification that SRV tail pipe temperature > 200°F as shown by recorder on Panel H11-P614 (Relay Room), or SRV discharge line pressure 735 psig as indicated by lights on Panel H11-P601

and

Failure of SRV tail pipe temperature to decrease, as shown by recorder on Panel H11-P614 (Relay Room)

or

3. Steam line flow/feedwater flow mismatch, as indicated by flow recorder on Panel H11-P603.

and

Decrease in generator output without corresponding decrease in reactor power, as indicated by Generator 2 Output Gross Megawatt meter on Panel H11-P804 and APRM recorders on Panel H11-P603

Condition	Indication(s)	Emergency Classification
Loss of Containment Integrity requiring plant shutdown in accordance with Technical Specifications	1. Any one of the following:	Unusual Event (EP-102)
	A. Primary containment air lock inoperable and inability to restore air lock integrity within 24 hours, in accordance with Tech. Spec. 3.6.1.3.	
	B. Observed structural damage to primary containment resulting in the inability to isolate containment	
	C. Any primary Containment Isolation Valve or Reactor Instrument Line Excess Flow Check Valve inoperable and inability to restore operable status or isolate line within 4 hours in accordance with Tech. Spec. 3.6.3.	
	D. A Suppression Chamber Drywell Vacuum Breaker open and inability to close the open vacuum breaker in accordance with Tech. Spec. 3.6.4.2.	
	E. One Reactor Building Suppression Chamber Vacuum Breaker open and inability to isolate the associated line within 2 hours in accordance with Tech. Spec. 3.6.4.2.	
	<u>or</u>	
	2. Exceeding any of the following LCO's for Secondary Containment:	
	A. Secondary Containment pressure > 0.25 inches of water (vacuum) in accordance with Tech. Spec. 3.6.5.1	

Condition	Indication(s)	Emergency Classification
Loss of Containment Integrity requiring plant shutdown in accordance with Technical Specifications (Continued)	B. Any Secondary Containment Automatic Isolation Damper inoperable and inability to isolate the affected penetration in accordance with Tech. Spec. 3.6.5.2.	Unusual Event (EP-102)
	C. Both Standby Gas Treatment Systems inoperable in accordance with Tech. Spec. 3.6.5.3.	

Condition	Indication(s)	Emergency Classification
Loss of any Engineered Safety Feature Systems functions requiring shutdown in accordance with Technical Specifications	1. A combination of any 2 subsystems of the following Emergency Core Cooling Systems inoperable in accordance with Tech. Spec. 3.5.1. A. High Pressure Coolant Injection B. Automatic Depressurization System C. Core Spray System D. Low Pressure Coolant Injection <u>or</u> 2. One Main Steam Isolation Valve inoperable and inability to isolate the affected main steam line in accordance with Tech. Spec. 3.4.7. <u>or</u> 3. Isolation Actuation Instrumentation channels inoperable in accordance with Tech. Spec. 3.3.2 and Table 3.3.2.-1. <u>or</u> 4. Emergency Equipment Cooling Water System inoperable in accordance with Tech. Spec. 3.7.1.3 <u>or</u> 5. Emergency Equipment Service Water System inoperable in accordance with Tech. Spec. 3.7.1.2	Unusual Event (EP-102,

Condition	Indication(s)	Emergency Classification
Loss of any Engineered Safety Feature Systems functions requiring shutdown (Continued)	6. Both RHR reservoirs have a level less than 580 feet, or temperature greater than 80°, or cooling towers inoperable in accordance with Tech. Spec. 3.7.1.5 <u>or</u> 7. Both RHR Service Water Systems inoperable and inability to restore one system within 8 hours in accordance with Tech. Spec. 3.7.1.1	Unusual Event (EP-102)

Condition	Indication(s)	Emergency Classification
Abnormal Reactor dome pressure outside of Tech- nical Specification operational limits	Reactor pressure > 1101 psig, in accordance with Techn. Spec. 3.4.6.2, and indicated by Reactor Ves- sel Steam Dome Pressure indicator on Panels H11-P601/602/603	Unusual Event (EP-102)

Condition	Indication(s)	Emergency Classification
Complete loss of any function essential to main- tain plant in cold shutdown	Inability of RHR systems to maintain the reactor in cold shutdown	Alert (EP-103)

Condition	Indication(s)	Emergency Classification
Complete loss of any functions essential for bringing the plant from hot shutdown to cold shutdown	Inability to depressurize the reactor <u>and</u> Main condenser cooling becomes inoperable <u>and</u> Both RHR divisions inoper- able in Torus Cooling Modes	Site Area Emergency (EP-104)

Condition	Indication(s)	Emergency Classification
Small or large LOCA's with failure of ECCS to perform	Reactor Water Level < Level 1 (14 inches), as indicated by Reactor Water Level indicators on Panels H11-P601 or H11-P602	General Emergency (EP-105)
	<u>and</u>	
	Failure of all low pressure ECCS to perform	

REACTOR CONTROL SYSTEM FAILURES

CONDITION

PAGE

- o FAILURE OF REACTOR PRESSURE SYSTEM (RPS)
TO INITIATE AND COMPLETE A SCRAM AND/OR
FAILURE OF MANUAL SCRAM TO BRING THE REACTOR
SUBCRITICAL
- o PLANT TRANSIENT REQUIRING RPS WITH FAILURE
TO SCRAM (NO CORE DAMAGE)

2

3

Condition	Indication(s)	Emergency Classification
Failure of Reactor Protection System to initiate and complete a SCRAM and/or failure of a manual SCRAM to bring the reactor subcritical	Valid initiating Scram signal, as indicated by Annunciators "TRIP ACTUATORS A1/A2 TRIPPED" (3D73), "TRIP ACTUATORS B1/B2 TRIPPED" (3D74), or "MANUAL TRIP ACTUATOR A SYSTEM TRIPPED" (3D77), "MANUAL TRIP ACTUATOR B SYSTEM TRIPPED" (3D78) <u>and</u> All rods are not fully inserted, as indicated by control rod position indicators on Panel H11-P603 <u>and</u> Reactor is critical, as indicated by Neutron Flux monitors - IRM/APRM indicators on Panel H11-P603	Alert (EP-103)

Condition	Indication(s)	Emergency Classification
Transient requiring operation of shut- down systems with failure to SCRAM (MSIV's close, but no core damage is imme- diately evident)	Failure to bring the reactor subcritical with the control rods, as shown by IRM/APRM indicators on Panel H11-P603	Site Area Emergency (EP-104)
	<u>and</u>	
	Failure of the Standby Liquid Control System to bring the reactor subcritical	
	<u>and</u>	
	No indication of core damage	

LOSS OF ELECTRICAL POWER

<u>CONDITION</u>	<u>PAGE</u>
○ LOSS OF OFF-SITE POWER	2
○ LOSS OF ON-SITE AC POWER CAPABILITY	3
○ LOSS OF OFF-SITE POWER AND ON-SITE AC POWER \leq 15 MINUTES	4
○ LOSS OF ALL ON-SITE VITAL DC POWER \leq 15 MINUTES	5
○ LOSS OF OFF-SITE POWER AND ON-SITE AC POWER > 15 MINUTES	6
○ LOSS OF ALL ON-SITE VITAL DC POWER > 15 MINUTES	7

Condition	Indication(s)	Emergency Classification
Loss of Off-Site Power	Loss of off-site power supplying Division I, as indicated on Panel H11-P809 and Panel H11-P811 and loss of off-site power supplying Division II, as indicated on Panel H11-P810 and Panel H11- P811	Unusual Event (EP-102)

Condition	Indication(s)	Emergency Classification
Loss of On-Site AC Power Capa- bility	Loss of all Emergency Diesel Generator (EDG) Busses: 11 EA, 12 EB, 13 EC and 14 ED, according to the following information: A. EDG 11 Volt Meter on Panel H11-P809 and loss of EDG Bus 11 EA Power On indi- cation on Panel H11-P809 <u>and</u> B. EDG 12 Volt meter on Panel H11-P809 and loss of EDG Bus 12 EB Power On indication on Panel H11-P809 <u>and</u> C. EDG 13 Volt Meter on Panel H11-P810 and loss of EDG Bus 13 ED Power On indication on Panel H11-P810 <u>and</u> D. EDG 14 Volt Meter on Panel H11-P810 and loss of EDG Bus 14 ED Power On indication on Panel H11-P810 <u>and</u> Inability to start and load EDGs 11, 12, 13 and 14	Unusual Event (EP-102)

Condition	Indication(s)	Emergency Classification
Loss of Off-Site Power and On-Site AC Power (15 minutes or less)	Loss of off-site power supplying Division I, as indicated on Panel H11-P809 and Panel H11-P811 and loss of off-site power supplying Division II, as indicated on Panel H11-P810 and Panel H11-P811	Unusual Event (EP-102)

and

Loss of all Emergency Diesel Generator (EDG) Busses: 11 EA, 12 EB, 13 EC and 14 ED, according to the following information:

- A. EDG 11 Volt Meter on Panel H11-P809 and loss of EDG Bus 11 EA Power On indication on Panel H11-P809

and

- B. EDG 12 Volt meter on Panel H11-P809 and loss of EDG Bus 12 EB Power On indication on Panel H11-P809

and

- C. EDG 13 Volt Meter on Panel H11-P810 and loss of EDG Bus 13 EC Power On indication on Panel H11-P810

and

- D. EDG 14 Volt Meter on Panel H11-P810 and loss of EDG Bus 14 ED Power On indication on Panel H11-P810

Condition	Indication(s)	Emergency Classification
Loss of All On-Site Vital DC Power (15 minutes or less)	Loss of 130 VDC Busses, as indicated by Annunciator "DIV I ESS 130V Battery 2 PA TROUBLE" (9D17) and Annunciator "DIV II ESS 130V Battery 2 PB TROUBLE" (10D68)	Unusual Event (EP-102)
	<u>and</u>	
	Local verification of loss of charger voltage and battery voltage on Division I and Division II batteries	

Condition	Indication(s)	Emergency Classification
Loss of Off-Site Power and On-Site AC Power (more than 15 minutes)	Loss of off-site power supplying Division I, as indicated on Panel H11-P809 and Panel H11-P811 and loss of off-site power supplying Division II, as indicated on Panel H11-P810 and Panel H11-P811 <u>and</u> Loss of all Emergency Diesel Generator (EDG) Busses: 11 EA 12 EB, 13 EC and 14 ED, according to the following information: A. EDG 11 Volt Meter on Panel H11-P809 and loss of EDG Bus 11 EA Power On indication on Panel H11-P809 <u>and</u> B. EDG 12 Volt Meter on Panel H11-P809 and loss of EDG Bus 12 EB Power On indication on Panel H11-P809 <u>and</u> C. EDG 13 Volt Meter on Panel H11-P810 and loss of EDG Bus 13 EC Power On indication on Panel H11-P810 <u>and</u> D. EDG 14 Volt Meter on Panel H11-P810 and loss of EDG Bus 14 ED Power On indication on Panel H11-P810	Site Area Emergency (EP-104)

Condition	Indication(s)	Emergency Classification
Loss of All On-Site Vital DC Power (more than 15 minutes)	Loss of 130 VDC Busses, as indicated by Annunciator "DIV I ESS 130V BATTERY 2 PA TROUBLE" (9D17) and Annunciator "DIV II ESS 130V BATTERY 2 PB TROUBLE" (10D68)	Site Area Emergency (EP-104)
	<u>and</u>	
	Local verification of loss of charger voltage and battery voltage on Division I and Division II batteries	

LOSS OF ANNUNCIATORS, ALARMS OR INDICATORS

<u>CONDITION</u>	<u>PAGE</u>
o LOSS OF CHANNEL OPERABILITY ON EFFLUENT MONITORS REQUIRING PLANT SHUTDOWN IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS	2
o SIGNIFICANT LOSS OF COMMUNICATION CAPABILITY	3
o MOST OR ALL ALAMRS LOST > 15 MINUTES	4
o MOST OR ALL ALARMS LOST, PLANT TRANSIENT INITIATED OR IN PROGRESS	5

Condition	Indication(s)	Emergency Classification
Loss of Channel operability on Effluent monitors requiring plant shutdown in accordance with Technical Specification 3.3.7.12	Both SJAE Offgas Pretreatment Radiation Monitor Channels A and B (D11-N004) inoperable	Unusual Event (EP-102)

Condition	Indication(s)	Emergency Classification
Significant loss of communications capability	Significant loss of com- munications capability off-site (all systems except radio)	Unusual Event (EP-102)

Condition	Indication(s)	Emergency Classification
Most or all annunciator alarms lost > 15 minutes	Observation that most or all annunciator alarms are inoperable	Alert (EP-103)

Condition	Indication(s)	Emergency Classification
Most or all annunciator alarms lost during plant transient	Most or all annunciator alarms inoperable <u>and</u> Unanticipated plant transient occurs or is in progress	Site Area Emergency (EP-104)

NATURAL DISASTERS, ACCIDENTS OR FIRE

<u>CONDITION</u>	<u>PAGE</u>
○ UNUSUAL NATURAL PHENOMENA EXPERIENCED OR PROJECTED (EARTHQUAKE DETECTED ON-SITE, FLOOD WARNING, TORNADO ON-SITE, SUSTAINED WINDS >75 MPH	2
○ SEVERE NATURAL PHENOMENA EXPERIENCED OR PROJECTED (EARTHQUAKE >OBE, FLOOD APPROACHING DESIGN LEVELS, TORNADO STRIKING FACILITY, STORM WINDS APPROACHING DESIGN LEVELS	3
○ SEVERE NATURAL PHENOMENA EXPERIENCED OR PROJECTED ON-SITE (EARTHQUAKE EXCEEDING SSE, FLOOD > DESIGN LEVEL, TORNADO STRIKING FACILITY AND CAUSING SIGNIFICANT DAMAGE, SUSTAINED WINDS EXCEEDING DESIGN LEVELS	4
○ HAZARDS BEING EXPERIENCED OR PROJECTED (AIR CRAFT CRASH ON-SITE EXPLOSION NEAR OR ON-SITE, TOXIC OR FLAMMABLE GAS RELEASE, TURBINE ROTATING COMPONENT FAILURE CAUSING RAPID PLANT SHUTDOWN, TRAIN DERAILMENT NEAR OR ON-SITE)	5
○ UNCONTROLLED PLANT FIRE NOT EXTINGUISHED BY AUTOMATIC FIRE SUPPRESSION SYSTEM OR FIRE BRIGADE IN 10 MINUTES (OR FIRE THAT REQUIRES OFF-SITE SUPPORT)	10
○ UNCONTROLLED FIRE POTENTIALLY AFFECTING SAFETY SYSTEMS	11
○ FIRE COMPROMISING SAFETY SYSTEM FUNCTION	12

Condition	Indication(s)	Emergency Classification
Natural Phenomenon being experienced or projected beyond normal values	1. <u>Earthquake</u>	Unusual Event (EP-102)
	A. Control Room informed by plant personnel who have felt earthquake on-site	
	<u>or</u>	
	B. Annunciator "SEISMIC SYSTEM EVENT OR TROUBLE" (6D2) and evaluation of earthquake magnitude from seismic recorder on Panel H11-P831 (Relay Room)	
	<u>or</u>	
	2. <u>Flood Warning</u>	
	Control Room informed by plant personnel who have made a visual sighting of high water levels	
	<u>and</u>	
	Lake water level exceeding 583.0 ft.	
	<u>or</u>	
	3. <u>Tornado On-Site</u>	
	Control Room informed by plant personnel who have made a visual sighting of a tornado crossing the site boundary	
	<u>or</u>	
	4. <u>Sustained Winds</u>	
	Average wind velocity >75 mph for >15 minutes on 60-Meter or 10-Meter wind speed indicators on the Meteorological Tower	

Condition	Indication(s)	Emergency Classification
Severe Natural Phenomenon being experienced or projected	1. <u>Earthquake > Operating Basis Earthquake (OBE) level of 0.08g</u> Annunciator "SEISMIC SYSTEM EVENT OR TROUBLE" (6D2) and evaluation of earthquake magnitude from seismic recorder on Panel H11-P831 (Relay Room)	Alert (EP-103)
	<u>or</u>	
	2. <u>Flood Approaching Design Level of 586.9 ft.</u> Control Room informed by plant personnel who have made a visual sighting of high water levels	
	<u>and</u> Lake water level exceeding 585.0 ft.	
	<u>or</u>	
	3. <u>Tornado Striking Facility</u> Tornado observed striking Reactor Building or RHR Complex	
	<u>or</u>	
	4. <u>Storm Winds Approaching Design Basis Level of 90 mph</u> Average wind velocity >85 mph for > 15 minutes on 60-Meter or 10-Meter wind speed indicators on the Meteorological Tower	

Condition	Indication(s)	Emergency Classification
Severe Natural Phenomenon being experienced or projected with plant not in cold shutdown	1. <u>Earthquake > Safe Shutdown Earthquake (SSE) Level of 0.15g</u> Annunciator "SEISMIC SYSTEM EVENT OR TROUBLE" (6D2) and evaluation of earthquake magnitude from seismic recorder on Panel H11-P831 (Relay Room)	Site Area Emergency (EP-104)
	<u>or</u>	
	2. <u>Flood > Design Level</u> Control Room informed by plant personnel who have made a visual sighting of flood	
	<u>and</u> Lake water level exceeding 586.9 ft.	
	<u>or</u>	
	3. <u>Tornado Striking/Damaging Facility</u> Tornado striking Reactor Building, Auxiliary Building Turbine Building, Radwaste Building, RHR Complex and causing significant damage	
	<u>or</u>	
	4. <u>Storm Winds Design Basis Level</u> Sustained wind velocity > 90 mph on 60-Meter or 10-Meter wind speed indicators on the Meteorological Tower	

Condition	Indication(s)	Emergency Classification
Other hazards being experienced or projected	1. <u>Aircraft crash on-site or unusual aircraft activity over facility</u>	Unusual Event (EP-102)
	Control Room informed by plant personnel who have made a visual sighting	
	<u>or</u>	
	2. <u>Explosion near or on-site</u>	
	Control Room informed by plant personnel who have made a visual sighting	
	<u>or</u>	
	3. <u>Toxic or flammable gas release from its container to atmosphere at life threatening levels near or on-site</u>	
	Control Room informed by plant personnel who have discovered it	
	<u>or</u>	
	4. <u>Turbine rotating component failure causing rapid plant shutdown</u>	
	Control Room informed by plant personnel who have made a visual inspection of turbine rotating component	
	<u>or</u>	
	5. <u>Train derailment near or on-site</u>	
	Control Room informed by plant personnel who have made a visual sighting	

Condition	Indication(s)	Emergency Classification
Other hazards being experienced or projected	1. Aircraft crash or missile impact into Reactor Building, Auxiliary Building, Radwaste Building, RHR Complex, Emergency Operations Facility or the Technical Support Center	Alert (EP-103)

Control Room informed by plant personnel who have made a visual sighting

and

Instrument readings on vital systems indicate equipment problems

or

2. On-site explosion affecting plant operations

Control Room informed by plant personnel who have made a visual sighting

and

Instrument readings on plant systems indicate equipment problems

or

Condition	Indication(s)	Emergency Classification
Other hazards being experienced or projected (Continued)	3. Uncontrolled toxic or flammable gas release at life threatening levels into the Reactor Building, Turbine Building, Auxiliary Building, R&R Complex, Emergency Operations Facility or the Technical Support Center	Alert (EP-103)

Control room informed by plant personnel who have made a visual sighting

or

Control Room Ventilation Chlorine detector indicates > 5 ppm chlorine gas in the ventilation systems. Annunciators "DIV I NORMAL AIR INTAKE CHLORINE DETECTED" (8P53) or "DIV II AIR INTAKE CHLORINE DETECTED" (17D61)

and

Annunciators "CIRCULATING WATER PUMP HOUSE CHLORINE SYSTEM TROUBLE" (6D53) or "FERMI I/II GSW CHLORINE SYSTEM LEAK" (7D26)

Condition	Indication(s)	Emergency Classification
Other hazards being experienced or projected	1. Damage from aircraft crash, missile impact or explosion affecting safety systems or functions	Site Area Emergency (EP-104)
	Control Room informed by plant personnel of any aircraft/ missile impact or explosion affecting safety system equipment	
	<u>and</u>	
	Inspection of safety system equipment verifies damage to equipment	
	<u>or</u>	
	2. Uncontrolled toxic gas release at life threatening levels into areas containing nuclear safety systems or engineering safety features	
	Control Room informed by plant personnel who have made a visual sighting of a potential source of toxic gas	
	<u>or</u>	
	Control Room ventilation chlorine detector indicates > 5ppm chlorine gas in the ventilation systems. Annunciators "DIV I NORMAL AIR INTAKE CHLORINE DETECTED" (8D53) or "DIV II NORMAL AIR INTAKE CHLORINE DETECTED" (17D61)	
	<u>and</u>	
	Annunciators "CIRCULATING WATER PUMP HOUSE CHLORINE SYSTEM TROUBLE" (6D53) or FERMI I/II GSW CHLORINE SYSTEM LEAK" (7D26)	
	<u>and</u>	

Condition	Indication(s)	Emergency Classification
Other hazards being experienced or projected (Continued)	Control Room HVAC system inoperable in the chlorine mode	Site Area Emergency (EP-104)

Condition	Indication(s)	Emergency Classification
Uncontrolled plant fire	1. Plant fire not brought under control by automatic fire suppression systems or plant personnel within 10 minutes	Unusual Event (EP-102)
	<u>or</u> 2. Any fire at the plant that requires off-site support	

Condition	Indication(s)	Emergency Classification
Uncontrolled fire potentially affecting safety systems	Plant fire not brought under control by automatic fire suppression systems or plant personnel within 10 minutes	Alert (EP-103)

and

Fire with potential to affect
nuclear safety systems or
engineered safety features

Condition	Indication(s)	Emergency Classification
Fire Compromising functions of safety systems	Major fire compromising functions of safety systems	Site Area Emergency (EP-104)

LOSS OF FISSION PRODUCT BARRIERS

<u>CONDITION</u>	<u>PAGE</u>
o FUEL DAMAGE INDICATION	2
o SEVERE LOSS OF FUEL CLADDING	3
o DEGRADED CORE WITH POSSIBLE LOSS OF COOLABLE GEOMETRY	4
o LOSS OF TWO FISSION PRODUCT BARRIERS WITH POTENTIAL LOSS OF THE THIRD BARRIER	5

Condition	Indication(s)	Emergency Classification
Fuel Damage Indication	1. High off gas activity at SJAE (later cps), as indicated by Off Gas PRMS recorder on Panel H11-P812 (back panel)	Unusual Event (EP-102)
	<u>or</u>	
	2. An increase in off gas activity of (later cps) in 30 minutes or less, as indicated by Off Gas PRMS recorder on Panel H11-P812 (back panel)	
	<u>or</u>	
	3. Reactor water sample analysis results indicate high reactor coolant activity:	
	A. > 4.0 uCi/gram dose equivalent I-131	
	<u>or</u>	
	B. $100/\bar{E}$ uCi/gram specific activity	

Condition	Indication(s)	Emergency Classification
Severe Loss of Fuel Cladding	1. High off gas activity at SJAE (later cps), as indicated by Off Gas PRMS recorder on Panel H11-P812 (back panel)	Alert (EP-103)
	<u>or</u>	
	2. Reactor water sample analysis results indicate very high reactor coolant activity of > 300 uCi/gram dose equivalent I-131	
	<u>or</u>	
	3. High Main Steam Line radiation > 3.6 times full power background (later), as indicated by Annunciator "MAIN STEAM LINE RADIATION UPSCALE/INOP CHANNEL TRIP" (3D82) and Main Steam Line PRMS recorder on Panel H11-P812 (back panel)	

Condition	Indication(s)	Emergency Classification
Degraded Core with possible loss of coolable geometry	A. Reactor water level <TAF, as indicated by Reactor Water Level indicators on Panels H11-P601/602 <u>and</u> B. Degraded core as indicated by: Main Steam Line radiation >3.6 times full power background (later), as indicated by Annunciator "MAIN STEAM LINE RADIATION UPSCALE/INOP CHANNEL TRIP" (3D82) and Main Steam Line PRMS recorder on Panel H11-P812 (back panel) <u>or</u> Reactor water sample analysis results indicate very high reactor coolant activity of >300 uCi/gram dose equivalent I-131 <u>or</u> Both Containment High Range Radiation monitors (CHRRMS) onscale (> later Rads/hr) <u>or</u> Containment high radiation as verified by a portable instrument reading of (later) on (later) (Containment High Range Radiation Monitors Inoperable)	Site Area Emergency (EP-104)

Condition	Indication(s)	Emergency Classification
Loss of two fission product barriers with potential loss of the third barrier	<p>1. Failure of fuel cladding and reactor coolant boundary with potential loss of primary containment, as indicated by the following:</p> <p>A. Fuel cladding failure indicated by:</p> <p>Reactor coolant activity > 300 uCi/gm dose equivalent I-131, according to reactor coolant sample analysis</p> <p><u>or</u></p> <p>High Off Gas activity at Steam Jet Air Ejector (later cps), as indicated by Off Gas PRMS recorder on Panel H11-P601</p> <p><u>or</u></p> <p>High Main Steam Line Radiation > 3.6 times full power background, as indicated by Annunciator "MAIN STEAM LINE RADIATION UPSCALE/INOP CHANNEL TRIP" (3D82) and Main Steam Line PRMS recorder on Panel H11-P812 (back panel)</p> <p><u>and</u></p> <p>B. Loss of coolant boundary as indicated by:</p> <p>High drywell temperature > 138°F and increasing, as indicated on Panel H11-P601 or H11-P602</p> <p><u>or</u></p>	General Emergency (EP-105)

Condition	Indication(s)	Emergency Classification
Loss of two fission product barriers with potential loss of the third barrier (Continued)	High drywell pressure >1.93 psig, as indicated by pressure indicator on Panel H11-P601 or Panel H11-P602 <u>or</u> Primary Containment High Range Radiation Monitoring system upscale, as indicated by CHRRMS monitors on Panel H11-P812 (back panel) <u>and</u> C. Potential loss of containment integrity as indicated by: Drywell pressure >56.5 psig on Drywell Pressure indicator on Panel H11-601 or Panel H11-P602 <u>or</u> Drywell temperature >340°F, as indicated on Panel H11-P601 or H11-P602 <u>or</u> Containment Atmosphere H ₂ >4% and O ₂ >3.5% <u>or</u> 2. Failure of fuel cladding and primary containment with potential loss of reactor coolant boundary, as indicated by the following: A. Fuel cladding failure as indicated by: Primary coolant activity >300 uCi/gm dose equivalent I-131	General Emergency (EP-105)

Condition	Indication(s)	Emergency Classification
Loss of two fission product barriers with potential loss of the third barrier (Continued)	<u>or</u> High Main Steam Line radiation > 3.6 times full power background as indicated by Annunciator "MAIN STEAM LINE RADIATION UPSCALE/INOP CHANNEL TRIP" (3D82) and Main Steam Line PRMS recorders on Panel H11-P812 (back panel)	General Emergency (EP-105)
	<u>and</u>	
	B. Loss of containment integrity as indicated by: Status indicates all primary containment penetrations required for isolation not valved off or closed (single valve criteria), according to valve position indication on Panels H11-P601/H11-P808/H11-P817/H11-P607	
	<u>and</u>	
	C. Potential Loss of reactor coolant boundary as indicated by: Reactor pressure > 1101 psig, as indicated by Reactor Vessel Steam Dome Pressure indicator on Panel H11-P601/602/603	
	<u>or</u>	
	3. Failure of reactor coolant boundary and primary containment with potential loss of fuel cladding, as indicated by the following:	

Condition	Indication(s)	Emergency Classification
Loss of two fission product barriers with potential loss of the third barrier (Continued)	A. Loss of containment integrity as indicated by: Status indicates all containment penetrations required for isolation not valved off or closed (single valve criteria), according to Valve Position indication on Panels H11-P601/H11-P808/H11-P817/H11-P607 <u>and</u> B. Loss of reactor coolant boundary as indicated by: Drywell temperature > 138°F and increasing, as indicated on Panel H11-P601 or Panel H11-P602 <u>or</u> Drywell pressure > 1.93 psig, as indicated on Panel H11-P601 or Panel H11-P602 <u>or</u> Failure of all MSIV's in a Main Steam Line to isolate according to MSIV Valve Position indicator on Panel H11-P601 and H11-P602 <u>or</u> Major steam leak outside of primary containment without isolation	General Emergency (EP-105)

Condition	Indication(s)	Emergency Classification
Loss of two fission product barriers with potential loss of the third barrier (Continued)	<u>and</u> C. Potential loss of fuel cladding as indicated by: Reactor water level <TAF and decreasing, according to Reactor Water Level indicators on Panel H11-P601/ 602	General Emergency (EP-105)

SECURITY COMPROMISE

<u>CONDITION</u>	<u>PAGE</u>
o SECURITY THREAT OR ATTEMPTED ENTRY OR ATTEMPTED SABOTAGE	2
o ONGOING SECURITY COMPROMISE	3
o IMMINENT LOSS OF PHYSICAL CONTROL OF THE PLANT	4
o LOSS OF PHYSICAL CONTROL OF THE PLANT	5

Condition	Indication(s)	Emergency Classification
Security Threat, Attempted Entry or Sabotage	Report by a senior member of the Security Force of a security contingency event	Unusual Event (EP-102)

Condition	Indication(s)	Emergency Classification
Ongoing Security Compromise	Report by a senior member of the Security Force that adversaries are command- eering an area of the plant, but not controlling shut- down capability, or any areas containing nuclear safety systems or engineered safety features	Alert (EP-103)

Condition	Indication(s)	Emergency Classification
Imminent loss of physical control of the plant	Physical attack on the plant involving imminent occupancy of the Control Room, Remote Shutdown Panels or other areas containing nuclear safety systems or engineered safety features	Site Area Emergency (EP-104)

Condition	Indication(s)	Emergency Classification
Loss of physical control of the plant	Physical attack on the plant which has resulted in unauthorized personnel occupying the Control Room, Remote Shutdown Panels, or any other areas containing nuclear safety or engineered safety features	General Emergency (EP-105)

HIGH RADIATION OR CONTAMINATION LEVELS WITHIN FACILITY

<u>CONDITION</u>	<u>PAGE</u>
o SIGNIFICANT INCREASE IN RADIATION OR AIRBORNE ACTIVITY LEVELS	2
o EVACUATION OF CONTROL ROOM	3
o DOSE RATES ON-SITE > 1 REM/HR WHOLE BODY OR > 5 REM/HR THYROID	4
o EVACUATION OF CONTROL ROOM (CONTROL NOT ESTABLISHED LOCALLY WITHIN 15 MINUTES)	5

Condition	Indication(s)	Emergency Classification
Significant increase in radiation or airborne activity levels	1. Any area Radiation Monitors, Channels 1-48 offscale, as indicated on Panel H11-P816 and radiation levels verified by survey or sample and analysis by Health Physics personnel	Alert (EP-103)
	<u>or</u> 2. An increase in airborne radio- activity levels in occupied plant areas of 1000 times normal levels, as indicated by continuous air monitors, or sampling and analysis by Health Physics personnel	

Condition	Indication(s)	Emergency Classification
Evacuation of Control Room	Any evacuation of the Control Room due to high radiation with control of shutdown systems established within 15 minutes at Remote Shutdown Panel	Alert (EP-103)

Condition	Indication(s)	Emergency Classification
Dose rates on-site > 1 Rem/hr Whole Body or > 5 Rem/hr Thyroid in normally occupied areas of the plant	Any area monitor or air- borne monitor alarms <u>and</u> Radiation surveys by Health Physics personnel indicate a dose rate of > 1 Rem/hr Whole Body or > 5 Rem/hr Thyroid in normally occupied areas of the plant	Site Area Emergency (EP-104)

Condition	Indication(s)	Emergency Classification
Evacuation of Control Room and control not esta- blished locally within 15 minutes	Any evacuation of the Control Room due to high radiation with control of shutdown systems not established locally within 15 minutes	Site Area Emergency (EP-104)

PERSONNEL INJURY

CONDITION

PAGE

- o CONTAMINATED INJURED INDIVIDUALS REQUIRING
OFF-SITE MEDICAL TREATMENT

2

Enclosure
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Condition	Indication(s)	Emergency Classification
Transportation of contaminated injured individ- ual(s) from the facility to an off-site medical facility	Information from field survey teams indicated external contamination on skin or hair of injured person \geq 1000 dpm <u>and</u> Injury requiring off-site medical treatment prior to decontamination	Unusual Event (EP-102)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: UNUSUAL EVENT

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 67/18/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational
Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear
Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
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7					*			
8					*			

Revised by: Karen Nutt (RERP #2)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: UNUSUAL EVENT

Prepared by	<u>E. F. Madsen</u>	<u>07/18/83</u> Date
Recommended by	<u>Donald J. MacKenzie</u> Communication System Division	<u>8-18-83</u> Date
Recommended by	<u>James L. Jones</u> Community & Government Affairs	<u>8-18-83</u> Date
Recommended by	<u>OK for LE Schuerman</u> Licensing	<u>8/19/83</u> Date
Recommended by	<u>Walter H. Duncan</u> Medical Staff	<u>8/18/83</u> Date
Recommended by	<u>James M. DuBay</u> Nuclear Administration	<u>8-18-83</u> Date
Recommended by	<u>Gregg R. Durbach</u> Nuclear Production	<u>8-23-83</u> Date
Recommended by	<u>Karen K. Thompson</u> Nuclear Training	<u>8-18-83</u> Date
Recommended by	<u>Bert Hefner</u> Public Information	<u>8-18-83</u> Date
Recommended by	<u>Mark G. Gendall for SHL</u> Security	<u>8-18-83</u> Date
Recommended by	<u>Maurice L. Vermeulen</u> Wayne-Monroe Division	<u>8/18/83</u> Date
Approved by	<u>Thomas Randazzo</u> RERP Committee Chairperson	<u>8/18/83</u> Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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6.0 Follow-Up Action	4

Enclosure

Emergency Response Team Procedure Index	Enclosure 1
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Attachment

UNUSUAL EVENT Check-Off List	Attachment 1
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1.0 Purpose

The purpose of this procedure is to provide a guide for actions to be taken when an emergency condition has been classified as an UNUSUAL EVENT as defined below:

Unusual events are in process or have occurred which indicate a potential degradation of the level of safety of the plant. No releases of radioactive material requiring off-site response or monitoring are expected unless further degradation of safety systems occurs.

The purpose of off-site notification is to:

- o Assure that the first step in any response later found to be necessary has been carried out.
- o Bring the operating staff to a state of readiness.
- o Provide systematic handling of unusual events information and decision making.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant, Unit 2, Radiological Emergency Response Preparedness Plan, Section D
- *2.2 Classification of Emergencies (EP-101)
- *2.3 Unusual Event (EP-102)
- *2.4 Alert (EP-103)
- *2.5 Site Area Emergency (EP-104)
- *2.6 General Emergency (EP-105)
- 2.7 Organization and Responsibilities (EP-110)
- *2.8 On-Site Radiological Emergency Team: Functions (EP-201-2)
- *2.9 Off-Site Radiological Emergency Team: Functions (EP-210-2)
- *2.10 Emergency Notifications from the Control Room, Technical Support Center, or Emergency Operations Facility (EP-290)
- *2.11 Fermi 2 On-Call Plant Supervisor: Emergency Notifications (EP-291)

*Denotes "Use" Reference

- *2.12 Re-entry (EP-401)
- *2.13 Recovery (EP-402)
- *2.14 Assembly, Accountability, and Evacuation (EP-530)
- *2.15 Manual Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases - Overview (EP-540)
- *2.16 Manual Off-Site Dose Assessment Calculational Procedure - Waterborne Releases (EP-541)
- *2.17 "Apple" Computer Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases (EP-542)
- *2.18 Computer Dose Assessment Calculational Procedure - Waterborne Releases (EP-543)
- *2.19 Meteorological Data Assessment (EP-544)
- *2.20 Potassium Iodide (69.000.11)

3.0 Entry Conditions

An emergency condition has been classified as an UNUSUAL EVENT in accordance with EP-101.

NOTE: The classification of an emergency will not always progress in an orderly manner from UNUSUAL EVENT through GENERAL EMERGENCY. Procedures EP-102, 103, 104, and 105 can be used independent of each other.

4.0 General Information

- 4.1 Ultimate responsibility for assessment of emergency conditions and for directing protective actions rests with the Emergency Director. The judgment of the Emergency Director is paramount in proper control of the emergency and may take precedence over guidelines in this procedure.
- 4.2 Emergency notifications of government agencies are provided for in Step 5.3 of this procedure. State and local government agencies must be notified within 15 (fifteen) minutes of declaration of the emergency, and the NRC within 1 (one) hour.
- 4.3 The UNUSUAL EVENT Check-off List (Attachment 1) is a helpful guide in ensuring all applicable steps of this procedure are completed.

*Denotes "Use" Reference

- 4.4 The Nuclear Shift Supervisor shall continue to act as Emergency Director until relieved of this responsibility by the Superintendent-Nuclear Production, or alternate, or until the emergency situation is terminated. The Nuclear Shift Supervisor shall remain in the plant to supervise plant operations.

5.0 Immediate Actions

NOTE: The steps in this procedure can be carried out in any order. However, the following order is recommended.

- 5.1 Inform plant personnel, including Security, of the emergency classification.
- 5.2 Notify the Fermi 2 On-Call Plant Supervisor of the emergency situation using EP-290. The Fermi 2 On-Call Plant Supervisor will notify additional DECo Emergency Organization personnel and augment in accordance with EP-291, Fermi 2 On-Call Plant Supervisor: Emergency Notifications.
- 5.3 Notify Monroe County, State of Michigan and the Nuclear Regulatory Commission of the emergency situation using EP-290.
- 5.4 Activate the Emergency Teams as necessary to respond to the emergency condition (see Enclosure 1). Off-shift personnel may be called in to supplement the teams.

The following information shall be given to the Emergency Team Leaders:

- 5.4.1 Suspected cause of the emergency situation.
- 5.4.2 Areas with abnormal personnel hazards.
- 5.4.3 Other Emergency Teams which are activated.
- 5.4.4 Pertinent plant line-ups and corrective actions taken by the Emergency Director.
- 5.4.5 Any other information which may be useful to the Team Leader in performing the team functions.
- 5.5 If off-site emergency support is necessary from any of the following:
- 5.5.1 Frenchtown Volunteer Fire Department, or
- 5.5.2 EMTS Ambulance Service, or
- 5.5.3 Seaway Hospital,
- notifications are made in accordance with EP-290.

- 5.6. An evacuation of unnecessary personnel from those areas with actual or potential personnel hazards may be ordered in accordance with EP-530 (Assembly, Accountability and Evacuation). All evacuated personnel within the Protected Area must be accounted for by Security within 30 minutes of the evacuation order.
- 5.7 If there is a potential for the release of radiological materials greater than technical specification limits:
- 5.7.1 Have radiological sampling conducted in accordance with EP-201-2 (On-Site RET: Functions) and/or EP-210-2 (Off-Site RET: Functions) as applicable.
 - 5.7.2 Estimate the off-site dose in accordance EP-540, 541, 542, or 543 and 544.
 - 5.7.3 Order on-site protective actions (use of protective equipment, use of potassium iodide according to Health Physics Procedure 69.000.11, and/or evacuation) as necessary.
 - 5.7.4 If a significant radiological hazard exists off-site or at the site boundary, reclassify the emergency, (Steps 5.1.5 and 5.2.1, EP-101) and, if necessary, recommend protective actions for the public to the State of Michigan in accordance with EP-545 (Protective Action Recommendation Guidelines).

6.0 Follow-up Actions

- 6.1 Direct the Fermi 2 On-Call Plant Supervisor to augment Emergency Organization personnel utilizing EP-291 (Emergency Notifications).
- 6.2 Ensure that the follow-up actions of applicable Abnormal and Emergency Operating Procedures are performed.
- 6.3 Continue to assess the plant conditions. Direct corrective actions as necessary to bring the emergency under control and mitigate the consequences. If significant changes in the emergency situation occur, carry out Steps 5.1.5 and 5.2.1 of EP-101 (Classification of Emergencies).
- 6.4 Continue to monitor the progress of Emergency Teams in controlling the emergency. Ensure that additional personnel support and equipment are made available as necessary.
- 6.5 Periodically make follow-up status reports to on-shift personnel. Ensure that all operations personnel and emergency response personnel are kept apprised of personnel hazards, plant line-ups, corrective actions, and steps taken to control or mitigate the emergency.

- 6.6 Periodically make follow-up reports to the State of Michigan, Monroe County, the Nuclear Regulatory Commission and the Fermi 2 On-Call Plant Supervisor using EP-290.
- 6.7 Establish a long term relief rotation to ensure personnel are not required to remain at their assigned positions for an excessive period of time (normally not greater than 12 hours).
- 6.8 The emergency situation may be terminated if:
 - 6.8.1 Release of radioactive materials has ceased and radiation levels in the off-site environment are at or near background levels.
 - 6.8.2 No further potential exists for uncontrolled releases of radioactive materials to the environment.
 - 6.8.3 The reactor and associated systems are in a stable, safe condition.
 - 6.8.4 Termination of the emergency will not adversely impact off-site protective actions that are in progress.
- 6.9 If the emergency situation is terminated:
 - 6.9.1 A verbal summary of closeout shall be provided to the State of Michigan, Monroe County, and the Nuclear Regulatory Commission followed by a written summary within 24 hours.
 - 6.9.2 Carry out EP-401 (Re-entry) and EP-402 (Recovery) as applicable.

EMERGENCY RESPONSE TEAMS PROCEDURE INDEX

ON-SITE RADIOLOGICAL EMERGENCY TEAM:

Activation (EP-201-1)
Functions (EP-201-2)

ON-SITE PERSONNEL MONITORING TEAM:

Activation (EP-202-1)
Functions (EP-202-2)

FIRE BRIGADE:

Activation (EP-203-1)
Fire Involving Radiological Hazards (EP-203-2)

DAMAGE CONTROL AND RESCUE TEAM:

Activation (EP-204-1)
Functions (EP-204-2)

OFF-SITE RADIOLOGICAL EMERGENCY TEAM:

Activation (EP-210-1)
Functions (EP-210-2)

OFF-SITE PERSONNEL MONITORING TEAM

Activation (EP-202-3)
Functions (EP-202-4)

UNUSUAL EVENT CHECK-OFF LIST

IMMEDIATE ACTIONS

1. ☐ On-shift personnel notified.
2. ☐ Security notified.
3. ☐ On-Call Plant Supervisor notified.
4. ☐ Government agencies notified.
 - a) ☐ Michigan State Police
 - b) ☐ Monroe County Sheriff
 - c) ☐ NRC Operations Center
 - d) ☐ Other
5. ☐ Necessary emergency teams activated.
☐
☐
☐
☐
6. ☐ Off-site emergency support requested.
 - a) ☐ Frenchtown Volunteer Fire Department
 - b) ☐ Ambulance Service
 - c) ☐ Seaway Hospital
7. ☐ Evacuation of affected areas on-site ordered.
8. ☐ Radiological release involved.
 - a) ☐ Radiological sampling ordered
 - b) ☐ Off-site dose projected (estimated)
9. ☐ Protective actions ordered on-site.
10. ☐ Protective actions recommended off-site.

UNUSUAL EVENT CHECK-OFF LIST

FOLLOW-UP ACTIONS

1. ☐ TSC placed on standby.
2. ☐ Additional Control Room personnel placed on standby.
3. ☐ Follow-up actions of Abnormal and Emergency Operating Procedures completed.
4. ☐ Assess plant conditions and reclassify if necessary.
5. ☐ Follow-up reports completed.
 - a) ☐ On-shift personnel
 - b) ☐ On-Call Plant Supervisor
 - c) ☐ Michigan State Police
 - d) ☐ Monroe County Sheriff
 - e) ☐ NRC
 - f) ☐ Other
6. ☐ Long term organization established.
7. ☐ Emergency terminated.
8. ☐ Closeout summary completed.
 - a) ☐ Michigan State Police
 - b) ☐ Monroe County Sheriff
 - c) ☐ NRC
 - d) ☐ Other
9. ☐ Re-entry/Recovery initiated, if formally required.

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ALERT

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 07/18/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational
Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear
Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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Revised by: Sandra Chittum (RERP #2)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ALERT

Prepared by	<u>E. F. Madsen</u>	<u>7-18-83</u>
		Date
Recommended by	<u>Donald J. MacKenzie</u>	<u>8-18-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	<u>8-18-83</u>
	Community & Government Affairs	Date
Recommended by	<u>McEath for LE Schuerman</u>	<u>8/19/83</u>
	Licensing	Date
Recommended by	<u>Harriet A. Duncan</u>	<u>8/18/83</u>
	Medical Staff	Date
Recommended by	<u>James M. DuBay</u>	<u>8-18-83</u>
	Nuclear Administration	Date
Recommended by	<u>Gregg A. Overbeck</u>	<u>8-23-83</u>
	Nuclear Production	Date
Recommended by	<u>Karen K. Thompson</u>	<u>8-18-83</u>
	Nuclear Training	Date
Recommended by	<u>Best Hiffer</u>	<u>8-18-83</u>
	Public Information	Date
Recommended by	<u>McEath for LE Schuerman</u>	<u>8-18-83</u>
	Security	Date
Recommended by	<u>Maurice L. Vermorel</u>	<u>8/18/83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Pandaygo</u>	<u>8/18/83</u>
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

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Enclosures

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Attachments

ALERT Check-off List.	Attachment 1
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1.0 Purpose

The purpose of this procedure is to provide a guide for actions to be taken when an emergency condition has been classified as an ALERT as defined below:

Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels.

The purpose of off-site ALERT is to

- o Assure that emergency personnel are readily available to respond if situation becomes more serious or to perform confirmatory radiation monitoring if required
- o Provide off-site authorities current status information.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant, Unit 2 Radiological Emergency Response Preparedness Plan, Section D
- *2.2 Classification of Emergencies (EP-101)
- *2.3 Unusual Event (102)
- *2.4 Alert (103)
- *2.5 Site Area Emergency (104)
- *2.6 General Emergency (105)
- 2.7 Organization and Responsibilities (EP-110)
- *2.8 On-Site Radiological Emergency Team Functions (EP-201-2)
- *2.9 Off-Site Radiological Emergency Team Functions (EP-210-2)
- *2.10 Emergency Notifications from the Control Room, Technical Support Center, or Emergency Operations Facility (EP-290)
- *2.11 Fermi 2 On-Call Plant Supervisor - Emergency Notifications (EP-291)
- 2.12 Technical Support Center - Activation (EP-301-1)
- 2.13 Operational Support Center - Activation (EP-302-1)
- *2.14 Re-entry (401)

*Denotes "Use" Reference

- *2.15 Recovery (402)
- *2.16 Assembly, Accountability and Evacuations (EP-530)
- *2.17 Manual Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases - Overview (EP-540)
- *2.18 Manual Off-Site Dose Assessment Calculational Procedure - Waterborne Releases (EP-541)
- *2.19 "Apple" Computer Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases (EP-542)
- *2.20 Computer Dose Assessment Calculational Procedure - Waterborne Releases (EP-543)
- *2.21 Meteorological Data Assessment (EP-544)
- *2.22 Protective Action Recommendations Guidelines (EP-545)
- *2.23 Potassium Iodide (69.000.11)

3.0 Entry Conditions

An emergency condition has been classified as an ALERT in accordance with EP-101.

NOTE: The classification of an emergency will not always progress in an orderly manner from UNUSUAL EVENT through GENERAL EMERGENCY. Procedures EP-102, 103, 104, and 105 can be used independent of each other.

4.0 General Information

- 4.1 Ultimate responsibility for assessment of plant emergency conditions and for directing corrective actions rests with the Emergency Director. The judgment of the Emergency Director is paramount in proper control of the emergency and may take precedence over guidelines in this procedure.
- 4.2 Emergency notifications to government agencies are provided for in Step 5.3 of this procedure. State, local, and Canadian government agencies must be notified within 15 (fifteen) minutes of declaration of the emergency, and the NRC within 1 (one) hour.
- 4.3 The ALERT Check-Off List (Attachment 1) is a helpful guide to ensuring all applicable steps of this procedure are completed.
- 4.4 The Nuclear Shift Supervisor shall continue to act as Emergency Director until relieved of this responsibility by the

Denotes "Use" Reference

Superintendent-Nuclear Production, or alternate, or until the emergency situation is terminated.

- 4.4.1 When the Plant Superintendent, or alternate, relieves the Nuclear Shift Supervisor and the Technical Support Center (TSC) is functional, the functions of the Emergency Director shall be shifted to the TSC, including notification, dose assessment, and protective action recommendations.
- 4.4.2 The Nuclear Shift Supervisor shall remain in the plant to supervise plant operations.

5.0 Immediate Actions

NOTE: If the emergency has been upgraded from an UNUSUAL EVENT, some of these sections may have already been implemented. This procedure can be carried out in any order. However, the following sequence is recommended.

- 5.1 Inform plant personnel, including Security, of the emergency classification.
- 5.2 Notify the Fermi 2 On-Call Plant Supervisor of the emergency situation using EP-290. The Fermi 2 On-Call Plant Supervisor will notify additional DECo Emergency Organization personnel in accordance with EP-291.

NOTE: As the Technical Support Center is activated, transfer control of all emergency response activities not directly related to plant operation to the Technical Support Center. This may take place anytime during the execution of this procedure. If the primary TSC location is not habitable, determine which functions will be moved to the Control Room and which functions will be assigned to the EOF. Have signs hung on the doors of the TSC indicating that personnel are to proceed to the alternate location.

- 5.3 Notify Monroe County, State of Michigan, Canada, the Nuclear Regulatory Commission, and American Nuclear Insurers of the emergency situation using EP-290.
- 5.4 Activate the Operational Support Center (OSC) and dispatch Emergency Teams as necessary to respond to the emergency conditions (see Enclosure 1). Off-shift personnel may be called in to supplement the teams.

NOTE: If the primary OSC location is not habitable, activate the alternate OSC location. Hang signs on the OSC

doors indicating that personnel are to proceed to the alternate location.

The following information shall be given to the Emergency Team Leaders:

- 5.4.1 Suspected cause of the emergency situation.
 - 5.4.2 Areas with abnormal personnel hazards.
 - 5.4.3 Other Emergency Teams which are activated.
 - 5.4.4 Pertinent plant line-ups and corrective actions taken by the Emergency Director.
 - 5.4.5 Any other information which may be useful to the Team Leader in performing the team functions.
- 5.5 If off-site emergency support is necessary from any of the following;
- 5.5.1 Frenchtown Volunteer Fire Department, or
 - 5.5.2 Ambulance Service, or
 - 5.5.3 Seaway Hospital,
- notifications are made in accordance with EP-290.
- 5.6 Order an evacuation of unnecessary personnel from the Protected Area and an accountability in accordance with EP-530 (Assembly, Accountability and Evacuation). All personnel within the Protected Area must be accounted for within 30 minutes of the evacuation order.
- 5.7 If there is a potential for a release of radiological effluent greater than technical specification limits:
- 5.7.1 Have radiological sampling conducted in accordance with EP-201-2 (On-Site RET: Functions) and/or EP-210-2 (Off-Site RET: Functions), as applicable.
 - 5.7.2 Estimate the on-site and off-site dose in accordance with EP-540, 541, 542, or 543 and 544.
 - 5.7.3 If an on-site radiological hazard exists, order protective actions (use of protective equipment, use of potassium iodide according to Health Physics Procedure 69.000.11, and/or evacuation) as necessary.
 - 5.7.4 If a significant radiological hazard exists off-site or at the site boundary, reclassify the emergency, (Steps

5.1.5 and 5.2.1, EP-101) and, if necessary, recommend actions for the public to the State of Michigan, in accordance with EP-545 (Protective Action Recommendations Guidelines).

6.0 Follow-up Actions

- 6.1 Direct the Fermi 2 On-Call Plant Supervisor to augment Emergency Organization personnel utilizing EP-291.
- 6.2 Ensure that the follow-up actions of applicable Abnormal and Emergency Operating Procedures are performed.
- 6.3 Continue to assess the plant conditions. Direct corrective actions as necessary to bring the emergency under control and mitigate the consequences. If significant changes in the emergency situation occur, carry out Steps 5.1.5 and 5.2.1 of EP-101 (Classification of Emergencies).
- 6.4 Continue to monitor the progress of Emergency Teams in controlling the emergency. Ensure that additional personnel support and equipment are made available as necessary.
- 6.5 Periodically make follow-up status reports to on-shift personnel. Ensure that all operations personnel and emergency response personnel are kept apprised of personnel hazards, plant line-ups, corrective actions, and steps taken to control or mitigate the emergency.
- 6.6 Until the TSC is activated, periodically make follow-up reports to the State of Michigan, Monroe County, the Nuclear Regulatory Commission and Fermi 2 On-Call Plant Supervisor using EP-290. If the TSC is functional, the Administrative and Support Coordinator will assume the duties of the On-Call Plant Supervisor under EP-291.
- 6.7 Establish a long term relief rotation to ensure personnel are not required to remain at their assigned positions for an excessive period of time (normally not greater than 12 hours).
- 6.8 The Emergency Director may downgrade the emergency classification to an UNUSUAL EVENT if the plant conditions no longer meet the Emergency Action Levels (EP-101) for an ALERT.
- 6.9 The emergency situation may be terminated if:
 - 6.9.1 Release of radioactive materials has ceased and radiation levels in the off-site environment are at or near background levels.

- 6.9.2 No further potential exists for uncontrolled releases of radioactive materials to the environment.
 - 6.9.3 The reactor and associated systems are in a stable, safe condition.
 - 6.9.4 Termination of the emergency will not adversely impact off-site protective actions that are in progress.
- 6.10 If the emergency classification is downgraded or if the emergency is terminated:
- 6.10.1 A verbal summary of the downgrade or closeout shall be provided to the State of Michigan, Monroe County, and the Nuclear Regulatory Commission followed by a written summary within 8 hours.
 - 6.10.2 Carry out EP-401 (Re-entry) and EP-402 (Recovery) as applicable.

EMERGENCY RESPONSE TEAMS PROCEDURE INDEX

ON-SITE RADIOLOGICAL EMERGENCY TEAM:

Activation (EP-201-1)
Functions (EP-201-2)

ON-SITE PERSONNEL MONITORING TEAM:

Activation (EP-202-1)
Functions (EP-202-2)

FIRE BRIGADE:

Activation (EP-203-1)
Fire Involving Radiological Hazards (EP-203-2)

DAMAGE CONTROL AND RESCUE TEAM:

Activation (EP-204-1)
Functions (EP-204-2)

OFF-SITE RADIOLOGICAL EMERGENCY TEAM:

Activation (EP-210-1)
Functions (EP-210-2)

OFF-SITE PERSONNEL MONITORING TEAM:

Activation (202-3)
Functions (202-4)

ALERT CHECK-OFF LIST

IMMEDIATE ACTIONS

1. ☐ On-shift personnel notified.
2. ☐ Security notified.
3. ☐ On-Call Plant Supervisor notified.
4. ☐ TSC activated.
5. ☐ OSC activated.
6. ☐ Government agencies notified.
 - a) ☐ Michigan State Police
 - b) ☐ Monroe County Sheriff
 - c) ☐ NRC
 - d) ☐ Canada
 - e) ☐ American Nuclear Insurers
7. ☐ Necessary emergency teams activated.

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8. ☐ Off-site emergency support requested.
 - a) ☐ Frenchtown Volunteer Fire Department
 - b) ☐ EMTS Ambulance Service
 - c) ☐ Seaway Hospital
9. ☐ Evacuation of unnecessary personnel from the Protected Area and accountability performed.
10. ☐ Radiological release involved.
 - a) ☐ Radiological sampling ordered.
 - b) ☐ Off-site dose projected (estimated).
11. ☐ Protective actions ordered on-site.
12. ☐ Protective actions recommended off-site.

ALERT CHECK-OFF LIST

FOLLOW-UP ACTIONS

1. ☐ EOF placed on standby.
2. ☐ Follow-up actions of Abnormal and Emergency Operating Procedures are completed.
3. ☐ Assess plant conditions and reclassify if necessary.
4. ☐ Follow-up reports completed.
 - a) ☐ On-shift personnel
 - b) ☐ On-Call Plant Supervisor
 - c) ☐ Michigan State Police
 - d) ☐ Monroe County Sheriff
 - e) ☐ NRC
 - f) ☐ Other
5. ☐ Long term organization established.
6. ☐ Emergency classification downgraded or the emergency is terminated.
7. ☐ Closeout summary completed.
 - a) ☐ Michigan State Police
 - b) ☐ Monroe County Sheriff
 - c) ☐ NRC
 - d) ☐ Other
8. ☐ Re-entry/Recovery initiated.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SITE AREA EMERGENCY

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 08/09/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational
Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear
Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
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7					*			
8					*			

Revised by: Dolores Fountain (RERP-2)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SITE AREA EMERGENCY

Prepared by	<u>E. F. Madsen</u>	<u>08/09/83</u> Date
Recommended by	<u>Donald J. MacKenzie</u> Communication System Division	<u>8-18-83</u> Date
Recommended by	<u>James L. Jones</u> Community & Government Affairs	<u>8-18-83</u> Date
Recommended by	<u>W. Earl for LE Schuerman</u> Licensing	<u>8/19/83</u> Date
Recommended by	<u>Wayne H. Duccan</u> Medical Staff	<u>8/18/83</u> Date
Recommended by	<u>James M. Dubay</u> Nuclear Administration	<u>8-18-83</u> Date
Recommended by	<u>Gregg A. Durbach</u> Nuclear Production	<u>8-23-83</u> Date
Recommended by	<u>Karen K. Thompson</u> Nuclear Training	<u>8-18-83</u> Date
Recommended by	<u>Bert Heffner</u> Public Information	<u>8-18-83</u> Date
Recommended by	<u>David J. Galla for SHC</u> Security	<u>8-18-83</u> Date
Recommended by	<u>Maurice L. Vermeulen</u> Wayne-Monroe Division	<u>8/18/83</u> Date
Approved by	<u>Thomas Randazzo</u> RERP Committee Chairperson	<u>8/18/83</u> Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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Enclosure

Emergency Response Team Procedure IndexEnclosure 1

Attachment

SITE AREA EMERGENCY Check-off List.Attachment 1

1.0 Purpose

The purpose of this procedure is to provide a guide for actions to be taken when an emergency condition has been classified as a SITE AREA EMERGENCY as defined below.

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

Purpose of the SITE AREA EMERGENCY declaration is to:

- o Assure that response centers are manned.
- o Assure that monitoring teams are dispatched.
- o Assure that personnel required for evacuation of near-site areas are at duty stations if situation becomes more serious.
- o Provide consultation with off-site authorities.
- o Provide updates for the public through off-site authorities.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant - Unit 2, "Radiological Emergency Response Preparedness Plan", Section D
- *2.2 Classification of Emergencies (EP-101)
- *2.3 Unusual Event (EP-102)
- *2.4 Alert (EP-103)
- *2.5 Site Area Emergency (EP-104)
- *2.6 General Emergency (EP-105)
- 2.7 Organization and Responsibilities (EP-110)
- *2.8 On-Site Radiological Emergency Team: Functions (EP-201-2)
- *2.9 Off-Site Radiological Emergency Team: Functions (EP-210-2)
- *2.10 Emergency Notifications from the Control Room, Technical Support Center, or Emergency Operations Facility (EP-290)
- *2.11 Fermi 2 On-Call Plant Supervisor - Emergency Notifications (EP-291)

*Denotes "Use" Reference

- 2.12 Technical Support Center: Activation (EP-301-1)
- 2.13 Operational Support Center: Activation (EP-302-1)
- 2.14 Emergency Operations Facility: Activation (EP-303-1)
- *2.15 Alternate Emergency Operations Facility: Activation (EP-304-1)
- *2.16 Alternate Emergency Operations Facility: Support Functions (EP-304-2)
- *2.17 Re-Entry (401)
- *2.18 Recovery (402)
- *2.19 Assembly, Accountability and Evacuations (EP-530)
- *2.20 Manual Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases - Overview (EP-540)
- *2.21 Manual Off-Site Dose Assessment Calculational Procedure - Waterborne Releases (EP-541)
- *2.22 "Apple" Computer Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases (EP-542)
- *2.23 Computer Dose Assessment Calculational Procedure - Waterborne Releases (EP-543)
- *2.24 Meteorological Data Assessment (EP-544)
- *2.25 Protective Action Recommendations Guideline Procedure (EP-545)
- *2.26 Potassium Iodide (69.000.11)

3.0 Entry Conditions

An emergency condition has been classified as a SITE AREA EMERGENCY in accordance with EP-101.

NOTE: The classification of an emergency will not always progress in an orderly manner from UNUSUAL EVENT through GENERAL EMERGENCY. Procedures EP-102, 103, 104 and 105 can be used independent of each other.

4.0 General Information

- 4.1 Ultimate responsibility for assessment of plant emergency conditions and for directing corrective actions rests with the

*Denotes "Use" Reference

Emergency Director. The judgment of the Emergency Director is paramount in proper control of the emergency and may take precedence over guidelines in this procedure.

- 4.2 Emergency notifications of government agencies are provided in Step 5.3 of this procedure. State, local and Canadian (if not already notified) government agencies must be notified within 15 (fifteen) minutes of recognition of the emergency, and the NRC notified within 1 (one) hour.
- 4.3 The SITE AREA EMERGENCY Check-Off List (Attachment 1) is a helpful guide in ensuring all applicable steps of this procedure are completed.
- 4.4 The Nuclear Shift Supervisor shall continue to act as Emergency Director until relieved of this responsibility by the Superintendent - Nuclear Production, or alternate, or until the emergency situation is terminated.
 - 4.4.1 When the Plant Superintendent (or alternate) relieves the Nuclear Shift Supervisor and the Technical Support Center (TSC) is functional, the functions of the Emergency Director shall be shifted to the TSC, including notification, dose assessment and protective action recommendation.
 - 4.4.2 The Nuclear Shift Supervisor shall remain in the plant to supervise plant operations.
- 4.5 Once the EOF has been activated, the EOF Coordinator shall relieve the Emergency Director of the following responsibilities:
 - 4.5.1 Notification of and communications with federal, state and county agencies.
 - 4.5.2 Off-site radiological surveys and environmental sampling.
 - 4.5.3 Dose assessment/projections, meteorology.
 - 4.5.4 Recommendations to the state regarding appropriate protective actions.
- 4.6 When a SITE AREA EMERGENCY is declared and the EOF is activated, the Vice President - Nuclear Operations (or alternate) becomes the Emergency Officer and shall assume overall responsibility for the emergency response. The Emergency Director and EOF Coordinator report directly to the Emergency Officer. The Emergency Officer shall be directly responsible for providing updates and information to the Joint Public Information Center (JPIC) for dissemination to the press and the public, and shall

make and approve all protective actions that the EOF Coordinator may recommend to the off-site authorities.

5.0 Immediate Actions

NOTE: If the emergency has been upgraded from UNUSUAL EVENT or ALERT, certain steps of these sections may have already been implemented. This procedure can be carried out in any order. However, the following sequence is recommended.

5.1 Inform plant personnel, including Security, of the emergency classification.

5.2 Make notifications of the emergency condition using EP-290. The Fermi 2 On-Call Plant Supervisor will augment and notify additional DECo Emergency Organization personnel in accordance with EP-291. When the TSC is activated, notification under EP-291 will be assumed by the Administrative and Support Coordinator.

NOTE: As the Technical Support Center is activated, transfer control of all emergency response activities not directly related to plant operation to the Technical Support Center. This may take place at anytime during the execution of this procedure. As the EOF is activated, transfer those functions outlined in EP-303-2 to the EOF. If the primary TSC location is not habitable, determine which functions will be moved to the Control Room and which functions will be assumed in the EOF. Have signs hung on the doors of the TSC indicating that the personnel are to proceed to alternate locations.

If the primary EOF is not accessible or habitable, TSC functions assigned to the EOF will be transferred to the alternate EOF, Wayne/Monroe Division Headquarters (EP-304-1 and EP-304-2), together with EOF personnel.

5.3 Notify the State of Michigan, Monroe County, Canada (if not already notified) and the Nuclear Regulatory Commission of the emergency situation using EP-290.

NOTE: If the On-Scene State Emergency Operations Center has been established, all communications to the counties and Canada will be made by the state.

5.4 Activate the Operational Support Center (OSC) and dispatch Emergency Teams as necessary to respond to the emergency conditions (see Enclosure 1). Off-shift personnel may be called in to supplement the teams.

NOTE: If the primary OSC location is not habitable, designate the alternate OSC location. Have signs hung on the OSC doors by indicating that personnel are to proceed to the alternate location.

Unless otherwise instructed, the Emergency Teams will carry out the steps of the applicable Emergency Plan Implementing Procedures (see Enclosure 1).

Relay the following information to the Emergency Team Leaders:

- 5.4.1 Suspected cause of the emergency situation.
 - 5.4.2 Areas with abnormal personnel hazards.
 - 5.4.3 Other Emergency Teams which are activated.
 - 5.4.4 Pertinent plant lineups and corrective actions taken by the Emergency Director.
 - 5.4.5 Any other information which may be useful to the Team Leader in performing the team functions.
- 5.5 If off-site emergency support is required from any of the following;
- 5.5.1 Frenchtown Volunteer Fire Department, or
 - 5.5.2 EMTS Ambulance Service, or
 - 5.5.3 Seaway Hospital,
- notifications are made in accordance with EP-290.
- 5.6 Order an evacuation of unnecessary personnel from the Protected Area, if not already completed, and an assembly and accountability in accordance with EP-530 (Assembly, Accountability and Evacuation). All personnel in the Protected Area must be accounted for within 30 minutes of the evacuation order. Determine if the entire Owner Controlled Area should be evacuated.
- 5.7 If there is a potential for the release of radiological materials greater than technical specification limits:
- 5.7.1 Have radiological sampling conducted in accordance with EP-201-2 (On-Site RET: Functions) and/or EP-210-2 (Off-Site RET: Functions), as applicable.
 - 5.7.2 Estimate the on-site and off-site doses in accordance with EP-540, 541, 542, or 543 and 544.

- 5.7.3 If an on-site radiological hazard exists, order on-site protective actions [use of protective equipment, use of potassium iodide in accordance with Health Physics Procedure 69.000.11, and/or evacuation (see Step 5.6)] as necessary.
- 5.7.4 If necessary, recommend protective actions for the public to the State of Michigan in accordance with EP-545 (Protective Action Recommendation Guidelines).
- 5.8 If a significant radiological hazard exists off-site, reclassify the emergency (Steps 5.1.5 and 5.2.1, EP-101).

6.0 Follow-up Actions

- 6.1 Ensure that the follow-up actions of applicable Abnormal and Emergency Operating Procedures are performed.
- 6.2 Continue to assess the plant conditions. Direct corrective actions as necessary to bring the emergency under control and mitigate the consequences. If significant changes in the emergency situation occur, carry out Steps 5.1.5 and 5.2.1 of EP-101 (Classification of Emergencies).
- 6.3 Continue to monitor the progress of Emergency Teams in controlling the emergency. Ensure that additional personnel support and equipment are made available as necessary.
- 6.4 Periodically make follow-up status reports to on-shift personnel. Ensure all operations personnel and emergency response personnel are kept apprised of personnel hazards, plant lineups, corrective actions and steps taken to control or mitigate the emergency.
- 6.5 Until the TSC or EOF is activated, periodically make follow-up reports to the State of Michigan, Monroe County, the Nuclear Regulatory Commission and Fermi 2 On-Call Plant Supervisor using EP-290. If the TSC is functional, the Administrative and Support Coordinator will assume the duties of the On-Call Plant Supervisor under EP-291.
- 6.6 Establish a long term relief rotation to ensure personnel are not required to remain at their assigned positions for an excessive period of time (normally not greater than 12 hours).
- 6.7 The Emergency Director may downgrade the emergency classification to an ALERT if:
 - 6.7.1 Plant conditions no longer meet the intent of the Emergency Action Levels (EP-101) for a SITE AREA EMERGENCY, and;

- 6.7.2 The actual or potential off-site and on-site radiological hazards are under control or have been eliminated, and;
 - 6.7.3 The Emergency Officer concurs (if the EOF is activated).
- 6.8 The emergency situation may be terminated if:
- 6.8.1 Release of radioactive materials has ceased and radiation levels in the off-site environment are at or near background levels.
 - 6.8.2 No further potential exists for uncontrolled releases of radioactive materials to the environment.
 - 6.8.3 The reactor and associated systems are in a stable, safe condition.
 - 6.8.4 Termination of the emergency will not adversely impact off-site protective actions that are in progress.
- 6.9 If the emergency classification is downgraded or the emergency is terminated:
- 6.9.1 A verbal summary of the downgrade or closeout shall be provided to the State of Michigan and the Nuclear Regulatory Commission followed by a written summary within 8 hours.
 - 6.9.2 Carry out EP-401 (Re-Entry) and EP-402 (Recovery) as applicable.

EMERGENCY RESPONSE TEAMS PROCEDURE INDEX

ON-SITE RADIOLOGICAL EMERGENCY TEAM:

Activation (EP-201-1)
Functions (EP-201-2)

ON-SITE PERSONNEL MONITORING TEAM:

Activation (EP-202-1)
Functions (EP-202-2)

FIRE BRIGADE:

Activation (EP-203-1)
Fire Involving Radiological Hazards (EP-203-2)

DAMAGE CONTROL AND RESCUE TEAM:

Activation (EP-204-1)
Functions (EP-204-2)

OFF-SITE RADIOLOGICAL EMERGENCY TEAM:

Activation (EP-210-1)
Functions (EP-210-2)

OFF-SITE PERSONNEL MONITORING TEAM:

Activation (EP-202-3)
Functions (EP-202-4)

SITE AREA EMERGENCY CHECK-OFF LIST

IMMEDIATE ACTIONS

1. ☐ On-shift personnel notified.
2. ☐ Security notified.
3. ☐ On-Call Plant Supervisor notified.
4. ☐ TSC activated.
5. ☐ OSC activated.
6. ☐ EOF activated.
7. ☐ Government agencies notified.
 - a) ☐ Michigan State Police
 - b) ☐ Monroe County Sheriff
 - c) ☐ NRC
 - d) ☐ Canada (if not already notified)
 - e) ☐ American Nuclear Insurers (if not already notified)
 - f) ☐ Other
8. ☐ Necessary emergency teams notified.

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9. ☐ Off-site support requested.
 - a) ☐ Frenchtown Volunteer Fire Department
 - b) ☐ EMTS Ambulance Service
 - c) ☐ Seaway Hospital
10. ☐ Evacuation of unnecessary personnel from the Protected Area and accountability performed (if not already completed).
11. ☐ Site Area Evacuation.
12. ☐ Radiological release involved.
 - a) ☐ Radiological sampling ordered
 - b) ☐ Off-site dose projected (estimated)
13. ☐ Protective actions ordered on-site.
14. ☐ Protective actions recommended off-site.

SITE AREA EMERGENCY CHECK-OFF LIST

FOLLOW-UP ACTIONS

1. ☐ Follow-up actions of Abnormal and Emergency Operating Procedures are completed.
2. ☐ Assess plant conditions and reclassify.
3. ☐ Follow-up reports completed.
 - a) ☐ On-Shift Personnel
 - b) ☐ On-Call Plant Supervisor
 - c) ☐ Michigan State Police
 - d) ☐ Monroe County Sheriff
 - e) ☐ NRC
 - f) ☐ Other
4. ☐ Long term organization established.
5. ☐ Emergency classification downgraded or the emergency is terminated.
6. ☐ Closeout summary completed.
 - a) ☐ Michigan State Police
 - b) ☐ Monroe County Sheriff
 - c) ☐ NRC
 - d) ☐ Other
7. ☐ Re-Entry/Recovery initiated.

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: GENERAL EMERGENCY

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 08-09-83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational Assurance/Delegate
Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear Production/Delegate
Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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Revised by: Jane Boberg (RERP #2)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: GENERAL EMERGENCY

Prepared by	<u>E. F. Madsen</u>	<u>08/09/83</u>
		Date
Recommended by	<u>Donald Grace Kenzie</u>	<u>8-18-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	<u>8-18-83</u>
	Community & Government Affairs	Date
Recommended by	<u>OK Earl for LE Shuerman</u>	<u>8/19/83</u>
	Licensing	Date
Recommended by	<u>W. H. D. Dorman</u>	<u>8/19/83</u>
	Medical Staff	Date
Recommended by	<u>James M. DuBay</u>	<u>8-18-83</u>
	Nuclear Administration	Date
Recommended by	<u>Gregg A. Dubick</u>	<u>8-25-83</u>
	Nuclear Production	Date
Recommended by	<u>Karen K. Thompson</u>	<u>8-18-83</u>
	Nuclear Training	Date
Recommended by	<u>Bert Ruffner</u>	<u>8-18-83</u>
	Public Information	Date
Recommended by	<u>John H. Hovde for SMC</u>	<u>8-18-83</u>
	Security	Date
Recommended by	<u>Maurice L. Vermolen</u>	<u>8/18/83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Kandaygo</u>	<u>8/18/83</u>
	RERP Committee Chairperson	Date

Revision No.

RERP Committee Chairperson Approved

Date

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Enclosure

Emergency Response Team Procedure Index	Enclosure 1
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Attachment

GENERAL EMERGENCY Check-Off List	Attachment 1
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1.0 Purpose

The purpose of this procedure is to provide a guide for actions to be taken when an emergency condition has been classified as a GENERAL EMERGENCY as defined below.

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

Purpose of the general emergency declaration is to:

- o Initiate predetermined protective actions for the public.
- o Provide continuous assessment of information from licensee and off-site organization measurements.
- o Initiate additional measures as indicated by actual or potential releases.
- o Provide consultation with off-site authorities.
- o Provide updates for the public through off-site authorities.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant - Unit 2, "Radiological Emergency Response Preparedness Plan", Section D
- *2.2 Classification of Emergencies (EP-101)
- *2.3 Unusual Event (EP-102)
- *2.4 Alert (EP-103)
- *2.5 Site Area Emergency (EP-104)
- *2.6 General Emergency (EP-105)
- 2.7 Organization and Responsibilities (EP-110)
- *2.8 On-Site Radiological Emergency Team Functions (EP-201-2)
- *2.9 Off-Site Radiological Emergency Team Functions (EP-210-2)
- *2.10 Emergency Notifications from the Control Room, Technical Support Center, or Emergency Operations Facility (EP-290)

*Denotes "Use" Reference

- *2.11 Fermi 2 On-Call Plant Supervisor: Emergency Notifications (EP-291)
- 2.12 Technical Support Center: Activation (EP-301-1)
- 2.13 Operational Support Center: Activation (EP-302-1)
- 2.14 Emergency Operations Facility: Activation (EP-303-1)
- *2.15 Emergency Operations Facility: Support Functions (303-2)
- *2.16 Alternate Emergency Operations Facility: Activation (EP-304-1)
- *2.17 Alternate Emergency Operations Facility: Support Functions (EP-304-2)
- *2.18 Re-entry (401)
- *2.19 Recovery (402)
- *2.20 Assembly, Accountability and Evacuation (EP-530)
- *2.21 Manual Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases - Overview (EP-540)
- *2.22 Manual Off-Site Dose Assessment Calculational Procedure - Waterborne Releases (EP-541)
- *2.23 "Apple" Computer Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases (EP-542)
- *2.24 Manual Dose Assessment Calculational Procedure - Waterborne Releases (EP-543)
- *2.25 Meteorological Data Assessment (EP-544)
- *2.26 Protective Action Recommendations Guidelines (EP-545)
- *2.27 Potassium Iodide (69.000.11)

3.0 Entry Conditions

An emergency condition has been classified as a GENERAL EMERGENCY in accordance with EP-101.

NOTE: The classification of an emergency will not always progress in an orderly manner from UNUSUAL EVENT through GENERAL EMERGENCY. Procedures EP-102, 103, 104 and 105 can be used independent of each other.

*Denotes "Use" Reference

4.0 General Information

- 4.1 Ultimate responsibility for assessment of plant emergency conditions and for directing corrective actions rests with the Emergency Director. The judgment of the Emergency Director is paramount in proper control of the emergency and may take precedence over guidelines in this procedure.
- 4.2 Emergency notifications of government agencies are provided in Step 5.3 of this procedure. Note that State and local government agencies and Canada (if not already notified) must be notified within 15 (fifteen) minutes of recognition of the emergency, and the NRC notified within 1 (one) hour.
- 4.3 The GENERAL EMERGENCY Check-Off List (Attachment 1) is a helpful guide in ensuring all applicable steps of this procedure are completed.
- 4.4 The Nuclear Shift Supervisor shall continue to act as Emergency Director until relieved of this responsibility by the Superintendent - Nuclear Production, or alternate, or until the emergency situation is terminated.
 - 4.4.1 When the Plant Superintendent (or alternate) relieves the Nuclear Shift Supervisor and the Technical Support Center (TSC) is functional, the functions of the Emergency Director shall be shifted to the TSC, including notification, dose assessment, and protective action recommendation.
 - 4.4.2 The Nuclear Shift Supervisor shall remain in the plant to supervise plant operations.
- 4.5 Once the EOF has been activated, the EOF Coordinator shall relieve the Emergency Director of the following responsibilities:
 - 4.5.1 Notification of and communications with Federal, State and County agencies.
 - 4.5.2 Off-site radiological surveys and environmental sampling, dose assessment/projection and meteorology.
 - 4.5.3 Recommendations to State and County agencies regarding appropriate protective actions.
- 4.6 When a SITE AREA or GENERAL EMERGENCY is declared and the EOF is activated, the Vice President - Nuclear Operations (or alternate) shall assume the duties of Emergency Officer and shall assume overall responsibility for the emergency response. The Emergency Director and EOF Coordinator will report directly to the Emergency Officer. The Emergency Officer shall be directly responsible for providing updates and information to the Joint Public

Information Center (JPIC) for dissemination to the press and the public, and shall make and approve all protective actions that the EOF Coordinator may recommend to the off-site authorities.

5.0 Immediate Actions

NOTE: If the emergency has been upgraded from another classification, certain of these sections may have already been implemented. This procedure can be carried out in any order. However, the following sequence is recommended.

5.1 Inform plant personnel, including Security, of the emergency classification.

5.2 Make notifications of the emergency condition using EP-290. The Fermi 2 On-Call Plant Supervisor will notify additional DECo Emergency Organization personnel in accordance with EP-291. When the TSC is activated, notification under EP-291 will be assumed by the Administrative and Support Coordinator.

NOTE: As the Technical Support Center is activated, transfer control of all emergency response activities not directly related to plant operation to the Technical Support Center. This may take place at anytime during the execution of this procedure. As the EOF is activated, transfer those functions outlined in EP-303-2 to the EOF. If the primary TSC location is not habitable, determine which functions will be moved to the Control Room and which functions will be assumed in the EOF. Have signs hung on the doors of the TSC indicating that the personnel are to proceed to alternate locations.

If the primary EOF is not accessible or habitable, TSC functions assigned to the EOF will be transferred to the alternate EOF, Wayne/Monroe Division Headquarters (EP-304-1 and EP-304-2), together with EOF personnel.

5.3 Notify the State of Michigan, Monroe County, Canada (if not already notified) and the Nuclear Regulatory Commission of the emergency situation using EP-290.

NOTE: If the On-Scene State Emergency Operations Center has been established, all communications to the counties and Canada will be made by the State.

5.4 Activate the Operations Support Center (CSC), if not already activated, and dispatch Emergency Teams as necessary to respond to the emergency conditions (see Enclosure 1). Off-shift personnel may be called in to supplement the teams.

NOTE: If the primary OSC location is not habitable, designate the alternate OSC location. Have signs hung on the OSC doors by indicating that personnel are to proceed to the alternate location.

Unless otherwise instructed, the Emergency Teams will carry out the steps of the applicable Emergency Plan Implementing Procedures (see Enclosure 1).

Relay the following information to the Emergency Team Leaders:

- 5.4.1 Suspected cause of the emergency situation.
- 5.4.2 Areas with abnormal personnel hazards.
- 5.4.3 Other Emergency Teams which are activated.
- 5.4.4 Pertinent plant lineups and corrective actions taken by the Emergency Director.
- 5.4.5 Any other information which may be useful to the Team Leader in performing the team functions.

5.5 If off-site emergency support is necessary from any of the following:

- 5.5.1 Frenchtown Volunteer Fire Department
- 5.5.2 EMTS Ambulance Service
- 5.5.3 Seaway Hospital

Notify the appropriate organization in accordance with EP-290.

- 5.6 Order an evacuation of unnecessary personnel from the Protected Area, if not already completed, in accordance with EP-530 (Assembly, Accountability, and Evacuation). All personnel in the Protected Area must be accounted for within 30 minutes of the evacuation order. Determine if the entire Owner Controlled Area should be evacuated.
- 5.7 If an on-site radiological hazard exists, order on-site protective actions (use of protective equipment, use of potassium iodide in accordance with Health Physics Procedure 69.000.11, and/or evacuation (see Step 5.6)) as necessary.
- 5.8 For an actual or potential release of radiological materials greater than technical specification limits:
 - 5.8.1 Have radiological sampling conducted in accordance with EP-201-2 (On-Site RET: Functions) and/or EP-210-2 (Off-Site RET: Functions), as applicable.

- 5.8.2 Estimate the on-site and off-site doses in accordance with EP-540, 541, 542, or 543 and 544.
- 5.8.3 Recommend protective actions for the public to the State of Michigan in accordance with EP-545 (Protective Action Recommendation Guidelines).

6.0 Follow-up Actions

- 6.1 Ensure that the follow-up actions of applicable Abnormal and Emergency Operating Procedures are performed.
- 6.2 Continue to assess the plant conditions. Direct corrective actions as necessary to bring the emergency under control and mitigate the consequences.
- 6.3 Continue to monitor the progress of Emergency Teams in controlling the emergency. Ensure that additional personnel support and equipment are made available as necessary.
- 6.4 Periodically make follow-up status reports to on-shift personnel. Ensure all operations personnel and emergency response personnel are kept apprised of personnel hazards, plant lineups, corrective actions and steps taken to control or mitigate the emergency.
- 6.5 Until the TSC or EOF is activated, periodically make follow-up reports to the State of Michigan, Monroe County, the Nuclear Regulatory Commission and the Fermi 2 On-Call Plant Supervisor using EP-290. If the TSC is functional, the Administrative and Support Coordinator will assume the duties of the On-Call Plant Supervisor under EP-291.
- 6.6 Establish a long term relief rotation to ensure personnel are not required to remain at their assigned positions for an excessive period of time (normally not greater than 12 hours).
- 6.7 The Emergency Director may downgrade the emergency classification as follows:
 - 6.7.1 To a SITE AREA EMERGENCY if:
 - 1. Plant conditions no longer meet the Emergency Action Levels (EP-101) for a GENERAL EMERGENCY, and;
 - 2. The actual or potential off-site radiological hazard is under control or has been eliminated, and;

3. The Emergency Officer (if the EOF is activated) has conferred with the State of Michigan Officials and the NRC, and;
4. The Emergency Officer concurs (if the EOF is activated).

6.7.2 To an ALERT if:

1. Plant conditions no longer meet the intent of the Emergency Action Levels (EP-101) for a SITE AREA EMERGENCY, and;
2. The actual or potential off-site and on-site radiological hazards are under control or have been eliminated, and;
3. The Emergency Officer (if the EOF is activated) has conferred with the State of Michigan Officials and the NRC, and;
4. The Emergency Officer concurs.

6.8 The emergency situation may be terminated if:

- 6.8.1 Release of radioactive materials has ceased and radiation levels in the off-site environment are at or near background levels.
- 6.8.2 No further potential exists for uncontrolled releases of radioactive materials to the environment.
- 6.8.3 The reactor and associated systems are in a stable, safe condition.
- 6.8.4 Termination of the emergency will not adversely impact off-site protective actions that are in progress.

6.9 If the emergency classification is downgraded or the emergency is terminated:

- 6.9.1 A verbal summary of the downgrade or closeout shall be provided to the State of Michigan, Monroe County, Canada and the Nuclear Regulatory Commission followed by a written summary within 8 hours.
- 6.9.2 Carry out EP-401 (Re-Entry) and EP-402 (Recovery) as applicable.

EMERGENCY RESPONSE TEAMS PROCEDURE INDEX

ON-SITE RADIOLOGICAL EMERGENCY TEAM:

Activation (EP-201-1)
Functions (EP-201-2)

ON-SITE PERSONNEL MONITORING TEAM:

Activation (EP-202-1)
Functions (EP-202-2)

FIRE BRIGADE:

Activation (EP-203-1)
Fire Involving Radiological Hazards (EP-203-2)

DAMAGE CONTROL AND RESCUE TEAM:

Activation (EP-204-1)
Functions (EP-204-2)

OFF-SITE RADIOLOGICAL EMERGENCY TEAM:

Activation (EP-210-1)
Functions (EP-210-2)

OFF-SITE PERSONNEL MONITORING TEAM:

Activation (EP-202-3)
Functions (EP-202-4)

GENERAL EMERGENCY CHECK-OFF LIST

IMMEDIATE ACTIONS

1. ☐ On-shift personnel notified.
2. ☐ Security notified.
3. ☐ On-Call Plant Supervisor notified.
4. ☐ TSC activated.
5. ☐ OSC activated.
6. ☐ EOF activated.
7. ☐ Government agencies notified.
 - a) ☐ Michigan State Police
 - b) ☐ Monroe County Sheriff
 - c) ☐ NRC Operations Center
 - d) ☐ Canada (if not already notified)
 - e) ☐ American Nuclear Insurers (if not already notified)
 - f) ☐ Other
8. ☐ Necessary emergency teams notified.
☐
☐
☐
☐
9. ☐ Off-site support requested.
 - a) ☐ Frenchtown Volunteer Fire Department
 - b) ☐ EMTS Ambulance Service
 - c) ☐ Seaway Hospital
10. ☐ Evacuation of unnecessary personnel from the Protected Area and accountability performed (if not already completed).
11. ☐ Site Area Evacuation.
12. ☐ Radiological release involved.
 - a) ☐ Radiological sampling ordered
 - b) ☐ Off-site dose projected (estimated)
13. ☐ Protective actions ordered on-site.
14. ☐ Protective actions recommended off-site.

GENERAL EMERGENCY CHECK-OFF LIST

FOLLOW-UP ACTIONS

1. ☐ Follow-up actions of Abnormal and Emergency Operating Procedures are completed.
2. ☐ Assess plant conditions.
3. ☐ Follow-up reports completed.
 - a) ☐ On-shift personnel
 - b) ☐ On-Call Plant Supervisor
 - c) ☐ Michigan State Police
 - d) ☐ Monroe County Sheriff
 - e) ☐ NRC
 - f) ☐ Other
4. ☐ Long term organization established.
5. ☐ Emergency classification downgraded or the emergency is terminated.
6. ☐ Closeout summary completed.
 - a) ☐ Michigan State Police
 - b) ☐ Monroe County Sheriff
 - c) ☐ NRC
 - d) ☐ Other
7. ☐ Re-entry/Recovery initiated.

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ORGANIZATION AND RESPONSIBILITIES

RECORD OF APPROVAL AND CHANGES

Prepared by K. Connell 05/05/83
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E. H. Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/L + 8/23/83
OSRO Chairman/Alternate Date
Approved by D/L + 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
2					*			
3					*			
4					*			
5					*			
6					*			
7					*			
8					*			



CONTROLLED

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ORGANIZATION AND RESPONSIBILITIES

Prepared by	K. Connell	5/5/83
		Date
Recommended by	Donald J Mac Kenzie	5-31-83
	Communication System Division	Date
Recommended by	James L. Jones	6/29/83
	Community & Government Affairs	Date
Recommended by	James P. Cofer	6-22-83
	Insurance	Date
Recommended by	Gary E. Schuyman	6/17/83
	Licensing	Date
Recommended by	Mahmud Eyed, M.D.	6/22/83
	Medical Staff	Date
Recommended by	James J. Liana	5/31/83
	Nuclear Administration	Date
Recommended by	Gregg K. Dunbar	5-31-83
	Nuclear Production	Date
Recommended by	H. B. Brumfield	5/31/83
	Nuclear Training	Date
Recommended by	Robert H. Rogers	5/31/83
	Public Information	Date
Recommended by	Stuart H. Zesch	6-7-83
	Security	Date
Recommended by	Maurice Vermulen	5/31/83
	Wayne-Monroe Division	Date
Approved by	Thomas Randazzo	5/31/83
	ERP Committee Chairperson	Date

Revision No. RERP Committee Chairperson Approved

Date

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1.0 Purpose

To describe the organization and responsibilities of Detroit Edison personnel for implementation of the Enrico Fermi Atomic Power Plant, Unit 2, Radiological Emergency Response Preparedness (RERP) Plan.

2.0 References

2.1 Enrico Fermi Atomic Power Plant, Unit 2, Radiological Emergency Response Preparedness Plan

2.2 Recovery Organization (EP-111)

*2.3 Emergency Exposure Limits (69.000.15)

3.0 General Information

3.1 In the event of an emergency, personnel responsibilities include the following:

- 3.1.1 Taking action to control the emergency.
- 3.1.2 Taking action to secure the release of radioactivity.
- 3.1.3 Securing plant systems in a stable and safe configuration.
- 3.1.4 Prompt notification of off-site authorities.
- 3.1.5 Providing current information to off-site authorities and making recommendations for off-site protective actions.

3.2 In the event of an emergency, communications are staffed on a 24 hour basis. Personnel responsibilities include the following:

- 3.2.1 Control Room - initial notification.
- 3.2.2 Technical Support Center (TSC) - assumes on-site and off-site communication and notification responsibilities under the Alert classification.
- 3.2.3 Emergency Operations Facility (EOF) - assumes off-site communication and notification responsibilities under the Site Area or General Emergency classifications.

3.3 Long Term Emergency

- 3.3.1 Sufficient staffing is provided to ensure the emergency Organization can operate for an extended period of time.
- 3.3.2 A long term relief rotation shall be established to ensure personnel are not required to remain at their assigned positions for an excessive period of time (normally not greater than 12 hours).

4.0 Assignments and Responsibilities

4.1 Emergency Officer

The Vice President - Nuclear Operations (or alternate) is assigned as the Emergency Officer. The Emergency Officer is in overall charge of the emergency. Reporting to him are the Emergency Director, FOF Coordinator, and the Joint Public Information Center (JPIC) Administrator. The responsibilities of the Emergency Officer include:

1. Ensuring that the full resources of Detroit Edison Company are made available as required to secure the plant systems and to minimize the effects of the incident on plant personnel and the public. This includes availability of other utilities and vendor resources.
2. Ensuring information released to the public is accurate and directed through proper channels.
3. Communications with Corporate Headquarters.
4. Establishing the long term emergency and recovery organizations.

4.2 Control Room

Control Room staffing requirements are described in Enrico Fermi Atomic Power Plant Unit 2 Final Safety Analysis Report (FSAR). Upon initiation of an emergency, the Nuclear Shift Supervisor (or alternate) assumes the duties of the Emergency Director until relieved by the Superintendent-Nuclear Production.

- 4.2.1 When acting as the Emergency Director, the Nuclear Shift Supervisor is responsible for the following:
 1. Implementing the immediate on-site corrective and protective actions to bring the incident under control and mitigate its effects.
 2. Initiating emergency classification.

3. Appointing on-site personnel as necessary for assistance with current and continuing emergency control.
4. If necessary, authorizing plant and emergency workers to receive radiation doses in excess of normal 10 CFR 20 limits. Emergency exposure limits are described in Health Physics Procedure 69.000.15 (Emergency Exposure Limits).
5. Obtaining assistance of support organizations as necessary.
6. Initiating notifications and protective action recommendations to persons or organizations responsible for implementing emergency measures.
7. Ensuring that information to be released is accurate and is directed through proper channels.
8. Performing initial dose projections and assessments.

4.2.2 Nuclear Assistant Shift Supervisor

The Nuclear Assistant Shift Supervisor is responsible to the Emergency Director for the following:

1. Providing assistance to the Emergency Director at his request.
2. Coordinating reports of actions and information from the Nuclear Supervising Operator.

4.2.3 Nuclear Supervising Operator

The Nuclear Supervising Operator is responsible to the Nuclear Assistant Shift Supervisor for the following:

1. Carrying out necessary corrective actions to mitigate the emergency.
2. Reporting actions taken and making recommendations to the Nuclear Assistant Shift Supervisor.
3. Assuming responsibility as Fire Brigade Leader when activated.

4.2.4 Nuclear Power Plant Operator

The Nuclear Power Plant Operator is responsible to the Nuclear Supervising Operator for the following:

1. Carrying out corrective actions on systems not accessible by controls in the Control Room.
2. Reporting actions taken and making recommendations to the Nuclear Supervising Operator.
3. The Nuclear Power Plant Operator also serves as a member of the Fire Brigade when activated.

4.2.5 Shift Technical Advisor

The Shift Technical Advisor is normally responsible to the Nuclear Shift Supervisor. During an emergency classified as an Alert or higher he is responsible to the Emergency Operations Liaison. His responsibilities are the following:

1. Advising the Nuclear Shift Supervisor, Nuclear Supervising Operator, and/or the Emergency Operations Liaison on technical matters concerning the plant during an emergency.
2. Performing dose assessment until the TSC or EOF is activated.

4.2.6 Communicator

The Communicator is responsible to the Nuclear Shift Supervisor for the following:

1. Making required notifications and communications as directed.
2. Contacting additional support personnel as directed.

The following additional personnel are assigned for an Alert.

4.2.7 Emergency Operations Liaison

The Assistant Operations Engineer (or alternate) is assigned as Emergency Operations Liaison and is responsible to the Emergency Director for the following:

1. Directing plant operational activities through the Nuclear Shift Supervisor.
2. Advising the Emergency Director on matters concerning plant operations.
3. Providing work assignments for the Operations Group.

4.2.8 Reactor Engineer

The Reactor Engineer (or alternate) is responsible to the Emergency Operations Liaison for the following:

1. Analyzing conditions affecting reactor core safety.
2. Advising the Operations Engineer on all matters relating to reactor core safety.

4.3 Operational Support Center (OSC)

The OSC provides an assembly point for shift support personnel to be assigned duties supporting emergency operations.

4.3.1 OSC Coordinator

The Maintenance Engineer (or alternate) is assigned as OSC Coordinator and is responsible for the following:

1. Directing maintenance operations.
2. Dispatching Emergency Teams.
3. Advising the Emergency Director on matters concerning maintenance activities.
4. Recommending maintenance actions to mitigate the emergency situation.
5. Augmenting and providing work assignments for maintenance personnel.

- 4.3.2 All incoming shift personnel who are not otherwise assigned will report to the OSC.

4.4 Technical Support Center (TSC)

The TSC will provide information on plant status for use by technical and management personnel in support of the actions being performed in the Control Room.

The TSC is activated when an emergency reaches the Alert level and serves as the primary information and communications source to the Nuclear Regulatory Commission, OSC, and the EOF, and will perform the functions of the EOF until the EOF is activated.

4.4.1 Emergency Director

The Superintendent-Nuclear Production (or alternate) is responsible for relieving the Nuclear Shift Supervisor

as the Emergency Director. The Emergency Director is responsible to the Emergency Officer for the following:

1. Directing and coordinating the combined activities of Detroit Edison personnel in the Control Room, TSC, OSC, and elsewhere on owner-controlled property.
2. Initiating emergency classification assessment activities and, if appropriate, emergency dose projections.
3. Initiating appropriate notifications and protective action recommendations to persons/organizations responsible for implementing emergency measures. (Upon activation of the EOF, the EOF Coordinator is the liaison to all off-site agencies.)
4. Implementing the immediate on-site corrective and protection actions to bring the incident under control and mitigate its effects.
5. Issuing instructions to emergency response teams and ensuring that the appropriate procedures are being followed.
6. Requesting assistance of support organizations as necessary and ensuring continuity of on-site resources.
7. Ensuring that information to be released is accurate and released through proper channels.
8. Authorizing plant emergency workers to receive radiation doses in excess of normal 10CFR20 limits, if necessary. Emergency exposure limits are described in Health Physics Procedure 69.000.15 (Emergency Exposure Limits).

4.4.2 Technical Engineer

The Technical Engineer (or alternate) is responsible to the Emergency Director for the following:

1. Providing recommendations to the Emergency Director concerning plant technical matters.
2. Providing technical support.
3. Providing work assignments for Technical and Engineering Groups.

4.4.3 Nuclear Safety Advisor

The General Supervisor-Nuclear Safety and Plant Engineering (or alternate) is assigned as the Nuclear Safety Advisor and is responsible to the Emergency Director for the following:

1. Advising the Emergency Director on engineering matters.
2. Providing work assignments for Nuclear Engineering support groups.

4.4.4 Radiation Protection Advisor

The Rad/Chem Engineer (or alternate) is assigned as the Radiation Protection Advisor and is responsible to the Emergency Director for the following:

1. Monitoring TSC for airborne contamination.
2. Performing dose projections with assistance from Dose Assessment Team.
3. Dispatching On-Site and Off-Site Radiological Emergency Teams until the EOF if activated.
4. Evaluating results of environmental surveys until activation of the EOF.
5. Maintaining personnel exposure records.
6. Ensuring that radiation protection equipment, such as dosimetric devices, respiratory protection gear and protective clothing is issued and controlled.
7. Advising the Emergency Director concerning radiological protective actions.
8. Directing on-site decontamination activities.
9. Providing work assignments for radiation protection personnel.

4.4.5 Environmental Assessment Team

Personnel assigned as members of the Environmental Assessment Team are responsible to the Radiation Protection Advisor for the following:

1. Assessing meteorological conditions.

2. Evaluating results of off-site environmental surveys.
3. Performing both on-site and off-site dose assessment and projections.

4.4.6 Rad/Chem Advisor

The General Supervisor-Chemistry (or alternate) is assigned as the Rad/Chem Advisor and is responsible to the Emergency Director for the following:

1. Directing inplant sampling activities.
2. Directing Radiochemistry Laboratory activities.
3. Advising the Emergency Director on radwaste processing, storage and disposal.

4.4.7 TSC Security Advisor

The Nuclear Security Chief (or alternate) is assigned as TSC Security Advisor and is responsible to the Emergency Director for the following:

1. Ensuring that site security is maintained and appropriate contingency measures are implemented.
2. Ensuring that security and traffic control measures are in effect for on-site, including traffic direction during an evacuation.
3. Ensuring personnel accountability procedures are implemented in the event of a radiological emergency or the need for plant/site evacuation.
4. Maintaining security of the TSC.
5. Advising the Director-Nuclear Security and Emergency Director on matters related to Fermi security.

4.4.8 Administration and Support Coordinator

The Administrator-Personnel and Union Relations (or alternate) is assigned as the Administration and Support Coordinator and is responsible to the Emergency Director for the following:

1. Activating and checking out the TSC.
2. Coordinating provisions for logistical support for emergency personnel.

3. Advising the Emergency Director and Nuclear Operations Staff on matters relating to personnel and equipment.
4. Supervising status board updaters, clerks, communicators, and secretaries in the performance of their duties.
5. Providing work schedules for Nuclear Operations emergency response personnel.
6. Implementing communications to off-site Emergency Response Organizations.
7. Providing for documentation support and control.
8. Maintaining records concerning the emergency.

4.4.9 Quality Assurance Advisor

The Supervisor-Operational Assurance (or alternate) is assigned as the Quality Assurance Advisor and is responsible to the Emergency Director for the following:

1. Assisting in preparation of specific emergency procedures as required.
2. Ensuring all quality assurance procedures applicable to the emergency are followed.

4.4.10 Support Engineers

Thermal/Hydraulics, Mechanical, Electrical and Instrument and Control Engineers are responsible for advising the Nuclear Safety Advisor on technical plant matters.

4.4.11 TSC Communicator

The TSC Communicator is responsible to the Administration and Support Coordinator for the following:

1. Making any required notifications and communications as directed.
2. Notifying additional support personnel as directed.

4.5 Emergency Operations Facility (EOF)

The EOF is activated for Site Area and General Emergencies. The EOF is the command post for the coordination of the emergency response actions by off-site organizations, the coordination of

off-site radiological and environmental assessments, determining protective actions for the public, and management of recovery operations.

4.5.1 EOF Coordinator

The Manager Wayne-Monroe Division (or alternate) is assigned as the EOF Coordinator and is responsible to the Emergency Officer for the following:

1. Directing activities in EOF.
2. Notification of Government Emergency Response Agencies.
3. Coordinating activities of the Environmental Dose Assessment Team through the Radiation Protection Coordinator.
4. Coordinating activities of Radiological Emergency Teams through the Radiation Protection Coordinator.
5. Recommending protective actions to off-site Emergency Response Organizations based on dose assessment.

4.5.2 Radiation Protection Coordinator

The Corporate Health Physicist (or alternate) is assigned as the Radiation Protection Coordinator and is responsible to the EOF Coordinator for the following:

1. Directing and coordinating off-site dose assessment activities.
2. Directing Environmental Assessment Team.
3. Determining survey areas for Radiological Emergency Teams.
4. Determining environmental sample media.
5. Evaluating results of environmental surveys.
6. Advising the EOF Coordinator on protective actions to be taken.
7. Directing activities in the EOF Emergency Laboratory.
8. Ensuring proper personnel monitoring and records of the emergency are maintained.

9. Coordinating radiation protection for personnel in the EOF.
10. Ensuring that radiation protection equipment is issued and controlled.
11. Directing decontamination activities for site area emergency.

4.5.3 Radiation Protection Communicator

The Radiation Protection Communicator makes any required notifications and communications as directed by the Radiation Protection Coordinator.

4.5.4 Environmental Assessment Team

The Environmental Assessment Team is responsible to the Radiation Protection Coordinator for the following:

1. Assessing meteorological conditions.
2. Performing dose assessment and projections.

4.5.5 Radiological Emergency Team Coordinator

The Wayne-Monroe Division Dispatcher (or alternate) is assigned as the Radiological Emergency Team Coordinator and is responsible to the Radiation Protection Coordinator for the following:

1. Coordinating efforts of the Off-Site Radiological Emergency Teams.
2. Assigning Survey areas.
3. Reporting the results of off-site surveys to the Radiation Protection Coordinator.

4.5.6 Emergency Laboratory Technicians

The Emergency Laboratory Technicians are responsible to the Radiation Protection Coordinator for the following:

1. Analyzing samples collected by the RET members.
2. Reporting the results of the sample analysis to the Radiation Protection Coordinator.

4.5.7 EOF Security Advisor

The Director-Nuclear Security (or alternate) is assigned as the EOF Security Advisor and is responsible to the EOF Coordinator for the following:

1. Coordinating access and egress of off-site personnel to owner-controlled areas.
2. Acting as security liaison between the EOF, the JTIC and the TSC.
3. Advising the EOF Coordinator on security matters.
4. Maintaining security of the EOF.

4.5.8 Nuclear Operations Advisor

An off-shift Nuclear Shift Supervisor is assigned as Nuclear Operations Advisor and is responsible to the EOF Coordinator for the following:

1. Providing updated information on the operational status of the plant.
2. Advising the EOF Coordinator on the status of the plant.

4.5.9 Public Information Coordinator

The Media Relations Representative is assigned as the Public Information Coordinator and is responsible to the Emergency Officer for the following:

1. Coordinating public information with the Joint Public Information Team.
2. Liaison between the Emergency Officer and the Joint Public Information Team.
3. Liaison between the EOF and the On-Site News Center.
4. Preparing information under the dictation of the Emergency Officer for release to the JPIC.

4.5.10 EOF Administrator

The Director-Nuclear Administration (or alternate) is assigned as the EOF Administrator and is responsible to the EOF Coordinator for the following:

1. Supervising the establishment of the EOF.
2. Providing logistic support.
3. Providing documentation control and support.
4. Establishing and maintaining a long term record file for the emergency.
5. Supervising the communicators, clerks, status board, clerks, and secretaries assigned to the EOF.
6. Implementing communications to off-site Emergency Response Organizations.
7. Advising EOF Coordinator/Emergency Officer on matters relating to logistic support.

4.5.11 EOF Communicator

The EOF Communicator is responsible to the EOF Administrator for the following:

1. Making any required notifications and communications as directed.
2. Notifying additional support personnel as directed.

4.5.12 Liaison to the State

The Liaison to the State is responsible for the following:

1. Coordinating and clarifying communications between the EOF and the State On-Scene Emergency Operations Center (OSEOC).
2. Apprising State Officials at the OSEOC of emergency conditions based on information provided by the Detroit Edison Emergency Response Organization.

4.5.13 Liaison to the Counties

The Liaison to the Counties is responsible for the following:

1. Providing technical advice to the Counties based on information from Nuclear Operations.

4.6 Newport Warehouse (Service Center)

The Newport Warehouse will be utilized as the assembly point for the Off-Site Radiological Emergency Team (Off-Site RET). All equipment required to support the Off-Site RET will be stored at the Newport Warehouse. An alternate assembly point may be identified by the Emergency Director.

4.6.1 RET Supervisor

A representative from Customer Field Services Group (Wayne-Monroe Division) is assigned as the RET Supervisor and is responsible for the following:

1. Contacting and organizing into teams the Off-Site RET.
2. Ensuring the teams are properly outfitted with the necessary tools and equipment.
3. Ensuring the teams establish communications with the RET Coordinator.
4. Acting as a liaison between activities at the Newport Warehouse and the RET Coordinator.
5. Establishing a rotation schedule for the Off-Site RET.

4.6.2 RET Equipment Coordinator

A representative of the Customer and Marketing Services Group is assigned as the RET Equipment Coordinator and is responsible to the RET Supervisor for the following:

1. Taking inventory of Off-Site RET kits before and after use.
2. Obtaining replacements for defective equipment and depleted supplies.
3. Maintaining the Off-Site RET equipment storage area in a neat and orderly fashion.

4.7 Detroit Edison Divisional Organization Emergency Headquarters

Detroit Edison corporate level personnel listed are available via the Divisional Organization Emergency Headquarters located in the corporate offices in Detroit.

4.7.1 President

The President is responsible for support from the corporate headquarters.

4.7.2 Vice President-Operations

The Vice President-Operations is an alternate for President.

4.7.3 Vice President-Engineering and Construction

The Vice President-Engineering and Construction is an alternate for President.

4.7.4 Vice President-Public Affairs

The Vice President-Public Affairs ensures coordination of public information releases.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: RECOVERY ORGANIZATION

RECORD OF APPROVAL AND CHANGES

Prepared by	<u>K. Connell</u>	<u>4/27/83</u>	<u>Date</u>
Approved by	<u>Thomas Raudazzo</u> Responsible Section Head	<u>8/22/83</u>	<u>Date</u>
Recommended by	<u>E.H. Newton</u> Supervisor - Operational Assurance/Delegate	<u>8-23-83</u>	<u>Date</u>

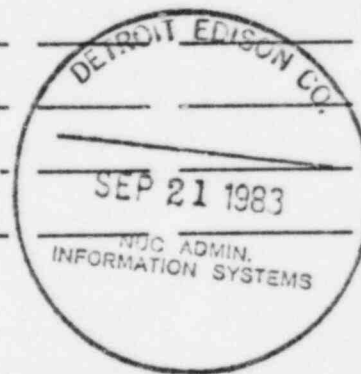
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by	<u>D.L. +</u> OSRO Chairman/Alternate	<u>8/23/83</u>	<u>Date</u>
Approved by	<u>D.L. +</u> Superintendent-Nuclear Production/Delegate	<u>8/23/83</u>	<u>Date</u>

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: RECOVERY ORGANIZATION

Prepared by	<u>K. Connell</u>	<u>4-27-83</u> Date
Recommended by	<u>Donald S. Mac Kenzie</u> Communication System Division	<u>6-30-83</u> Date
Recommended by	<u>James L. Jones</u> Community & Government Affairs	<u>7-7-83</u> Date
Recommended by	<u>J. P. Cooper</u> Insurance	<u>6-30-83</u> Date
Recommended by	<u>Larry E. Scherman</u> Licensing	<u>6/30/83</u> Date
Recommended by	<u>Mahmoud Syed, M.D.</u> Medical Staff	<u>6/30/83</u> Date
Recommended by	<u>James S. Piana</u> Nuclear Administration	<u>6/30/83</u> Date
Recommended by	<u>Mary A. Burkhead</u> Nuclear Production	<u>6-30-83</u> Date
Recommended by	<u>Edward J. Dwyer</u> Nuclear Training	<u>6/30/83</u> Date
Recommended by	<u>Bob Deussen / Robert H. Jensen</u> Public Information	<u>6-30-83</u> Date
Recommended by	<u>Frank H. Zisch</u> Security	<u>6-30-83</u> Date
Recommended by	<u>Thomas L. Connell</u> Wayne-Monroe Division	<u>6-30-83</u> Date
Approved by	<u>Thomas Randazzo</u> RERP Committee Chairperson	<u>6-30-83</u> Date

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No.

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Chairperson Approved

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1.0 Purpose

To describe the organization and responsibilities of the Recovery Organization.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant, Unit 2, Radiological Emergency Response Preparedness Plan
- 2.2 Organization and Responsibilities (EP-110)

3.0 General Information

- 3.1 In any Site Area Emergency or General Emergency, the immediate action is to limit the consequences of the incident in order to maximize protection for plant personnel and the general public. Once the immediate corrective and protective actions have established an effective control over the emergency, subsequent actions are part of the reentry and recovery programs. All actions in this program will be planned and deliberate.
- 3.2 The Emergency Officer is responsible for determining and declaring an emergency terminated and the plant ready to begin reentry and recovery.
- 3.3 The recovery plan must be flexible enough to meet the needs of the existing conditions. Detroit Edison and cognizant government officials will, together, draw up a general plan for reentry and recovery.

4.0 Assignment and Responsibility

4.1 Recovery Manager (Emergency Officer)

The Vice President-Nuclear Operations (or alternate) is assigned as the Recovery Manager and is responsible for the following:

- 4.1.1 Determining and declaring a stable condition exists and the plant is ready to begin reentry and recovery.
- 4.1.2 Authorizing funds and the utilization of necessary personnel and equipment to accomplish the recovery operation.
- 4.1.3 Notifying off-site authorities, in a timely manner, that a recovery operation has been initiated.

- 4.1.4 Providing additional information to off-site authorities whenever recovery operations have potential off-site effects, including communications to the public through appropriate channels.

4.2 Emergency Director

The Superintendent-Nuclear Production (or alternate) is assigned as the Emergency Director and is responsible to the Recovery Manager for the following:

- 4.2.1 Authorizing the start of reentry and recovery activities.
- 4.2.2 Preparing an analysis of the circumstances leading up to and resulting from the emergency, together with recommendations to prevent a recurrence.
- 4.2.3 Maintaining the plant during the recovery operation.
- 4.2.4 Developing implementing procedures to support recovery efforts.
- 4.2.5 Training plant personnel in recovery-related operating and maintenance procedures.
- 4.2.6 Implementing recovery plans and schedules.
- 4.2.7 Returning to normal operations when approved by the NRC.

4.3 Emergency Operations Facility (EOF) Coordinator

The Manager, Wayne-Monroe Division (or alternate) is assigned as the Emergency Operations Facility Coordinator and is responsible to the Recovery Manager for continued operation of the EOF as necessary and off-site dose assessments. When the Recovery Organization is activated by the Recovery Manager, the EOF Coordinator shall ensure that all members of the Recovery Organization are contacted.

4.4 Radiation Protection and Waste Management Coordinator

The Rad/Chem Engineer and the General Supervisor - Health Physics (or alternates) are assigned as the Radiation Protection and Waste Management Coordinators and are responsible to the Recovery Manager for the following:

- 4.4.1 Developing plans and procedures to process and control liquid, gaseous, and solid wastes.
- 4.4.2 Developing post-accident plans and procedures for sampling contaminated solids, liquids, and gases.

- 4.4.3 Developing concepts for modification and designs necessary for waste processing.
- 4.4.4 Supporting off-site sampling programs, dose assessments, dose management, and radiation protection.

4.5 Technical Support and Engineering Coordinator

The General Supervisor-Nuclear Safety and Plant Engineering (or alternate) is assigned as the Technical Support and Engineering Coordinator and is responsible to the Recovery Manager for the following:

- 4.5.1 Developing post-accident operating procedures necessary to achieve a safe reactor shutdown.
- 4.5.2 Analyzing and developing solutions for instrumentation difficulties and the functions controlled by those instruments.
- 4.5.3 Analyzing situations and developing solutions necessary to achieve and maintain reactor core stability.
- 4.5.4 Analyzing and developing input pertinent to plant licensing issues.

4.6 Design and Construction Support Management Coordinator

The Director-Nuclear Plant Modification (or alternate) is assigned as the Design and Construction Support Management Coordinator and is responsible to the Recovery Manager for coordinating the design and construction activities in support of recovery actions.

4.7 Technical Liaison and Advisory Support Coordinator

The Director-Nuclear Engineering (or alternate) is assigned as the Technical Liaison and Advisory Support Coordinator and is responsible to the Recovery Manager and providing advice on technical plant matters.

NOTE: The Advisory Support Group is composed of technical and managerial personnel from outside support organizations who have sufficient authority to commit to the recovery effort the resources of the organization they represent.

4.8 Recovery Planning and Scheduling Coordinator

The Director-Outage Management (or alternate) is assigned as the Recovery Planning and Scheduling Coordinator and is responsible for the following:

- 4.8.1 Establishing schedules and priorities which ensure an orderly and progressive work flow.
- 4.8.2 Controlling and expediting corporate, vendor contract, and governmental commitments.

4.9 Administration and Logistic Support Coordinator

The Manager-Materials (or alternate) is assigned as the Administration and Logistic Support Coordinator and is responsible to the Recovery Manager for providing administrative logistics and communications support for the recovery operation. He is also responsible for developing and implementing a program of long range record keeping for all recovery operations. This record file shall be maintained as a legal record of the recovery. It shall as a minimum, contain an overall chronological log of all events and actions taken during the recovery, all Recovery Plan Implementing Procedures, all correspondence relating to the recovery operations, and the minutes of all meetings held on recovery operations.

4.10 Nuclear Safety Review Group (NSRG)

The members of the NSRG will be assigned in accordance with established corporate/site administrative procedures. The responsibility of the NSRG is to oversee the activities of the Recovery Organization to ensure all Nuclear Safety aspects of the recovery operations are satisfied.

4.11 Public Relations Coordinator

The Vice-President - Public Affairs (or alternate) is assigned as the Public Relations Coordinator and is responsible to the President for the dissemination of information concerning the recovery and re-entry operations.

4.12 Quality Assurance Coordinator

The Director - Nuclear Quality Assurance is assigned as the Quality Assurance Coordinator and is responsible for ensuring that all quality assurance procedures are properly utilized for all aspects of the recovery operation.

4.13 Director-Nuclear Security

The Director-Nuclear Security is responsible for coordinating security activities such as personnel accountability and site access and egress.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ON-SITE RADIOLOGICAL EMERGENCY TEAM: ACTIVATION

RECORD OF APPROVAL AND CHANGES

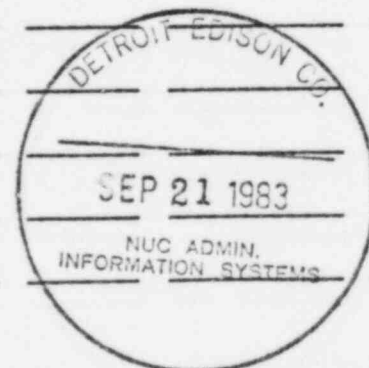
Prepared by K. Connell 05/10/83
Date
Approved by Thomas Raudap 8/22/83
Responsible Section Head Date
Recommended by E H Newton 8-23-83
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by DL Lant 8/23/83
OSRO Chairman/Alternate Date
Approved by DL Lant 8/23/83
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ON-SITE RADIOLOGICAL EMERGENCY TEAM: ACTIVATION

Prepared by	<u>K. Connell</u>	<u>5/10/83</u>
		Date
Recommended by	<u>Donald J. MacKenzie</u>	<u>5-31-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones Jr.</u>	<u>6/24/83</u>
	Community & Government Affairs	Date
Recommended by	<u>James P. Cooper</u>	<u>6-22-83</u>
	Insurance	Date
Recommended by	<u>Larry E. Scherman</u>	<u>6/17/83</u>
	Licensing	Date
Recommended by	<u>Mahmud Syed M.D.</u>	<u>6/22/83</u>
	Medical Staff	Date
Recommended by	<u>James J. Hain</u>	<u>5/31/83</u>
	Nuclear Administration	Date
Recommended by	<u>Guy R. Dunbar</u>	<u>5-31-83</u>
	Nuclear Production	Date
Recommended by	<u>J. B. Mervitt</u>	<u>5/31/83</u>
	Nuclear Training	Date
Recommended by	<u>Burt Schneiderman Rogers</u>	<u>5/31/83</u>
	Public Information	Date
Recommended by	<u>Stuart H. Zeech</u>	<u>5-31-83</u>
	Security	Date
Recommended by	<u>Maurice Hernandez</u>	<u>5/31/83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Randazzo</u>	<u>5/31/83</u>
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

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The following is a list of "laters" contained in this procedure. The responsible Section Head during subsequent revisions will update or remove this "later" sheet.

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Enclosures

List of Emergency Equipment.....	Enclosure	1
List of Equipment Storage Locations.....	Enclosure	2

1.0 Purpose

To prescribe the steps for activation of the On-Site Radiological Emergency Team (On-Site RET).

2.0. References

- 2.1. Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section E (Emergency Response Organization), Section I (Accident Assessment), Section J (Protective Response), and Section K (Radiological Exposure Control)
- 2.2 On-Site Radiological Emergency Team: Function of the On-Site Radiological Emergency Team (EP-201-2)
- *2.3 Health Physics Emergency Kits (69.000.25)

3.0 Entry Conditions

The On-Site RET shall be activated by the Emergency Director in the event of an incident with radiological consequences or the potential for radiological consequences.

4.0 General Information

- 4.1 The on-shift Health Physics Technician (or alternate), is the On-Site RET Leader.

NOTE: If the On-Site Personnel Monitoring Team is activated simultaneously, and only one Health Physics Technician is available, the Emergency Director will specify the priority of actions for the on-shift Health Physics Technician. (If the TSC is activated, the Radiation Protection Advisor will perform this function). This will preclude the on-shift Health Physics Technician from being expected to be in two places at once. Under these circumstances, off-site Health Physics personnel may be activated as discussed in Step 5.1.5.

- 4.2 When the Technical Support Center (TSC) has been activated the On-Site RET Leader shall report to the Emergency Director through the Radiation Protection Advisor.

5.0 Immediate Actions

5.1 The On-Site RET Leader shall:

- 5.1.1 Immediately contact the Emergency Director and acknowledge the order to activate the Team and verify the Team assembly location with the Emergency Director.
- 5.1.2 Proceed to the assembly area designated by the Emergency Director.
- 5.1.3 Contact the Emergency Director and report that the On-Site RET is activated and the number of RET members present.
- 5.1.4 Determine the status of the emergency from the Emergency Director, specifically with regard to the following (if known):
 - 1. Suspected cause of the emergency situation.
 - 2. Areas with an indication of abnormally high radiation.
 - 3. Areas with an indication of abnormally high airborne radioactive contamination.
 - 4. Releases or potential releases of radioactivity inside the plant or to the environment.
 - 5. Location and extent of fire and/or damage and severity of radiological hazards.
 - 6. Areas with other abnormal personnel hazards.
 - 7. If other Emergency Teams are activated.
 - 8. Applicable plant lineups and corrective actions taken by the Emergency Director.
- 5.1.5 Determine if off-shift Health Physics personnel or off-site support is necessary. If so, request support from the Operational Support Center (OSC) Coordinator. If the OSC is not activated, the request shall be made to the Emergency Director.
- 5.1.6 Brief the team members on the status of the emergency.

5.1.7 If the On-Site RET is only required at one location (for example a fire involving radioactive material):

1. Direct team members to obtain necessary emergency equipment. Examples of items which are available are listed in Enclosure 1 (See Reference 2.3). Storage locations are listed in Enclosure 2. If items are missing or additional equipment is necessary, contact the OSC Coordinator and request additional equipment. If the OSC is not activated, contact the Emergency Director.
2. Proceed to the location with the other team members and supervise On-Site RET activities.
3. At the scene, report to the appropriate team leader, as specified by OSC Coordinator or Emergency Director.

5.1.8 If the emergency is such that members of the Team are required in several different areas:

1. Determine what Team efforts are required at the various locations.
2. Assign Scene Leaders with sufficient personnel to carry out the RET function at each location.
3. Direct RET Scene Leaders to perform the following:
 - a. Obtain necessary emergency equipment (including radios). Items which are available are listed in Enclosure 1 and are found in storage locations listed in Enclosure 2. The RET Leader shall, if Scene Leaders require additional equipment, contact the OSC Coordinator and request additional equipment. If the OSC Coordinator is not available, contact the Emergency Director.
 - b. Proceed to their assigned locations.
 - c. Supervise On-Site RET activities at each location.
 - d. At the scene, report to the appropriate team leader, as specified by OSC Coordinator or Emergency Director.

e. Periodically report back to the RET Leader.

4. The RET Leader remains at the OSC or proceeds with one of the On-Site RET groups. The RET Leader's whereabouts must be made known to the RET Scene Leaders, Emergency Director, and OSC Coordinator.

5.1.9 Periodically report to the Emergency Director.

EXAMPLE OF
HEALTH PHYSICS EMERGENCY EQUIPMENT - OPERATIONAL SUPPORT CENTER

<u>ITEM</u>	<u>QUANTITY</u>
1. Set of Emergency Plan Implementing Procedures	1
2. Scott Air Paks	15
a. Extra air bottles	30
3. MSA Air Packs	5
a. Extra (Scott type) air bottles	10
4. Frisker (RM-14 or Ludlum 177)	6
5. Plastic Bags (Clear-5 Gallon)	App. 50
6. Dose Rate Meters (RO-2 or Equivalent)	6
7. Dosimeter Charger (with extra battery)	2
8. Personnel Dosimeters (500 or 1000 mR range)	20
9. Portable Air Sampler and Sample Head	5
a. Extra air sampler heads	5
b. Particulate filters	200
c. Silver zeolite cartridges	50
d. Bags and labels for air samples	App. 50
10. Portable Area Radiation Monitor	1
11. Survey Forms	App. 200
12. Log Books	10
13. Clip Boards	10
14. Boxes of Black Pens	12
15. Boxes of Grease Pencils	12
16. 150 Foot Rolls of Radiation Barrier	10

<u>ITEM</u>	<u>QUANTITY</u>
17. Caution Signs and Assorted Inserts	20
18. Full Sets of Protective Clothing	30
(To include: Coveralls, Cloth Hoods, Plastic Shoe Covers, Rubber Shoe Covers, Cotton Glove Liners, Plastic Gloves, Rubber Gloves, Surgeons' Caps)	
19. Partial Sets of Protective Clothing:	50
(To include: Cotton Glove Liners, Plastic Gloves, Plastic Shoe Covers)	
20. Rolls of Masking Tape	50
21. Boxes of Smears	40
22. Step-Off Pads	10
23. Large Plastic Bags	App. 50
24. Full Face Respirators (with extra filters)	10
25. Flashlights	5
a. Extra Batteries	10
26. Check Source	1

EMERGENCY EQUIPMENT STORAGE LOCATIONS

(later)

END

Enclosure 2
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ON-SITE RADIOLOGICAL EMERGENCY TEAM: FUNCTIONS

RECORD OF APPROVAL AND CHANGES

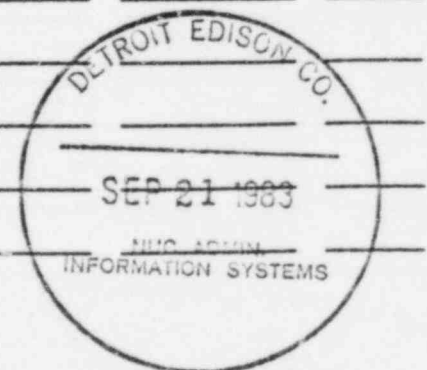
Prepared by K. Connell 4/11/83
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E.H. Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/Lent 8/23/83
OSRO Chairman/Alternate Date
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Superintendent-Nuclear Date
Production/Delegate

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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ON-SITE RADIOLOGICAL EMERGENCY TEAM: FUNCTIONS

Prepared by	<u>T. Randazzo</u> <i>T. Randazzo</i>	<u>4/11/83</u> Date
Recommended by	<u>Donald Ince Kenzie</u> Communication System Division	<u>4-28-83</u> Date
Recommended by	<u>James L Jones</u> Community Government Affairs	<u>4-28-83</u> Date
Recommended by	<u>R. L. Shaw</u> Insurance	<u>4/28/83</u> Date
Recommended by	<u>Mahmud Sayed M. M.</u> Medical Staff	<u>4/28/83</u> Date
Recommended by	<u>J. M. Bay</u> Nuclear Administration	<u>4/28/82</u> Date
Recommended by	<u>G. N. Kunkel</u> Nuclear Production	<u>7-14-83</u> Date
Recommended by	<u>Meredith</u> Nuclear Training	<u>4/28/83</u> Date
Recommended by	<u>John A. Rogers</u> Public Information	<u>4/28/83</u> Date
Recommended by	<u>Thurt H. Zech</u> Security	<u>4-28-83</u> Date
Recommended by	<u>Maurice L. Vermeulen</u> Wayne-Monroe Division	<u>5-11-83</u> Date
Approved by	<u>Thomas Randazzo</u> RERP Committee Chairperson	<u>4/28/83</u> Date

Revision
No.

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1.0 Purpose

To describe the function of the On-Site Radiological Emergency Team (On-Site RET) in the event of an incident involving radiological hazards.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section I (Accident Assessment), Section J (Protective Response), and Section K (Radiological Exposure Control)
- *2.2 On-Site Radiological Emergency Team: Activation (EP-201-1)
- *2.3 Radiation, Contamination, and Airborne Guides & Limits (61.000.05)
- *2.4 Health Physics Posting (61.000.15)
- *2.5 Radiological/Medical Emergency (69.000.10)
- *2.6 Emergency Exposure Limits (69.000.15)

3.0 Entry Conditions

The On-Site RET is to be activated at the discretion of the Nuclear Shift Supervisor or Emergency Director whenever a radiological incident is known or threatens to occur.

4.0 General Information

- 4.1 The responsibilities of the On-Site RET include the following:
 - 4.1.1 Conducting radiation, contamination and airborne radioactivity surveys.
 - 4.1.2 Assisting the Fire Brigade and Damage and Rescue Team Leaders in briefing personnel concerning expected radiological hazards.
 - 4.1.3 Assisting the Fire Brigade and Damage and Rescue Team Leaders by computing stay times. Instructing personnel concerning areas they should avoid so as to minimize their radiation contamination and to limit contamination spread.
 - 4.1.4 Ensuring that personnel have proper protective clothing and respiratory equipment.

*Denotes "Use" Reference

- 4.1.5 Ensuring that personnel have been issued appropriate personnel dosimetry, including a TLD badge and a pocket ionization chamber. The pocket ionization chamber should be read prior to use and zeroed if the reading is greater than twenty-five percent (25%).
 - 4.1.6 Establishing controlled areas to limit the spread of contamination.
 - 4.1.7 Supervising the clean up of contaminated areas.
 - 4.1.8 Supervising the decontamination of tools and equipment, as required.
 - 4.1.9 Performing off-site surveys prior to the activation of the Off-Site RET.
- 4.2 The routine radiation exposure limits of Health Physics Procedure 61.000.05 (Radiation, Contamination, and Airborne Guides and Limits) shall not be exceeded unless specifically authorized by Health Physics personnel. The 10CFR20 limits shall not be exceeded unless specifically authorized by the Emergency Director. Emergency exposure limits are delineated in Procedure 69.000.15 (Emergency Exposure Limits).
- 4.3 Contaminated equipment shall not be removed from a controlled area until released by Health Physics Personnel.
- 4.4 If the TSC is activated, the On-Site RET Leader will report to the Emergency Director through the Radiation Protection Advisor.

5.0 Immediate Actions

- 5.1 The On-Site RET Leader shall activate the On-Site RET in accordance with EP-201-1 (On-Site RET: Activation).
- 5.2 The designated On-Site RET members shall:
 - 5.2.1 Obtain necessary equipment as directed by the On-Site RET Leader.
 - 5.2.2 Proceed to the scene and report to the appropriate Emergency Team Leader.

NOTE: The Fire Brigade Leader is responsible for coordinating the actions of all Emergency Response Teams reporting to the scene of a fire. If the Fire Brigade is not activated, the Damage Control and Rescue Team Leader will be in charge at the scene. The French-town Fire Department may be activated to

augment the Fire Brigade. Fire Department personnel receive only limited training, and must be closely supervised to minimize radiological problems.

- 5.2.3 In the event of a fire involving radiological hazards, efforts to control spreading radioactive contamination shall not impede steps in controlling a serious fire or reducing damage. This is a judgment which must be made by the Team Leader depending on the specific situation.
- 5.2.4 If an emergency involves contaminated/injured personnel, the actions of Health Physics Procedure 69.000.10 (Radiological/ Medical Emergency) shall be followed.
- 5.2.5 If possible, perform a quick general radiation survey.
- 5.2.6 If the area is expected to have significant airborne contamination, recommend that Scott Air Paks be used. As soon as time permits, determine the actual airborne contamination levels. Less restrictive respiratory equipment can then be recommended, if permissible.
- 5.2.7 Perform a quick contamination survey. If necessary, establish a controlled area.
- 5.2.8 Assist in briefing personnel concerning radiological hazards.
- 5.2.9 Compute stay times and instruct personnel concerning areas they should avoid so as to minimize their radiation exposure and contamination.

CAUTION

The routine radiation exposure limits of Health Physics Procedure 61.000.05 (Radiation, Contamination, and Airborne Guides and Limits) shall not be exceeded unless specifically authorized by Health Physics personnel. The 10CFR20 limits shall not be exceeded unless specifically authorized by the Emergency Director. Emergency exposure limits are delineated in Procedure 69.000.15 (Emergency Exposure Limits).

- 5.2.10 Ensure that personnel have proper protective clothing and respiratory equipment.
- 5.2.11 Ensure that personnel have been issued appropriate personnel dosimetry, including a TLD badge and a pocket

ionization chamber. The pocket ionization chamber should be read prior to use and zeroed if the reading is greater than twenty-five percent (25%).

5.2.12 Assist in supervising the actions of personnel so as to minimize radiation exposure.

5.2.13 Assist in supervising the actions of personnel so as to minimize the spread of contamination, as necessary. Recommended steps include the following:

1. Only essential equipment should be brought into contaminated areas.
2. All equipment used in contaminated areas should be treated as potentially contaminated. Equipment should not be removed from controlled areas until released by Health Physics personnel.
3. Route fire hoses so as to avoid areas of loose surface contamination or spilled radioactive materials.
4. Avoid dragging fire hoses and equipment through areas of loose surface contamination or spilled radioactive materials.
5. Avoid using a direct stream from fire hoses, if possible, and avoid hitting loose surface contamination or other radioactive materials with a direct stream.
6. Avoid areas of higher contamination levels or areas where more highly radioactive materials are located, in favor of low-level contamination areas or areas where low-level radioactive materials are located.
7. Treat all water in controlled areas as potentially contaminated.

5.3 In the event of a significant radioactive spill, the RET Scene Leader shall carry out the following:

CAUTION

Only qualified personnel shall operate any valves, switches, or other equipment necessary to accomplish the prescribed actions.

5.3.1 Stop the source of spill, if not already accomplished.

5.3.2 Isolate the areas encompassed by the spill.

1. Set up boundaries to identify the spill area.
2. Rope off the affected area if possible.

5.3.3 Minimize exposure to personnel.

1. Remove any potentially contaminated personnel from the spill area.
2. Set up a controlled access area in accordance with Health Physics Procedure 61.000.15 (Health Physics Posting) to minimize radiation exposure or contamination.

5.3.4 Secure any ventilation blowing on the area to minimize airborne radioactivity.

5.3.5 Determine radiation contamination, and airborne radioactive contamination levels.

5.4 In the event of a significant release of radioactive liquid to the environment the On-Site RET Leader shall carry out the following:

5.4.1 Direct team members to obtain water samples if the liquid release has entered, or potentially entered, the waters of Lake Erie.

1. Fermi I potable water intake.
2. City of Monroe water intake.

5.4.2 Instruct team members on the following:

1. Obtaining necessary transportation for access to all survey areas.
2. Obtaining necessary instrumentation and equipment for surveys.
3. Obtaining necessary radios for communication.
4. Surveys and samples to be obtained.

5.5 In the event of a gaseous radioactive release to the environment:

5.5.1 The On-Site RET Leader shall instruct Team members on the following:

1. Obtaining necessary transportation for access to all survey areas.
2. Obtaining necessary instrumentation and equipment for surveys.

3. Obtaining necessary radios for communications.
4. Surveys and samples to be obtained.
5. Making periodic reports to the Team Leader.
6. Maintaining records of all samples taken.

5.5.2 Team members shall perform the following:

1. Change effluent filters and cartridges and obtain effluent gas samples.

6.0 Follow-up Actions

6.1 The On-Site RET Leader shall:

- 6.1.1 Maintain communications with all On-Site RET Scene Leaders.
- 6.1.2 Keep the Radiation Protection Advisor informed of the status of the emergency, RET efforts, and any radiological consequences of the incident, especially with regard to the following.
 1. Areas and occurrences with significant radiological conditions.
 2. Contaminated personnel and the status of any decontamination efforts.
 3. Sample and survey results.
 4. Establishment of controlled areas.
 5. Recommendations for clean-up of contaminated areas and removal of potentially contaminated water.

6.2 The On-Site RET Scene Leader shall:

- 6.2.1 Keep the On-Site RET Leader informed of the status of the emergency and RET efforts at the scene.
- 6.2.2 Carry out instructions of On-Site RET Leader.
- 6.2.3 Supervise the decontamination of emergency equipment and areas.
- 6.2.4 At the conclusion of On-Site RET efforts, direct an inventory of On-Site RET emergency equipment used at the scene.

1. Any missing equipment shall be recovered or replaced.
2. Any damaged equipment shall be repaired/replaced and reported to the General Supervisor - Health Physics.
3. All equipment shall be checked for proper operability, serviced, or repaired as necessary (batteries replaced, filters replaced, etc.) and restowed in proper storage locations.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: VARIANCES FROM ROUTINE RADIOLOGICAL PRACTICE
AND PROCEDURES DURING AN EMERGENCY

RECORD OF APPROVAL AND CHANGES

Prepared by P. J. Lavelly 08/12/83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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Typed by: Margot Spand (RERP #13)
Revised by: Jerri Rouleau

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: VARIANCES FROM ROUTINE RADIOLOGICAL PRACTICES
AND PROCEDURES DURING AN EMERGENCY

Prepared by	P. J. Lavelly	08/12/83
		Date
Recommended by	Donald Smac Kenzie Communication System Division	9-27-83
		Date
Recommended by	James L. Jones Community & Government Affairs	9-29-83
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Recommended by	Larry E. Schuerman Licensing	9-30-83
		Date
Recommended by	Mahmoud Syed, M.D. Medical Staff	9/27/83
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Recommended by	James S. Paine Nuclear Administration	9/27/83
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Recommended by	M. L. Vermeulen Nuclear Production	9-30-83
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Recommended by	Karen K. Thompson Nuclear Training	9-27-83
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Recommended by	Paul R. Haffner Public Information	9-27-83
		Date
Recommended by	John J. Lavelly Security	9-27-83
		Date
Recommended by	M. L. Vermeulen / E Wayne-Monroe Division	9/27/83
		Date
Approved by	Thomas Randazzo RERP Committee Chairperson	9/27/83
		Date

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1.0 Purpose

To describe variances from routine radiological practices and procedures which may be necessitated in the event of a radiological emergency.

2.0 References

2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section I (Accident Assessment), Section J (Protective Response), and Section K (Radiological Exposure Control).

2.2 Potassium Iodide (69.000.11)

3.0 Entry Conditions

3.1 The variances discussed in this procedure may be implemented in conjunction with a declared emergency, as directed by the Emergency Director, or alternately at the discretion of Health Physics personnel. In some cases these variances may be deemed appropriate by the individual at the scene, if adherence to routine practices and procedures would adversely impact the emergency response (e.g., accident mitigation or first aid/life saving activities).

3.2 In general, the following criteria can be applied to a situation or event to determine the applicability of varying from routine procedures:

- o It involves an actual or potential threat to personnel, the plant, or the public.
- o It requires a timely (or immediate) response which precludes following routine practices or procedures.

4.0 General Information

4.1 Authorized variances from routine radiological practices and procedures include a relaxation or reduction of some administrative radiological controls. This is done for the purpose of making a timely (or immediate) response to emergency conditions.

4.2 Generally, these variances represent a shift from a program of long-term protection against occupational exposure to a program of immediate safety against emergency exposure. What remains unchanged in both cases is that all planned exposures: (1) must be justified, and (2) must be controlled and monitored (to the extent practical).

4.3 The types of variances which may be authorized during an emergency include:

- o Increase in personnel exposure limits.
- o Decrease in requirements relating to RWPs and access control.
- o Reduction in equipment requirements (Anti C clothing and respirators).

5.0 Immediate Actions

5.1 Personnel Exposure Limits

5.1.1 Personnel exposure limits may be increased from the routine administrative limits of 100 mrem/wk. This means that, in response to emergency conditions, an individual could be authorized to be exposed up to a quarterly total of 1.25 rem. With appropriate documentation this limit can be extended to 3 rem for the quarter. These exposure limits may be authorized by the Senior Health Physics representative present.

5.1.2 The weekly limits of 600 mrem for skin exposure and 1500 mrem for extremities can be increased to 7.5 rem, and 18.75 rem/quarter, respectively. These limits may also be authorized by the Senior Health Physics representative present.

AUTHORIZATION TO EXCEED THE 10CFR20 FEDERAL LIMITS MUST COME FROM THE EMERGENCY DIRECTOR IN ACCORDANCE WITH PROCEDURE 69.000.11.

5.2 RWPs and Access Control

5.2.1 The requirement for written, approved Radiation Work Permits, RWPs, prior to commencing work, may be suspended. RWPs may be issued verbally or prepared after the fact by Health Physics personnel to allow for timely emergency response and rapid changes in working conditions.

5.2.2 Authorization may be given to violate or disregard radiological barriers or signs for the performance of a particular job or function. These authorizations will normally come from Health Physics personnel who are on-the-scene for work-related and emergency response functions. However, individuals may disregard RWP and HP access control restraints (rope barriers,

etc.) without authorization from Health Physics for the purposes of accident mitigation, rescue, and rendering of major first aid if:

1. They have a means of determining radiation levels (indication of a nearby area radiation monitor, available survey instrument, or on-scale self-reading dosimeter), and
2. Have a means of monitoring their own exposure (TLD), and
3. Remain within regulatory exposure limits (i.e., 1.25 rem whole body exposure for the quarter).

5.3 Protective Measures and Equipment

- 5.3.1 Personnel may be authorized by the Emergency Director to enter areas for short-time surveillance or response functions without the equipment normally required. This may include:
1. Entering a contaminated area without Anti Contamination clothing.
 2. Entering an airborne radioactivity area without respiratory equipment.
 3. Entering a high radiation area without a high range (self-reading) or alarming personnel dosimeter.
- 5.3.2 Routine radiological requirements will remain in effect for occupation of any plant area if time and circumstances permit following normal procedures.
- 5.3.3 The increased or changing priorities for Health Physics during an emergency may limit the immediate availability of HP personnel for performance of surveillance and monitoring. Therefore, individuals may be provided with survey meters to perform surveillance and monitoring of their own work or to supplement the plant-wide surveillance capabilities.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ON-SITE PERSONNEL MONITORING TEAM: ACTIVATION

RECORD OF APPROVAL AND CHANGES

Prepared by K. Connell 5/7/83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

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Typed by: Rebecca Foley (RERP #6)
Revised by: Debbie Hatto

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ON-SITE PERSONNEL MONITORING TEAM: ACTIVATION

Prepared by	K. Connell	5/7/83
		Date
Recommended by	<i>Donald S. Mac Kenzie</i> Communication System Division	5-31-83
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Recommended by	<i>James L. Jones</i> Community & Government Affairs	6/24/83
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Recommended by	<i>James P. Cooper</i> Insurance	6-22-83
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Recommended by	<i>Henry E. Schurman</i> Licensing	6/17/83
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Recommended by	<i>Mahmoud Syed, M.D.</i> Medical Staff	6/22/83
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Recommended by	<i>James J. Davis</i> Nuclear Administration	5/31/83
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Recommended by	<i>Dwight R. Brubaker</i> Nuclear Production	5-31-83
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Recommended by	<i>J.B. Brundage</i> Nuclear Training	5/31/83
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Recommended by	<i>Barthelme J. Bergman</i> Public Information	5/31/83
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Recommended by	<i>Stuart H. Leach</i> Security	5-31-83
		Date
Recommended by	<i>Marcia F. Vermeulen</i> Wayne-Monroe Division	5/31/83
		Date
Approved by	<i>Thomas Randazzo</i> RERP Committee Chairperson	5/31/83
		Date

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No.

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Chairperson Approved

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The following is a list of "laters" contained in this procedure. The responsible Section Head during subsequent revisions will update or remove this "later" sheet.

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Enclosure 2

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Enclosures

Example of List of Emergency Equipment	Enclosure 1
List of Emergency Equipment Storage Locations . . .	Enclosure 2

1.0 Purpose

To prescribe the steps for activating the On-Site Personnel Monitoring Team (On-Site PMT).

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section I (Accident Assessment), Section J (Protective Response), Section K (Radiological Exposure Control), and Section L (Medical Support)
- 2.2 On-Site Personnel Monitoring Team: Functions (EP-202-2)
- 2.3 Health Physics Emergency Kits (69.000.25)

3.0 Entry Conditions

The On-Site PMT shall be activated at the discretion of the Emergency Director in the event of:

- 3.1 Visitors' Center evacuation.
- 3.2 A Plant Area evacuation.
- 3.3 A Protected Area evacuation.
- 3.4 A Site Area evacuation.

4.0 General Information

- 4.1 The On-Site PMT is composed of Health Physics personnel and selected other trained personnel. The on-shift Health Physics Technician or alternate, the on-shift Radio-Chemistry Technician, is designated as the On-Site Personnel Monitoring Team Leader.

NOTE: If the On-Site Radiological Emergency Team (On-Site RET) is activated simultaneously, the Emergency Director will specify the priority of actions for the on-shift Health Physics Technician. (If the TSC is activated, the Radiation Protection Advisor will perform this function). This will preclude the on-shift Health Physics Technician from being expected to be in two places at once. Under these circumstances, off-shift Health Physics personnel will be activated as discussed in step 5.1.5.

- 4.2 If the TSC is activated, the On-Site PMT Leader shall report to the Radiation Protection Advisor.

5.0 Immediate Actions

5.1 The On-Site PMT Leader shall:

5.1.1 Immediately contact the Radiation Protection Advisor (or the Emergency Director if the TSC is not activated) and acknowledge the order to activate the Team and verify the Team assembly location.

5.1.2 Proceed to the designated assembly location.

5.1.3 Contact the On-Site RET Leader and report that the On-Site PMT is activated.

5.1.4 Determine the status of the emergency from the On-Site RET Leader, specifically with regard to the suspected radiological consequences of the emergency situation.

5.1.5 Determine if off-shift On-Site PMT personnel or off-site support is necessary and request support from the Operational Support Center (OSC) Coordinator. If the OSC is not activated, the request shall be made to the Emergency Director.

5.1.6 Brief Team members on the status of the emergency as determined in step 5.1.4.

5.1.7 If the On-Site PMT is only required at one evacuation assembly area:

1. Direct Team members to obtain necessary emergency equipment. Items which are available are listed in Enclosure 1 and are found in storage locations listed in Enclosure 2. If items are missing or additional equipment is necessary, contact the OSC Coordinator and request additional equipment. If the OSC is not activated, contact the Emergency Director.

2. Proceed to the location and perform the On-Site PMT functions.

5.1.8 If the emergency is such that members of the team are required at several assembly areas, the On-Site PMT Leader shall:

1. Determine what Team efforts are required at the various locations.

2. Assign On-Site PMT Scene Leaders, each with sufficient personnel to carry out the On-Site PMT functions at each location.

NOTE: The On-Site PMT Leader can assume the role of On-Site PMT Scene Leader at one of the locations while still retaining responsibility for overall control of On-Site PMT efforts.

3. Direct Scene Leaders to perform the following:
 - a. Obtain necessary emergency equipment. Items which are available are listed in Enclosure 1 and are found in storage locations listed in Enclosure 2. If items are missing or additional equipment is necessary, contact the OSC Coordinator.
 - b. Proceed to their assigned assembly areas.
 - c. Supervise On-Site PMT activities at each location.
 - d. At the scene, report to the appropriate team leader.
 - e. Carry out the steps of EP 202-2 (On-Site Personnel Monitoring Team: Functions).
 - f. Periodically report back to the On-Site PMT Leader.

5.1.9 Periodically report status to the On-Site RET Leader.

EXAMPLE OF
HEALTH PHYSICS EMERGENCY EQUIPMENT
ON-SITE PMT

<u>ITEM</u>	<u>QUANTITY REQUIRED</u>
1. FRISKER (Eberline RM-14 or Ludlum 177) and pancake probe (3).	2
2. Dose Rate Meter (E520 or R02)	1
3. Box of Smears	6
4. Envelopes for Smears	App. 100
5. Paper Clothing Sets (To include: Coveralls, Hood, Plastic Shoe Covers, Plastic Gloves, Cotton Glove Liners, Surgeon's Caps)	10
6. Rolls of Masking Tape	2
7. Packages of Q-Tips (or Equivalent)	1
8. Flashlight	1
a. Extra Batteries	2

EMERGENCY EQUIPMENT STORAGE LOCATIONS

(Later)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ON-SITE PERSONNEL MONITORING TEAM: FUNCTIONS

RECORD OF APPROVAL AND CHANGES

Prepared by T. Randazzo 04/12/83
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Approved by *[Signature]* TK 9-6-83
Responsible Section Head Date
Recommended by *E H Newton* 9-6-83
Supervisor - Operational Date
Assurance/Delegate

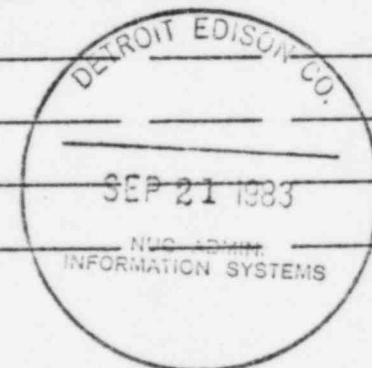
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IF SAFETY-RELATED, PLEASE CONTINUE

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OSRO Chairman/Alternate Date
Approved by *[Signature]* 9/6/83
Superintendent-Nuclear Date
Production/Delegate

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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ON SITE PERSONNEL MONITORING TEAM: FUNCTIONS

Prepared by	<u>T. Randazzo</u>	<u>04/12/83</u> Date
Recommended by	<u>Walter A. Zambelli / DSM</u> Communication System Division	<u>7-29-83</u> Date
Recommended by	<u>James L. Jones</u> Government Affairs	<u>7-29-83</u> Date
Recommended by	<u>Larry E. Scherman</u> Licensing	<u>8/2/83</u> Date
Recommended by	<u>Robert H. Monahan</u> Medical Staff	<u>7/29/83</u> Date
Recommended by	<u>James S. Francis</u> Nuclear Administration	<u>7/29/83</u> Date
Recommended by	<u>E. R. Overbeck / E. Preston</u> Nuclear Production	<u>7/29/83</u> Date
Recommended by	<u>Edward J. Francis</u> Nuclear Training	<u>7/29/83</u> Date
Recommended by	<u>Butt Neffner</u> Public Information	<u>7-29-83</u> Date
Recommended by	<u>Michael G. Gable / Simon H. Gable</u> Security	<u>7-29-83</u> Date
Recommended by	<u>W. J. Knevelen / G. J. Knevelen</u> Wayne-Monroe Division	<u>7-29-83</u> Date
Recommended by	<u>T. Randazzo / G. J. Knevelen</u> RERP Committee Chairperson	<u>8/1/83</u> Date

Revision
No.

RERP Committee
Chairperson Approved

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6.0 Follow-Up Actions	5

Attachments

Record Form: Disposition of Evacuees Attachment 1

1.0 Purpose

To prescribe the functions of the On-Site Personnel Monitoring Team (On-Site PMT).

2.0 References

2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section I (Accident Assessment), Section J (Protective Response), Section K (Radiological Exposure Control), and Section L (Medical Support)

*2.2 On-Site Personnel Monitoring Team: Activation (EP-202-1)

*2.3 Vehicle Monitoring/Decontamination (EP-502)

*2.4 Radiological/Medical Emergency (69.000.10)

3.0 Entry Conditions

The On-Site PMT shall be activated at the discretion of the Emergency Director in the event of:

3.1 Visitors' Center evacuation.

3.2 Plant Area evacuation.

3.3 Protected Area evacuation.

3.4 Site Area evacuation.

4.0 General Information

4.1 The responsibilities of the On-Site PMT in the event of an incident involving radiological hazards are the following:

4.1.1 On-Site surveying of personnel and vehicles (see Reference 2.3) for contamination.

4.1.2 Supervising the On-Site decontamination of personnel and vehicles (see Reference 2.3).

4.1.3 Assisting the On-Site Radiological Emergency Team (On-Site RET), if necessary, in the performance of its duties.

4.1.4 Assisting Nuclear Security, as necessary, in accounting for personnel following an evacuation.

*Denotes "Use" Reference

- 4.2 If possible, contaminated personnel without serious injuries who require off-site medical assistance, shall be decontaminated prior to their removal from the site. If it is not possible to decontaminate the personnel without aggravating the injury or delaying proper medical attention, sufficient steps to minimize the spread of the radioactive contamination which do not delay medical attention shall be taken.

5.0 Immediate Actions

- 5.1 The On-Site RET Leader shall activate the On-Site PMT in accordance with EP-202-1 (On-Site Personnel Monitoring Team: Activation).
- 5.2 The designated On-Site PMT members shall:
- 5.2.1 Obtain necessary equipment as directed by the On-Site PMT Leader.
- 5.2.2 Proceed to the assembly area or the scene as directed by the On-Site PMT Team Leader.
- 5.3 In the event of an evacuation of the Visitors' Center, the On-Site PMT Leader shall:
- 5.3.1 If only the Visitors' Center is evacuated and monitoring is required, direct the members of the On-Site PMT to obtain necessary equipment and report to the assembly area.
- 5.3.2 Upon arrival at the assembly point the On-Site PMT Leader shall:
1. Survey the assembly area. If radiation levels prevent frisking, notify the On-Site RET Leader and recommend an alternate assembly area.
 2. Determine the extent of personnel and vehicle (see Reference 2.3) contamination.
 3. In the event of injured personnel, or personnel with radioactive contamination or radiation exposure in excess of plant limits, carry out the appropriate steps in Procedure 69.000.10 (Radiological/Medical Emergency).
 4. Inform the On-Site RET Leader of the status of the On-Site PMT efforts.
 5. Upon completion of On-Site PMT duties, assist Nuclear Security in personnel accountability.

6. For all personnel who have been contaminated, complete the "Disposition of Evacuee" form (Attachment 1).
 7. Carry out appropriate steps of Section 5.4.
 8. Direct personnel to monitor the visitors at the assembly area. Visitors should receive careful attention to ensure that they are properly monitored and that applicable records are thorough and complete.
- 5.4 In the event of a Plant Area or Protected Area evacuation, upon arrival at the area the On-Site PMT Leader shall:
- 5.4.1 Survey the area. If radiation levels prevent frisking, notify the On-Site RET Leader and request instructions.
 - 5.4.2 Instruct the evacuees to remain at the assembly area until released by the On-Site PMT and Nuclear Security.
 - 5.4.3 Determine the extent of personnel and vehicle (see Reference 2.3) contamination.
 - 5.4.4 In the event of personnel with injuries, radioactive contamination or radiation exposure in excess of plant limits, carry out the appropriate steps in Procedure 69.000.10 (Radiological/Medical Emergency).
 - 5.4.5 Report to the On-Site RET Leader the status of the On-Site PMT efforts.
 - 5.4.6 Upon completion of On-Site PMT duties, assist Nuclear Security in personnel accountability.
 - 5.4.7. For all personnel who are contaminated, injured, or suffering from excessive radiation exposure in excess of plant limits, complete "Disposition of Evacuee" form (Attachment 1).
- 5.5 In the event of a Site Area evacuation:
- 5.5.1 If the Protected Area has not previously been evacuated, the On-Site PMT Leader shall follow the Steps of Section 5.4.

6.0 Follow-up Actions

6.1 The On-Site PMT Leader shall:

- 6.1.1 Instruct the Scene Leaders to perform the following:
 - 1. Collect personnel dosimetry, as necessary.
 - 2. Supervise the decontamination of personnel.
 - 3. Assist Nuclear Security to ensure personnel accountability.
 - 4. Order the release of evacuees after obtaining permission from the On-Site PMT Leader and Nuclear Security.
- 6.1.2 Forward copies of the "Disposition of Evacuee" forms to Nuclear Security and Health Physics.
- 6.1.3 Prior to authorizing the release of any evacuees, obtain permission from the RET Leader and Nuclear Security for their release and brief the evacuees on the emergency situation including any radiological hazards which may be encountered.
- 6.1.4 Maintain accurate records of all contaminated personnel and vehicles (see Reference 2.3).
- 6.1.5 At the conclusion of On-Site PMT efforts, direct an inventory of PMT emergency equipment used at the scene.
 - 1. Any missing equipment shall be recovered or replaced.
 - 2. Any damaged equipment shall be repaired/replaced, and reported to the Health Physics Supervisor.
 - 3. All equipment shall be checked for proper operability, serviced or repaired as necessary (batteries replaced, filters replaced, etc.) and restowed in proper storage locations.

RECORD FORM: DISPOSITION OF EVACUEE

Date: _____
Time: _____1. Name: _____ Social Security: _____
Last First MI

2. Badge No. _____ Date of Birth: _____

3. Address: (For non-employee only): _____
_____4. Dosimeter Type: _____ TLD No. _____
Serial: _____
Reading: _____5. Surface Contamination Level: _____
Instrument/Serial: _____6. Disposition Detained (Reason): _____
Released Date: _____
Time: _____7. Remarks:
(For Information Center Evacuees, include auto license number.)

Recorded by: _____

Reviewed by: _____

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: OFF-SITE PERSONNEL MONITORING TEAM: ACTIVATION

RECORD OF APPROVAL AND CHANGES

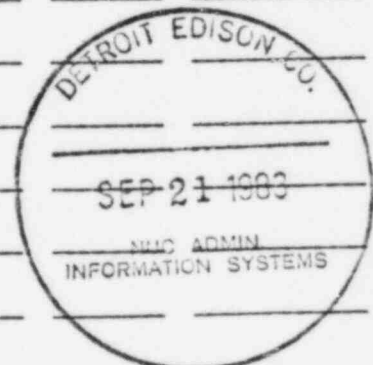
Prepared by P. Lavelly 07/08/83
Date
Approved by [Signature] 9-6-83
Responsible Section Head Date
Recommended by E H Newton 9-6-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by R L Lunt 9/6/83
OSRO Chairman/Alternate Date
Approved by R L Lunt 9/6/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: OFF-SITE PERSONNEL MONITORING TEAM: ACTIVATION

Prepared by	<u>P. Lavelly</u>	<u>07/08/83</u> Date
Recommended by	<u>Walter A. Zambelli / DSM</u> Communication System Division	<u>7-29-83</u> Date
Recommended by	<u>James L. Jones</u> Community & Government Affairs	<u>7-29-83</u> Date
Recommended by	<u>Larry E. Schumann</u> Licensing	<u>8/2/83</u> Date
Recommended by	<u>Michael J. McManis</u> Medical Staff	<u>7/29/83</u> Date
Recommended by	<u>James J. Davis</u> Nuclear Administration	<u>7/29/83</u> Date
Recommended by	<u>G.R. Overbeck / E. Preston</u> Nuclear Production	<u>7/29/83</u> Date
Recommended by	<u>Edmund J. Fanning</u> Nuclear Training	<u>7/29/83</u> Date
Recommended by	<u>Bert Heffner</u> Public Information	<u>7-29-83</u> Date
Recommended by	<u>M. J. Smith / E. Preston</u> Security	<u>7-29-83</u> Date
Recommended by	<u>M. J. McManis by P. Lavelly</u> Wayne-Monroe Division	<u>7-29-83</u> Date
Approved by	<u>T. Lavelly by E. Preston</u> RERP Committee Chairperson	<u>8/1/83</u> Date

Revision
No.

RERP Committee
Chairperson Approved

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5.0 Immediate Actions	1

Enclosures

Example of List of Emergency Equipment	Enclosure 1
List of Emergency Equipment Storage Locations	Enclosure 2

The following is a list of "laters" contained in this procedure. The responsible Section Head during subsequent revisions will update or remove this "later" sheet.

<u>Section</u>	<u>Page</u>
List of Emergency Equipment Storage Location	Enclosure 2

1.0 Purpose

To prescribe the steps for activating the Off-Site Personnel Monitoring Team (Off-Site PMT).

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section J (Protective Response), Section K (Radiological Exposure Control) and Section L (Medical Support)
- 2.2 Off-Site Personnel Monitoring Team: Functions (EP-202-4)
- 2.3 Health Physics Emergency Kits (69.000.25)

3.0 Entry Conditions

The Off-Site PMT shall be activated at the discretion of the Emergency Director in the event that surveys of personnel or equipment off-site are required.

4.0 General Information

- 4.1 The Off-Site PMT is composed of selected Fermi 2 personnel.
- 4.2 If the Technical Support Center (TSC) is activated, the Off-Site PMT Leader shall report to the Radiation Protection Advisor (Emergency Director if TSC is not activated).

5.0 Immediate Actions

5.1 The Off-Site PMT Leader shall:

- 5.1.1 Immediately contact the Radiation Protection Advisor (Emergency Director if the TSC is not activated) and acknowledge the order to activate the Team and verify the Team assembly location.
- 5.1.2 Proceed to the designated assembly area.
- 5.1.3 Report to the Radiation Protection Advisor (Emergency Director if TSC is not activated) that the Off-Site PMT is activated.
- 5.1.4 Determine the status of the emergency from the Radiation Protection Advisor specifically with regard to the following (if known):

1. Suspected radiological consequences of the emergency situation.
2. Number and locations of personnel with contamination or excessive radiation exposure.

5.1.5 Determine if additional equipment or off-shift personnel is necessary and request support from the Operational Support Center (OSC) Coordinator. If the OSC is not activated, the request shall be made to the Emergency Director.

5.1.6 Brief Team members on the status of the emergency as determined in Step 5.1.4.

5.1.7 If the Off-Site PMT is only required at one evacuation assembly area:

1. Direct Team members to obtain necessary emergency equipment. An example of items which are available are listed in Enclosure 1 and are found in storage locations listed Enclosure 2. If items are missing or additional equipment is necessary, contact the OSC Coordinator and request additional equipment. If the OSC Coordinator is not activated, contact the Emergency Director.
2. Proceed to the location and perform the Off-Site PMT functions.

5.1.8 If the emergency is such that members of the Team are required at several assembly areas, the Off-Site PMT Leader shall:

1. Determine what Team efforts are required at the various locations.
2. Assign Off-Site PMT Scene Leaders, each with sufficient personnel to carry out the Off-Site PMT functions at each location.

NOTE: The Off-Site PMT Leader assumes the role of Off-Site PMT Scene Leader at one of the locations while still retaining responsibility for overall control of Off-Site PMT efforts.

3. Direct Scene Leaders to perform the following:

- a. Obtain necessary emergency equipment. An example of items which are available are listed in Enclosure 1 and are found in storage locations listed in Enclosure 2. If items are missing or additional equipment is necessary, contact the Off-Site PMT Leader.
- b. Proceed to their assigned assembly areas.
- c. Supervise Off-Site PMT activities at each location.
- d. Carry out the steps of EP-202-4 (Off-Site Personnel Monitoring Team: Functions).
- e. Periodically report back to the Off-Site PMT Leader.

EXAMPLE OF
HEALTH PHYSICS EMERGENCY EQUIPMENT
OFF-SITE PMT

<u>ITEM</u>	<u>QUANTITY REQUIRED</u>
1. FRISKER (Eberline RM-14 or Ludlum 177) and Pancake Probe (3)	2
2. Dose Rate Meter (E520 or R02)	1
3. Box of Smears	6
4. Envelopes for Smears	App. 100
5. Paper Clothing Sets (to include: coveralls, hood, plastic shoe covers, plastic gloves, cotton glove liners, surgeon's caps)	10
6. Rolls of Masking Tape	
7. Packages of Q-Tips (or equivalent)	1
8. Flashlight	1
a. Extra Batteries	2

EMERGENCY EQUIPMENT STORAGE LOCATIONS

(LATER)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: OFF-SITE PERSONNEL MONITORING TEAM: FUNCTIONS

RECORD OF APPROVAL AND CHANGES

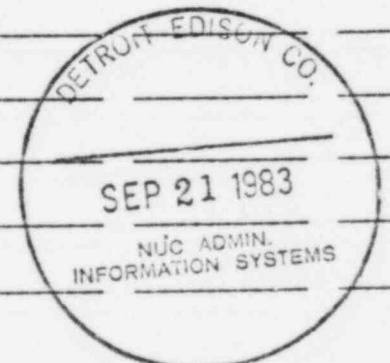
Prepared by P. Lavelly 07/08/83
Date
Approved by *M. J. Lavelly for P.L.* 9-6-83
Responsible Section Head Date
Recommended by *E. H. Newton* 9-6-83
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by *R. L. Lavelly* 9/6/83
OSRO Chairman/Alternate Date
Approved by *R. L. Lavelly* 9/6/83
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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CONTROLLED

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: USE OF NOTEPAD DURING AN EMERGENCY/EXERCISE

Prepared by	<u>P. Lavelly</u>	<u>07/08/83</u> Date
Recommended by	<u>Walter A. Zambelli / DSM</u> Communication System Division	<u>7-29-83</u> Date
Recommended by	<u>James L. Jones</u> Community & Government Affairs	<u>7-29-83</u> Date
Recommended by	<u>N/A (G. Lauryzo (DSM))</u> Insurance	<u>8/1/83</u> Date
Recommended by	<u>Larry E. Scherman</u> Licensing	<u>8/2/83</u> Date
Recommended by	<u>Medical Staff</u> Medical Staff	<u>7/29/83</u> Date
Recommended by	<u>James J. Basia</u> Nuclear Administration	<u>7/29/83</u> Date
Recommended by	<u>G.R. Overbeck / E. F. Foston</u> Nuclear Production	<u>7/29/83</u> Date
Recommended by	<u>Edward K. Kurek</u> Nuclear Training	<u>7/29/83</u> Date
Recommended by	<u>Bert Kefford</u> Public Information	<u>7-29-83</u> Date
Recommended by	<u>Security</u> Security	<u>7-29-83</u> Date
Recommended by	<u>Wayne-Monroe Division</u> Wayne-Monroe Division	<u>7-29-83</u> Date
Approved by	<u>P. Renda by E. Mason</u> RERP Committee Chairperson	<u>8/1/83</u> Date

Revision
No.

RERP Committee
Chairperson Approved

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Attachments

Record Form: Disposition of Evacuees Attachment 1

1.0 Purpose

To prescribe the functions of the Off-Site Personnel Monitoring Team (Off-Site PMT).

2.0 References

2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section J (Protective Response), Section K (Radiological Exposure Control), and Section L (Medical Support)

*2.2 Off-Site Personnel Monitoring Team: Activation (EP-202-3)

*2.3 Vehicle Monitoring/Decontamination (EP-502)

*2.4 Radiological/Medical Emergency (69.000.10)

3.0 Entry Conditions

The Off-Site PMT shall be activated at the discretion of the Emergency Director if surveys of personnel or equipment are required off-site.

4.0 General Information

4.1 The responsibilities of the Off-Site PMT in the event of an incident involving radiological hazards are the following:

4.1.1 Surveying personnel and vehicles (see Reference 2.3) for contamination.

4.1.2 Supervising the decontamination of personnel and vehicles (see Reference 2.3).

4.1.4 Assisting Nuclear Security, as necessary, in accounting for personnel following an evacuation.

4.2 If possible, contaminated personnel without serious injuries who require off-site medical assistance, shall be decontaminated prior to their removal from the site. If it is not possible to decontaminate the personnel without aggravating the injury or delaying proper medical attention, sufficient steps to minimize the spread of the radioactive contamination without delaying medical attention are taken.

*Denotes "Use" Reference

5.0 Immediate Actions

- 5.1 The Emergency Director shall activate the Off-Site PMT in accordance with EP-202-3 (Off-Site Personnel Monitoring Team: Activation).
- 5.2 The designated Off-Site PMT members shall:
 - 5.2.1 Obtain necessary equipment as directed by the Off-Site PMT Leader.
 - 5.2.2 Proceed to the assembly area or the scene as directed by the Off-Site PMT Team Leader.
- 5.3 Upon arrival at the off-site assembly area the Off-Site PMT Leader shall:
 - 5.3.1 Survey the assembly area. If radiation levels prevent frisking, notify the Radiation Protection Advisor and recommend an alternate assembly area.
 - 5.3.2 Instruct the evacuees to remain at the off-site assembly area until released by the Off-Site PMT and Nuclear Security.
 - 5.3.3 Determine the extent of personnel and vehicle (See Reference 2.3) contamination.
 - 5.3.4 In the event of personnel with injuries, radioactive contamination or radiation exposure in excess of limits, carry out the appropriate steps in Procedure 69.000.10 (Radiological/Medical Emergency).
 - 5.3.5 Report to the Radiation Protection Advisor the status of any personnel suffering from injuries, radioactive contamination, or excessive radiation exposure.
 - 5.3.6 Assist Nuclear Security in personnel accountability.
 - 5.3.7 For all personnel who are contaminated, injured, or suffering from radiation exposure in excess of limits, complete "Disposition of Evacuee" form (Attachment 1).
 - 5.3.8 Keep the Radiation Protection Advisor informed of the status of the Off-Site PMT activities.

6.0 Follow-up Actions

- 6.1 The Off-Site PMT Leader shall:

- 6.1.1 Instruct the Scene Leaders to perform the following:
1. Collect personnel dosimetry.
 2. Supervise the decontamination of personnel and vehicles (See Reference 2.3).
 3. Assist Nuclear Security to ensure personnel accountability.
 4. Order the release of evacuees after obtaining permission from the PMT Leader and Nuclear Security.
- 6.1.2 Forward copies of the "Disposition of Evacuee" forms to Nuclear Security and the Radiation Protection Advisor.
- 6.1.3 Prior to authorizing the release of any evacuees, obtain permission from Nuclear Security for their release and brief the evacuees on the emergency situation, including any radiological hazards which may be encountered.
- 6.1.4 Maintain accurate records of all contaminated personnel and vehicles (See Reference 2.3).
- 6.1.5 At the conclusion of Off-Site PMT efforts, direct an inventory of Off-Site PMT emergency equipment used at the scene.
1. Any missing equipment shall be recovered or replaced.
 2. Any damaged equipment shall be repaired/replaced and reported to Health Physics Supervision.
 3. All equipment shall be checked for proper operability, serviced or repaired as necessary (batteries replaced, filters replaced, etc.), and restored in proper storage locations.

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: FIRE BRIGADE: ACTIVATION

RECORD OF APPROVAL AND CHANGES

Prepared by K. Connell 05/02/83
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E H Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/Lent 8/22/83
OSRO Chairman/Alternate Date
Approved by D/Lent 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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CONTROLLED

ENRICO FERMIC ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: FIRE BRIGADE: ACTIVATION

Prepared by	K. Connell	05/02/83
		Date
Recommended by	<i>Donald James Kenzie</i> Communication System Division	5-31-83
		Date
Recommended by	<i>James L. Jones Jr</i> Community & Government Affairs	6/24/83
		Date
Recommended by	<i>James P. Coffey</i> Insurance	6-22-83
		Date
Recommended by	<i>Larry E. Schurman</i> Licensing	6/17/83
		Date
Recommended by	<i>Mahmud Syed, M.D.</i> Medical Staff	6/22/83
		Date
Recommended by	<i>James J. Piana</i> Nuclear Administration	5/31/83
		Date
Recommended by	<i>Steve R. Schubert</i> Nuclear Production	5-31-83
		Date
Recommended by	<i>J.B. Muellett Jr</i> Nuclear Training	5/31/83
		Date
Recommended by	<i>Bob H. ...</i> Public Information	5/31/83
		Date
Recommended by	<i>Thomas H. Seach</i> Security	6-9-83
		Date
Recommended by	<i>Maurice L. Vermeulen</i> Wayne-Monroe Division	5/31/83
		Date
Approved by	<i>Thomas Pandeygo</i> RERP Committee Chairperson	5/31/83
		Date

Revision
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RERP Committee
Chairperson Approved

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1.0 Purpose

To prescribe the steps for activating the Fire Brigade.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization) and Section K (Radiological Exposure Control)
- *2.2 Fire Brigade: Fire Involving Radiological Hazards (EP-203-2)
- *2.3 Emergency Notification from the Control Room, Technical Support Center or Emergency Operations Facility (EP-290)
- *2.4 Plant Fires (20.000.22)
- 2.5 Applicable Fire Pre-Plans
- 2.6 Selection and Use of Respiratory Protection Equipment (65.000.20)
- *2.7 Radiological/Medical Emergency (69.000.10)

3.0 Entry Conditions

The Fire Brigade shall be activated by the Emergency Director/Nuclear Shift Supervisor in the event that:

- 3.1 An alarm from a plant fire or combustion product detector sounds.
- 3.2 A fire or explosion is reported to the Nuclear Shift Supervisor.

4.0 General Information

- 4.1 As a minimum, the Fire Brigade consists of a complement of five (5) people.
- 4.2 If necessary, the Fire Brigade shall be augmented by the Frenchtown Volunteer Fire Department.

5.0 Immediate Actions

- 5.1 When activated, the Fire Brigade Leader shall:
 - 5.1.1 Immediately contact the Emergency Director/Nuclear Shift Supervisor in the Control Room and acknowledge

*Denotes "Use" Reference

the order to activate the Fire Brigade. Verify the assembly location with the Emergency Director/Nuclear Shift Supervisor.

5.1.2 Proceed to the Operational Support Center (OSC) or other location designated by the Emergency Director/Nuclear Shift Supervisor.

5.2 When activated the Fire Brigade members shall report to the OSC, or other location designated by the Emergency Director/Nuclear Shift Supervisor.

5.3 The Fire Brigade Leader shall:

5.3.1 Contact the Emergency Director/Nuclear Shift Supervisor and report that the Fire Brigade is assembled.

5.3.2 Determine the status of the emergency from the Emergency Director/Nuclear Shift Supervisor, specifically with regard to the following:

1. Suspected cause of the fire.
2. If an evacuation has been ordered.
3. Location, extent, and class of the fire.
4. Severity of radiological hazards.
5. Areas with other abnormal personnel hazards.
6. If other Emergency Teams are activated.
7. Fire protection system lineups.
8. Corrective actions taken by the Emergency Director/Nuclear Shift Supervisor.

NOTE: If the fire involves radioactive material or is in a radiation area or controlled contamination area, refer to EP-203-2 (Fire Brigade: Fire Involving Radiological Hazards) for additional guidance. Follow the guidance in EP-203-2 and carry out the steps of this procedure concurrently.

5.3.3 If it is obvious from the initial report that assistance from the local volunteer fire department will be necessary, recommend to the Emergency Director/Nuclear Shift Supervisor that the Frenchtown Volunteer Fire Department be notified.

NOTE: The Emergency Director/Nuclear Shift Supervisor will notify the Frenchtown Volunteer Fire Department in accordance with EP-290 (Emergency Notification from the Control Room, Technical Support Center or Emergency Operations Facility).

- 5.3.4 Determine the applicable procedures to be used in fighting the fire from the following:
1. Plant Fires (20.000.22).
 2. The appropriate Fire Pre-Plan for the particular zone.
 3. Fire Brigade: Fire Involving Radiological Hazards (EP 203-2).
- 5.3.5 Brief Fire Brigade members on the status of the emergency as determined in step 5.3.2.
- 5.3.6 Direct Fire Brigade members to obtain necessary equipment from the OSC and report to the scene of the fire. If items are missing or additional equipment is necessary, contact the OSC Coordinator and request additional equipment. If the OSC is not activated, contact the Emergency Director/Nuclear Shift Supervisor.
- 5.3.7 Inform the Emergency Director/Nuclear Shift Supervisor that the Fire Brigade is activated and proceeding to the scene of the fire.
- 5.3.8 If a Member of the Security Force (MSF) has not reported to the scene of the fire for personnel traffic control and extra communications, contact the Emergency Director/Nuclear Shift Supervisor and request that an MSF report to the scene.

5.4 At the scene of the fire, the Fire Brigade Leader shall:

- 5.4.1 Direct fire-fighting efforts. Fire-fighting actions shall be carried out in accordance with the procedures listed in step 5.3.4.
- 5.4.2 If there are injured personnel:
1. Immediately inform the Emergency Director/Nuclear Shift Supervisor.

NOTE: The Emergency Director/Nuclear Shift Supervisor will dispatch the Damage and Rescue Team to assist with injured personnel.

2. Administer life-saving first aid until the Damage Control and Rescue Team assumes this responsibility. Assistance may be required from the On-Site RET in evaluating injured personnel for contamination. The actions of Health Physics Procedure 69.000.10 (Radiological/Medical Emergency) shall be followed for contaminated/injured personnel.
3. Evaluate the need for medical assistance.
4. If on-site or off-site medical assistance appears necessary, inform the Emergency Director/Nuclear Shift Supervisor.

NOTE: The Emergency Director/Nuclear Shift Supervisor will dispatch on-site or off-site medical assistance.

- 5.4.3 If off-site assistance is required to fight the fire, recommend to the Emergency Director/Nuclear Shift Supervisor that the Frenchtown Volunteer Fire Department be notified.
- 5.4.4 If there are radiological hazards, obtain assistance from the On-Site Radiological Emergency Team. Carry out the steps of EP-203-2 (Fire Brigade: Fire Involving Radiological Hazards).
- 5.4.5 Coordinate actions of the Fire Brigade, the Volunteer Fire Department, and any other Emergency Response Teams reporting to the scene of the fire.
- 5.4.6 Keep the Emergency Director/Nuclear Shift Supervisor informed of the status of the fire. The Emergency Director/Nuclear Shift Supervisor shall be specifically informed of the following:
 1. Exact location of the fire.
 2. Extent of fire, smoke, radiological hazards, and other hazards to personnel (such as damaged or unsafe equipment, electrical hazards, water on floor, etc.).
 3. When the fire is out.
 4. Extent of damage to equipment and systems and impact on plant operation and safety.
 5. Recommended corrective actions such as isolating plant systems, deenergizing equipment, interrupting electrical power to portions of the plant, or removing equipment from service.

6.0 Follow-up Actions

The Fire Brigade Leader shall:

- 6.1 Keep the Emergency Director/Nuclear Shift Supervisor informed of the status of fire-fighting actions. The following specific reports should be made:

6.1.1 When the fire area has been inspected for possible restart.

6.1.2 Extent of equipment and/or system damage.

- 6.2 Review the following information with the Damage and Rescue Team Scene Leader:

6.2.1 Background information, including apparent cause and extent of fire. Point out those areas which may have suffered heat, smoke, or water damage even though not obviously blackened or burned.

6.2.2 Current status of Fire Brigade follow-up actions, including evolutions which have been directed or are planned but not yet carried out.

6.2.3 Assessment of impact on plant operations and safety.

6.2.4 Present fire detection and fire protection system lineups.

6.2.5 Corrective actions recommended to the Emergency Director/Nuclear Shift Supervisor such as isolating plant systems, deenergizing equipment, interrupting electrical power to portions of the plant, or removing equipment from service.

6.2.6 Extent of smoke, radiological hazards, or other personnel hazards, (such as damaged or unsafe equipment, electrical hazards, etc.).

NOTE: The Damage and Control Rescue Team is responsible for assessing fire damage and reporting to the Emergency Director.

- 6.3 When the fire area is judged safe enough for a damage inspection, permit the Damage and Control Rescue Team to survey the area.

- 6.4 Remain in charge at the scene and coordinate actions of Emergency Response Personnel. The Fire Brigade Leader is not relieved of this responsibility until directed by the Emergency Director/Nuclear Shift Supervisor to delegate the responsibility to another designated person or to close out emergency response efforts.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: FIRE BRIGADE: FIRE INVOLVING RADIOLOGICAL HAZARDS

RECORD OF APPROVAL AND CHANGES

Prepared by T. Randazzo 7/19/83
Date

Approved by *[Signature]* for TR 9-6-83
Responsible Section Head Date

Recommended by *E. H. Newton* 9-6-83
Supervisor - Operational Assurance/Delegate Date

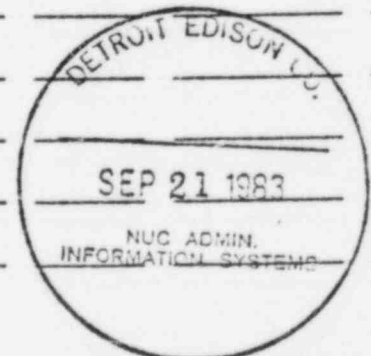
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by *RL Linn +* 9/6/83
OSRO Chairman/Alternate Date

Approved by *RL Linn +* 9/6/83
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: FIRE BRIGADE: FIRE INVOLVING RADIOLOGICAL HAZARDS

Prepared by	T. Randazzo	7/19/83
		Date
Recommended by	Walter A. Zambelli / DSM Communication System Division	7-29-83
		Date
Recommended by	James L Jones Community & Government Affairs	7-29-83
		Date
Recommended by	N/A G. Randazzo (874) Insurance	8/1/83
		Date
Recommended by	Larry E. Schuman Licensing	8/2/83
		Date
Recommended by	Medical Staff	7/29/83
		Date
Recommended by	James S. Rancie Nuclear Administration	7/29/83
		Date
Recommended by	E. R. Overbeck / E. Preston Nuclear Production	7/29/83
		Date
Recommended by	Edward J. May Nuclear Training	7/29/83
		Date
Recommended by	Bert Keffner Public Information	7-29-83
		Date
Recommended by	Michael G. Gable / Michael H. Gable Security	7-29-83
		Date
Recommended by	M. A. Monahan by R. Hager Wayne-Monroe Division	7-29-83
		Date
Approved by	T. Randazzo (874) RERP Committee Chairperson	8/1/83
		Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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Enclosure

Example List
of Emergency Equipment Enclosure 1

1.0 Purpose

To prescribe precautions to be followed by the Fire Brigade in fighting a fire involving, or possibly involving, radiological hazards.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization) and Section K (Radiological Exposure Control)
- *2.2 Fire Brigade: Activation (EP-203-1)
- *2.3 Radiation, Contamination, and Airborne Guides and Limits (61.000.05)
- 2.4 Use of Protective Clothing (65.000.10)
- 2.5 Selection and Use of Respiratory Protection Equipment (65.000.20)
- *2.6 Emergency Exposure Limits (69.000.15)

3.0 Entry Conditions

The Fire Brigade has been activated for any of the following circumstances:

- 1. A fire occurs in a contaminated area or an area where radioactive material is maintained.
- 2. A fire occurs in a radiation area or high radiation area.
- 3. A fire occurs in an area of high airborne activity.
- 4. A fire occurs in a potentially contaminated system.

4.0 General Information

- 4.1 The Fire Brigade Leader shall coordinate with the On-Site Radiological Emergency Team (On-Site RET) Leader in assessing radiological hazards in fighting any fire.
- 4.2 The routine radiation exposure limits of Health Physics Procedure 61.000.05 (Radiation, Contamination, and Airborne Guides and Limits) shall not be exceeded unless specifically authorized by Health Physics personnel. The 10CRF20 limits shall not be exceeded unless specifically authorized by the Emergency Direc-

Denotes "Use" Reference

tor. Emergency exposure limits are delineated in Procedure 69.000.15 (Emergency Exposure Limits).

- 4.3 Contaminated personnel shall be decontaminated under the direction of the On-Site Personnel Monitoring Team (On-Site PMT) prior to their release.

5.0 Immediate Actions

5.1 The Fire Brigade Leader shall:

- 5.1.1 Carry out the Immediate Actions of EP-203-1 (Fire Brigade: Activation).
- 5.1.2 Verify with the Emergency Director that the On-Site RET is activated.

NOTE: The On-Site RET will be activated by the Emergency Director whenever there is a fire involving radiological hazards. The On-Site RET is responsible for conducting radiation, airborne, and contamination surveys, establishing controlled areas to limit the spread of radioactive contamination, estimating stay times, directing the clean up of radioactive contamination areas, and monitoring the decontamination of emergency equipment. The On-Site PMT is responsible for evaluating personnel for contamination, and, if necessary, supervising the decontamination of personnel.

- 5.1.3 Assisted by the On-Site RET, brief Fire Brigade members on the radiological hazards, including the following:

1. General radiation dose rates.
2. Location of high radiation levels.
3. Expected radioactive materials.
4. Location of especially hazardous materials.
5. Airborne contamination levels.

Instruct Fire Brigade members concerning proper stay times and areas they should avoid so as to minimize their radiation and contamination exposure.

- 5.1.4 Ensure that Fire Brigade personnel have proper protective clothing and respiratory equipment (see Enclosure 1).

- 5.1.5 Ensure that Fire Brigade personnel have been issued appropriate personnel dosimetry, including a TLD badge and a pocket ionization chamber. The pocket ionization chamber should be read prior to use and zeroed if the reading is greater than twenty-five percent (25%).

5.2 At the scene of the fire, the Fire Brigade Leader shall:

- 5.2.1 Direct fire-fighting efforts, as discussed in EP-201-1 (Fire Brigade: Activation).
- 5.2.2 Assisted by the On-Site RET, supervise the actions of Fire Brigade members so as to minimize personnel radiation and contamination exposure.

NOTE: The routine exposure limits of Health Physics Procedure 61.000.05 (Radiation, Contamination, and Airborne Guides and Limits) shall not be exceeded unless specifically authorized by Health Physics personnel. The 10CFR20 limits shall not be exceeded unless specifically authorized by the Emergency Director. Emergency exposure limits are delineated in Procedure 69.000.15 (Emergency Exposure Limits).

- 5.2.3 Supervise the actions of Fire Brigade members so as to minimize the spread of radioactive contamination, as necessary.

Recommended steps include the following:

NOTE: Efforts to control spreading radioactive contamination shall not impede steps in controlling a serious fire. This is a judgment which must be made by the Fire Brigade Leader depending on the specific situation.

1. Only essential fire-fighting equipment should be brought into contaminated areas.
2. Treat all equipment used in contaminated areas as potentially contaminated. Do not remove the equipment from controlled areas until released by On-Site RET personnel.
3. Route fire hoses so as to avoid areas of loose surface contamination or spilled radioactive materials.
4. Avoid dragging fire hoses and equipment through areas of loose surface contamination or spilled radioactive materials.

5. Avoid using a direct stream from fire hoses if possible, and avoid hitting loose surface contamination or other radioactive materials with a direct stream.
6. Avoid areas of higher contamination levels or more highly radioactive materials in favor of low-level contaminated areas or areas where low-level radioactive materials are located.
7. Treat all water in the controlled area as potentially contaminated.

5.2.4 If the Frenchtown Volunteer Fire Department is activated:

1. Repeat Steps 5.1.3, 5.1.4, and 5.1.5 for Fire Department personnel.
2. Coordinate with the On-Site RET and the Fire Chief responding with the Volunteer Fire Department so as to minimize radiation and contamination exposure of personnel.
3. Coordinate with the Fire Chief so as to minimize the spread of radioactive contamination (see Step 5.2.2).

5.3 Fire Brigade members shall:

5.3.1 Take steps as directed by the Fire Brigade Leader to minimize radiation exposure and prevent personal contamination.

1. Fire protection clothing will serve as anti-contamination clothing.
2. Self-Contained Breathing Apparatus (SCBA) will serve as needed respiratory protection in a high airborne radio activity situation.
3. Minimize time in radiation areas as directed by the Fire Brigade Leader.

5.3.2 Minimize the spread of contamination.

5.3.3 Treat fire-fighting equipment used in contaminated areas as potentially contaminated.

6.0 Follow-up Actions

- 6.1 The Fire Brigade Team Leader shall obtain assistance from the On-Site RET and the PMT in evaluating equipment and personnel for possible radioactive contamination.

NOTE: The On-Site RET retains the responsibilities listed in Step 5.1.2.

- 6.2 Fire Brigade and Frenchtown Volunteer Fire Department personnel shall:

6.2.1 Remain in the fire area after the fire is extinguished. If the fire is in a high radiation area it may be necessary to move to an area near the scene that is of a lower radiation level.

6.2.2 Leave all potentially contaminated emergency equipment in the controlled area established by the On-Site RET. Equipment is not to be removed until released by On-Site RET personnel.

6.2.3 Exit the controlled area as directed by the On-Site RET.

6.2.4 Surrender personal dosimeters after exiting all radiation areas to On-Site RET personnel and be surveyed for contamination by On-Site PMT personnel.

6.2.5 If contaminated, proceed as directed by On-Site PMT personnel for decontamination.

- 6.3 At the conclusion of fire-fighting efforts, direct an inventory of Fire Brigade emergency equipment.

6.3.1 Any missing equipment shall be recovered or replaced.

6.3.2 Any damaged equipment shall be repaired or replaced and reported to Operational Support Center (OSC) Coordinator.

6.3.3 All equipment shall be checked for proper operability, replaced or repaired as necessary (batteries replaced, filters replaced, etc.) and restowed in proper storage locations.

EXAMPLE OF
LIST OF EMERGENCY EQUIPMENT IN OPERATIONAL SUPPORT CENTER

<u>ITEM</u>	<u>QUANTITY</u>
1. Fire Protection Clothing:	
a. Yellow Turnout Coats	12
b. Boots	24 pr.
c. Fire-Fighter Gloves	12 pr.
d. Fire Hats	12
e. Fire-Resistant Pants with Suspenders	12 pr.
2. Portable Lights (with Extra Sets of Batteries)	
a. Flashlights (5 cell)	5
b. Six Volt Lantern	1
3. Portable Extinguishers:	
a. CO2	3
b. Chemical (30# ansul)	1
4. Self Contained Breathing Apparatus:	
a. Air Packs	20
b. Air Bottles	36
5. Hand Truck	1
6. First Aid First Aid Kit	1
7. Sets of Air Splints	2
8. Life Lines (50 ft)	4
9. Mask Cleaning Solution with Bucket	1

EXAMPLE OF
LIST OF EMERGENCY EQUIPMENT IN FIRE PROTECTION
EQUIPMENT LOCKER

<u>ITEM</u>	<u>QUANTITY</u>
1. Fire axe	1
2. Wrecking bar	1
3. Canvas tarps	2
4. Bolt cutters	1
5. Self Contained Breathing Apparatus	
a. air packs	5
b. air bottles	6
6. Sets of Rain Gear	3
7. Small Valve Wrenches	2
8. Medium Valve Wrenches	2
9. Air Jack	1
10. Assorted Pliers, Screwdrivers and Fuse Pullers	
11. Administrative Supplies	

EXAMPLE OF
LIST OF EMERGENCY EQUIPMENT
IN FIRST AID AND STRETCHER LOCKERS

<u>ITEM</u>	<u>QUANTITY</u>
1. First Aid Kit	1
2. Bottles of O2	2
3. O2 Regulators	2
4. Blankets	4
5. Plastic Stokes Stretcher	2
6. Fire Extinguisher	
a. CO2	3
b. Chemical (30# ansul)	9

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: DAMAGE CONTROL AND RESCUE TEAM: ACTIVATION

RECORD OF APPROVAL AND CHANGES

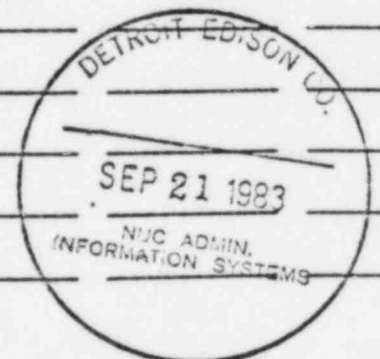
Prepared by T. Randazzo 07/05/83
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E.H. Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/L + 8/23/83
OSRO Chairman/Alternate Date
Approved by D/L + 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: DAMAGE CONTROL AND RESCUE TEAM: ACTIVATION

Prepared by	T. Randazzo	7/05/83
		Date
Recommended by	Donald J. Mac Kenzie	7-14-83
	Communication System Division	Date
Recommended by	James R. Jones	7-14-83
	Community & Government Affairs	Date
Recommended by	N/A (T. Randazzo)	7-18-83
	Insurance	Date
Recommended by	Larry E. Schuman	7-19-83
	Licensing	Date
Recommended by	Mahmud Syed M.D.	7/14/83
	Medical Staff	Date
Recommended by	James J. Paine	7/14/83
	Nuclear Administration	Date
Recommended by	Thomas R. Schuler	7-14-83
	Nuclear Production	Date
Recommended by	Donald J. Schuler	7-14-83
	Nuclear Training	Date
Recommended by	Burt H. Hether	7-14-83
	Public Information	Date
Recommended by	Robert G. Gendron	7/14/83
	Security	Date
Recommended by	Maurice L. Vermeulen	7-14-83
	Wayne-Monroe Division	Date
Approved by	Thomas Randazzo	7/14/83
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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5.0 Immediate Actions	1
6.0 Follow-up Actions	2

Enclosures

Example List of Emergency Equipment	Enclosure 1
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1.0 Purpose

To prescribe the steps for activating the Damage Control and Rescue Team.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section K (Radiological Exposure Control), and Section L (Medical Support) .
- 2.2 Damage Control and Rescue Team: Functions (EP-204-2)
- 2.3 Emergency Equipment Inventory (EPA-5)
- 2.4 Radiological/Medical Emergency (69.000.10)

3.0 Entry Conditions

- 3.1 When the Radiological Emergency Response Preparedness (RERP) Plan is activated the Damage Control and Rescue Team shall be activated when any of the following occur:
 - 3.1.1 Any incident which results in personnel injury, missing personnel, or plant damage.
 - 3.1.2 As directed by the Emergency Director.
- 3.2 Personnel to perform Damage Control and Rescue Team functions are selected from trained personnel assembled at the Operational Support Center (OSC) or alternate OSC by the OSC Coordinator.

4.0 General Information

- 4.1 The responsibilities of the Damage Control and Rescue Team include:
 - 4.1.1 Providing initial first aid to injured personnel.
 - 4.1.2 Performing search and rescue operations.
 - 4.1.3 Controlling a radiological or toxic substance release, and performing emergency repairs to stop the release.
 - 4.1.4 Assessing damage to plant equipment and systems.
 - 4.1.5 Making emergency repairs to damaged equipment and systems.

5.0 Immediate Actions

- 5.1 Upon activation of the Damage Control and Rescue Team the person assigned as Damage Control and Rescue Team Leader shall:

- 5.1.1 Direct Team Members to obtain necessary emergency equipment (See Enclosure 1).
- 5.1.2 Proceed to the location of the emergency and supervise Damage Control and Rescue Team activities.
- 5.1.3 If a Member of the Security Force (MSF) is not at the scene contact the OSC Coordinator and request that an MSF report to the scene for traffic/access control and communications support.
- 5.1.4 Periodically report to the OSC Coordinator giving the status of Damage Control and Rescue Team efforts.
- 5.1.5 If additional equipment is required, contact the OSC Coordinator and request the additional equipment.
- 5.1.6 Assign Scene Leaders if the Damage Control and Rescue Team is required at more than one location.

6.0 Follow-up Actions

6.1 The Damage Control and Rescue Team Leader shall:

- 6.1.1 Maintain communications with all Damage Control and Rescue Team Scene Leaders.
- 6.1.2 Keep the OSC Coordinator informed of the status of the emergency, especially with regard to the following:
 - 1. Status of injured personnel.
 - 2. Status of search and rescue efforts.
 - 3. Status of damage assessment.
 - 4. Recommend corrective actions such as isolating systems, deenergizing equipment, or removing equipment from service.

6.2 At the conclusion of Damage Control and Rescue Team efforts, the Damage Control and Rescue Team Leader shall direct an inventory of Team equipment.

- 6.2.1 Any missing equipment shall be recovered or replaced.
- 6.2.2 Any damaged equipment shall be repaired/replaced and reported to the OSC Coordinator.

- 6.2.3 Any contaminated equipment shall be left in controlled areas until released by On-Site RET personnel.
- 6.2.4 All equipment shall be checked for operability, serviced or repaired as necessary (batteries replaced, filters replaced, etc.) and restowed in proper storage locations.

Example of
LIST OF EMERGENCY EQUIPMENT

<u>ITEM</u>	<u>QUANTITY</u>
1. Fire protection clothing (assorted sizes):	
a. Yellow turnout coats	12
b. Boots	12 pr.
c. Fire-fighter gloves	12 pr.
d. Fire hats	12
e. Fire-resistant pants with suspenders	12 pr.
2. Portable lights (with extra sets of batteries)	
a. Flashlights (5 cell)	5
b. Six volt lantern	5
3. Portable extinguishers:	
a. CO2	3
b. Chemical (40# ansul)	1
4. Scott Air Paks	
a. Without speak-easy	8
b. With speak-easy	6
5. Scott Air Bottles	32
6. Hand Truck	1
7. First Aid Kit	1
8. Sets of Air Splints	2
9. Life Lines (50 ft)	4
10. Mask Cleaning solution with Bucket	1
11. MSA Air Bottles	4
12. Ear-Comm Units	7

Example of
LIST OF EMERGENCY EQUIPMENT IN FIRE PROTECTION
EQUIPMENT LOCKER

<u>ITEM</u>	<u>QUANTITY</u>
1. Fire axe	1
2. Wrecking bar	1
3. Canvas tarps	2
4. Bolt cutters	1
5. MSA Air Packs	5
6. MSA Air Bottles	6
7. Sets of Rain Gear	3
8. Small Valve Wrenches	2
9. Medium Valve Wrenches	2
10. Air Jack	1
11. Assorted Pliers, Screwdrivers and Fuse Pullers	
12. Administrative Supplies	

Example of
LIST OF EMERGENCY EQUIPMENT
IN FIRST AID AND STRETCHER LOCKERS

	<u>ITEM</u>	<u>QUANTITY</u>
1.	First Aid Kit	1
2.	Bottles of O ₂	2
3.	O ₂ Regulators	2
4.	Blankets	4
5.	Plastic Stokes Stretcher	2
6.	Fire Extinguisher	
	a. CO ₂	3
	b. Chemical (40# ansul)	9

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: DAMAGE CONTROL AND RESCUE TEAM: FUNCTIONS

RECORD OF APPROVAL AND CHANGES

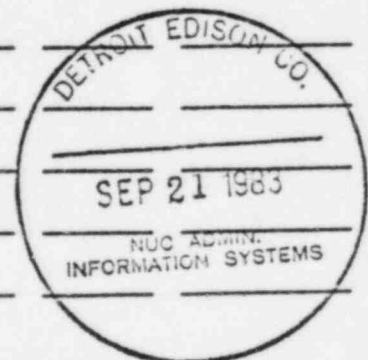
Prepared by T. Randazzo 7-5-83
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E.H. Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/L + 8/23/83
OSRO Chairman/Alternate Date
Approved by D/L + 8/23/83
Superintendent-Nuclear Date
Production/Delegate

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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: DAMAGE CONTROL AND RESCUE TEAM: SUPPORT FUNCTIONS

Prepared by	<u>T. Randazzo</u>	<u>7-5-83</u> Date
Recommended by	<u>Donald J. MacKenzie</u> Communication System Division	<u>7-14-83</u> Date
Recommended by	<u>James L. Jones</u> Community & Government Affairs	<u>7-14-83</u> Date
Recommended by	<u>N/A (T. Randazzo)</u> Insurance	<u>7-18-83</u> Date
Recommended by	<u>Larry E. Scherman</u> Licensing	<u>7-19-83</u> Date
Recommended by	<u>Mahmoud Syed M.D.</u> Medical Staff	<u>7/14/83</u> Date
Recommended by	<u>James J. Rainie</u> Nuclear Administration	<u>7/14/83</u> Date
Recommended by	<u>Megg R. Quirk</u> Nuclear Production	<u>7-14-83</u> Date
Recommended by	<u>Edward J. Dancy</u> Nuclear Training	<u>7-14-83</u> Date
Recommended by	<u>Burt Kellum</u> Public Information	<u>7-14-83</u> Date
Recommended by	<u>Michael G. K. Smith</u> Security	<u>7/14/83</u> Date
Recommended by	<u>Maurice P. Vermilion</u> Wayne-Monroe Division	<u>7/14/83</u> Date
Approved by	<u>Thomas Randazzo</u> RERP Committee Chairperson	<u>7/14/83</u> Date

Revision
No.

RERP Committee
Chairperson Approved

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1.0 Purpose

To prescribe the functions of the Damage Control and Rescue Team in the event of any disaster.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section K (Radiological Exposure Control), and Section L (Medical Support)
- *2.2 Damage Control and Rescue Team: Activation (EP-204-1)
- *2.3 Radiation, Contamination, and Airborne Guides and Limits (61.000.05)
- *2.4 Radiological/Medical Emergency (69.000.10)
- *2.5 Emergency Exposure Limits (69.000.15)

3.0 Entry Conditions

When the Radiological Emergency Response Preparedness (RERP) Plan is activated the Damage Control and Rescue Team shall be activated for any disaster which results in personnel injury, missing personnel, or plant damage.

4.0 General Information

- 4.1 The Damage Control and Rescue Team is responsible for the following:
 - 4.1.1 Providing initial first aid to injured personnel.
 - 4.1.2 Performing search and rescue operations.
 - 4.1.3 Controlling a radiological or toxic substance release and performing emergency repairs to stop the release.
 - 4.1.4 Assessing damage to plant equipment and systems.
 - 4.1.5 Making emergency repairs to damaged equipment and systems.

*Denotes "Use" Reference

CAUTION: The routine exposure limits of Health Physics Procedure 61.000.05 (Radiation, Contamination, and Airborne Guides and Limits) shall not be exceeded unless specifically authorized by Health Physics personnel. The 10CFR20 limits shall not be exceeded unless specifically authorized by the Emergency Director. Emergency exposure limits, which require Emergency Director approval, are delineated in Health Physics Procedure 69.000.15 (Emergency Exposure Limits).

5.0 Immediate Actions

- 5.1 The Damage Control and Rescue Team shall report to the Operational Support Center (OSC), or an alternate location, when directed by the Emergency Director.
- 5.2 The Damage Control and Rescue Team Leader shall:
 - 5.2.1 Activate the Damage Control and Rescue Team, in accordance with EP-204-1 (Damage Control and Rescue Team: Activation).
 - 5.2.2 Determine from the OSC Coordinator:
 - 1. The status of the emergency.
 - 2. Names of missing personnel and any additional information available on their whereabouts.
 - 3. Personnel hazards, such as high radiation, high airborne activity, fire, smoke, steam, and wreckage.
 - 4. Required protective and emergency equipment.
 - 5. Exposure limits and stay times.
 - 5.2.3 Assign Damage Control and Rescue Scene Leaders if the Team is required at more than one location.
 - 5.2.4 Brief the Damage Control and Rescue Scene Leaders on the status of the emergency as determined in step 5.2.2 above.
- 5.3 The Damage Control and Rescue Scene Leaders shall:
 - 5.3.1 Direct initial first aid for victims in accordance with Health Physics Procedure 69.000.10 (Radiological/Medical Emergency).

- 5.3.2 Report the progress of search and rescue efforts to the Team Leader approximately every 5 minutes. Report which portions of the assigned search areas have been covered.
- 5.3.3 If necessary, request outside medical assistance from the Damage Control and Rescue Team Leader.
- 5.3.4 Take steps to minimize personnel exposure.
- 5.3.5 Immediately report injuries sustained by victims to the Damage Control and Rescue Team Leader.
- 5.3.6 If a rescued victim is injured and can be moved, transport the victim to the area designated by the Team Leader. Continue to administer necessary first aid until relieved by medical personnel.

CAUTION: Prompt treatment for serious or potentially serious injury has priority over decontamination efforts, treatment of excessive radiation exposure, or movement of the victim.

5.4 The Damage Control and Rescue Team members shall:

- 5.4.1 Assess damage to affected systems and equipment and report the following to the Damage Control and Rescue Team Leader or Scene Leader:
 - 1. Status of damage assessment.
 - 2. Affected systems and equipment.
 - 3. Impact on plant operations and safety.
 - 4. Recommended corrective actions.
 - 5. Extent of radiological or other personnel hazards.
- 5.4.2 Perform any immediate repairs or isolations to affected systems and equipment as directed by the Emergency Director.

6.0 Follow-up Actions

The Damage Control and Rescue Team Leader shall:

- 6.1 Keep the OSC Coordinator informed of the status of the emergency and Damage Control and Rescue Team efforts, especially with regard to the following:

- 6.1.1 Injured personnel and the need for any outside medical support.
- 6.1.2 Missing personnel.
- 6.1.3 System or equipment damage.
- 6.1.4 Repair or isolations performed on affected equipment.
- 6.2 Coordinate with the On-Site RET for proper radiological control of any potentially contaminated personnel or equipment.
- 6.3 Ensure that all the follow-up actions of EP-204-1 are completed.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: RESPONSE TO AN INCIDENT WHEN THE RADIOLOGICAL
EMERGENCY RESPONSE PREPAREDNESS PLAN IS ACTIVATED

RECORD OF APPROVAL AND CHANGES

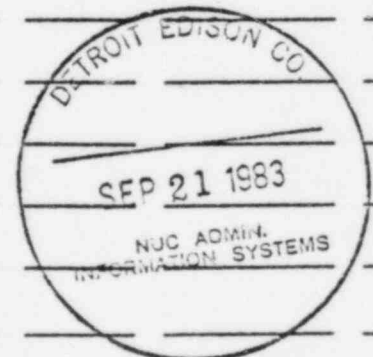
Prepared by K. Connell 5/4/83
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E H Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D L L 8/23/83
OSRO Chairman/Alternate Date
Approved by D L L 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor- Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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CONTROLLED

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: RESPONSE TO AN INCIDENT WHEN THE RADIOLOGICAL
EMERGENCY RESPONSE PREPAREDNESS PLAN IS ACTIVATED

Prepared by	K. Connell	5/4/83
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Recommended by	<i>James L. Jones Jr.</i>	6/24/83
	Community & Government Affairs	Date
Recommended by	<i>James P. Coffey</i>	6-22-83
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Recommended by	<i>Henry E. Schuman</i>	6/17/83
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Recommended by	<i>Mahmud Ayed M.D.</i>	6/28/83
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Recommended by	<i>James J. Laine</i>	5/31/83
	Nuclear Administration	Date
Recommended by	<i>Guy R. Spalinski</i>	5-31-83
	Nuclear Production	Date
Recommended by	<i>J. B. McCarthy</i>	5/31/83
	Nuclear Training	Date
Recommended by	<i>Bert H. ...</i>	5/31/83
	Public Information	Date
Recommended by	<i>Stuart H. Leach</i>	5-31-83
	Security	Date
Recommended by	<i>Maurice L. ...</i>	5/31/83
	Wayne-Monroe Division	Date
Approved by	<i>Thomas Randazzo</i>	5/31/83
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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1.0 Purpose

To prescribe the actions to be performed by the Security Force in event of an incident when the Radiological Emergency Response Preparedness Plan is activated.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization) and Section J (Protective Response)
- *2.2 Enrico Fermi-Unit 2 Contingency Plan Implementing Procedures
- *2.3 Security Force: Control of In-Plant Access for Emergency Response Preparedness Personnel (EP-205-2)
- *2.4 Security Force: Control of Site Area Access During an Incident when the Radiological Emergency Response Preparedness Plan is Activated (EP-205-3)
- *2.5 Security Force: Security Emergency During an Incident when the Radiological Emergency Response Preparedness Plan is Activated (EP-205-4)
- *2.6 Security Force: Accountability (EP-205-30)
- *2.7 Public Affairs: Unusual Event/Alert (EP-602)
- *2.8 Public Affairs: Media Pool Operation (EP-607)

3.0 Entry Conditions

Any of the following events occur:

- 3.1 The Nuclear Shift Supervisor or Emergency Director declares an Unusual Event, an Alert, a Site Area Emergency, or a General Emergency.
- 3.2 Security Emergency involving fire, disaster, or radiological hazards.
- 3.3 Plant Area Evacuation.
- 3.4 Protected Area Evacuation.
- 3.5 Site Area Evacuation.

4.0 General Information

The Security Force's responsibilities in the event of a fire, disaster, or radiological emergency are as follows:

- 4.1 Providing in-plant access control for Emergency Response Teams into areas to which they normally do not have access (special access).
- 4.2 Controlling owner-controlled area access.
- 4.3 Maintaining proper security in event of a Security Emergency.
- 4.4 Accounting for personnel in the event of a Plant Area Evacuation, a Protected Area Evacuation, or a Site Area Evacuation.
- 4.5 Providing alternate communications and back-up assistance for the Emergency Response Team at the scene.
- 4.6 Carry out EP-205-2 (Security Force: Control of In-Plant Access for Emergency Response Preparedness Personnel) if directed by the Nuclear Shift Supervisor/Emergency Director.

5.0 Immediate Action

5.1 The Central Alarm Station (CAS) Operator shall:

- 5.1.1 Notify all Members of Security Force (MSF) using the radio.
- 5.1.2 If notified of RERP implementation by the Nuclear Shift Supervisor or Emergency Director, carry out EP-205-2 (Security Force: Control of In-Plant Access for Emergency Response Preparedness Personnel).
- 5.1.3 Monitor the scene of the fire or disaster and the surrounding area by closed circuit television (CCTV), if possible.
- 5.1.4 Carry out the procedures in References 2.2 through 2.6 as directed by the Security Shift Lieutenant.

5.2 The Secondary Alarm Station (SAS) Operator shall:

- 5.2.1 As soon as possible, determine the emergency classification from the Emergency Director or Security Shift Lieutenant.
- 5.2.2 Dispatch MSF to:
 1. The Operational Support Center (OSC) to act as Security Coordinator, see Section 5.10;

2. The TSC, when activated, for ACO (Access Control Officer) duties, see Section 5.11;
 3. The Emergency Operations Facility (EOF), when activated, for ACO duties, see Section 5.12.
- 5.2.3 If directed by the Nuclear Shift Supervisor/Emergency Director, carry out EP-205-2 (Security Force: Control of In-Plant Access for Emergency Response Preparedness Personnel).
- 5.2.4 Obtain information on entrance points and routes to be followed by off-site response personnel from the communicator in the Control Room [or in the Technical Support Center (TSC), if the TSC has been activated].
- 5.2.5 Determine the number of off-site response personnel expected to arrive.
- 5.2.6 Notify Director-Nuclear Security (or designee), that it may be necessary to activate off-shift security personnel.
- 5.2.7 Direct the Access Control Officer (ACO) at the owner-controlled area entrances to halt access to the site to all but responding off-site emergency response personnel, in accordance with EP-205-3 (Security Force: Control of Site Area Access During an Incident when the Radiological Emergency Response Preparedness Plan is Activated).
- 5.2.8 Direct the ACO at the Security Building to halt access to the Protected Area to all but responding off-site emergency response personnel, in accordance with EP-205-3 (Security Force: Control of Site Area Access During an Incident when the Radiological Emergency Response Preparedness Plan is Activated).
- 5.2.9 Carry out the procedures in References 2.2 through 2.6 as directed by the Security Shift Lieutenant.
- 5.3 The Security Shift Lieutenant shall:
- 5.3.1 Report to the SAS and then, if the TSC is activated, in the absence of the Nuclear Security Chief proceed to the TSC, or other designated location, as directed by the Emergency Director until relieved by the Nuclear Security Chief or alternate.
 - 5.3.2 Verify with the SAS operator that a fire, disaster, evacuation, or radiological emergency has occurred.
 - 5.3.3 Contact the Emergency Director.

- 5.3.4 Determine the status of the emergency from the Emergency Director, specifically with regard to the following:
1. The classification of the Emergency (Unusual Event, Alert, Site Area Emergency, General Emergency);
 2. If Emergency Response Teams are activated and will require access to plant areas for which special access is required;
 3. If the incident has caused or could cause loss or degradation of security systems hardware, (as for example, due to fire, flooding, steam leak, etc. or due to Emergency Response Team efforts to control the incident);
 4. If there are hazards to personnel (radioactive contamination, radiation, smoke, fire, dangerous chemicals, damaged or unsafe equipment, electrical hazards, steam, leaking high pressure liquid or gas, etc.);
 5. If any type of evacuation has been ordered or is planned (Plant Area, Protected Area, or Site Area);
 6. If off-site emergency response personnel are expected to arrive on-site, such as ambulance team, local volunteer fire department, medical support personnel, or Off-Site Radiological Emergency Teams (RET);
 7. If authorized government or off-site support personnel are expected to arrive on-site, in addition to those expected to staff the EOF, Nuclear Operations Center (NOC), or designated media briefing location;
 8. If unauthorized members of the public or news media personnel are expected to arrive at the site.

- 5.3.5 Determine if off-site assistance is necessary and request support from the Director-Nuclear Security (or designee). Personnel may be required to support the following:
1. Escorts for both Owner-Controlled Area facilities and Protected Area facilities;
 2. Traffic control for an evacuation;

3. Traffic control for on-site access for Emergency Response Personnel.

5.4 The Security Shift Lieutenant shall assign Members of the Security Force (MSF) as necessary to carry out Security Force functions. Direct personnel to carry out the following, as applicable:

5.4.1 If Emergency Response Teams require access to plant areas for which special access is required, direct the SAS Operator and the CAS Operator to carry out EP-205-2 (Security Force: Control of In-Plant Access for Emergency Response Preparedness Personnel).

Emergency Response Teams which may be activated include the following:

1. On-Site RET
2. On-Site Personnel Monitoring Team
3. Fire Brigade
4. Damage Control and Rescue Team

5.4.2 If a loss or degradation of security system hardware occurs, direct the MSF to carry out EP-205-4 (Security Force: Security Emergency During an Incident when the Radiological Emergency Response Preparedness Plan is Activated). If the efforts of Emergency Response Teams are hampered by restricted access, it may be necessary to direct "open access".

5.4.3 Supervise the admission of responding off-site personnel and direct MSF to admit authorized personnel, in accordance with EP-205-3 (Security Force: Control of Site Area Access During an Incident when the Radiological Emergency Response Preparedness Plan is Activated), any of the following occur:

1. Off-site emergency response personnel are expected to arrive;
2. The event is classified as a Site Area Emergency or General Emergency (the EOF is expected to be staffed);
3. Authorized government or off-site support personnel are expected to arrive on-site, in addition to those who will staff the EOF.

Additional off-shift security force personnel may be necessary.

5.4.4 If authorized persons or news media personnel are expected to arrive at the NOC (See References 2.7 and 2.8):

1. Supervise access to the Owner-Controlled Area. (If the EOF is activated, the Director-Nuclear Security (or designee) will assist with access to the Owner-Controlled Area.)
2. Direct MSF to control access in accordance with EP-205-3 (Security Force: Control of Site Area Access During an Incident when the Radiological Emergency Response Preparedness Plan is Activated).

5.4.5 If a Plant Area Evacuation is required:

1. Direct the CAS or SAS Operator to account for personnel, in accordance with EP-205-30 (Security Force: Accountability) and to report the results to the Security Shift Lieutenant.
2. Immediately report the names and last known location of any missing personnel to the Emergency Director. If the TSC is activated, report to the Security Advisor.

5.4.6 If a Protected Area Evacuation is required:

1. Direct the CAS or SAS operator to account for personnel in the plant, in accordance with EP-205-30 (Security Force: Accountability), and to report the results to the Security Shift Lieutenant.
2. Direct the ACOs at the Security Building (Primary Access Portal) and Warehouse "B" (Alternate Access Portal) to account for personnel, in accordance with EP-205-30 (Security Force: Accountability), and to report the results to the SAS Operator and the Security Shift Lieutenant.
3. Immediately report the names and last known location of any missing personnel to the Emergency Director. If the TSC is activated, report information to the Security Advisor.

5.4.7 If a Site Area Evacuation occurs:

1. Direct the CAS or SAS Operator to account for personnel in the plant, in accordance with EP-205-30 (Security Force: Accountability), and to report the results to the Security Shift Lieutenant.

2. Direct the ACO at the owner-controlled area access to account for personnel, in accordance with EP-205-30 (Security Force: Accountability), and to report the results to the SAS Operator and Security Shift Lieutenant.
3. Immediately report the names and last known location of any missing personnel to the Emergency Director. If the TSC is activated, report information to the Security Advisor.
4. Notify Director-Nuclear Security (or designee) that it may be necessary to activate off-duty security personnel.

5.5 When the TSC is activated, the TSC Security Advisor shall:

- 5.5.1 Contact SAS for an update on the emergency and ascertain security requirements.
- 5.5.2 Assist the Emergency Director with security matters, as necessary, to include the following:
 1. Ensure adequate MSF are available for the emergency.
 2. Maintain access control & personnel accountability for the protected and vital areas.
 3. Verify security related emergencies and/or escorts.
 4. Provide the Emergency Director with necessary information concerning security and personnel accountability, as necessary.
 5. Provide access clearance into the Protected Area for essential personnel.
 6. Control access into the TSC.
 7. Update the EOF Security Advisor, if EOF is activated, as needed. Notify the Director-Nuclear Security (or designee) of any developments or assistance required, if EOF is not activated.

5.6 If the EOF is activated, the EOF Security Advisor shall:

- 5.6.1 Contact the SAS operator for information required and update on the emergency and security requirements.
- 5.6.2 Contact the TSC Security Advisor for update on the emergency.

- 5.6.3 Ensure adequate MSF available for emergency [TSC, EOF, OSC, Joint Public Information Center (JPIC), etc.].
- 5.6.4 Provide information to the Public Information Coordinator at the EOF, regarding security matters, injuries, etc..
- 5.6.5 Maintain access control to the owner-controlled area:
 - 1. Assist EOF Coordinator with entry authorizations for essential personnel and material.
 - 2. Assist TSC Security Advisor with entry requirements to the owner-controlled area for essential personnel and material going to the Protected Area.
- 5.6.6 Obtain entry clearance through road-blocks for essential personnel and material required at the site.
- 5.6.7 Provide MSF escorts, as necessary, for materials or people from off-site.
- 5.6.8 Verify security related incidents during the emergency.
- 5.6.9 Provide for off-site contacts with families of injured employees, contact hospitals for follow-up information, etc.
- 5.6.10 Control access into the EOF.
- 5.6.11 Update the Director-Nuclear Security (or designee) on the emergency and security requirements, as necessary.
- 5.7 The ACO at the site entrance shall:
 - 5.7.1 When directed by the SAS Operator, halt access to the site to all but responding off-site emergency response groups.
 - 5.7.2 Carry out the procedures in References 2.2 through 2.6 as directed by the SAS Operator or the Shift Lieutenant.
- 5.8 The ACO at the Security Building (Primary Access Portal) shall:
 - 5.8.1 When directed by the SAS Operator, halt access to the Protected Area to all but responding off-site emergency response groups.

- 5.8.2 Carry out the procedures in References 2.2 through 2.6 as directed by the SAS Operator or the Shift Lieutenant.
- 5.9 The ACO at Warehouse "B" (Alternate Access Portal) shall:
 - 5.9.1 When directed by the SAS Operator, halt access to the Protected Area to all but responding off-site emergency response groups.
 - 5.9.2 Carry out the procedures in References 2.2 through 2.6 as directed by the SAS Operator or the Shift Lieutenant.
- 5.10 The OSC Security Coordinator shall:
 - 5.10.1 Assign Response Force Members as escorts to in-plant teams (Fire Brigade, RET, etc.), as necessary.
 - 5.10.2 Advise SAS on dispatch of teams and who is assigned as escorts
 - 5.10.3 Assist in coordinating activities between Security and the OSC.
- 5.11 The ACO at the TSC shall:
 - 5.11.1 Control access of authorized personnel to the TSC, when activated. An access list is provided for this purpose.
 - 5.11.2 Issue appropriate badges to personnel on arrival.
 - 5.11.3 Have personnel sign in on log upon entry and sign out, upon departure.
 - 5.11.4 Assist the Security Advisor, as necessary.
- 5.12 The ACO at the EOF shall:
 - 5.12.1 Control access of authorized personnel to the EOF, when activated. An access list is provided for this purpose.
 - 5.12.2 Issue appropriate badges to personnel on arrival.
 - 5.12.3 Have personnel sign-in upon entry and sign-out upon departure.
 - 5.12.4 Assist the Security Advisor, as necessary.

6.0 Follow-up Actions

6.1 The Security Shift Lieutenant shall:

- 6.1.1 After conferring with the Emergency Director, determine if the incident is security-related. If it is not security-related, stand by to assist the Emergency Director in activities as needed.
- 6.1.2 If the incident is determined to be security-related, direct MSF to carry out the steps of Security Force: Security Emergency During an Incident when the Radiological Emergency Response Preparedness Plan is Activated (EP-205-4).
- 6.1.3 If an evacuation is directed, report to the Emergency Director as soon as all personnel are accounted for.

6.2 The CAS Operator shall:

- 6.2.1 If the Security Shift Lieutenant determines that the incident is not security-related, announce "All Clear" to all security personnel.
- 6.2.2 If the incident is determined to be security-related, carry out EP-205-4 (Security Force: Security Emergency During an Incident when the Radiological Emergency Response Preparedness Plan is Activated).

6.3 The SAS Operator shall:

- 6.3.1 If the incident is determined to be security-related, carry out EP-205-4 (Security Force: Security Emergency During an Incident when the Radiological Emergency Response Preparedness Plan is Activated).

6.4 All MSF shall:

- 6.4.1 If it is determined that the incident is not security related, receive the "All Clear" report from the CAS operator, and acknowledge the report.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: CONTROL OF IN-PLANT ACCESS FOR EMERGENCY
RESPONSE PREPAREDNESS PERSONNEL

RECORD OF APPROVAL AND CHANGES

Prepared by Michael J. Cooley 8-10-83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

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Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor- Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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Revised by: Debbie hatto (RERP #3)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: CONTROL OF IN-PLANT ACCESS FOR EMERGENCY
RESPONSE PREPAREDNESS PERSONNEL

Prepared by	<u>Michael J. Cooley</u>	<u>8-10-83</u> Date
Recommended by	<u>Donald J. MacKenzie</u> Communication System Division	<u>8-18-83</u> Date
Recommended by	<u>James R. Jones</u> Community & Government Affairs	<u>8-18-83</u> Date
Recommended by	<u>Paul E. Schurman</u> Licensing	<u>8/19/83</u> Date
Recommended by	<u>Michael J. [unclear]</u> Medical Staff	<u>8/19/83</u> Date
Recommended by	<u>James M. [unclear]</u> Nuclear Administration	<u>8-18-83</u> Date
Recommended by	<u>Gregory A. [unclear]</u> Nuclear Production	<u>8-23-83</u> Date
Recommended by	<u>James L. [unclear]</u> Nuclear Training	<u>8/18/83</u> Date
Recommended by	<u>Bert Haffner</u> Public Information	<u>8-18-83</u> Date
Recommended by	<u>Michael [unclear]</u> Security	<u>8-18-83</u> Date
Recommended by	<u>Maurice L. Vermenka</u> Wayne-Monroe Division	<u>8/18/83</u> Date
Approved by	<u>Thomas Randazzo</u> RERP Committee Chairperson	<u>8/18/83</u> Date

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Chairperson Approved

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1.0 Purpose

To prescribe the actions to be performed by the Security Force to control in-plant access for Emergency Response personnel.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization) and Section J (Protective Response).
- 2.2 Security Force: Response to an Incident when the Radiological Emergency Response Preparedness Plan is Activated (EP-205-1).
- 2.3 Security Force: Control of Site Area Access during an Incident when the Radiological Emergency Response Preparedness Plan is Activated (EP-205-3).
- 2.4 Security Force: Security Emergency during an Incident when the Radiological Emergency Response Preparedness Plan is Activated (EP-205-4).

3.0 Entry Conditions

The Nuclear Shift Supervisor, Emergency Director, or Security Shift Lieutenant directs that the Security Force provide in-plant access for Emergency Response Teams to areas for which they normally do not have access (special access).

4.0 General Information

- 4.1 It is essential that the efforts of Emergency Response Teams in controlling an emergency not be hampered by restricted access. Prohibiting an Emergency Team's ability to properly function can result in loss of life, serious injury, or excessive damage to equipment.
- 4.2 The steps of this procedure assume that no loss or degradation of security system hardware has occurred. If loss or degradation of security system hardware occurs, carry out procedures outlined in Reference 2.4 to properly respond to the Security Emergency and to control in-plant access for emergency response personnel.

5.0 Immediate Actions

- 5.1 The Secondary Alarm Station (SAS) Operator shall:

- 5.1.1 Direct the Access Control Officer (ACO) at the Security Building (Primary Access Portal) to halt access to the Protected Area to all but authorized responding personnel.
- 5.1.2 On-Site Emergency Response Teams which may be activated include the following:
1. On-Site Radiological Emergency Team.
 2. On-Site Personnel Monitoring Team.
 3. Fire Brigade.
 4. Damage Control and Rescue Team.
- 5.1.3 Enter the names of On-Site Emergency Response personnel into the computer data base as necessary to ensure proper access for Team members.
- 5.1.4 Off-Site Emergency Response personnel which may be activated include the following:
1. Frenchtown Volunteer Fire Department.
 2. Ambulance.
 3. Local law enforcement agency (LLEA).
 4. Medical support personnel.
- 5.1.5 Check the names of Off-Site Emergency Response personnel against the master list for that group of personnel. Enter only the names of personnel who have actually arrived on-site into the computer data base. If a person's name does not appear on the master list, he must be escorted by a Member of the Security Force (MSF). If time is critical (lives are in jeopardy or extensive equipment damage is imminent) record only the vehicle and number of personnel assigned, e.g., "Fire truck 731 with 7 personnel."
- 5.1.6 Provide escort officers as necessary for Off-Site Emergency Response personnel, and enter the escorts' names with the response personnel into the computer data base.
- 5.1.7 Notify the Security Advisor at the TSC and EOF when activated.
- 5.1.8 Inform the Security Shift Lieutenant of the Teams being authorized special access as soon as they have been entered into the computer data base.

- 5.2 The Central Alarm Station (CAS) Operator shall concur with the access request as entered into the data base by the SAS operator.

6.0 Follow-up Actions

6.1 The SAS Operator shall:

- 6.1.1 Verify with the Emergency Director when the need for special access for On-Site or Off-Site Emergency Response Teams is no longer required. If the TSC is activated, verify through the Security Advisor.
- 6.1.2 When the need for On-Site Emergency Response Team special access is no longer required, remove the names of the members of the Team from the computer data base.
- 6.1.3 When the need for Off-Site Emergency Response personnel special access is no longer required, remove the name of the MSF escort with the Team from the computer data base. This action will deactivate the access for that Team.
- 6.1.4 Be prepared to reenter names of On-Site Emergency Response Teams into the computer data base, as directed by the Emergency Director, as it may be necessary to reactivate a Team.
- 6.1.5 Upon departure of Off-Site Emergency Response personnel, obtain the names, dosimeter, TLD, and badge numbers of the group members if time had not permitted this action to be performed earlier. Collect all TLD's and dosimeters and forward them to the Health Physics Supervisor Dosimetry for processing.
- 6.1.6 Remove the names of Off-Site Emergency Response personnel from the computer data base.

- 6.2 The CAS Operator shall concur with changes in special access as requested by the SAS Operator.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: CONTROL OF SITE AREA ACCESS DURING AN
INCIDENT WHEN THE RADIOLOGICAL EMERGENCY RESPONSE
PREPAREDNESS PLAN IS ACTIVATED

RECORD OF APPROVAL AND CHANGES

Prepared by	<u>K. Connell</u>	<u>4/11/83</u>	Date
Approved by	<u>Thomas Randazzo</u> Responsible Section Head	<u>8/22/83</u>	Date
Recommended by	<u>E.H. Newton</u> Supervisor - Operational Assurance/Delegate	<u>8-23-83</u>	Date

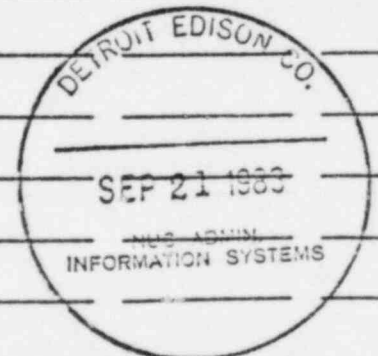
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IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by	<u>R/L +</u> OSRO Chairman/Alternate	<u>8/23/83</u>	Date
Approved by	<u>R/L +</u> Superintendent-Nuclear Production/Delegate	<u>8/23/83</u>	Date

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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: CONTROL OF SITE AREA ACCESS DURING AN INCIDENT WHEN
THE RADIOLOGICAL EMERGENCY RESPONSE PREPAREDNESS PLAN IS
ACTIVATED

Prepared by	<u>K. Connell</u>	<u>4-11-83</u>
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Recommended by	<u>Donald Groe Kenne</u>	<u>5-31-83</u>
	Communication System Division	Date
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Recommended by	<u>James P. Conner</u>	<u>6-22-83</u>
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Recommended by	<u>Larry E. Asherman</u>	<u>6/17/83</u>
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	Nuclear Production	Date
Recommended by	<u>John D. Mennett Jr</u>	<u>5/31/83</u>
	Nuclear Training	Date
Recommended by	<u>Bert Hanna John Peters</u>	<u>5/2/83</u>
	Public Information	Date
Recommended by	<u>Stuart H. Leach</u>	<u>5-31-83</u>
	Security	Date
Recommended by	<u>Maurice E. Vennard</u>	<u>5/31/83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Randazzo</u>	<u>5/31/83</u>
	RERP Committee Chairperson	Date

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Chairperson Approved

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1.0 Purpose

To prescribe the actions to be performed by the Security Force to control access to the Owner-Controlled Area or the Protected Area during an incident when the Radiological Emergency Response Preparedness (RERP) Plan is activated.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization) and Section J (Protective Response)
- 2.2 Enrico Fermi - Unit 2 Contingency Plan Implementing Procedures
- 2.3 Security Force: Response to an Incident When the Radiological Emergency Response Preparedness Plan is Activated (EP-205-1)
- *2.4 Security Force: Control of In-Plant Access for Emergency Response Preparedness Personnel (EP-205-2)
- *2.5 Public Affairs: Unusual Event/Alert (EP-602)
- *2.6 Public Affairs: Media Pool Operation (EP-607)

3.0 Entry Conditions

Any of the following occur:

- 3.1 Off-site emergency response personnel are expected to arrive at the site (ambulance team, medical support personnel, the local fire department, Off-Site Radiological Emergency Team, etc.).
- 3.2 An event is classified as a Site Area Emergency or General Emergency (the Emergency Operations Facility (EOF) staff will be expected to arrive on-site).
- 3.3 Authorized government or off-site support personnel are expected to arrive on-site, in addition to those who will staff the EOF.
- 3.4 Unauthorized persons are expected to arrive at the site (including news media personnel).
- 3.5 Any situation in which the RERP Plan is implemented.

4.0 General Information

- 4.1 The Security Force's responsibility in controlling access to the Owner-Controlled Area or the Protected Area during fire,

*Denotes "Use" Reference

disaster, and radiological emergency is to restrict access except for personnel who are part of the Emergency Response Organization or are providing support for emergency response efforts.

- 4.2 Access for members of the press and of the general public is authorized by the Director-Nuclear Security (or alternate), with concurrence of the Emergency Officer, if the EOF is activated. Authorization is made by the Emergency Director if the EOF is not activated. Such access will be limited to the Nuclear Operations Center (NOC), and to controllable, supervised groups under the cognizance of the Director of Public Information or representative (See reference 2.6).

5.0 Immediate Actions

5.1 The Secondary Alarm Station (SAS) Operator shall:

- 5.1.1 As soon as possible, determine the emergency classification from the Emergency Director or Security Shift Lieutenant, or Security Advisor at the TSC, if activated.
- 5.1.2 When notified of RERP implementation by the Nuclear Shift Supervisor or Emergency Director, carry out EP-205-2 (Security Force: Control of In-Plant Access for Emergency Response Preparedness Personnel).
- 5.1.3 Notify the Director-Nuclear Security (or designee), if it is necessary to activate any off-duty security personnel.
- 5.1.4 Direct the Access Control Officer (ACO) at the Owner-Controlled Area entrances to halt access to the site to all but responding off-site emergency response personnel. Ensure traffic does not inhibit Emergency Response personnel from accessing the site. It may be necessary to obtain assistance from the Local Law Enforcement Agency (LLEA) or additional Security Force Personnel in controlling traffic.
- 5.1.5 Direct the ACO at the Security Building (Primary Access Portal) to halt access to the Protected Area to all but responding off-site emergency response personnel and personnel authorized by the Nuclear Shift Supervisor or Emergency Director.
- 5.1.6 Direct the ACO at Warehouse "B" (Alternate Access Portal) to halt access to the Protected Area to all but responding off-site emergency response personnel and personnel authorized by the Nuclear Shift Supervisor or Emergency Director.

- 5.1.7 If off-site emergency response groups are expected to arrive (master lists will show the names of ambulance team members, medical support personnel, the local volunteer fire department personnel, Off-Site Radiological Emergency Team members, etc.):
1. Estimate time of arrival of off-site assistance groups. Notify the appropriate ACO and the Security Shift Lieutenant of the number of personnel expected, expected entry points, and travel routes when on-site.
 2. Assign Members of the Security Force (MSF) as escorts for off-site emergency response groups. Direct the escorts to proceed to the appropriate site entrance gate, escort the group for badge issue, and then escort the group to the scene of the emergency.
 3. When the ACO at the Owner-Controlled Area access gate reports the arrival of any off-site emergency response personnel, issue badges and enter the badge numbers into the computer data base. If time is critical (lives are in jeopardy or extensive equipment damage is imminent) record only the vehicle and number of personnel, e.g., "Fire truck 731 with 7 personnel".
 4. Notify the Emergency Director (through Technical Support Center (TSC) Security Advisor if TSC is activated) and Security Shift Lieutenant as off-site emergency response groups arrive.
 5. Inform the Director-Nuclear Security (or designee) that special access has been authorized for Off-Site Emergency Response Teams.
- 5.1.8 If the event is classified by the Emergency Director as a Site Area Emergency or General Emergency (the EOF staff will be expected to arrive on-site), or if authorized government or off-site support personnel are expected to arrive on-site (in addition to those who will staff the EOF):
1. Request assistance from the Security Shift Lieutenant in obtaining escorts.
 2. Assign MSF as escorts for arriving personnel. Direct the escorts to escort personnel to their destination.

- 5.1.9 If unauthorized persons are expected to arrive or have arrived at the site (including news media personnel):
1. Inform the Security Shift Lieutenant, Director-Nuclear Security, (or alternate), if the EOF is activated, and the Emergency Director, through the TSC Security Advisor (if the TSC is activated).
 2. Verify that the Director-Public Information has been notified.
 3. Order the ACO at the Owner-Controlled Area entrances to direct all unauthorized persons to the Monroe Community College (Joint Public Information Center (JPIC) or an alternate facility if the JPIC is not activated). The Director of Public Affairs or representative will coordinate with the Director-Nuclear Security (or alternate) on-site access for news media personnel (See reference 2.5 and 2.6).
 4. If a Public Affairs representative arranges for the supervised escort of media persons, obtain authorization for their entry from the Director-Nuclear Security (or alternate), if the EOF is activated. If the EOF is not activated, then obtain authorization from the Emergency Director.
 5. If authorization for their entry is given, determine the number of personnel, assign MSF as escorts, inform the appropriate ACO's, and inform Director-Nuclear Security (or designee). Direct the escorts to escort the personnel to the On-Site News Center (See reference 2.5).
- 5.1.10 Notify fire department and ambulance crews when necessary.
- 5.2 ACO's at the Owner-Controlled Area entrances shall:
- 5.2.1 When directed by the SAS operator, halt access to the site to all but responding off-site emergency response groups.
 - 5.2.2 Ensure a traffic backup does not occur and inhibit the access to the site by necessary Emergency Response personnel. It may be necessary to obtain assistance from the LLEA or additional Security Force personnel to control traffic.

- 5.2.3 For responding off-site emergency response groups (ambulance team, fire department, off-site medical support group, Off-Site Radiological Emergency Team, etc.):
1. Inform the Security Shift Lieutenant and SAS Operator of the number and names of responding personnel upon their arrival.
 2. Prepare TLD's for all off-site emergency response personnel and issue access badges.
 3. Ensure that MSF escort the group to the Security Building or to the scene of the emergency.
- 5.2.4 For EOF staff personnel, authorized government, or off-site support personnel:
1. Provide the SAS Operator with the number and names of personnel upon their arrival.
 2. Ensure that MSF escort the personnel to the NOC.
- 5.2.5 For unauthorized persons (including news media personnel):
1. Inform the SAS operator.
 2. Direct all unauthorized persons to the Monroe Community College (JPIC or an alternate location if the JPIC is not activated). Inform them that a Public Affairs representative will coordinate access for personnel on to the site.
 3. Notify the SAS Operator if a group of unauthorized persons arrives in the company of an escorting Public Affairs Representative. Provide the names of personnel to the SAS Operator. Detain them until cleared for access.
 4. If authorization is received from the SAS ensure that MSF escort the personnel to the designated media briefing location.

5.3 The ACO at the Security Building (Primary Access Portal) shall:

- 5.3.1 When directed by the SAS Operator, halt access to the Protected Area to all but responding emergency response groups.

5.3.2 For responding off-site emergency response groups (ambulance team, fire department, off-site medical support groups, Off-Site Radiological Emergency Team, etc.):

1. Inform the SAS Operator of the number and the names of personnel upon their arrival.
2. Ensure TLD's, access badges, and dosimeters have been issued to all personnel. If they have not, issue TLD's, access badges, and dosimeters.
3. Ensure that MSF escort the group to the scene of the emergency.

5.4 Security Force Escorts shall:

- 5.4.1 Escort off-site emergency support personnel for badge issue, and then to the scene of the emergency, as directed by the SAS Operator.
- 5.4.2 Escort authorized government or off-site support personnel as directed by the SAS Operator or the Senior Administrator-Security or designee.
- 5.4.3 Escort normally unauthorized media, supervised by a Public Affairs Representative, to the designated media briefing location, as directed by the SAS Operator or Director-Nuclear Security (or designee), if the EOF is activated (See reference 2.6).

6.0 Follow-Up Actions

- 6.1 The SAS Operator shall ensure all off-site emergency response personnel leave the areas for which they were authorized access.
- 6.2 Upon departure of Emergency Response group personnel, obtain the names and TLD badge numbers of the group members if time had not permitted this action to be performed earlier.
- 6.3 The ACO at the Owner-Controlled Area access gate shall collect TLD's and record the persons' names upon their departure, if their names had not been recorded earlier, and send TLD's to Health Physics Supervisor Dosimetry.
- 6.4 The ACO's at the Security Building (Primary Access Portal) and Warehouse "B" (Alternate Access Portal) shall collect TLD's and dosimeters and record the persons' names upon their departure if their names had not been recorded earlier.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: SECURITY EMERGENCY DURING AN INCIDENT WHEN
THE RADIOLOGICAL EMERGENCY RESPONSE PREPAREDNESS PLAN IS ACTIVATED.

RECORD OF APPROVAL AND CHANGES

Prepared by K. Connell 4/11/83
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E H Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/Lt 8/23/83
OSRO Chairman/Alternate Date
Approved by D/Lt 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: SECURITY EMERGENCY DURING AN INCIDENT WHEN
THE RADIOLOGICAL EMERGENCY RESPONSE PREPAREDNESS PLAN IS ACTIVATED.

Prepared by	<u>K. Connell</u>	<u>4/11/83</u>
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	RERP Committee Chairperson	Date
Revision No.	RERP Committee Chairperson Approved	Date

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1.0 Purpose

To prescribe the actions to be performed by the Security Force in event of a security emergency during an incident when the Radiological Emergency Response Preparedness Plan is activated.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization) and Section J (Protective Response)
- *2.2 Enrico Fermi-Unit 2 Contingency Plan Implementing Procedures
- 2.3 Security Force: Response to an incident when the Radiological Emergency Response Preparedness Plan is Activated (EP-205-1)
- 2.4 Security Force: Control of In-Plant Access for Emergency Response Preparedness Personnel (EP-205-2)
- 2.5 Use of Protective Clothing (65.000.10)
- 2.6 Selection and use of Respiratory Protection Equipment (65.000.20)

3.0 Entry Conditions

A security emergency occurs during a fire, disaster, or radiological emergency.

4.0 General Information

- 4.1 A security emergency during a fire, disaster, or radiological emergency is controlled as delineated in CPIP-2 (Enrico Fermi-Unit 2 Contingency Plan Implementing Procedures), however, existing hazards may require additional protection for Security Force personnel.
- 4.2 It is essential that the efforts of Emergency Response Teams in controlling the emergency not be hampered by restricted access. Loss or degradation of security system hardware could prohibit an Emergency Team's ability to properly function. This could result in loss of life, serious injury, or excessive damage to equipment.

5.0 Immediate Actions

- 5.1 The Security Shift Lieutenant shall:

- 5.1.1 Declare a Security Emergency when the situation becomes degraded to the point that it qualifies, in the Security Shift Lieutenant's judgment, as a Security Emergency.

*Denotes "Use" Reference

- 5.1.2 Notify the Nuclear Shift Supervisor or the Emergency Director of the Security Emergency through the Technical Support Center (TSC) Security Advisor (if the TSC is activated).
- 5.1.3 Establish and monitor communications with the Central Alarm Station (CAS) Operator, and coordinate the Members of the Security Force (MSF) response to the Security Emergency. If necessary, direct the Secondary Alarm Station (SAS) Operator to call for Local Law Enforcement Agency (LLEA) assistance.
- 5.1.4 Verify that the proper personnel on the notification list have been contacted. Direct any notifications to be made that have not as yet been completed.
- 5.1.5 Ensure that any Security Response Force personnel proceeding to investigate the emergency have adequate protective clothing and respiratory equipment and take proper precautions:
 - 1. In the event of a fire, direct the Operational Support Center (OSC) Security Coordinator to contact the OSC Coordinator and determine from the Fire Brigade Leader what protective clothing or respiratory equipment is necessary and to obtain the necessary equipment. If Security Response Force members must enter a fire area, direct them to report to the Fire Brigade Leader at the scene of the fire prior to entering the fire area.
 - 2. In the event of personnel hazards due to an explosion, toxic chemical release, or other disaster (damaged or unsafe equipment, dangerous chemicals, electrical hazards, steam, leaking high pressure fluid or gas, etc.), direct the OSC Security Coordinator to contact the OSC Coordinator and determine from the Damage Control and Rescue Team Leader what protective clothing or respiratory equipment is necessary and have the escorts obtain the necessary equipment. If Security Response Force members must enter an area where a hazard exists (as listed above), direct them to report to the Damage Control and Rescue Team Leader or Scene Leader at the scene of the emergency prior to entering the area.
 - 3. In the event of a radiological hazard, direct the OSC Security Coordinator to contact the OSC Coordinator and determine from the On-Site Radiological Emergency Team (On-Site RET) Leader what protective clothing, respiratory equipment, or dosimetry is necessary and to have the escorts obtain the necessary equipment. If Security Response Force members must enter an area where a radiological hazard exists, direct them to report

to the On-Site RET Leader or Scene Leader at the scene of the emergency prior to entering the area.

- 5.1.6 If the Security Emergency involves loss or degradation of security system hardware ensure that in-plant access for Emergency Teams is not impeded.
 - 1. If necessary, declare "open access".
 - 2. If necessary, provide MSF to escort Emergency Response Teams into plant areas. The escorts are responsible for accountability of the group they escort and for proper security of all areas entered. Escorts should have proper protective clothing, respiratory equipment, and dosimetry as outlined for MSF in step 5.1.5 above. They should initially report to the Emergency Team or Scene Leader at the scene of the emergency.
- 5.1.7 If suspects are found by the MSF, follow the appropriate apprehension guidance of Contingency Plan Implementing Procedures.
- 5.1.8 Direct additional MSF to continue the search and investigation to ensure additional suspects are not on the site. Search all suspected areas for evidence of sabotage, sabotage devices, or suspects. If no additional suspects or sabotage are discovered, search efforts may be terminated as indicated in Contingency Plan Implementing Procedures.
- 5.1.9 Advise the CAS and SAS operators of progress and coordinate reports of the Security Response Force.
- 5.1.10 If off-site response personnel are called, meet and brief the off-site response leader on the situation. Ensure TLD's and appropriate access badges are issued to assisting personnel.
- 5.1.11 Direct MSF and site personnel to assist the LLEA.
- 5.2 The CAS Operator shall carry out CPIP-2 (Enrico Fermi-Unit 2 Contingency Plan Implementing Procedure) for a Security Emergency.
- 5.3 The SAS Operator shall carry out CPIP-2 (Enrico Fermi-Unit 2 Contingency Plan Implementing Procedure) for a Security Emergency.
- 5.4 The Security Response Force members shall:
 - 5.4.1 When the Security Emergency is called, acknowledge the emergency by responding in order of assignment

Code (unless otherwise directed) to the SAS, by radio, phone, or personal contact with the SAS.

- 5.4.2 Determine the necessary protective equipment, respiratory equipment, and dosimetry, as directed by the Security Shift Lieutenant or Security Response Force Leader (SRFL) (this will involve contacting the Fire Brigade Leader, Damage Control and Rescue Team Leader, or On-Site RET Leader).
- 5.4.3 Obtain equipment, if required, and take stations as directed by the Security Shift Lieutenant or SRFL.
- 5.4.4 Take action as necessary to control the event.
 - 1. If it is necessary to enter a fire area, report to the Fire Brigade Leader at the scene of the emergency prior to entering the area.
 - 2. If it is necessary to enter a hazard area with damaged or unsafe equipment, dangerous chemicals, electrical hazards, steam, leaking high pressure fluid or gas, etc., report to the Damage Control and Rescue Team Leader or Scene Leader at the scene of the emergency prior to entering the area.
 - 3. If it is necessary to enter an area with radiological hazards, report to the On-Site RET Leader or Scene Leader at the scene of the emergency prior to entering the area.
- 5.4.5 Apprehend suspects as directed by the Security Shift Lieutenant and isolate the affected area as directed in the Contingency Plan Implementing Procedures.
- 5.4.6 Investigate affected areas as directed by the Security Shift Lieutenant, the SRFL, or the CAS Operator, in that order. Report to the Security Shift Lieutenant or SRFL the results of the investigation. The CAS or SAS Operator will monitor calls and relay information to the Security Shift Lieutenant, as necessary.
- 5.4.7 When requested by the SAS Operator, act as escorts for off-site response groups. Provide TLD's to assistance personnel when required.
- 5.4.8 If suspects are apprehended, escort the suspects to the Security Building or other designated location and transfer custody to Security Shift Lieutenant.
- 5.4.9 If security related equipment is sabotaged or damaged, report the findings to the SAS Operator. Monitor the areas as assigned until repairs or adjustments are made.

- 5.4.10 Provide alternate communications and back-up support for Emergency Response Teams.

5.5 Security Force Escorts shall:

- 5.5.1 Determine appropriate protective clothing, respiratory equipment, and dosimetry as directed by the Security Shift Lieutenant or SRFL.
- 5.5.2 Obtain necessary equipment, if required.
- 5.5.3 Report to the Emergency Team Leader or Scene Leader at the scene of the emergency.
- 5.5.4 Supervise entrance and exit of Emergency Team personnel. The Security Escort shall be responsible for accountability of the group being escorted and for proper security of all areas entered.

6.0 Follow-up Actions

6.1 The Security Shift Lieutenant shall:

- 6.1.1 After receiving a report of damaged security equipment from the SAS Operator, advise the Emergency Director and request repairs as necessary, through the TSC Security Advisor (if the TSC is activated).
- 6.1.2 If possible assign MSF to perform the function of degraded equipment. Ensure that the MSF assigned have adequate protective clothing, respiratory equipment, and dosimetry.
- 6.1.3 Ensure all off-site response personnel leave the areas to which they were granted access.
- 6.1.4 After concurrence with the Emergency Director, declare an "All Clear." Direct the CAS Operator to announce an "All Clear".
- 6.1.5 Return to normal security operations.

6.2 The Members of the Security Force shall:

- 6.2.1 Collect the TLD's from off-site response force personnel, record names, and badge numbers and forward TLD's to the Supervisor Dosimetry Health Physics for processing.
- 6.2.2 When an "All Clear" is received, acknowledge it with the SAS Operator.

6.2.3 Resume normal security operations.

6.3 The Security Force Escorts shall report to the SAS Operator if
Emergency Team personnel are unaccounted for.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: OPERATION OF OFF-SITE ASSEMBLY POINTS

RECORD OF APPROVAL AND CHANGES

Prepared by Mike Candela August 31, 1983
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational
Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear
Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor- Operational Assurance Recommended	Date	*	OSRO Recommended	Date	Nuc. Prod. Approved	Date
1					*				
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Typed by: Val Lindquist (RERP-14)
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: OPERATION OF OFF-SITE ASSEMBLY POINTS

Prepared by	<u>Mike Candela</u>	<u>07/20/83</u> Date
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Recommended by	<u>Larry E Schuman</u> Licensing	<u>9-7-83</u> Date
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Recommended by	<u>James M. De Bay</u> Nuclear Administration	<u>8-25-83</u> Date
Recommended by	<u>McDonald</u> Nuclear Production	<u>9-6-83</u> Date
Recommended by	<u>Kenn Thompson</u> Nuclear Training	<u>8-25-83</u> Date
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Revision No.	RERP Committee Chairperson Approved	Date

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Attachments

Evacuee and Disposition Log.	Attachment 1
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1.0 Purpose

The purpose of this procedure is to establish guidelines to be followed by the Nuclear Security Force in the event an evacuation is ordered and the off-site assembly areas are activated.

2.0 References

- *2.1 Enrico Fermi Atomic Power Plant, Unit 2 Radiological Emergency Response Preparedness Plan, Section J (Protective Responses)
- 2.2. Security Force: Response to an Incident When the Radiological Emergency Response Preparedness Plan is Activated (EP-205-1)
- 2.3 Security Force: Control of In-plant Access for Emergency Response Preparedness Personnel (EP-205-2)
- 2.4 Security Force: Control of Site Area Access During Incident When the Radiological Emergency Response Preparedness Plan is Activated (EP-205-3)
- 2.5 Security Force: Accountability (EP-205-30)
- *2.6 Off-site Personnel Monitoring Teams: Functions (EP-202-4)
- 2.7 Assembly, Accountability and Evacuation (EP-530)

3.0 Entry Conditions

- 3.1 The Emergency Director directs a Site Area Evacuation due to an unexpected or uncontrolled hazard which affects the Protected Area.
- 3.2 A hazard or potential hazard exists in the Owner Controlled Area due to toxic chemicals or a radioactive release.

4.0 General Information

- 4.1 A site area evacuation is defined as the supervised evacuation of all nonessential personnel from any site facility or area, including, but not limited to, the Protected Area, the Visitors Center, the General Training and Orientation Center, the Nuclear Operations Center, Fermi 1, or any other area within the Owner Controlled Area, to the designated assembly point(s).
- 4.2 In the event that a site area evacuation is ordered one or more of the following predesignated assembly points shall be activated:

- 4.2.1 Newport Service Center (Newport Rd. and Telegraph)
- 4.2.2 Monroe Power Plant (East Front Street)
- 4.2.3 Trenton Channel Power Plant (W. Jefferson)
- 4.3 Personnel shall be notified of the assembly point they are to report to by one or more of the following methods; plant HiCom system, telephone, supervisor, PA system, runner or escort. Personnel shall follow the preestablished evacuation route to the designated assembly point as shown in Enrico Fermi Atomic Power Plant Unit 2, Radiological Emergency Response Preparedness Plan Section J, Figure J-2.
- 4.4 The Nuclear Security Force, in conjunction with Health Physics and other departments and agencies as required, shall establish, operate and maintain these assembly points.

5.0 Immediate Actions

- 5.1 Nuclear Security (CAS/SAS) shall be notified of any evacuation by the Emergency Director and/or Technical Support Center/Emergency Operations Facility (TSC/EOF) Security Advisor. Depending upon which assembly point(s) will be activated, one of the following shall occur;
 - 5.1.1 If the assembly point is one of the two designated power plants, nuclear security shall notify the security representative at that location of the site area evacuation and the anticipated arrival of site personnel. Security representatives at the designated power plant shall make preparations to receive and process personnel until arrival of EF II Nuclear Security Force members.
 - 1. A Nuclear Security accountability kit shall be maintained at each power plant security office. The kit shall contain; accountability forms, pencils, pens, paper, flashlights, batteries, traffic vest and clipboard(s). The kit shall be sealed.
 - 2. A minimum of three off duty EF II Nuclear Security Force members shall be notified and dispatched to each activated assembly point; entrance/exit-1, screening area-1, perimeter patrol-1.
 - 5.1.2 If the assembly point is to be the Newport Service Center and occurs between 0700-2330 hours during the week, Nuclear Security shall notify the Newport Service Center (77247) to expect evacuees. A designated Owner Controlled Area patrol with an accountability kit shall be dispatched to the Newport Service Center, secure the

Telegraph Road gate and establish the Newport Road gate as the main entrance/exit. If the evacuation occurs between 2330-0700 hours or on weekends or holidays, Nuclear Security shall dispatch the designated Owner Controlled Area patrol with accountability kit. The patrol upon arrival shall unlock the Newport Road gate and establish it as the main entrance/exit. Once the main entrance/exit is established the patrol officer shall start in-processing of personnel.

1. The security accountability kit shall be maintained at the assembly point locations. The kit shall contain; accountability forms, pencils, pens, paper, flashlights, batteries, traffic vest and clipboards. The kit shall be sealed. The key to Newport Service Center will be retained at Fermi Drive Gate.
2. A minimum of three off-duty EF II Nuclear Security Force members shall be notified and dispatched to the Newport Service Center assembly points; entrance/ exit-1, screening area-1, perimeter patrol-1.
3. If additional on duty security force members are not available to assist in operating the Newport Service Center assembly points, the security officer there may request assistance from selected evacuees pending the arrival of off-duty security officers.
4. To minimize response time security force members who reside near the activated assembly point(s) shall be notified first.

5.1.3 Additional Nuclear Security Force personnel may be assigned to assembly area(s) as deemed necessary.

5.2 Responding off-duty EF II Nuclear Security Force members shall wear appropriate civilian attire, Company issued identification and a safety helmet which bears Nuclear Security identification.

5.3 At the assembly point entrance/exit security officer(s) shall log in each evacuee by Name (Last, First, MI), Social Security Number, Company, Home Address and Phone. Vehicles shall be logged by make and license plate number. Personnel shall be directed to the vehicle parking area. Security officer(s) at the entrance/exit shall notify CAS/SAS by telephone (165-5215) or radio every 15 minutes of the number of personnel entering.

5.3.1 To ensure that all personnel entering an off site assembly point by vehicle are authorized to enter, vehicles shall have, affixed to the rearview interior mirror, a parking decal issued from Enrico Fermi, or

placard identifying the vehicle and occupants as coming from Enrico Fermi.

NOTE: Disposition of Contaminated or over-exposed personnel is also documented in EP-204-4 (Off-Site Personnel Monitoring Team: Functions), Attachment 1.

- 5.3.2 In addition to evacuees, Health Physics (Radiological Emergency Teams (RET), Personnel Monitoring Teams (PMT) and Public Information personnel shall be responding to the assembly point. These personnel shall be logged in the same as evacuees. Other personnel arriving at the assembly area shall be denied entry unless approval is received from Security Advisor or CAS/SAS via radio or telephone.
- 5.4 At the assembly area Health Physics (PMT) shall screen each vehicle and/or person, as appropriate, for contamination. Each person/vehicle screened will be classed in one of three categories;
- o Clean (May Leave)
 - o Contaminated, but decontaminated (May Leave)
 - o Contaminated, but not decontaminated (Disposition to be made by RPA or Emergency Director)
- 5.4.1 Security officer(s) shall be located at the screening area to log personnel in and record disposition of personnel (as received from HP) using the log shown in Attachment 1. As personnel are cleared and allowed to leave, the security officer at the screening area shall notify the security officer at the entrance/exit of the names of personnel allowed to leave by radio or telephone.
- 5.4.2 The security officer(s) at the entrance/exit shall log those personnel out as they leave. The register used to log the personnel into the assembly point shall be used to log the personnel out. CAS/SAS shall be notified of the number of personnel that have departed every thirty (30) minutes.
- 5.5 Nuclear Security Officer(s) at assembly points shall notify CAS/SAS whenever Local Law Enforcement Agency (LLEA) assistance is needed, CAS/SAS shall notify the appropriate LLEA as required.
- 5.5.1 In the event CAS/SAS cannot be contacted or is inoperable, LLEA assistance will be requested through the TSC/EOF security advisor or the security force present, if at a power plant. If not at a power plant and

contact cannot be made through CAS/SAS, TSC or EOF the Nuclear Security Officer shall initiate contact, then contact security at Corporate Headquarters (79113) and advise of situation and request appropriate notifications.

- 5.6 All media (TV, Radio, Newspaper) representatives shall be denied entry, unless entry is approved by and an escort is provided by a Company Public Affairs or JPIC representative. Approvals shall be received by the Security Advisor or CAS/SAS and relayed to the appropriate assembly point.

6.0 Follow Up Actions

- 6.1 Security officer(s) shall remain at assembly point(s) until release is obtained from Health Physics and the entire processing area is cleared. CAS/SAS will be notified.
- 6.2 Upon termination of evacuation security officers shall retain and turnover to CAS/SAS all documentation concerning personnel processed in and out of the assembly point. Security officers shall ensure all documentation is as complete as possible.

DATE _____

[illegible]

PG OF

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: ACCOUNTABILITY

RECORD OF APPROVAL AND CHANGES

Prepared by Dale Shultz 07/05/83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1	_____	_____	_____	_____	* _____	_____	_____	_____
2	_____	_____	_____	_____	* _____	_____	_____	_____
3	_____	_____	_____	_____	* _____	_____	_____	_____
4	_____	_____	_____	_____	* _____	_____	_____	_____
5	_____	_____	_____	_____	* _____	_____	_____	_____
6	_____	_____	_____	_____	* _____	_____	_____	_____
7	_____	_____	_____	_____	* _____	_____	_____	_____
	_____	_____	_____	_____	* _____	_____	_____	_____

Typed by: Pat Wright (RERP-12)
Revised by: Valerie Lindquist

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SECURITY FORCE: ACCOUNTABILITY

Prepared by	Dale Schultz <i>Dale Schultz</i>	06/22/83 Date
Recommended by	Donald J. MacKenzie Communication System Division	8-25-83 Date
Recommended by	James L. Jones Community & Government Affairs	8-25-83 Date
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Recommended by	<i>[Signature]</i> Nuclear Production	9-6-83 Date
Recommended by	James T. Strommen Nuclear Training	8-25-83 Date
Recommended by	Bert Keffner Public Information	8-25-83 Date
Recommended by	<i>[Signature]</i> Security	8-25-83 Date
Recommended by	M. J. Vrancken by <i>[Signature]</i> Wayne-Monroe Division	8-25-83 Date
Approved by	Thomas Randazzo RERP Committee Chairperson	8/25/83 Date
Revision No.	RERP Committee Chairperson Approved	Date

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Attachment

Personnel Accountability Report.....	Attachment 1
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1.0 PURPOSE

To provide instructions for personnel accountability during a plant area, protected area, or site evacuation.

2.0 REFERENCES

- 2.1 Enrico Fermi Atomic Power Plant, Unit 2, Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization) and Section J (Protective Response)
- 2.2 Unusual Event (EP-102)
- 2.3 Alert (EP-103)
- 2.4 Site Area Emergency (EP-104)
- 2.5 General Emergency (EP-105)
- *2.6 Security Force: Response to an Incident When the Radiological Emergency Response Preparedness Plan is Activated (EP-205-1)
- 2.7 Assembly, Accountability and Evacuation (EP-530)

3.0 ENTRY CONDITIONS

The Nuclear Security Force shall follow the instructions when informed by proper authority that an assembly, accountability or evacuation has been ordered by the Emergency Director.

4.0 GENERAL INFORMATION

- 4.1 A Plant Area Evacuation is defined as the supervised evacuation of a specific area of the plant by all nonessential personnel to another designated safe area.
- 4.2 A Protected Area Evacuation is defined as the supervised evacuation for all nonessential personnel from the Protected Area through Warehouse "B" or the Security Building.
- 4.3 A Site Area Evacuation is defined as the supervised evacuation of all nonessential personnel from all Owner Controlled Areas of the site, including but not limited to the Protected Area, the Visitors' Center, Fermi I, the Nuclear Operations Center, and the General Training and Orientation Center to the Newport Warehouse, Monroe Power Plant, or Trenton Channel Power Plant.

*Denotes "Use" Reference

- 4.4 A Personnel Accountability Representative is a Member of the Security Force (MSF) who has been assigned the responsibility of preparing a Personnel Accountability Report for a work area, work group, or an assembly area. The Personnel Accountability Representative is in charge of assembly areas for personnel accountability purposes.
- 4.5 A Personnel Accountability Report is a report of identification badge numbers of persons present in (or under the positive control of) a work area, work group or an assembly area (See Attachment 1).
- 4.6 The Nuclear Security Shift Lieutenant (or Response Force Leader if the Lieutenant is incapacitated) is responsible for personnel accountability during an evacuation.
- 4.7 All personnel must be accounted for within thirty (30) minutes of the start of a Protected Area Evacuation.

5.0 IMMEDIATE ACTIONS

- 5.1 Assembly and accountability will precede, whenever possible, the order to evacuate. It is desirable, in an emergency situation, to establish accountability of site personnel early, to facilitate location of any missing individuals, and to evacuate non-essential personnel.
- 5.2 For the purpose of assembly, accountability and evacuation, all personnel on-site are assigned to classes, as follows:
- 5.2.1 Class 1 personnel
- o Operations personnel on-shift
 - o All Health Physics, Chemistry and Medical personnel on-site.
 - o All personnel assigned to an emergency team or emergency facility as defined by Section B of the RERP Plan.
- 5.2.2 Class 2
- o Instrument and Control (I&C) Technicians.
 - o General Maintenance Journeymen (GMJ).
- 5.2.3 Class 3
- o All other personnel on-site at the time an emergency is declared or an accountability is initiated; this category include contractors and visitors.

5.3 The following steps will be taken in the event of a Plant Area Evacuation:

5.3.1 The Secondary Alarm Station (SAS) Operator shall:

1. Determine the affected area(s) and evacuation assembly area(s) from the Emergency Director if they are not included in the notification.
2. Initiate actions which cause a computer printout of personnel currently logged into the affected security zone(s).
3. Dispatch a Personnel Accountability Representative to:
 - a. The designated assembly areas.
 - b. The Operational Support Center (OSC) if activated).

NOTE: If the Security Coordinator is already present, the Coordinator may prepare the Personnel Accountability Report if the workload permits.

- c. The alternate Operational Support Center (if activated).
 - d. The TSC Security Advisor shall prepare the Personnel Accountability Report for the TSC and Control Room if the TSC is activated.
4. Notify the Nuclear Security Shift Lieutenant that an evacuation is in progress.
5. In the event that neither the Nuclear Security Shift Lieutenant nor Response Force Leader is at the SAS, ensure that other MSF are prepared to receive or request Personnel Accountability Reports from Personnel Accountability Representative.
6. Within ten minutes after the plant evacuation is initiated, actuate a CRT display of personnel remaining in the affected security zones. The badge numbers of personnel remaining in the affected zones will be provided to the Personnel Accountability Representative co-located with the Emergency Director.

NOTE: A printout will be more efficient if twenty or more persons are listed as remaining in the affected zone(s). Hard copies of lists may be transported between work stations, assembly areas, and the security building provided the presence of airborne contamination has not been announced.

7. If all nonessential personnel have not evacuated the affected zones within fifteen minutes of the start of the evacuation, notify the Nuclear Security Shift Lieutenant (or Response Force Leader if Lieutenant is at TSC).

5.2.3 The Nuclear Security Shift Lieutenant (or Response Force Leader, if the Lieutenant is at the TSC) shall:

1. Proceed to the SAS upon receiving notification that an evacuation is imminent or underway.
2. Verify that the SAS operator has initiated the personnel accountability activities.
3. Insure that the MSF in the SAS are ready to accept or request Personnel Accountability Reports.
4. Supervise the comparison of computer listings of persons within the affected security zone(s) and the Personnel Accountability Report.
5. Compile a list of persons unaccounted for from the comparison of the computer printout, Personnel Accountability Report, CRT readout, and listing of persons authorized to remain within the affected area(s) or zone(s). Verify their presence onsite by determining that their badge is not in the badge rack and determine their last known location from the computer.
6. Report persons unaccounted for and their last location to the Emergency Director.
7. Nuclear Security Personnel accountability actions during a Plant Area Evacuation are considered complete when all the following conditions exist:
 - a. Personnel Accountability Reports have been received from the designated assembly area(s) the affected area (if applicable), and the OSC (if activated);

and

- b. The Personnel Accountability Reports have been compared with the computer listing of personnel in the affected zone(s) at the time the evacuation was initiated, and the CRT readout after the evacuation;
- c. Accountability is established for all personnel, or persons unaccounted for have been reported to the Emergency Director.

5.3.3 The Personnel Accountability Representative dispatched to the OSC shall:

1. Report to the OSC as rapidly as possible.
2. Determine whether anyone present in the OSC evacuated the affected zone(s) and report the badge number of anyone verified to be an evacuee.
3. Call the Personnel Accountability Report into the SAS. Hand deliver the report to SAS if it is more efficient and contamination is not present.
4. Determine from the OSC Coordinator or assistant who, if anyone, is authorized to remain in the affected area. Compare the list with the list of personnel still logged into the affected area by the computer.
5. Reconcile the two lists and resolve discrepancies with the assistance of the Assistant OSC Coordinator. Report unresolved discrepancies to the OSC Security Coordinator and the SAS.

5.3.4 The Personnel Accountability Representative dispatched to the assembly area and the alternate OSC (if activated) area shall:

1. Report to the designated assembly area as rapidly as possible.
2. Organize the assembly area for preparation of the Personnel Accountability Report.
 - a. Designate a portion of the assembly area(s) for personnel evacuated from the affected zone(s) to congregate.
 - b. Appoint personnel to assist in preparation of the Personnel Accountability Reports. Utilize supervisors and workleaders whenever possible.

- c. Report the badge numbers of the affected zone(s) evacuees to the SAS.
3. Deliver the other completed Personnel Accountability Report(s) to the SAS as soon as possible. This will be accomplished by telephone if airborne contamination is present or the telephone is more efficient.
4. Return to the designated assembly area to assist in personnel control, provide an alternate means of communications and continue providing personnel accountability liaison.
5. Instruct the appointed personnel ensure the evacuees depart by accompanying them to their respective access portal. Eventually, all persons badged as Class Three and some persons badged as Class Two may be instructed to depart the protected area.

5.3.5 The MSF assigned to the SAS shall:

1. Prepare a work area for receiving Personnel Accountability Reports and reconciling them with the listing of personnel inside the affected area at the start of the evacuation.
2. Reconcile personnel accountability reports with the listing of personnel in the affected zone(s) until all personnel are accounted for or declared missing.
3. Request Personnel Accountability Reports from work stations and designated assembly areas that do not make a report during the initial fifteen minutes of the evacuation from the affected zones.
4. Verify the badges of persons unaccounted for have, in fact, been issued and are not in the badge rack.

5.3.6 The following instructions apply when CLASS THREE personnel depart the protected area and when selected CLASS TWO personnel are to depart the protected area:

1. The Nuclear Security Shift Lieutenant or Response Force Leader will determine whether normal or rapid egress from the protected area is appropriate by contacting the Emergency Director through the Personnel Accountability Representative located with the Emergency Director.

2. In the event of rapid egress, those personnel who entered the protected area through the Alternate Access Portal will depart the protected area through one of the railroad gates near Warehouse B and personnel who entered the protected area through the Primary Access Portal will depart the protected area through the vehicle gate located east of the Security Building.
 3. The Nuclear Security Shift Lieutenant or Response Force Leader will post MSF at the gates prior to them being opened. The MSF shall:
 - a. Collect keycard badges from each person prior to allowing them to exit.
 - b. Visually inspect persons exiting the protected area for obvious pilferage.
 4. The Nuclear Shift Lieutenant or Response Force Leader shall assign MSF to bring surrendered keycard badges from the gates to the appropriate access portal to be run through the egress cardreaders. MSF will run the cards through the cardreaders as rapidly as possible to log the existing personnel out of the protected area.
 5. The SAS Operator will obtain a computer listing of personnel remaining within the protected area after the Class Two and Three personnel have departed. The listing will be delivered or telephoned to the Personnel Accountability Representative located with the Emergency Director.
- 5.4 The personnel inside the protected area at the time of a protected area evacuation is initiated must be accounted for within thirty minutes.
- 5.4.1 An evacuation of the protected area could be initiated with little or no warning. If that is the case, the personnel inside the protected area will be accounted for as follows:
1. The SAS Operator shall:
 - a. Initiate actions which cause a computer printout of personnel currently logged into the Protected Area.
 - b. Change the anti-passback check option to "Inactive."

- c. If necessary, determine the evacuation assembly areas from the Emergency Director.
- d. Insure that other MSF in the SAS have initiated the alternate method of personnel accountability.
- e. If the assembly areas were not designated during the announcement, determine from the Emergency Director where the evacuees will assemble.
- f. Dispatch a Personnel Accountability Representative to:
 - 1) The designated assembly areas.
 - 2) The OSC (if activated).
- g. Notify the Nuclear Security Shift Lieutenant (or Response Force Leader if the Nuclear Security Shift Lieutenant is acting as the TSC Security Advisor) that an evacuation is in progress.
- h. In the event the Nuclear Security Shift Lieutenant or Response Force Leader is not at the SAS, insure other MSF are prepared to receive or request Personnel Accountability Reports from MSF performing as Personnel Accountability Representatives.
- i. At approximately evacuation plus fifteen minutes, initiate actions which result in CRT display of personnel remaining inside the plant areas. The badge numbers of the personnel will be provided to the Emergency Director via the Personnel Accountability Representative.

NOTE: A printout will be more time efficient if twenty or more persons are found to be remaining in the plant areas. Hard copies of lists may be transported between work stations, assembly areas, and the security building provided the presence of airborne contamination has not been announced.

2. The Nuclear Security Shift Lieutenant (or the Response Force Leader if the Nuclear Security Shift Lieutenant is acting as the TSC Security Advisor) shall:
 - a. Proceed to the SAS upon receiving notification that an evacuation is imminent or underway.
 - b. Verify that the SAS operator has initiated the primary alternate personnel accountability reports.
 - c. Insure the MSF within the SAS are adequate in number and prepared to accept or request Personnel Accountability Reports.
 - d. Supervise the reconciliation of computer listing of persons within the Protected Area and the Personnel Accountability Reports originated within the protected area.
 - e. Compile a list of persons unaccounted for, determine their last known location from the computer, and report both to the Emergency Director.
 - f. Have a MSF attempt to verify persons unaccounted for present onsite by determining their badge is not in the badge rack.
 - g. Security Accountability Actions are completed when:
 - 1) Personnel Accountability reports have been received from the:
 - (a) CAS
 - (b) Control Room
 - (c) OSC (If activated)
 - (d) TSC
 - (e) Other designated assembly areas(s) inside the protected area (if any)
 - (f) The affected area (if applicable)

and

- 2) The Personnel Accountability Reports have been reconciled with the computer list of personnel inside the protected area.

and

- 3) The reconciliation results in no persons unaccounted for.

or

- 4) Persons unaccounted for have been reported to the Emergency Director.

3. In the event a MSF is dispatched to the OSC to perform Personnel Accountability, the MSF shall accomplish the actions previously described.
4. The TSC Security Advisor shall act as the Personnel Accountability Representative at the TSC and shall:
 - a. Report to the TSC as rapidly as possible.
 - b. Complete a Personnel Accountability Report for the persons present in the TSC and report it to the MSF in the SAS assigned to accept them.
 - c. Approximately ten minutes after the start of the assembly or evacuation, ascertain from the Emergency Director or designated assistant who, if anyone, is authorized to remain in the affected area. Compare the list with the CRT listing of personnel still logged into the affected area by the computer. Reconcile discrepancies with the Emergency Director or designated assistant. Report the results of the reconciliation to the SAS Operator.
 - d. Keep the Emergency Director informed concerning Personnel Accountability Status.
5. The CAS Operator shall account for MSF on duty and report the badge number of those accounted and unaccounted for (if any). This report should be made to the MSF accepting Personnel Accountability Reports to free the SAS Operator for other personnel accountability functions.

6. The MSF at the SAS performing personnel accountability functions shall:

NOTE: This is the backup listing to the computer system listing. This will be used when the computer system is unavailable.

- a. Prepare a work area for receiving Personnel Accountability Reports and reconciling them with listing of personnel on-site at the start of the evacuation.
- b. Reconcile Personnel Accountability Reports with the listing of personnel onsite until all personnel onsite are accounted for or declared missing.
- c. Request Personnel Accountability Reports with the stations and designated assembly areas that do not make a report during the initial fifteen minutes of the evacuation.
- d. Verify badges of persons unaccounted for have, in fact, been issued and are not in the badge rack.

7. The persons assigned to be Personnel Accountability Representatives shall:

- a. Report to the designated assembly area.
- b. Appoint sufficient assistants from the evacuees to assist in assembly area organization and compilation of the Personnel Accountability Report. Use supervisors or work group leaders whenever possible.
- c. Ensure the completed Personnel Accountability Report is delivered to the SAS by the MSF performing Personnel Accountability Liaison if the MSF is unable to deliver the report, dispatch someone from your work group to deliver the report to the SAS which is located in the Service Building.

NOTE: If airborne radiation has been announced as being present, the report will have to be sent to the SAS via telephone.

5.4.2

If nonessential personnel have been released prior to the announcement of protected area evacuation, the personnel accountability shall be accomplished as follows:

1. The SAS Operator shall cause a computer listing of personnel remaining inside the protected area to be printed.
2. The MSF assigned to SAS will compile Personnel Accountability Reports from:
 - a. CAS
 - b. Control Room
 - c. OSC
 - d. Alternate OSC
 - e. TSC
 - f. Other work stations or assembly areas authorized by the Emergency Director.
3. Comparing the badge numbers received from the work station Personnel Accountability Reports with the ones on the computer listing.
4. Providing the Emergency Director with the results of the comparison.
5. Reporting missing persons to the Emergency Director.

5.5 The following steps will be accomplished in the event an assembly is directed.

5.5.1 The Secondary Alarm Station Operator shall:

1. Alert the Security Force that an assembly has been ordered.
2. Notify the following by telephone and announce: "An assembly has been ordered. All personnel report to your assigned assembly area." If there is no answer at the following, dispatch a patrol to the building to verify it is empty.
 - a. Fermi I
 - b. Visitors' Center

c. GTOC

d. NOC

3. Initiate personnel accountability activities described in paragraph 5.4.1 above.

5.5.2 The Nuclear Security Shift Lieutenant or Response Force Leader shall:

1. Dispatch a vehicle with public address capabilities to alert the personnel in buildings and trailers adjacent to the protected area and a second vehicle to announce throughout the Owner-Controlled Area with "An assembly has been ordered. All personnel report to your assigned assembly area".
2. Dispatch a Personnel Accountability Representative to:
 - a. GTOC
 - b. Warehouse 30
 - c. NOC
 - d. Visitors' Center
3. Initiate the personnel accountability actions described in paragraph 5.4.1 above.

5.5.3 The Personnel Accountability Representative dispatched to the NOC shall:

1. Assemble all personnel in the NOC cafeteria and inform them of the emergency classification. Include directions that all persons should remain within the NOC unless otherwise instructed.
2. Direct each supervisor to compile a list of available technical personnel and their speciality areas; assistance from these personnel may be requested by the Emergency Director.
3. Instruct all personnel in the NOC to have transportation immediately available should a Site Area Evacuation be implemented.
4. Await further instructions from the Security Coordinator at the TSC or EOF (if activated).

NOTE: Any Class 1 personnel who may be in the NOC at the time the emergency is declared should report to the NOC cafeteria for accountability and then proceed to their assigned emergency facility. Access to the protected area will be secured until accountability is complete. Class 2 personnel should remain in the NOC cafeteria until their need has been determined.

5.5.4 The Personnel Accountability Representatives dispatched to the GTOC, Visitors' Center, and Warehouse 30 shall:

1. Assemble all personnel and direct each supervisor to compile a list of personnel available and their technical or craft speciality.
2. Inform assembled personnel of the emergency classification. Direct all personnel to remain within the building unless otherwise instructed.
3. Await further instructions from the Emergency Director or his delegate.

5.6 The following steps will be accomplished in the event a Site Evacuation is ordered.

5.6.1 The SAS Operator shall continue with appropriate personnel accountability activities.

5.6.2 The Security Shift Lieutenant shall:

1. Continue with personnel accountability activities as appropriate.
2. Direct Security Officers to assist with the expeditious evacuation of non-essential personnel using routes and any protective measure specified by the Emergency Director.
3. Assign Security Officers, using precautions and protective measures specified by the Emergency Director, to make a survey of the evacuated area to insure that all non-essential personnel have been evacuated.
4. Report to the Emergency Director when all non-essential personnel have been evacuated and the area has been verified to be clear of non-essential personnel.

6.0 FOLLOW-UP ACTIONS

- 6.1 The SAS Operator shall, as time permits, determine the actual location of all personnel authorized to remain in the affected areas.
- 6.2 The Nuclear Security Shift Lieutenant (or the Response Force Leader if the TSC is activated and the Nuclear Security Shift Lieutenant is acting as the TSC Security Advisor) shall:
 - 6.2.1 Determine if offsite assistance will be required from the Emergency Director.
 - 6.2.2 If offsite assistance is required, direct that EP-205-1 (Security Force: Response to an Incident When the Radiological Emergency Response Preparedness Plan is Activated) be implemented.
 - 6.2.3 Determine from the Emergency Director, through the TSC Security Advisor, if TSC is activated when the evacuation will be terminated.
 - 6.2.4 Establish and maintain frequent patrols of the owner controlled area throughout the emergency.
- 6.3 When directed by the Nuclear Security Shift Lieutenant, MSF shall return to normal Security Operations.

PERSONNEL ACCOUNTABILITY REPORT

Location of Assembly or Work Area _____

Personnel Accountability Representative _____

Directions: Determine the badge numbers of the personnel within the assembly or work area and make a or in the square next to each persons badge number. Dispatch this report to the Secondary Alarm Station as soon as it is completed.

0001	0051	0101	0151	0201	0251	0301	0351	0401	0451
0002	0052	0102	0152	0202	0252	0302	0352	0402	0452
0003	0053	0103	0153	0203	0253	0303	0353	0403	0453
0004	0054	0104	0154	0204	0254	0304	0354	0404	0454
0005	0055	0105	0155	0205	0255	0305	0355	0405	0455
0006	0056	0106	0156	0206	0256	0306	0356	0406	0456
0007	0057	0107	0157	0207	0257	0307	0357	0407	0457
0008	0058	0108	0158	0208	0258	0308	0358	0408	0458
0009	0059	0109	0159	0209	0259	0309	0359	0409	0459
0010	0060	0110	0160	0210	0260	0310	0360	0410	0460
0011	0061	0111	0161	0211	0261	0311	0361	0411	0461
0012	0062	0112	0162	0212	0262	0312	0362	0412	0462
0013	0063	0113	0163	0213	0263	0313	0363	0413	0463
0014	0064	0114	0164	0214	0264	0314	0364	0414	0464
0015	0065	0115	0165	0215	0265	0315	0365	0415	0465
0016	0066	0116	0166	0216	0266	0316	0366	0416	0466
0017	0067	0117	0167	0217	0267	0317	0367	0417	0467
0018	0068	0118	0168	0218	0268	0318	0368	0418	0468
0019	0069	0119	0169	0219	0269	0319	0369	0419	0469
0020	0070	0120	0170	0220	0270	0320	0370	0420	0470
0021	0071	0121	0171	0221	0271	0321	0371	0421	0471
0022	0072	0122	0172	0222	0272	0322	0372	0422	0472
0023	0073	0123	0173	0223	0273	0323	0373	0423	0473
0024	0074	0124	0174	0224	0274	0324	0374	0424	0474
0025	0075	0125	0175	0225	0275	0325	0375	0425	0475
0026	0076	0126	0176	0226	0276	0326	0376	0426	0476
0027	0077	0127	0177	0227	0277	0327	0377	0427	0477
0028	0078	0128	0178	0228	0278	0328	0378	0428	0478
0029	0079	0129	0179	0229	0279	0329	0379	0429	0479
0030	0080	0130	0180	0230	0280	0330	0380	0430	0480
0031	0081	0131	0181	0231	0281	0331	0381	0431	0481
0032	0082	0132	0182	0232	0282	0332	0382	0432	0482
0033	0083	0133	0183	0233	0283	0333	0383	0433	0483
0034	0084	0134	0184	0234	0284	0334	0384	0434	0484
0035	0085	0135	0185	0235	0285	0335	0385	0435	0485
0036	0086	0136	0186	0236	0286	0336	0386	0436	0486
0037	0087	0137	0187	0237	0287	0337	0387	0437	0487
0038	0088	0138	0188	0238	0288	0338	0388	0438	0488
0039	0089	0139	0189	0239	0289	0339	0389	0439	0489
0040	0090	0140	0190	0240	0290	0340	0390	0440	0490
0041	0091	0141	0191	0241	0291	0341	0391	0441	0491
0042	0092	0142	0192	0242	0292	0342	0392	0442	0492
0043	0093	0143	0193	0243	0293	0343	0393	0443	0493
0044	0094	0144	0194	0244	0294	0344	0394	0444	0494
0045	0095	0145	0195	0245	0295	0345	0395	0445	0495
0046	0096	0146	0196	0246	0296	0346	0396	0446	0496
0047	0097	0147	0197	0247	0297	0347	0397	0447	0497
0048	0098	0148	0198	0248	0298	0348	0398	0448	0498
0049	0099	0149	0199	0249	0299	0349	0399	0449	0499
0050	0100	0150	0200	0250	0300	0350	0400	0450	0500

Location of Assembly or Work Area _____

Personnel Accountability Representative _____

Directions: Determine the badge numbers of the personnel within the assembly or work area and make a or in the square next to each persons badge number. Dispatch this report to the Secondary Alarm Station as soon as it is completed.

0501	0551	0601	0651	0701	0751	0801	0851	0901	0951
0502	0552	0602	0652	0702	0752	0802	0852	0902	0952
0503	0553	0603	0653	0703	0753	0803	0853	0903	0953
0504	0554	0604	0654	0704	0754	0804	0854	0904	0954
0505	0555	0605	0655	0705	0755	0805	0855	0905	0955
0506	0556	0606	0656	0706	0756	0806	0856	0906	0956
0507	0557	0607	0657	0707	0757	0807	0857	0907	0957
0508	0558	0608	0658	0708	0758	0808	0858	0908	0958
0509	0559	0609	0659	0709	0759	0809	0859	0909	0959
0510	0560	0610	0660	0710	0760	0810	0860	0910	0960
0511	0561	0611	0661	0711	0761	0811	0861	0911	0961
0512	0562	0612	0662	0712	0762	0812	0862	0912	0962
0513	0563	0613	0663	0713	0763	0813	0863	0913	0963
0514	0564	0614	0664	0714	0764	0814	0864	0914	0964
0515	0565	0615	0665	0715	0765	0815	0865	0915	0965
0516	0566	0616	0666	0716	0766	0816	0866	0916	0966
0517	0567	0617	0667	0717	0767	0817	0867	0917	0967
0518	0568	0618	0668	0718	0768	0818	0868	0918	0968
0519	0569	0619	0669	0719	0769	0819	0869	0919	0969
0520	0570	0620	0670	0720	0770	0820	0870	0920	0970
0521	0571	0621	0671	0721	0771	0821	0871	0921	0971
0522	0572	0622	0672	0722	0772	0822	0872	0922	0972
0523	0573	0623	0673	0723	0773	0823	0873	0923	0973
0524	0574	0624	0674	0724	0774	0824	0874	0924	0974
0525	0575	0625	0675	0725	0775	0825	0875	0925	0975
0526	0576	0626	0676	0726	0776	0826	0876	0926	0976
0527	0577	0627	0677	0727	0777	0827	0877	0927	0977
0528	0578	0628	0678	0728	0778	0828	0878	0928	0978
0529	0579	0629	0679	0729	0779	0829	0879	0929	0979
0530	0580	0630	0680	0730	0780	0830	0880	0930	0980
0531	0581	0631	0681	0731	0781	0831	0881	0931	0981
0532	0582	0632	0682	0732	0782	0832	0882	0932	0982
0533	0583	0633	0683	0733	0783	0833	0883	0933	0983
0534	0584	0634	0684	0734	0784	0834	0884	0934	0984
0535	0585	0635	0685	0735	0785	0835	0885	0935	0985
0536	0586	0636	0686	0736	0786	0836	0886	0936	0986
0537	0587	0637	0687	0737	0787	0837	0887	0937	0987
0538	0588	0638	0688	0738	0788	0838	0888	0938	0988
0539	0589	0639	0689	0739	0789	0839	0889	0939	0989
0540	0590	0640	0690	0740	0790	0840	0890	0940	0990
0541	0591	0641	0691	0741	0791	0841	0891	0941	0991
0542	0592	0642	0692	0742	0792	0842	0892	0942	0992
0543	0593	0643	0693	0743	0793	0843	0893	0943	0993
0544	0594	0644	0694	0744	0794	0844	0894	0944	0994
0545	0595	0645	0695	0745	0795	0845	0895	0945	0995
0546	0596	0646	0696	0746	0796	0846	0896	0946	0996
0547	0597	0647	0697	0747	0797	0847	0897	0947	0997
0548	0598	0648	0698	0748	0798	0848	0898	0948	0998
0549	0599	0649	0699	0749	0799	0849	0899	0949	0999
0550	0600	0650	0700	0750	0800	0850	0900	0950	1000

Location of Assembly or Work Area _____

Personnel Accountability Representative _____

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1001	1051	1101	1151	1201	1251	1301	1351	1401	1451
1002	1052	1102	1152	1202	1252	1302	1352	1402	1452
1003	1053	1103	1153	1203	1253	1303	1353	1403	1453
1004	1054	1104	1154	1204	1254	1304	1354	1404	1454
1005	1055	1105	1155	1205	1255	1305	1355	1405	1455
1006	1056	1106	1156	1206	1256	1306	1356	1406	1456
1007	1057	1107	1157	1207	1257	1307	1357	1407	1457
1008	1058	1108	1158	1208	1258	1308	1358	1408	1458
1009	1059	1109	1159	1209	1259	1309	1359	1409	1459
1010	1060	1110	1160	1210	1260	1310	1360	1410	1460
1011	1061	1111	1161	1211	1261	1311	1361	1411	1461
1012	1062	1112	1162	1212	1262	1312	1362	1412	1462
1013	1063	1113	1163	1213	1263	1313	1363	1413	1463
1014	1064	1114	1164	1214	1264	1314	1364	1414	1464
1015	1065	1115	1165	1215	1265	1315	1365	1415	1465
1016	1066	1116	1166	1216	1266	1316	1366	1416	1466
1017	1067	1117	1167	1217	1267	1317	1367	1417	1467
1018	1068	1118	1168	1218	1268	1318	1368	1418	1468
1019	1069	1119	1169	1219	1269	1319	1369	1419	1469
1020	1070	1120	1170	1220	1270	1320	1370	1420	1470
1021	1071	1121	1171	1221	1271	1321	1371	1421	1471
1022	1072	1122	1172	1222	1272	1322	1372	1422	1472
1023	1073	1123	1173	1223	1273	1323	1373	1423	1473
1024	1074	1124	1174	1224	1274	1324	1374	1424	1474
1025	1075	1125	1175	1225	1275	1325	1375	1425	1475
1026	1076	1126	1176	1226	1276	1326	1376	1426	1476
1027	1077	1127	1177	1227	1277	1327	1377	1437	1477
1028	1078	1128	1178	1228	1278	1328	1378	1428	1478
1029	1079	1129	1179	1229	1279	1329	1379	1429	1479
1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
1031	1081	1131	1181	1231	1281	1331	1381	1431	1481
1032	1082	1132	1182	1232	1282	1332	1382	1432	1482
1033	1083	1133	1183	1233	1283	1333	1383	1433	1483
1034	1084	1134	1184	1234	1284	1334	1384	1434	1484
1035	1085	1135	1185	1235	1285	1335	1385	1435	1485
1036	1086	1136	1186	1236	1286	1336	1386	1436	1486
1037	1087	1137	1187	1237	1287	1337	1387	1437	1487
1038	1088	1138	1188	1238	1288	1338	1388	1438	1488
1039	1089	1139	1189	1239	1289	1339	1389	1439	1489
1040	1090	1140	1190	1240	1290	1340	1390	1440	1490
1041	1091	1141	1191	1241	1291	1341	1391	1441	1491
1042	1092	1142	1192	1242	1292	1342	1392	1442	1492
1043	1093	1143	1193	1243	1293	1343	1393	1443	1493
1044	1094	1144	1194	1244	1294	1344	1394	1444	1494
1045	1095	1145	1195	1245	1295	1345	1395	1445	1495
1046	1096	1146	1196	1246	1296	1346	1396	1446	1496
1047	1097	1147	1197	1247	1297	1347	1397	1447	1497
1048	1098	1148	1198	1248	1298	1348	1398	1448	1498
1049	1099	1149	1199	1249	1299	1349	1399	1449	1499
1050	1100	1150	1200	1250	1300	1350	1400	1450	1500

Location of Assembly or Work Area

Personnel Accountability Representative

Directions: Determine the badge numbers of the personnel within the assembly or work area and make a or in the square next to each persons badge number. Dispatch this report to the Secondary Alarm Station as soon as it is completed.

1501	1551	1601	1651	1701	1751	1801	1851	1901	1951
1502	1552	1602	1652	1702	1752	1802	1852	1902	1952
1503	1553	1603	1653	1703	1753	1803	1853	1903	1953
1504	1554	1604	1654	1704	1754	1804	1854	1904	1954
1505	1555	1605	1655	1705	1755	1805	1855	1905	1955
1506	1556	1606	1656	1706	1756	1806	1856	1906	1956
1507	1557	1607	1657	1707	1757	1807	1857	1907	1957
1508	1558	1608	1658	1708	1758	1808	1858	1908	1958
1509	1559	1609	1659	1709	1759	1809	1859	1909	1959
1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
1511	1561	1611	1661	1711	1761	1811	1861	1911	1961
1512	1562	1612	1662	1712	1762	1812	1862	1912	1962
1513	1563	1613	1663	1713	1763	1813	1863	1913	1963
1514	1564	1614	1664	1714	1764	1814	1864	1914	1964
1515	1565	1615	1665	1715	1765	1815	1865	1915	1965
1516	1566	1616	1666	1716	1766	1816	1866	1916	1966
1517	1567	1617	1667	1717	1767	1817	1867	1917	1967
1518	1568	1618	1668	1718	1768	1818	1868	1918	1968
1519	1569	1619	1669	1719	1769	1819	1869	1919	1969
1520	1570	1620	1670	1720	1770	1820	1870	1920	1970
1521	1571	1621	1671	1721	1771	1821	1871	1921	1971
1522	1572	1622	1672	1722	1772	1822	1872	1922	1972
1523	1573	1623	1673	1723	1773	1823	1873	1923	1973
1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
1525	1575	1625	1675	1725	1775	1825	1875	1925	1975
1526	1576	1626	1676	1726	1776	1826	1876	1926	1976
1527	1577	1627	1677	1727	1777	1827	1877	1937	1977
1528	1578	1628	1678	1728	1778	1828	1878	1928	1978
1529	1579	1629	1679	1729	1779	1829	1879	1929	1979
1530	1580	1630	1680	1730	1780	1830	1880	1930	1980
1531	1581	1631	1681	1731	1781	1831	1881	1931	1981
1532	1582	1632	1682	1732	1782	1832	1882	1932	1982
1533	1583	1633	1683	1733	1783	1833	1883	1933	1983
1534	1584	1634	1684	1734	1784	1834	1884	1934	1984
1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
1536	1586	1636	1686	1736	1786	1836	1886	1936	1986
1537	1587	1637	1687	1737	1787	1837	1887	1937	1987
1538	1588	1638	1688	1738	1788	1838	1888	1938	1988
1539	1589	1639	1689	1739	1789	1839	1889	1939	1989
1540	1590	1640	1690	1740	1790	1840	1890	1940	1990
1541	1591	1641	1691	1741	1791	1841	1891	1941	1991
1542	1592	1642	1692	1742	1792	1842	1892	1942	1992
1543	1593	1643	1693	1743	1793	1843	1893	1943	1993
1544	1594	1644	1694	1744	1794	1844	1894	1944	1994
1545	1595	1645	1695	1745	1795	1845	1895	1945	1995
1546	1596	1646	1696	1746	1796	1846	1896	1946	1996
1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
1548	1598	1648	1698	1748	1798	1848	1898	1948	1998
1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
1550	1600	1650	1700	1750	1800	1850	1900	1950	2000

Location of Assembly or Work Area _____

Personnel Accountability Representative _____

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2001	2051	2101	2151	2201	2251	2301	2351	2401	2451
2002	2052	2102	2152	2202	2252	2302	2352	2402	2452
2003	2053	2103	2153	2203	2253	2303	2353	2403	2453
2004	2054	2104	2154	2204	2254	2304	2354	2404	2454
2005	2055	2105	2155	2205	2255	2305	2355	2405	2455
2006	2056	2106	2156	2206	2256	2306	2356	2406	2456
2007	2057	2107	2157	2207	2257	2307	2357	2407	2457
2008	2058	2108	2158	2208	2258	2308	2358	2408	2458
2009	2059	2109	2159	2209	2259	2309	2359	2409	2459
2010	2060	2110	2160	2210	2260	2310	2360	2410	2460
2011	2061	2111	2161	2211	2261	2311	2361	2411	2461
2012	2062	2112	2162	2212	2262	2312	2362	2412	2462
2013	2063	2113	2163	2213	2263	2313	2363	2413	2463
2014	2064	2114	2164	2214	2264	2314	2364	2414	2464
2015	2065	2125	2165	2215	2265	2315	2365	2415	2465
2016	2066	2116	2166	2216	2266	2316	2366	2416	2466
2017	2067	2117	2167	2217	2267	2317	2367	2417	2467
2018	2068	2118	2168	2218	2268	2318	2388	2418	2468
2019	2069	2119	2169	2219	2269	2319	2369	2419	2469
2020	2070	2120	2170	2220	2270	2320	2370	2420	2470
2021	2071	2121	2171	2221	2271	2321	2371	2421	2471
2022	2072	2122	2172	2222	2272	2322	2372	2422	2472
2023	2073	2123	2173	2223	2273	2323	2373	2423	2473
2024	2074	2124	2174	2224	2274	2324	2374	2424	2474
2025	2075	2125	2175	2225	2275	2325	2375	2425	2475
2026	2076	2126	2176	2226	2276	2326	2376	2426	2476
2027	2077	2127	2177	2227	2277	2327	2377	2437	2477
2028	2078	2128	2178	2228	2278	2328	2378	2428	2478
2029	2079	2129	2179	2229	2279	2329	2379	2429	2479
2030	2080	2130	2180	2230	2280	2330	2380	2430	2480
2031	2081	2131	2181	2231	2281	2331	2381	2431	2481
2032	2082	2132	2182	2232	2282	2332	2382	2432	2482
2033	2083	2133	2183	2233	2283	2333	2383	2433	2483
2034	2084	2134	2184	2234	2284	2334	2384	2434	2484
2035	2085	2135	2185	2235	2285	2335	2385	2435	2485
2036	2086	2136	2186	2236	2286	2336	2386	2436	2486
2037	2087	2137	2187	2237	2287	2337	2387	2437	2487
2038	2088	2138	2188	2238	2288	2338	2388	2438	2488
2039	2089	2139	2189	2239	2289	2339	2389	2439	2489
2040	2090	2140	2190	2240	2290	2340	2390	2440	2490
2041	2091	2141	2191	2241	2291	2341	2391	2441	2491
2042	2092	2142	2192	2242	2292	2342	2392	2442	2492
2043	2093	2143	2193	2243	2293	2343	2393	2443	2493
2044	2094	2144	2194	2244	2294	2344	2394	2444	2494
2045	2095	2145	2195	2245	2295	2345	2395	2445	2495
2046	2096	2146	2196	2246	2296	2346	2396	2446	2496
2047	2097	2147	2197	2247	2297	2347	2397	2447	2497
2048	2098	2148	2198	2248	2298	2348	2398	2448	2498
2049	2099	2149	2199	2249	2299	2349	2399	2449	2499
2050	2100	2150	2200	2250	2300	2350	2400	2450	2500

Location of Assembly or Work Area _____

Personnel Accountability Representative _____

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2501	2551	2601	2651	2701	2751	2801	2851	2901	2951
2502	2552	2602	2652	2702	2752	2802	2852	2902	2952
2503	2553	2603	2653	2703	2753	2803	2853	2903	2953
2504	2554	2604	2654	2704	2754	2804	2854	2904	2954
2505	2555	2605	2655	2705	2755	2805	2855	2905	2955
2506	2556	2606	2656	2706	2756	2806	2856	2906	2956
2507	2557	2607	2657	2707	2757	2807	2857	2907	2957
2508	2558	2608	2658	2708	2758	2808	2858	2908	2958
2509	2559	2609	2659	2709	2759	2809	2859	2909	2959
2510	2560	2610	2660	2710	2760	2810	2860	2910	2960
2511	2561	2611	2661	2711	2761	2811	2861	2911	2961
2512	2562	2612	2662	2712	2762	2812	2862	2912	2962
2513	2563	2613	2663	2713	2763	2813	2863	2913	2963
2514	2564	2614	2664	2714	2764	2814	2864	2914	2964
2515	2565	2625	2665	2715	2765	2815	2865	2915	2965
2516	2566	2616	2666	2716	2766	2816	2866	2916	2966
2517	2567	2617	2667	2717	2767	2817	2867	2917	2967
2518	2568	2618	2668	2718	2768	2818	2888	2918	2968
2519	2569	2619	2669	2719	2769	2819	2869	2919	2969
2520	2570	2620	2670	2720	2770	2820	2870	2920	2970
2521	2571	2621	2671	2721	2771	2821	2871	2921	2971
2522	2572	2622	2672	2722	2772	2822	2872	2922	2972
2523	2573	2623	2673	2723	2773	2823	2873	2923	2973
2524	2574	2624	2674	2724	2774	2824	2874	2924	2974
2525	2575	2625	2675	2725	2775	2825	2875	2925	2975
2526	2576	2626	2676	2726	2776	2826	2876	2926	2976
2527	2577	2627	2677	2727	2777	2827	2877	2937	2977
2528	2578	2628	2678	2728	2778	2828	2878	2928	2978
2529	2579	2629	2679	2729	2779	2829	2879	2929	2979
2530	2580	2630	2680	2730	2780	2830	2880	2930	2980
2531	2581	2631	2681	2731	2781	2831	2881	2931	2981
2532	2582	2632	2682	2732	2782	2832	2882	2932	2982
2533	2583	2633	2683	2733	2783	2833	2883	2933	2983
2534	2584	2634	2684	2734	2784	2834	2884	2934	2984
2535	2585	2635	2685	2735	2785	2835	2885	2935	2985
2536	2586	2636	2686	2736	2786	2836	2886	2936	2986
2537	2587	2637	2687	2737	2787	2837	2887	2937	2987
2538	2588	2638	2688	2738	2788	2838	2888	2938	2988
2539	2589	2639	2689	2739	2789	2839	2889	2939	2989
2540	2590	2640	2690	2740	2790	2840	2890	2940	2990
2541	2591	2641	2691	2741	2791	2841	2891	2941	2991
2542	2592	2642	2692	2742	2792	2842	2892	2942	2992
2543	2593	2643	2693	2743	2793	2843	2893	2943	2993
2544	2594	2644	2694	2744	2794	2844	2894	2944	2994
2545	2595	2645	2695	2745	2795	2845	2895	2945	2995
2546	2596	2646	2696	2746	2796	2846	2896	2946	2996
2547	2597	2647	2697	2747	2797	2847	2897	2947	2997
2548	2598	2648	2698	2748	2798	2848	2898	2948	2998
2549	2599	2649	2699	2749	2799	2849	2899	2949	2999
2550	2600	2650	2700	2750	2800	2850	2900	2950	3000

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: OFF-SITE RADIOLOGICAL EMERGENCY TEAM: ACTIVATION

RECORD OF APPROVAL AND CHANGES

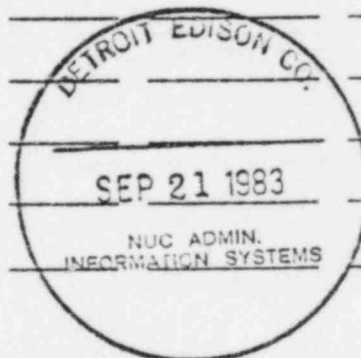
Prepared by T. Randazzo 6/6/83
Date
Approved by *[Signature]* T.R. 9-6-83
Responsible Section Head Date
Recommended by *E.H. Newton* 9-6-83
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by *R.L. Lenz* 9/6/83
OSRO Chairman/Alternate Date
Approved by *R.L. Lenz* 9/6/83
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
2					*			
3					*			
4					*			
5					*			
6					*			
7					*			
8					*			



CONTROLLED

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: OFF-SITE RADIOLOGICAL EMERGENCY TEAM: ACTIVATION

Prepared by	<u>Y. Randazzo</u>	<u>6/6/83</u>
		Date
Recommended by	<u>Walter A. Zambelli / DSM</u>	<u>7-29-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	<u>7-29-83</u>
	Community & Government Affairs	Date
Recommended by	<u>Larry E. Schuman</u>	<u>8/2/83</u>
	Licensing	Date
Recommended by	<u>Michael A. Demer</u>	<u>7/26/83</u>
	Medical Staff	Date
Recommended by	<u>James J. O'Brien</u>	<u>7/29/83</u>
	Nuclear Administration	Date
Recommended by	<u>G.R. Overbeck / E. Fenton</u>	<u>7/29/83</u>
	Nuclear Production	Date
Recommended by	<u>Edmund A. Moore</u>	<u>7/29/83</u>
	Nuclear Training	Date
Recommended by	<u>Bert Hefner</u>	<u>7-29-83</u>
	Public Information	Date
Recommended by	<u>M. J. Goffa / J. J. Goffa</u>	<u>7-29-83</u>
	Security	Date
Recommended by	<u>M. L. Krumholz / J. J. Goffa</u>	<u>7-29-83</u>
	Wayne-Monroe Division	Date
Approved by	<u>T. Randazzo by J. J. Goffa</u>	<u>8/1/83</u>
	RERP Committee Chairperson	Date

Revision No. RERP Committee Chairperson Approved Date

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Enclosure

Example of List of Emergency
Equipment and Documents Enclosure 1

1.0 Purpose

To prescribe the procedure for activation of the Off-Site Radiological Emergency Team (Off-Site RET).

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section H (Emergency Facilities), and Section I (Accident Assessment)
- 2.2 Off-Site Radiological Emergency Team: Functions (EP-210-2)
- 2.3 Health Physics Records (61.000.50)
- 2.4 Health Physics Emergency Kits (69.000.25)
- 2.5 Off-Site Radiological Emergency Team Instruction Guide

3.0 Entry Conditions

The Off-Site RET shall be activated as directed by the Emergency Operations Facility (EOF) Coordinator in the event of:

- 3.1 Site Area Emergency.
- 3.2 General Emergency.

4.0 General Information

- 4.1 Two (2) Wayne-Monroe Division dispatchers will be the Off-Site RET Coordinators and will be located in the EOF. They will dispatch the field survey teams to sample points designated by the Radiation Protection Coordinator and record sample results as the teams report back. This data will be given to the Radiation Protection Coordinator for analysis.
- 4.2 In the Newport Service Center, additional personnel have been assigned as follows:
 - 4.2.1 Off-Site RET Supervisor - a Wayne-Monroe Division supervisor will oversee and coordinate the assembly and formation of the RET field survey teams.
 - 4.2.2 Off-Site RET Equipment Coordinator - assigned to maintain accountability of equipment and assist the RET Supervisor.

- 4.3 For a Site Area Emergency the Off-Site RET shall consist of a minimum of four (4) personnel.
- 4.4 For a General Emergency the Off-Site RET shall consist of a minimum of eight (8) personnel.
- 4.5 Additional personnel from the Wayne-Monroe Division Personnel Pool are available for the assignment of up to twenty (20) 2-member Off-Site Teams.
- 4.6 The Off-Site RET's responsibilities consist of the following:
 - 4.6.1 Obtaining off-site air samples and performing a basic analysis for radionuclide content.
 - 4.6.2 Obtaining off-site water samples.
 - 4.6.3 Conducting off-site radiation surveys.
 - 4.6.4 Obtaining off-site environmental samples (grass, soil, etc.).

5.0 Immediate Actions

- 5.1 When activated the Off-Site RET members shall report to the Newport Service Center or other location designated by the EOF Coordinator.
- 5.2 Upon arrival at the Newport Service Center, the Off-Site RET Supervisor shall:
 - 5.2.1 Contact the Off-Site RET Coordinator and identify the Off-Site RET personnel reporting to Newport Service Center.
 - 5.2.2 Divide available personnel into 2-member teams as they arrive at the Newport Service Center.
 - 5.2.3 Contact the Off-Site RET Coordinator when teams are assembled and ready for initial assignments.
- 5.3 Upon arrival at the Newport Service Center, the Off-Site RET Equipment Coordinator shall:
 - 5.3.1 Distribute off-site radiological kits to each team.
 - 5.3.2 Direct each team to inventory each kit and perform operational checks on all radiological test equipment prior to departing for the field.

- 5.3.3 Replace any inoperative or missing equipment with equipment contained in unused kits. Missing or inoperative equipment shall be noted and reported to Health Physics.

5.4 The Off-Site RET Coordinator shall:

- 5.4.1 Determine the required survey areas and sample media from the Radiation Protection Coordinator.
- 5.4.2 Contact the Off-Site RET Supervisor at the Newport Service Center and give initial assignments to the Off-Site RETs (subsequent assignments will be given via radio).
- 5.4.3 Instruct team members concerning the following:
 - 1. Making periodic reports of air sample and survey results to the Off-Site RET Coordinator.
 - 2. Making immediate reports if radiation levels are in excess of the control value assigned by the Radiation Protection Coordinator.
 - 3. Maintaining records of all surveys.

5.5 Off-Site RET Members shall:

- 5.5.1 Report to the Off-Site RET Supervisor at the Newport Service Center as directed by EOF Coordinator.
- 5.5.2 Obtain an off-site radiological kit from the Off-Site RET Equipment Coordinator.
- 5.5.3 Inventory the kit and perform all required operational checks of the test equipment.
- 5.5.4 Report any missing or inoperative equipment to the Off-Site RET Equipment Coordinator and obtain replacement equipment.
- 5.5.5 At the direction of the Off-Site RET Supervisor proceed to the field and perform surveys and collect samples required by the Off-Site RET Coordinator.
- 5.5.6 Report survey results to the Off-Site RET Coordinator. Any samples taken shall be given to the couriers to be delivered to the Emergency Laboratory for analysis.

- 5.5.7 After the completion of required surveys contact the Off-Site RET Coordinator via radio and obtain new sample and survey instructions.

6.0 Follow-up Actions

- 6.1 If additional support is necessary the Off-Site RET Coordinator shall determine the approximate number of personnel necessary, and with the concurrence of the Radiation Protection Coordinator, obtain additional support personnel from the Wayne-Monroe Division Personnel Pool.
- 6.2 The Off-Site RET Coordinator shall:
- 6.2.1 Maintain communications with all Off-Site RET groups.
 - 6.2.2 Keep the Radiation Protection Coordinator informed of the emergency, especially with regard to the following:
 - 1. Areas with significant radiation levels.
 - 2. Areas with excessive airborne radioactivity levels.
 - 6.2.3 Ensure all samples are delivered to the Emergency Laboratory Sample Coordinator.
 - 6.2.4 During Recovery Program direct off-site sampling and survey programs as directed by the Recovery Manager.
- 6.3 The Off-Site RET Supervisor shall:
- 6.3.1 Supervise any additional personnel who report to the Newport Service Center at the request of the Off-Site RET Coordinator.
 - 6.3.2 Monitor all radio communications with the field teams by means of remote two-way speaker, and respond to the EOF as required.
 - 6.3.3 During the Recovery Program support off-site sampling and surveys as required by the Off-Site RET Coordinator.
- 6.4 The Off-Site RET Equipment Coordinator shall:
- 6.4.1 Have Health Physics survey equipment for contamination and request assistance in decontamination as required.

- 6.4.2 Direct an inventory of all equipment used during the emergency.
1. All equipment shall be checked for proper operability, serviced or repaired as necessary (batteries replaced, filters replaced, etc.) and restowed in the equipment storage room.
 2. Any missing or damaged equipment shall be recovered, or replaced by Health Physics.
- 6.4.3 Maintain records of sign-on and sign-off times, mileage, or other expenses of Off-Site RET personnel at the Newport Service Center.



EXAMPLE OF
LIST OF EMERGENCY EQUIPMENT AND DOCUMENTS

Check that the following equipment is available and functional:

<u>ITEM</u>	<u>QUANTITY</u>
1. Set of Procedures for Obtaining Environmental Samples	1
2. Radeco H809C Battery Powered Air Sampler	1
a. Extra Air Sampler Heads	2
b. Particulate Filters	20
c. Silver Zeolite Cartridges	20
3. Frisker (RM14 or Ludlum 177)	1
4. Dose Rate Meter (RO-2 or Equivalent)	1
5. TLD's (Personnel)	4
6. TLD's (Environmental)	20
7. Personnel Dosimeters (200 - 500 range)	4
8. Dosimeter Charger (with Extra Battery)	1
9. Envelopes and Bags for Samples	App. 100
10. Labels for Samples	App. 200
11. Boxes of Smears	4
12. Micro R-Meter (125 or Equivalent)	1
13. Survey Forms	App. 100
14. Log Book	1
15. Paper Clothing Sets (To include: Hood, Coveralls, Plastic Shoe Covers, Cloth Glove Liners, Plastic Gloves, Surgeons Caps)	6
16. KI Tablets	1 Bot.
17. Assorted Writing Implements	12
18. Rolls of Masking Tape	1
19. Baggies (Zip Lock)	App. 1 Box

EXAMPLE OF
LIST OF EMERGENCY EQUIPMENT AND DOCUMENTS (cont)

Check that the following equipment is available and functional:

<u>ITEM</u>	<u>QUANTITY</u>
20. Timer or Watch	2
21. Plastic Sample Bottles	2
22. Plastic Bags (Clear - 5 Gallon)	12
23. Flashlight	2
a. Extra Batteries	2
24. Check Source	1
25. Change (coins for telephone)	\$1.00
26. EOF Radio Operation	1 copy
27. Map Package	1 set

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: OFF-SITE RADIOLOGICAL EMERGENCY TEAM: FUNCTIONS

RECORD OF APPROVAL AND CHANGES

Prepared by F. Lavelly August 18, 1983
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Nuc. Prod. Approved	Date
1	_____	_____	_____	_____	*	_____	_____	_____
2	_____	_____	_____	_____	*	_____	_____	_____
3	_____	_____	_____	_____	*	_____	_____	_____
4	_____	_____	_____	_____	*	_____	_____	_____
5	_____	_____	_____	_____	*	_____	_____	_____
6	_____	_____	_____	_____	*	_____	_____	_____
7	_____	_____	_____	_____	*	_____	_____	_____
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Typed by: Dolores Fountain (RERP #3)
Revised by: Nancy Young

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: OFF-SITE RADIOLOGICAL EMERGENCY TEAM: FUNCTIONS

Prepared by	P. Lavelly	8/18/83 Date
Recommended by	Donald MacKenzie Communication System Division	9-8-83 Date
Recommended by	James L. Jones Community & Government Affairs	9-29-83 Date
Recommended by	Larry C. Scherman Licensing	9/16/83 Date
Recommended by	Mahmud Syed M.D. Medical Staff	9/8/83 Date
Recommended by	James J. Davis Nuclear Administration	9/8/83 Date
Recommended by	Shegg A. Debusch Nuclear Production	9-8-83 Date
Recommended by	[Signature] Nuclear Training	9-8-83 Date
Recommended by	Burt Hefner Public Information	9-8-83 Date
Recommended by	[Signature] Security	9-8-83 Date
Recommended by	Maurice Wermender Wayne-Monroe Division	9/8/83 Date
Approved by	Thomas Randazzo RERP Committee Chairperson	9/8/83 Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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Enclosures

Off-Site RET Dispatch Form	Enclosure 1
Off-Site RET Radiation Survey Data Forms	Enclosure 2
Off-Site RET Assembly Checklist	Enclosure 3
List of Emergency Equipment and Documents	Enclosure 4

1.0 Purpose

To describe the functions of the Off-Site Radiological Emergency Team (Off-Site RET).

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Plan, Section B (On-Site Emergency Organization), Section H (Emergency Facilities), and Section I (Accident Assessment)
- *2.2 Off-Site Radiological Emergency Team: Activation (EP-210-1)
- 2.3 Health Physics Records, 61.000.50
- 2.4 Radiation Survey Techniques, 63.000.10
- 2.5 Airborne Radioactivity Survey Techniques, 63.000.30
- *2.6 Radiological Emergency Response Preparedness Training Workbook: Off-Site Radiological Emergency Team (RET)

3.0 Entry Conditions

The Off-Site RET has been activated in accordance with Reference 2.2.

4.0 General Information

- 4.1 Upon activation, the activities of the Off-Site RET are directed by the Radiation Protection Coordinator (through the Off-Site RET Coordinators) at the EOF.
- 4.2 The Off-Site RET Coordinators are located at the EOF. They dispatch (by radio) the Off-Site RET field survey teams to sample locations and instruct the teams on sampling to be performed (as directed by the Radiation Protection Coordinator). Additionally, they record sampling data as it is received from the survey teams and report the data to the Radiation Protection Coordinator.
- 4.3 The Off-Site RET Supervisor (located at the Newport Service Center) oversees and coordinates the assembly and formation of the Off-Site RET field survey teams. Specific responsibilities are delineated in EP-210-1 (Off-Site RET: Activation).

- 4.4 The Off-Site Equipment Coordinator (located at the Newport Service Center) issues and maintains accountability of all equipment and assists the RET Supervisor. Specific responsibilities are delineated in EP-210-1 (Off-Site RET: Activation).
- 4.5 The Off-Site RET Field Survey Team members assemble at the Newport Service Center and report to the Off-Site RET Supervisor for formation into two-man teams. Initial dispatch of the teams into the field is through the Off-Site RET Supervisor. (At least one member will be assigned to act as a field survey courier, under the direction of the Off-Site RET Supervisor.) All further instructions to the survey teams in the field are given by the Off-Site RET Coordinators (as directed by the Radiation Protection Coordinator) from the EOF by radio.

The responsibilities of the Off-Site RET include the following:

- 4.5.1 Obtaining off-site air samples (and checking for the presence of radioactive particulates and radioiodines);
- 4.5.2 Conducting off-site radiation surveys;
- 4.5.3 Obtaining off-site water samples;
- 4.5.4 Obtaining off-site environmental samples (soil, vegetation, etc.);
- 4.5.5 Obtaining off-site milk samples;
- 4.5.6 Monitoring for off-site area contamination;
- 4.5.7 Exchanging off-site environmental TLDs; and,
- 4.5.8 Taking other samples and surveys as directed.

5.0 Immediate Actions

- 5.1 The Off-Site RET is activated in accordance with EP-210-1 (Off-Site RET: Activation).
- 5.2 Off-Site RET Coordinators shall do the following (upon arrival at the EOF):
 - 5.2.1 Report to the Radiation Protection Coordinator and receive initial assignments for the field survey teams (if applicable).
 - 5.2.2 Establish contact with the Off-Site RET Supervisor (at the Newport Service Center) and transmit initial field survey team assignments (if applicable), using the Off-Site RET Dispatch Form (Enclosure 1).

- 5.2.3 Establish and maintain radio contact with the field survey teams as they are formed and dispatched into the field.
- 5.2.4 Maintain and coordinate communications between the Radiation Protection Coordinator (at the EOF), the Off-Site RET Supervisor (at the Newport Service Center) and the Off-Site RET field survey teams (in the field).
- 5.2.5 Receive radiological survey data from the field survey teams and relay it to the Radiation Protection Coordinator.

NOTE: Radiological survey data shall be recorded on the Off-Site RET Radiological Survey Data Forms (Enclosure 2) as it is received from the field.

- 5.2.6 Coordinate the transport of environmental samples and TLDs from the field survey teams to the EOF (by courier).
- 5.2.7 Relay requests for additional equipment, supplies or instrumentation to the Radiation Protection Coordinator.

5.3 The Off-Site RET Supervisor shall do the following (upon arrival at the Newport Service Center):

- 5.3.1 Establish contact with the Off-Site RET Coordinator (at the EOF) and receive initial assignments for the field survey teams (if applicable).
- 5.3.2 Supervise the formation of Off-Site RET members into two-man field survey teams as they report in at the Newport Service Center.
- 5.3.3 Assign at least one Off-Site RET member to be a courier (for pick up and transport of samples).
- 5.3.4 Notify the Off-Site RET Coordinator as field survey teams are formed or dispatched into the field and report additional Off-Site RET equipment needs.

5.4 The Off-Site RET Equipment Coordinator shall do the following (upon arrival at the Newport Service Center):

- 5.4.1 Report to the Off-Site RET Supervisor.
- 5.4.2 Distribute Off-Site RET kits to each field survey team as they are formed.

- 5.4.3 Assist each team in inventorying the kits, performing operational checks on radiological instrumentation and filling out the Off-Site Assembly Checklist (Enclosure 3) prior to dispatch into the field.
- 5.4.4 Replace defective or missing equipment in the Off-Site RET kits; report additional equipment needs to the Off-Site RET Supervisor.
- 5.4.5 Assist the Off-Site RET Supervisor.
- 5.5 Off-Site RET Members shall do the following (upon arrival at the Newport Service Center):
 - 5.5.1 Report to the Off-Site RET Supervisor and receive assignment to a field survey team or as a courier.

NOTE: The courier(s) shall assist the Off-Site RET Equipment Coordinator until directed otherwise by the Off-Site RET Supervisor.
 - 5.5.2 Obtain an off-site radiological kit from the Off-Site RET Equipment Coordinator and inventory the kit contents.
 - 5.5.3 Fill out an Off-Site RET Assembly Checklist (Enclosure 3):
 - 1. Record kit number and field survey team personnel.
 - 2. Zero the self-reading dosimeters; record dosimeter serial number and reading and TLD serial number; attach dosimetry (self reader and TLD) to front of body (between the waist and neck).
 - 3. Perform operational tests and checks of radiological equipment/instrumentation (as indicated on the checklist).

NOTE: Maintain the checklist with the kit until it is checked in (upon deactivation of the Off-Site RET).
 - 4. Obtain replacement equipment (for missing or defective items) as needed from the equipment coordinator.
 - 5.5.4 Obtain a vehicle and report to the Off-Site RET Supervisor for initial dispatch instructions.

5.5.5 Proceed to off-site survey/sample locations (as instructed by the Off-Site RET Supervisor or Off-Site RET Coordinator) and do the following:

1. Take an initial radiation reading and report (by radio) to the Off-Site RET Coordinator for instructions.
2. Perform surveys, take environmental samples and exchange environmental TLDs as directed by the Off-Site RET Coordinator (in accordance with the methods in Reference 2.6).

NOTE: Radiological Survey Data shall be recorded on the appropriate Off-Site RET Radiation Survey Data Forms (Enclosure 2).

3. Report (by radio) radiation survey and air sample data to the Off-Site RET Coordinator.
4. Forward environmental samples, TLDs and air samples to the EOF (by courier) for analysis and evaluation as directed.
5. Perform additional duties and/or proceed to the next survey/sample area as directed by the Off-Site RET Coordinator.

NOTE: Field survey teams shall contact the Off-Site RET Coordinator for further instructions if area radiation exposure rates exceed 50 mR/hr or self-reading dosimeter readings exceed 50 mR.

5.6 The Radiation Protection Coordinator (at the EOF) shall do the following (upon activation of the Off-Site RET):

5.6.1 Verify activation of the Off-Site RET and report status to the EOF Coordinator, as follows:

1. Off-Site RET Coordinator(s) are present (at the EOF) and communications are established with the Off-Site RET Supervisor (at the Newport Service Center).
2. Off-Site RET field survey teams are assembled and ready for dispatch (at the Newport Service Center).

3. Off-Site RET field survey teams are dispatched into the field and are in radio contact with the Off-Site RET Coordinator(s).

5.6.2 Direct the Off-Site RET field survey teams (through the Off-Site RET Coordinator) to conduct surveys, obtain samples and exchange environmental TLDs as applicable to the type and magnitude of release of radioactive materials offsite.

6.0 Follow-Up Actions

6.1 The Off-Site RET Coordinator shall:

- 6.1.1 Ensure that all surveys and sampling required by the Radiation Protection Coordinator have been completed.
- 6.1.2 Ensure that all environmental samples and TLDs which have been forwarded to the EOF have been received by the Emergency Laboratory Sample Coordinator.
- 6.1.3 Ensure that exchanged environmental TLDs (which have been removed for analysis) have been replaced with new TLDs.
- 6.1.4 Ensure that requested additional equipment, supplies and instrumentation have been received at the Newport Service Center by the Off-Site RET Equipment Coordinator.
- 6.1.5 Keep the Radiation Protection Coordinator informed of Off-Site RET status including the following:
 1. Field survey team status and location;
 2. Off-site radiological survey data;
 3. Off-site environmental sample and TLD status and results; and,
 4. Requirements for additional equipment, supplies, instrumentation and personnel.
- 6.1.6 Maintain communications with all Off-Site RET groups until the Off-Site RET is deactivated.
- 6.1.7 Coordinate off-site sampling and survey program as directed.
- 6.1.8 Forward all Off-Site RET records and reports to the Radiation Protection Coordinator for review prior to submittal to the EOF Administrator.

6.2 The Off-Site RET Supervisor shall:

- 6.2.1 Supervise the assembly and formation into field survey teams (or couriers) of any additional personnel who report to the Newport Service Center.
- 6.2.2 Monitor all radio communications between the Off-Site RET Coordinator and the field survey teams and respond as required.
- 6.2.3 Dispatch couriers and coordinate the pick up and delivery of samples, records and supplies between the EOF and the field survey teams.
- 6.2.4 Direct off-site sampling and survey programs as directed.
- 6.2.5 Supervise the deactivation of the Off-Site RET.

6.3 The Off-Site RET Equipment Coordinator shall:

- 6.3.1 Check radiological survey equipment for contamination and request assistance in decontamination as required.
- 6.3.2 Assist the Off-Site RET Supervisor in performance of follow-up actions.
- 6.3.3 Direct an inventory of all equipment used during the emergency.
 - 1. All equipment shall be checked for proper operability, serviced or repaired as necessary (batteries replaced, filters replaced, etc.) and restowed in the equipment storage room.
 - 2. Any missing or damaged equipment shall be recovered, or replaced by Health Physics.
- 6.3.4 Maintain records of sign-on and sign-off times, mileage, or other expenses of Off-Site RET personnel at the Newport Service Center.
- 6.3.5 Forward all Off-Site RET records and reports to the Off-Site RET Coordinator for review prior to submittal to the EOF Administrator.

6.4 Off-Site RET Members shall:

- 6.4.1 Conduct surveys, take environmental samples, exchange environmental TLDS, and perform other duties in accordance with instructions from the Off-Site RET Coordinators and the Off-Site RET Supervisor.

- 6.4.2 Report radiological survey data to the Off-Site RET Coordinator.

NOTE: Area radiation levels greater than 50 mr/hr shall be reported immediately.

- 6.4.3 Monitor their own exposure (by the use of self-reading dosimeters).

NOTE: When personnel exposure (as indicated by self-reading dosimeter) exceeds 50 mR, the Off-Site RET Coordinator shall be contacted immediately for further instructions.

- 6.4.4 Forward environmental samples and TLDs to the EOF for evaluation in accordance with instructions from the Off-Site RET Coordinator or the Off-Site RET Supervisor.

NOTE: Samples and TLDs will be transported to the EOF by Off-Site RET couriers (dispatched from the Newport Service Center).

- 6.4.5 Return all equipment, supplies, instrumentation, survey and sampling materials and vehicles to the Newport Service Center in accordance with instruction from the Off-Site RET Coordinator or the Off-Site RET Supervisor.

- 6.4.6 (Upon return to the Newport Service Center) assist the Off-Site RET Supervisor and Equipment Coordinator until released and signed out (in accordance with instructions from the Off-Site RET Coordinator or Off-Site RET Supervisor).

6.5 The Radiation Protection Coordinator shall:

- 6.5.1 Evaluate and forward all Off-Site RET Survey Data to the Environmental Assessment Team.

- 6.5.2 Evaluate and forward all Off-Site environmental sampling data to the Recovery Manager (when the Recovery Organization is activated).

- 6.5.3 Direct the Off-Site RET effort in accordance with the instructions of the Recovery Manager (when the Recovery Organization is activated).

- 6.5.4 Direct the de-activation of the Off-Site RET as directed by the EOF Coordinator or the Recovery Manager.

OFF-SITE RET DISPATCH FORM

LOCATION:

SURVEY/SAMPLE REQUIRED:

RADIATION SURVEY
AIR SAMPLE
SOIL OR WATER SAMPLE
SMEAR SURVEY
OTHER _____

LOCATION:

SURVEY/SAMPLE REQUIRED:

RADIATION SURVEY
AIR SAMPLE
SOIL OR WATER SAMPLE
SMEAR SURVEY
OTHER _____

LOCATION:

SURVEY/SAMPLE REQUIRED:

RADIATION SURVEY
AIR SAMPLE
SOIL OR WATER SAMPLE
SMEAR SURVEY
OTHER _____

LOCATION:

SURVEY/SAMPLE REQUIRED:


RADIATION SURVEY
AIR SAMPLE
SOIL OR WATER SAMPLE
SMEAR SURVEY
OTHER _____

Off-Site RET Radiation Survey Data Form 1
(For use with Ludlum 12S Radiation Survey Meter only)

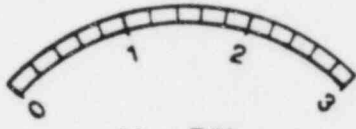
Field Survey Unit No.:	Survey Meter ID No.:
Field Survey Unit Personnel (Signatures):	Battery Check OK: <input type="checkbox"/> Yes <input type="checkbox"/> No

Circle Appropriate Range

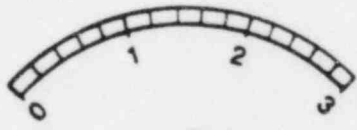
A

Date:	Sector Designation:	Scale: $\times 1000$ Off Bat $\times 100$ $\times 10$ $\times 1$	Meter Reading:
	Specific Location:		 Micro R/Hr
Time:			

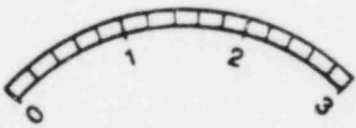
B

Date:	Sector Designation:	Scale: $\times 1000$ Off Bat $\times 100$ $\times 10$ $\times 1$	Meter Reading:
	Specific Location:		 Micro R/Hr
Time:			

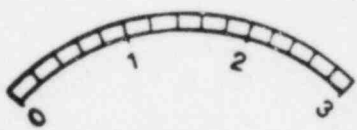
C

Date:	Sector Designation:	Scale: $\times 1000$ Off Bat $\times 100$ $\times 10$ $\times 1$	Meter Reading:
	Specific Location:		 Micro R/Hr
Time:			

D

Date:	Sector Designation:	Scale: $\times 1000$ Off Bat $\times 100$ $\times 10$ $\times 1$	Meter Reading:
	Specific Location:		 Micro R/Hr
Time:			

E

Date:	Sector Designation:	Scale: $\times 1000$ Off Bat $\times 100$ $\times 10$ $\times 1$	Meter Reading:
	Specific Location:		 Micro R/Hr
Time:			

Off-Site RET Radiation Survey Data Form 2

(For use with RO-2 Radiation Survey Meter only)

Field Survey Unit No.:	Survey Meter ID No.:	Beta Correction Factor:
Field Survey Unit Personnel (Signatures):	Battery Check OK:	
	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Meter Zero Adjust OK:	
	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Circle Appropriate Range

A

Date:	Sector Designation:	Scale: R/hr 500 mR/hr 5 / 50 	Meter Reading:
Time:	Specific Location:		Window Open <input type="checkbox"/> Window Closed <input checked="" type="checkbox"/>

B

Date:	Sector Designation:	Scale: R/hr 500 mR/hr 5 / 50 	Meter Reading:
Time:	Specific Location:		Window Open <input type="checkbox"/> Window Closed <input checked="" type="checkbox"/>

C

Date:	Sector Designation:	Scale: R/hr 500 mR/hr 5 / 50 	Meter Reading:
Time:	Specific Location:		Window Open <input type="checkbox"/> Window Closed <input checked="" type="checkbox"/>

D

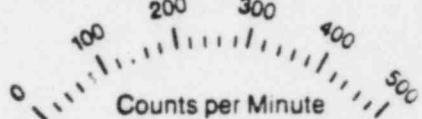
Date:	Sector Designation:	Scale: R/hr 500 mR/hr 5 / 50 	Meter Reading:
Time:	Specific Location:		Window Open <input type="checkbox"/> Window Closed <input checked="" type="checkbox"/>

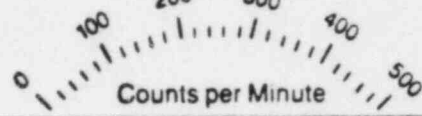
Form #2

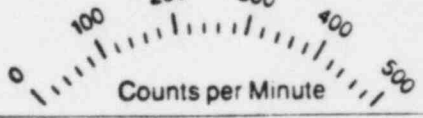
Off-Site RET Air Sample Data Form 3

Field Survey Unit No.:	Air Sampler ID No.:
Field Survey Unit Personnel (Signatures):	Frisker ID No.:
	Frisker Battery Check OK: <input type="checkbox"/> Yes <input type="checkbox"/> No

A Sector Designation: Specific Location:	Date:	Average Flowrate (CFM):
	Time Air Sample On:	
	Time Air Sample Off:	

B Counts/Min. with No Sample (Background Count)	Scale Setting:	Meter Reading:  Counts per Minute
	<input type="checkbox"/> x 1 <input type="checkbox"/> x 10 <input type="checkbox"/> x 100 <input type="checkbox"/> x 1K	

C Counts/Min. of Filter Paper	Scale Setting:	Meter Reading:  Counts per Minute
	<input type="checkbox"/> x 1 <input type="checkbox"/> x 10 <input type="checkbox"/> x 100 <input type="checkbox"/> x 1K	

D Counts/Min. of Iodine Specific Cartridge	Scale Setting:	Meter Reading:  Counts per Minute
	<input type="checkbox"/> x 1 <input type="checkbox"/> x 10 <input type="checkbox"/> x 100 <input type="checkbox"/> x 1K	

Form #3

OFF-SITE RET ASSEMBLY CHECKLIST

*** (TO BE COMPLETED PRIOR TO BEING DISPATCHED TO FIELD LOCATIONS) ***

INSTRUCTIONS: Mark the corresponding box () after performing each of the required checks, or fill in the blanks where appropriate.
If any item is damaged or missing, obtain a replacement from the Equipment Coordinator.

FIELD SURVEY UNIT #: _____
(SAME AS KIT #)

FIELD SURVEY UNIT PERSONNEL (SIGNATURES):
(1) _____
(2) _____

PERSONNEL DOSIMETRY

WORN BY: _____ DOSIMETER SERIAL #: _____ DOSIMETER READING: _____ mR
(NAME) (REZERO AS REQUIRED)

TLD SERIAL #: _____ DOSIMETER READING UPON RETURN: _____ mR
YES NO
REZEROED READING BEFORE/AFTER REZERO / TIME

WORN BY: _____ DOSIMETER SERIAL #: _____ DOSIMETER READING: _____ mR
(NAME) (REZERO AS REQUIRED)

TLD SERIAL #: _____ DOSIMETER READING UPON RETURN: _____ mR

SURVEY/SAMPLING EQUIPMENT CHECKS

LUDLUM 12S
MICRO R/HR METER

BATTERY CHECK OK:
DATE FORMS AVAILABLE:

METER FACE INTACT:

RO-2 SURVEY METER

BATTERY "1" CHECK OK:
METER ZERO ADJUST:
METER FACE INTACT:

BATTERY "2" CHECK OK:
DATA FORMS AVAILABLE:
DETECTOR WINDOW INTACT:

AIR SAMPLER

SPARE FUSES AVAILABLE:
EXTRA SAMPLE HEADS AVAILABLE:
FLOW RATE METER FACE INTACT:

FRISKER

BATTERY CHECK OK: METER FACE INTACT:
DETECTOR CORD NOT FRAYED:
DATA FORMS AVAILABLE:
DETECTOR (PANCAKE PROBE) NOT DAMAGED:

EXAMPLE OF
LIST OF EMERGENCY EQUIPMENT AND DOCUMENTS

Check that the following equipment is available and functional:

<u>ITEM</u>	<u>QUANTITY</u>
1. Set of Procedures for Obtaining Environmental Samples	1
2. Radeco H809C Battery Powered Air Sampler	1
a. Extra Air Sampler Heads	2
b. Particulate Filters	20
c. Silver Zeolite Cartridges	20
3. Frisker (RM14 or Ludlum 177)	1
4. Dose Rate Meter (RO-2 or equivalent)	1
5. TLDs (Personnel)	4
6. TLDs (Environmental)	20
7. Personnel Dosimeters (200 - 500 range)	4
8. Dosimeter Charger (with extra battery)	1
9. Envelopes and Bags for Samples	App. 100
10. Labels for Samples	App. 200
11. Boxes of Smears	4
12. Micro R-Meter (125 or equivalent)	1
13. Survey Forms	App. 100
14. Log Book	1
15. Paper Clothing Sets (to include: hood, coveralls, plastic shoe covers, cloth glove liners, plastic gloves, surgeons caps)	6
16. KI Tablets	1 Bot.
17. Assorted Writing Implements	12
18. Rolls of Masking Tape	1
19. Baggies (Zip Lock)	App. 1 Box

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: EMERGENCY NOTIFICATIONS FROM THE CONTROL ROOM, TECHNICAL
SUPPORT CENTER OR EMERGENCY OPERATIONS FACILITY

RECORD OF APPROVAL AND CHANGES

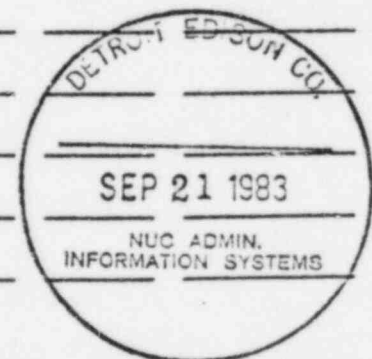
Prepared by Michael J. Cooley June 10, 1983
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E.H. Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D.L. + 8/23/83
OSRO Chairman/Alternate Date
Approved by D.L. + 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
2					*			
3					*			
4					*			
5					*			
6					*			
7					*			
8					*			



CONTROLLED

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: EMERGENCY NOTIFICATIONS FROM THE CONTROL ROOM, TECHNICAL SUPPORT
CENTER, OR EMERGENCY OPERATIONS FACILITY

Prepared by	<u>Michael J. Cooley</u>	<u>June 10, 1983</u>
		Date
Recommended by	<u>Donald S. Mac Kenzie</u>	<u>6-30-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	<u>7-7-83</u>
	Community & Government Affairs	Date
Recommended by	<u>J. P. Cooper</u>	<u>6-30-83</u>
	Insurance	Date
Recommended by	<u>Larry E. Schuermon</u>	<u>6/30/83</u>
	Licensing	Date
Recommended by	<u>Mahmud Syed, M.D.</u>	<u>6/30/83</u>
	Medical Staff	Date
Recommended by	<u>James S. Blair</u>	<u>6/30/83</u>
	Nuclear Administration	Date
Recommended by	<u>Greg A. Ruch</u>	<u>6-30-83</u>
	Nuclear Production	Date
Recommended by	<u>Edward J. Kane</u>	<u>6/30/83</u>
	Nuclear Training	Date
Recommended by	<u>Butt Hillman, Helen A. Rogers</u>	<u>6-30-83</u>
	Public Information	Date
Recommended by	<u>Stuart H. Zisch</u>	<u>6-30-83</u>
	Security	Date
Recommended by	<u>Wayne-Monroe Division</u>	<u>6-30-83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Randazzo</u>	<u>6/30/83</u>
	RERP Committee Chairperson	Date
Revision No.	RERP Committee Chairperson Approved	Date

1
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Attachments

Control Room Notification Form.....	Attachment 1
Nuclear Regulatory Commission (NRC) Initial Notification Form.....	Attachment 2
Off-Site Emergency Support Organizations Activation.....	Attachment 3

1.0 Entry Conditions

An emergency has been classified in accordance with EP-101 (Classification of Emergencies).

2.0 References

- 2.1 Fermi 2 On-Call Plant Supervisor: Emergency Notifications (EP-291).
- 2.2 Detroit Division Dispatch and Report Center: Emergency Notifications (EP-292).
- 2.3 Subsequent Emergency Notifications (EP-293).
- 2.4 JPIC Activation (EP-306-4).

3.0 General Information

- 3.1 The actual notifications should normally be delegated to the Control Room, Technical Support Center (TSC), or Emergency Operations Facility (EOF) Communicator, and the Operational Support Center (OSC) Coordinator.
 - 3.1.1 Once the TSC is activated, all notification responsibilities will be transferred from the Control Room and the OSC to the TSC.
 - 3.1.2 Once the EOF is activated, responsibility for notification of the following groups will be transferred from the TSC to the EOF:
 - 1. Michigan State Police.
 - 2. Monroe County Sheriff, if the On-Scene State Emergency Operations Center (OSEOC) is not yet activated.
 - 3. Nuclear Regulatory Commission (NRC).
- 3.2 Initial emergency notifications to state and local authorities should be made as soon as possible, but must be made within the following prescribed time limits:
 - 3.2.1 Unusual Event: 15 minutes
 - 3.2.2 Alert: 15 minutes
 - 3.2.3 Site Area Emergency 15 minutes

3.2.4 General Emergency 15 minutes

- 3.3 The Emergency Director must be kept informed as to the status of notifications. If any difficulties are encountered in completing any required notifications, the Emergency Director must be notified immediately.

4.0 Procedure

- 4.1 Upon classification of an emergency perform the following in order:
- 4.1.1 Complete the Notification Form (Attachment 1).
 - 4.1.2 Notify the Fermi 2 On-Call Plant Supervisor. Relay applicable information on the Notification Form.
 - 4.1.3 Notify the following Government Emergency Response Organizations, providing items 1 through 9 from Attachment 1, as applicable:
 - 1. Michigan State Police.
 - 2. Monroe County Sheriff.
 - 3. Sandwich West Police Station - Canada at the Alert level or higher (notify only once).
 - 4.1.4 Nuclear Regulatory Commission (NRC) notification.
 - 1. Complete the NRC Event Notification form of Attachment 2.
 - 2. Contact the NRC using the Emergency Notification System (ENS) phone. Read the completed message form (Attachment 2).
 - 4.1.5 Notify American Nuclear Insurers (ANI) at the Alert level or higher (notify only once). This notification will be made from the TSC, once the TSC is activated.
- 4.2 Follow-up reports to the Fermi 2 On-Call Plant Supervisor, Government Emergency Response Organizations, and the NRC will be made as the emergency classification or situation changes.
- 4.2.1 Complete the Notification Form (Attachment 1).
 - 4.2.2 Call the following and read applicable sections of completed Notification Form (Attachment 1):
 - 1. Fermi 2 On-Call Plant Supervisor.

2. Michigan State Police.

3. Monroe County Sheriff.

4.2.3 Complete NRC Supplementary Event Notification Information Part II (Attachment 2).

4.2.4 Contact the NRC using the Emergency Notification System (ENS) phone and read the completed NRC Message Form.

4.3 Off-Site Fire and Medical Support.

The Control Room (See Sections 3.1.1 and 3.1.2 of this procedure) will notify Off-Site Support organizations that their assistance is requested.

4.3.1 Complete the applicable section of Attachment 3.

4.3.2 Call the applicable telephone number and read the completed form (Attachment 3).

4.3.3 Notify the Secondary Alarm Station (SAS) Operator that Off-Site Support has been contacted; relay the following information to him:

1. Support organization to report on-site.
2. Number of personnel reporting on-site.
3. Number of vehicles reporting on-site.
4. Owner-controlled area access gate to be used.
5. Location of the emergency.

4.4 If an organization cannot be contacted because phone lines are inoperable or extensions are busy, refer to the Detroit Edison RERP Telephone Directory. Alternate phone numbers for all agencies, facilities, and off-site support organizations can be found in the Detroit Edison RERP Telephone Directory.

THIS IS _____ IS NOT _____ A DRILL.

1. NAME/TITLE/TELEPHONE NUMBER OF PLANT COMMUNICATOR _____
NAME/TITLE/TELEPHONE NUMBER OF STATE COMMUNICATOR _____

2. PLANT: ENRICO FERMI ATOMIC POWER PLANT UNIT 2 2A. PLANT MESSAGE NUMBER _____

TIME

NAME/TITLE/TELEPHONE NUMBER

ON-CALL PLANT SUPERVISOR _____

MICHIGAN STATE POLICE _____

MONROE COUNTY SHERIFF _____

*SANDWICH WEST POLICE (CANADA) _____

NUCLEAR REGULATORY COMMISSION _____

*AMERICAN NUCLEAR INSURETS _____

*CONTACT ONLY ONCE AT ALERT LEVEL.

3. CLASS OF EMERGENCY (CHECK ONE): A. UNUSUAL EVENT _____ B. ALERT _____ C. SITE AREA _____

D. GENERAL _____ E. THIS CLASSIFICATION DECLARED AT: TIME _____ DATE _____

4. DESCRIPTION OF EVENT/INITIATING CONDITION: _____

5. PROGNOSIS (CHECK ONE): A. STABLE _____ B. ESCALATING _____ C. DE-ESCALATING _____ D. TERMINATING _____

6. PLANT EMERGENCY RESPONSE ACTIONS UNDERWAY:

A. OFFSITE ASSISTANCE PREVIOUSLY REQUESTED: YES _____ NO _____ B. FIRE _____

C. POLICE _____ D. AMBULANCE _____

E. HOSPITAL _____ F. OTHER _____

G. SITE EVACUATION: YES _____ NO _____ LIMITED _____

H. ONSITE RM TEAMS DISPATCHED: YES _____ NO _____ TIME _____ I. OFFSITE RM TEAMS DISPATCHED: YES _____ NO _____ TIME _____

7. RELEASE INFORMATION:

A. POTENTIAL FOR RELEASE: YES _____ NO _____ B. ACTUAL RELEASE: YES _____ NO _____ C. TIME OF RELEASE _____

D. AIRBORNE _____ E. WATERBORNE _____ F. SURFACE SPILL _____ G. POTENTIAL RELEASE DURATION, HRS _____

8. METEOROLOGICAL DATA:

A. STABILITY CLASS _____ BASED ON _____ T(°C)/_____ Z(m) OR _____ SIGMA THETA (d)

B. WIND SPEED, MPH _____ C. WIND DIRECTION, DEGREES: FROM _____ TO _____

D. DOWNWIND SECTOR(S) _____ E. PRECIPITATION _____

14. ADDITIONAL INFORMATION: _____

cc: _____

ENRICO FERMI 2

NOTIFICATION FORM

CONTROL ROOM
PROJECTED RADIOLOGICAL DATA

DATE: _____ TIME: _____ MESSAGE NUMBER: _____

8. METEOROLOGICAL DATA:

- A. STABILITY CLASS _____ BASED ON _____ $\Delta T(^{\circ}C)/$ _____ $\Delta Z(m)$ OR _____ SIGMA THETA (d)
 B. WIND SPEED, MPH _____ C. WIND DIRECTION, DEGREES: FROM _____ TO _____
 D. DOWNWIND SECTOR(S) _____ E. PRECIPITATION _____
 F. FORECAST _____

9. RADIOLOGICAL RELEASE DATA:

- A. ESTIMATED _____ MEASURED _____ B. EFFLUENT POINTS & HEIGHT _____
 C. NOBLE GAS RELEASE RATE, CI/SEC _____ D. AVERAGE ENERGY PER DISINTEGRATION, E, MEV _____
 E. EQUIVALENT I-131 RELEASE RATE, CI/SEC _____ F. PARTICULATES, CI/SEC _____

10. CALCULATED OFFSITE DOSE:

DISTANCE

	<u>SITE BOUNDARY</u>	<u>2 MI</u>	<u>5 MI</u>	<u>10 MI</u>
A. WHOLE BODY GAMMA DOSE RATE, MREM/HR	A1. _____	A2. _____	A3. _____	A4. _____
B. WHOLE BODY GAMMA DOSE, MREM	B1. _____	B2. _____	B3. _____	B4. _____
C. CHILD THYROID DOSE RATE, MREM/HR	C1. _____	C2. _____	C3. _____	C4. _____
D. CHILD THYROID DOSE, MREM	D1. _____	D2. _____	D3. _____	D4. _____
E. SECTOR(S) AFFECTED	E1. _____	E2. _____	E3. _____	E4. _____
F. ADDITIONAL DATA	_____			
G. THIS IS BASED ON _____	_____ HOUR(S) PROJECTED INTEGRATED DOSE.			

11. FIELD SURVEY DATA

	<u>SITE BOUNDARY</u>	<u>MI</u>	<u>MI</u>	<u>MI</u>
A. WHOLE BODY GAMMA DOSE RATE, MREM/HR	A1. _____	A2. _____	A3. _____	A4. _____
B. CHILD THYROID DOSE RATE, MREM/HR	B1. _____	B2. _____	B3. _____	B4. _____
C. SECTOR(S) AFFECTED	C1. _____	C2. _____	C3. _____	C4. _____
D. ADDITIONAL DATA	_____			

12. PROTECTIVE ACTION RECOMMENDATIONS:

SECTOR(S)

MILES

- A. NONE _____
 B. IN-PLACE SHELTERING _____
 C. EVACUATION _____
 D. KI DISTRIBUTION _____
 E. CONTAMINATION CONTROL _____
 E1. FOOD _____
 E2. WATER _____
 E3. MILK _____
 F. OTHER _____

13. ESTIMATE OF CONTAMINATED AREA (AS AVAILABLE) A. IN PLANT (SQ FT) _____ B. ONSITE (SQ MILES) _____

C. OFFSITE (SQ MILES) _____

14. ADDITIONAL INFORMATION _____

cc: _____

NRC

EVENT NOTIFICATION

TIME OF NOTIFICATION: _____ EVENT TIME AND ZONE: _____ NRC REGION: _____

DATE: / / GET CALL BACK NUMBER: _____
 M D Y

FACILITY OR ORGANIZATION: _____ CALLER'S NAME _____

EVENT CLASSIFICATION:

1. 50.72 (NON-EMERGENCY)
2. UNPLANNED RELEASE
3. NOTIFICATION OF UNUSUAL EVENT
4. ALERT
5. SITE AREA EMERGENCY
6. GENERAL EMERGENCY
7. TRANSPORTATION EVENT
8. PHYSICAL SECURITY/SAFEGUARDS
9. OTHER

POWER REACTOR EVENT:

POWER PRIOR TO EVENT? _____ POWER AT TIME OF REPORT _____

RESIDENT INFORMED: _____

TRIP? _____ INITIATING SIGNAL? _____

SAFETY INJECTION OR ECCS? _____ INITIATING SIGNAL _____

ESF ACTUATION? _____

LCO ACTION STATEMENT? _____

EVENT DESCRIPTION/CAUSE: _____

NRC

EVENT NOTIFICATION (cont)

RADIOACTIVE RELEASES? (QUANTIFY): _____

OTHER MAJOR PROBLEMS? _____

PLANNED ACTIONS/PRESS RELEASES? _____

OUTSIDE AGENCY OR PERSONNEL NOTIFIED BY LICENSEE: _____

STATE(S) _____ LOCAL _____

OTHER _____

DUTY OFFICER: _____

NRC

SUPPLEMENTARY EVENT NOTIFICATION INFORMATION

Part II

Further Licensee Actions

Taken _____
Planned _____
Property Damage _____

Radioactivity Released (or Increased Release)?

Liquid/Gas? _____ Location/Source of Release _____ Elevation _____
Release Rate _____ Duration _____ Stopped? _____
Release Monitored? _____ Amount of Release _____

Increased Radiation Levels in Plant: Location(s) _____
Radiation Level(s) _____ Areas Evacuated _____
Maximum offsite dose rates _____
Integrated dose _____ Location _____

Meteorology

Wind Direction from _____
Wind Speed _____ (Meter/sec or miles/hr)
T _____ (°C or °F) Sigma Theta _____ Temperature _____ (°C or °F)
Stability Class A B C D E F Raining (Yes/No) _____

Projected Doses: I

	<u>Dose Rates</u>	<u>Integrated Dose</u>
2 mi	_____	_____
5 mi	_____	_____
10 mi	_____	_____
Sectors	_____	_____

Contamination (Surface): Inplant _____ onsite _____ offsite _____

Reactor Operations:

Reactor System Status _____ Power Level _____
Pressure _____ Temp. _____ Flow (pumps on) _____
Cooling Mode _____ ECCS Operating/Operable _____
Containment Status _____

Containment Isolated? _____ Containment Temp. _____
Containment Pressure _____ Containment Radiation _____ R/hr.
Standby Gas Treat Sys (BWR) _____

Reactivity Controls

Control Rods Inserted _____ Status of Emer. Boration System _____

NRC

SUPPLEMENTARY EVENT NOTIFICATION INFORMATION

Part II

Steam Plant Status S/G Levels _____ Equip. Failures _____
Feedwater Source/Flow _____ S/G Isolated? _____
MSIVs (BWR) Closed _____

Electrical Dist. Status: Normal Offsite Power
 Available? _____

Major Busses/Loads Lost _____
Safeguards Busses Power Source _____
D/G Running? _____ Loaded _____

Security/Safeguards:

Bomb Threat: Search Conducted? _____
 Search Results _____ Site Evacuated? _____

Extortion: Source (Phone, letter, etc.)? _____
 Location of Letter _____

Intrusion: Insider? _____ Outsider? _____
 Furthest Point of Intrusion _____
 Fire arms related? _____ Stolen/Missing Material? _____

RX Oper./Demonstration: Size of Group _____ Demands _____
Violence? _____ Fire arms related? _____

Sabotage/Vandalism: Radiological? _____ Arson Involved? _____
 Stolen/Missing Material? _____

Transportation:

Mode (Road/Rail/Air/etc.) _____ Carrier _____
Exact Location _____
Type of Material (HEU/Spent Fuel/Cat III/Other) _____
Description of Shipment _____
Labels : (On material package) _____ On vehicle) _____
Spillage _____ Surveys _____
Physical damage to container? _____
Fire/Smoke _____ Missing material? _____

Materials and fuel Facilities

Kind of Licensee (processor, radiographer, medical, etc.) _____
 Isotopes involved _____
Solid/Liquified? _____ Sealed/Loose? _____

OFF-SITE EMERGENCY SUPPORT ORGANIZATIONS ACTIVATION

FIRE

1.0 Frenchtown Volunteer Fire Department

1. "This is _____ (state name and title) calling from the Enrico Fermi Atomic Power Plant - Unit 2. There is a fire at the site. Your assistance is requested immediately."
2. "Use the _____ access gate."
3. "The following precautions shall be taken in reporting to the scene:

4. Determine the following information from the Fire Department and relay this information to the SAS Operator.
 1. Number of vehicles expected to arrive _____.
 2. Number of personnel expected to arrive _____.

OFF-SITE EMERGENCY SUPPORT ORGANIZATIONS ACTIVATION (cont)

AMBULANCE

2.0 EMTS Ambulance Service

1. "This is _____ (state name and title) calling from the Enrico Fermi Atomic Power Plant - Unit 2. There are injured personnel at the site and your assistance is required immediately."
2. "Number of injured personnel is _____."
3. "Injuries to personnel are _____."
4. "Number of potentially contaminated personnel is _____."
5. "Use the _____ access gate."
6. "The following precautions shall be taken:

_____."
7. Determine the following information from the Ambulance Service and relay this information to the SAS Operator.
 1. Number of vehicles expected to arrive _____.
 2. Number of personnel expected to arrive _____.

OFF-SITE EMERGENCY SUPPORT ORGANIZATIONS ACTIVATION (cont)

HOSPITAL

3.0 Seaway Hospital

1. "This is _____ (state name and title) calling from the Enrico Fermi Atomic Power Plant - Unit 2. There are injured personnel at the site and the EMTS Ambulance Service has been contacted to transport the victims to you."
2. "Number of injured personnel is _____."
3. "Injuries to personnel are _____."
4. "Number of potentially contaminated personnel is _____."
5. "Number of personnel suffering from excessive radiation exposure is _____."
6. If there are potentially contaminated personnel state the following:

"You are requested to implement your Radiological Emergency Plan."

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: FERMI 2 ON-CALL PLANT SUPERVISOR: EMERGENCY NOTIFICATIONS

RECORD OF APPROVAL AND CHANGES

Prepared by Michael J. Cooley June 6, 1983
Date

Approved by E H Newton 8-23-83
Responsible Section Head Date

Recommended by Thomas Randazzo 8/22/83
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/L + 8/23/83
OSRO Chairman/Alternate Date

Approved by D/L + 8/23/83
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: FERMI 2 ON-CALL PLANT SUPERVISOR: EMERGENCY NOTIFICATIONS

Prepared by	<u>Michael J. Cooley</u>	<u>June 6, 1983</u>
		Date
Recommended by	<u>Donald L. MacKenzie</u>	<u>6-30-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	<u>7-7-83</u>
	Community & Government Affairs	Date
Recommended by	<u>J. M. Cooper</u>	<u>6-30-83</u>
	Insurance	Date
Recommended by	<u>Larry E. Schuman</u>	<u>6/30/83</u>
	Licensing	Date
Recommended by	<u>Mahmoud Syed, M.D.</u>	<u>6/30/83</u>
	Medical Staff	Date
Recommended by	<u>James J. Pavia</u>	<u>6/30/83</u>
	Nuclear Administration	Date
Recommended by	<u>Gregg R. Dwyer</u>	<u>6-30-83</u>
	Nuclear Production	Date
Recommended by	<u>Edwin J. Dwyer</u>	<u>6/30/83</u>
	Nuclear Training	Date
Recommended by	<u>Best Hochman, J. M. H. Rogers</u>	<u>6-30-83</u>
	Public Information	Date
Recommended by	<u>Stuart H. Zesch</u>	<u>6-30-83</u>
	Security	Date
Recommended by	<u>Thomas L. Rando</u>	<u>6-30-83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Rando</u>	<u>6/30/83</u>
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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Enclosure

Emergency Call-Out Table	Enclosure 1
------------------------------------	-------------

Attachments

Control Room Notification Form	Attachment 1
Emergency Notification Check List/Message Form .	Attachment 2

1.0 Purpose

To prescribe the actions of the Fermi 2 On-Call Plant Supervisor in the event that an emergency has been classified in accordance with EP-101 (Classification of Emergencies).

2.0 References

- 2.1 Emergency Notifications from the Control Room, Technical Support Center, or Emergency Operations Facility (EP-290).
- 2.2 Detroit Division Dispatch & Report Center: Emergency Notifications (EP-292).
- 2.3 Subsequent Emergency Notifications (EP-293).

3.0 Entry Conditions

The Fermi 2 On-Call Plant Supervisor will initiate notifications whenever requested by the Emergency Director or member of the Radiological Emergency Response Preparedness (RERP) group.

4.0 General Information

The primary function of the Fermi 2 On-Call Plant Supervisor is to act as a communication link between Enrico Fermi 2 Power Plant and all other Detroit Edison personnel.

5.0 Immediate Actions

- 5.1 Upon instruction from the Emergency Director, or RERP group, that notifications should occur, complete the Control Room Notification Form (Attachment 1).
- 5.2 Determine which personnel should be mobilized or placed on standby using the Emergency Call-Out Table (Enclosure 1).
- 5.3 Using the Emergency Notification Check List/Message Form (Attachment 2), contact in the following order:
 - 5.3.1 Detroit Division Dispatch and Report Center.
 - 5.3.2 Plant Superintendent, Assistant Superintendent, or Operations Engineer, unless already mobilized as the Emergency Director.
 - 5.3.3 Emergency Officer.
 - 5.3.4 Media Relations.

5.3.5 Secondary Alarm Station (SAS).

5.4 Follow-up reports from the plant.

5.4.1 Complete the Control Room Notification Form (Attachment 1).

5.4.2 If emergency classification is upgraded, determine which personnel should be mobilized or placed on standby using the Emergency Call-Out Table (Enclosure 1) and the Emergency Notification Check List/Message Form (Attachment 2). Contact in the following order:

1. Detroit Division Dispatch & Report Center.
2. Emergency Director unless already mobilized.
3. Emergency Officer unless already mobilized.
4. Media Relations.
5. Secondary Alarm Station (SAS).

5.4.3 If a standby is being cancelled, contact the Detroit Division Dispatch and Report Center Shift Foreman and provide:

1. Name and social security number.
2. Groups to be taken off of standby status.
3. A telephone number where you can be contacted.

5.5 Continue to function as the Fermi 2 On-Call Plant Supervisor until the Technical Support Center (TSC) is activated. Once activated, the TSC will assume all notification responsibilities originally assigned to the On-Call Plant Supervisor. The Admin/Support Coordinator will be the responsible person within the TSC for these notifications.

6.0 Follow-Up Actions

Retain all used Notification Forms and Notification Checklists and turn them over to the Emergency Planner at the conclusion of on-call assignment period.

EMERGENCY CALL-OUT TABLE*

CONDITION	STANDBY	MOBILIZE	CANCEL STANDBY
Unusual Event	1 & 2	---	---
Downgrade	---	---	1 & 2
Alert	5 & 6	1,2,3 & 4	---
Downgrade	---	---	5 & 6
Site Area/ General Emergency	---	5 & 6	---
Fast Acting	---	1,2,3,5,4 & 6	---

1. Mobilization calls are always completed before initiation of standby notifications.
2. Groups are called in the order listed where more than one are in the same category.

*Group members are as follows:

GROUP 1 - OSC SUPERVISION

OSC Coordinator
Assistant OSC Coordinator

GROUP 2 - CR & TSC ESSENTIAL PERSONNEL

Emergency Operations Liaison
Reactor Engineer
Administration & Support Coordinator
Technical Engineer
Nuclear Safety Advisor
Radiation Protection Advisor
Rad/Chem Advisor
Meteorologist
Security Advisor
Dose Assessment

EMERGENCY CALL-OUT TABLE (Cont'd)

GROUP 3 - TSC ESSENTIAL SUPPORT PERSONNEL

Thermal Hydraulics Engineer
Mechanical Engineer
Electrical Engineer
I&C Engineer
Communicator, TSC
Technical Communicator

GROUP 4 - TSC SUPPORT PERSONNEL

Typist - Emergency Director
Typist - Administrative
Status Board Clerk
Courier
Quality Assurance Advisor

GROUP 5 - EOF MANAGEMENT & SUPPORT

EOF Coordinator
EOF Administrator
RET Supervisor
Radiation Protection Coordinator
Nuclear Operations Advisor
Public Information Coordinator
Security Advisor

GROUP 6 - EOF SUPPORT PERSONNEL

Radiation Protection Communicator
Dose Assessment
Communicator
Assistant EOF Administrator
Technical Liaison - State
Assistant Technical Liaison - State
Technical Liaison - County
Typist
Status Board Clerk
Courier

ENRICO FERMI 2

NOTIFICATION FORM

CONTROL ROOM

THIS IS _____ IS NOT _____ A DRILL.

1. NAME/TITLE/TELEPHONE NUMBER OF PLANT COMMUNICATOR _____
NAME/TITLE/TELEPHONE NUMBER OF STATE COMMUNICATOR _____

2. PLANT: ENRICO FERMI ATOMIC POWER PLANT UNIT 2 2A. PLANT MESSAGE NUMBER _____

	TIME	NAME/TITLE/TELEPHONE NUMBER
ON-CALL PLANT SUPERVISOR	_____	_____
MICHIGAN STATE POLICE	_____	_____
MONROE COUNTY SHERIFF	_____	_____
*SANDWICH WEST POLICE (CANADA)	_____	_____
NUCLEAR REGULATORY COMMISSION	_____	_____
*AMERICAN NUCLEAR INSURERS	_____	_____
*CONTACT ONLY ONCE AT ALERT LEVEL.		

3. CLASS OF EMERGENCY (CHECK ONE): A. UNUSUAL EVENT _____ B. ALERT _____ C. SITE AREA _____
D. GENERAL _____ E. THIS CLASSIFICATION DECLARED AT: TIME _____ DATE _____4. DESCRIPTION OF EVENT/INITIATING CONDITION: _____

5. PROGNOSIS (CHECK ONE): A. STABLE _____ B. ESCALATING _____ C. DE-ESCALATING _____ D. TERMINATING _____

6. PLANT EMERGENCY RESPONSE ACTIONS UNDERWAY:

A. OFFSITE ASSISTANCE PREVIOUSLY REQUESTED: YES _____ NO _____ B. FIRE _____

C. POLICE _____ D. AMBULANCE _____

E. HOSPITAL _____ F. OTHER _____

G. SITE EVACUATION: YES _____ NO _____ LIMITED _____

H. ONSITE RM TEAMS DISPATCHED: YES _____ NO _____ TIME _____ 1. OFFSITE RM TEAMS DISPATCHED: YES _____ NO _____ TIME _____

7. RELEASE INFORMATION:

A. POTENTIAL FOR RELEASE: YES _____ NO _____ B. ACTUAL RELEASE: YES _____ NO _____ C. TIME OF RELEASE _____

D. AIRBORNE _____ E. WATERBORNE _____ F. SURFACE SPILL _____ G. POTENTIAL RELEASE DURATION, HRS _____

8. METEOROLOGICAL DATA:

A. STABILITY CLASS _____ BASED ON _____ T(°C)/_____ Z(m) OR _____ SIGMA THETA (d)

B. WIND SPEED, MPH _____ C. WIND DIRECTION, DEGREES: FROM _____ TO _____

D. DOWNWIND SECTOR(S) _____ E. PRECIPITATION _____

14. ADDITIONAL INFORMATION: _____

_____cc: _____

ENRICO FERMI 2

NOTIFICATION FORM

CONTROL ROOM
PROJECTED RADIOLOGICAL DATA

DATE: _____ TIME: _____ MESSAGE NUMBER: _____

8. METEOROLOGICAL DATA:

A. STABILITY CLASS _____ BASED ON _____ T(°C)/_____ Z(m) OR _____ SIGMA THETA (d)
B. WIND SPEED, MPH _____ C. WIND DIRECTION, DEGREES: FROM _____ TO _____
D. DOWNWIND SECTOR(S) _____ E. PRECIPITATION _____
F. FORECAST _____

9. RADIOLOGICAL RELEASE DATA:

A. ESTIMATED _____ MEASURED _____ B. EFFLUENT POINTS & HEIGHT _____
C. NOBLE GAS RELEASE RATE, CI/SEC _____ D. AVERAGE ENERGY PER DISINTEGRATION, E, MEV _____
E. EQUIVALENT I-131 RELEASE RATE, CI/SEC _____ F. PARTICULATES, CI/SEC _____

10. CALCULATED OFFSITE DOSE:

DISTANCE

	<u>SITE BOUNDARY</u>	<u>2 MI</u>	<u>5 MI</u>	<u>10 MI</u>
A. WHOLE BODY GAMMA DOSE RATE, MREM/HR	A1. _____	A2. _____	A3. _____	A4. _____
B. WHOLE BODY GAMMA DOSE, MREM	B1. _____	B2. _____	B3. _____	B4. _____
C. CHILD THYROID DOSE RATE, MREM/HR	C1. _____	C2. _____	C3. _____	C4. _____
D. CHILD THYROID DOSE, MREM	D1. _____	D2. _____	D3. _____	D4. _____
E. SECTOR(S) AFFECTED	E1. _____	E2. _____	E3. _____	E4. _____
F. ADDITIONAL DATA	_____			
G. THIS IS BASED ON _____	_____ HOUR(S) PROJECTED INTEGRATED DOSE.			

11. FIELD SURVEY DATA

SITE BOUNDARY

MI

MI

MI

	<u>SITE BOUNDARY</u>	<u>MI</u>	<u>MI</u>	<u>MI</u>
A. WHOLE BODY GAMMA DOSE RATE, MREM/HR	A1. _____	A2. _____	A3. _____	A4. _____
B. CHILD THYROID DOSE RATE, MREM/HR	B1. _____	B2. _____	B3. _____	B4. _____
C. SECTOR(S) AFFECTED	C1. _____	C2. _____	C3. _____	C4. _____
D. ADDITIONAL DATA	_____			

12. PROTECTIVE ACTION RECOMMENDATIONS:

SECTOR(S)

MILES

A. NONE	_____	_____
B. IN-PLACE SHELTERING	_____	_____
C. EVACUATION	_____	_____
D. KI DISTRIBUTION	_____	_____
E. CONTAMINATION CONTROL	_____	_____
E1. FOOD	_____	_____
E2. WATER	_____	_____
E3. MILK	_____	_____
F. OTHER	_____	_____

13. ESTIMATE OF CONTAMINATED AREA (AS AVAILABLE) A. IN PLANT (SQ FT) _____ B. ONSITE (SQ MILES) _____

C. OFFSITE (SQ MILES) _____

14. ADDITIONAL INFORMATION _____

cc: _____

Emergency Notification
Check List/Message Form

1. Detroit Division Dispatch & Report Center*

"Hello. May I speak to the Shift Foreman?"

"Hello. This is _____, the Fermi 2 On-Call Plant Supervisor. I am calling to request notification of Fermi 2 emergency personnel. My social security number is _____."

Mobilization: "Please mobilize groups _____ & _____ in that order. Would you please repeat the groups to verify?"

Standby: "Please place groups _____ & _____ on standby in that order. Would you please repeat the groups to verify?"

Cancel Standby: "Please cancel the standby for groups _____ & _____. Would you please repeat the groups to verify?"

"When notifications are completed or if difficulties arise, contact me at _____ (your phone number). What is your name? _____
(Fill in name.)"

2. The Plant Superintendent, Assistant Superintendent, or Operations Engineer must be mobilized at ALERT classification to serve as Emergency Director (he may mobilize himself at any earlier time as he deems necessary).

Brief the person contacted on the situation and answer questions by referring to the Notification Form (Attachment 1).

Person contacted: _____
Time mobilized: _____ A.M./P.M. (Circle one)
Time: _____ A.M./P.M. (Circle one)

3. The Emergency Officer must be mobilized at the SITE AREA EMERGENCY classification (he may mobilize himself at any earlier time as he deems necessary).

*The Emergency Call-Out Table (Enclosure 1) provides groups to be mobilized/placed on standby by emergency classification.

Brief the person contacted on the situation and answer questions by referring to the Notification Form (Attachment 1).

Person contacted: _____
Time mobilized: _____ A.M./P.M. (Circle one)
Time: _____ A.M./P.M. (Circle one)

4. Media Relations

Brief the person contacted on the situation and answer questions by referring to the Notification Form (Attachment 1).

Person contacted _____

Time: _____ A.M./P.M. (Circle one)

5. SAS Operator.

"Hello. This is _____, the Fermi 2 On-Call Plant Supervisor. I am calling to report that a/an _____ (Give emergency classification.) has been declared by the Emergency Director at Fermi 2. I have contacted Detroit Division Dispatch and Report Center and mobilized groups _____. I have placed on standby groups _____. Please clear these personnel for access to their emergency assignments. Please initiate all other required notifications and responses at this time. What is your name?
_____ (Fill in name.)

Time: _____ A.M./P.M. (Circle one)

6. Date: _____

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: DETROIT DIVISION DISPATCH AND REPORT CENTER:
EMERGENCY NOTIFICATIONS

RECORD OF APPROVAL AND CHANGES

Prepared by	<u>Michael J. Cooley</u>	<u>June 3, 1983</u> Date
Approved by	<u>Thomas Randazzo</u> Responsible Section Head	<u>8/22/83</u> Date
Recommended by	<u>E.H. Newton</u> Supervisor - Operational Assurance/Delegate	<u>8-23-83</u> Date

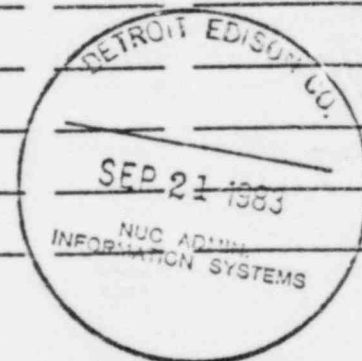
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by	<u>D/L +</u> OSRO Chairman/Alternate	<u>8/23/83</u> Date
Approved by	<u>D/L +</u> Superintendent-Nuclear Production/Delegate	<u>8/23/83</u> Date

Revision No.	Responsible Section Head Approved	Date	Supervisor- Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1	_____	_____	_____	_____	*	_____	_____	_____
2	_____	_____	_____	_____	*	_____	_____	_____
3	_____	_____	_____	_____	*	_____	_____	_____
4	_____	_____	_____	_____	*	_____	_____	_____
5	_____	_____	_____	_____	*	_____	_____	_____
6	_____	_____	_____	_____	*	_____	_____	_____
7	_____	_____	_____	_____	*	_____	_____	_____
8	_____	_____	_____	_____	*	_____	_____	_____

CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: DETROIT DIVISION DISPATCH AND REPORT CENTER: EMERGENCY NOTIFICATIONS

Prepared by	<u>Michael J. Cooley</u>	<u>GJ Kelardi</u>	<u>June 3, 1983</u>
			Date
Recommended by	<u>Donald T. MacKenzie</u>		<u>6-30-83</u>
	Communication System Division		Date
Recommended by	<u>James L Jones</u>		<u>7-7-83</u>
	Community & Government Affairs		Date
Recommended by	<u>J.P. Cooper</u>		<u>6-30-83</u>
	Insurance		Date
Recommended by	<u>Larry E. Silverman</u>		<u>6/30/83</u>
	Licensing		Date
Recommended by	<u>Mahmud Syed, M.D.</u>		<u>6/30/83</u>
	Medical Staff		Date
Recommended by	<u>James S. Levine</u>		<u>6/30/83</u>
	Nuclear Administration		Date
Recommended by	<u>Gregg R. Burkhardt</u>		<u>6-30-83</u>
	Nuclear Production		Date
Recommended by	<u>Daniel J. Fanning</u>		<u>6/30/83</u>
	Nuclear Training		Date
Recommended by	<u>Bert A. Hildebrandt H. Payne</u>		<u>6-30-83</u>
	Public Information		Date
Recommended by	<u>Stuart H. Zisch</u>		<u>6-30-83</u>
	Security		Date
Recommended by	<u>Monroe L. Zimmerman</u>		<u>6-30-83</u>
	Wayne-Monroe Division		Date
Approved by	<u>Thomas Randazzo</u>		<u>6/30/83</u>
	RERP Committee Chairperson		Date

Revision No. _____ RERP Committee Chairperson Approved _____ Date _____

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Attachments

Enrico Fermi 2 - Dispatch and Report

Center Notification Form.	Attachment 1
Mobilization Message Form	Attachment 2
Standby Message Form.	Attachment 3
Cancel Standby Message Form	Attachment 4

1.0 Purpose

To prescribe the actions and responsibilities of the Detroit Division Dispatch and Report Center in the event that an incident at the Enrico Fermi 2 Power Plant necessitates notification of emergency personnel.

2.0 References

- *2.1 Emergency Notifications from the Control Room, Technical Support Center, or Emergency Operations Facility (EP-290).
- *2.2 Fermi 2 On-Call Plant Supervisor: Emergency Notifications (EP-291).
- 2.3 Subsequent Notifications (EP-293).
- 2.4 Emergency Call-Out List: Review and Update (EPA-7).

3.0 Entry Conditions

Notification will occur whenever requested by the Fermi 2 On-Call Supervisor.

4.0 General Information

- 4.1 The Nuclear Shift Supervisor/Emergency Director (or delegate) will contact the Fermi 2 On-Call Plant Supervisor when notification is required (See EP-290).
- 4.2 The On-Call Plant Supervisor will then contact the Detroit Division Dispatch and Report Center Shift Foreman who will initiate actions to notify emergency personnel (See EP-291).
- 4.3 Fermi 2 emergency notifications take precedence over all other assigned duties.

5.0 Immediate Actions

- 5.1 Upon notification from the On-Call Plant Supervisor, the Shift Foreman will perform the following actions:
 - 5.1.1 Refer to Attachment 1 and check off the name of the caller and his/her social security number.
 - 5.1.2 Ensure that the social security number given matches that listed. If the caller cannot supply the correct social security number, do not proceed.

*Denotes "Use" Reference

- 5.1.3 If a person other than those listed requests a call out, contact the Nuclear Shift Supervisor/Emergency Director to verify that the call out should proceed.
- 5.1.4 Check off the groups to be placed on standby or mobilized.
- 5.1.5 Note the number where the On-Call Plant Supervisor can be contacted.
- 5.1.6 Note the date and time.
- 5.1.7 Initial the form.
- 5.2 The Shift Foreman will assign personnel as he/she deems necessary and instruct them to:
 - 5.2.1 Call the appropriate emergency personnel using call-out lists.
 - 5.2.2 Carefully read the appropriate message from the supplied message forms (See Attachments 2, 3, and 4).
 - 5.2.3 Note the time that notification occurs and the Estimated Time of Arrival (ETA), when applicable, directly on the call-out list.
 - 5.2.4 Date and initial all call-out list sheets used.
 - 5.2.5 Report inability to contact personnel.
- 5.3 If required personnel cannot be contacted, the Shift Foreman will assign a person to continue to attempt to make contact.
- 5.4 The Shift Foreman will contact the On-Call Plant Supervisor and report the status of notifications when attempts have been made to contact all required personnel. Report all personnel who could not be contacted.
- 5.5 The Shift Foreman will file used call-out lists and notification forms for reuse and/or transfer to the Supervisor, Radiological Emergency Response Preparedness. Call-out lists will only be reused when the status of the same incident is escalated or de-escalated.

ENRICO FERMI 2 - DISPATCH AND
REPORT CENTER NOTIFICATION FORM

1. Authorized Callers (Check One)

_____ F. Abramson
_____ H. Arora
_____ R. Lenart
_____ J. Nyquist
_____ G. Overbeck
_____ J. Plona
_____ E. Preston
_____ R. Szkotnicki
_____ L. Trapp
_____ Other - Name: _____ Authorized by: _____

2. Mobilize (Check as Requested)

Group _____
Group _____
Group _____
Group _____
Group _____
Group _____
Group _____

3. Place on Standby (Check as Requested)

Group _____
Group _____
Group _____
Group _____
Group _____
Group _____
Group _____

4. Number where On-Call Plant Supervisor can be reached: _____
5. Shift Foreman initials: _____
6. Time Stamp this Form: _____

MOBILIZATION MESSAGE FORM

(Allow ten rings before moving on to the next person on the list.)

May I speak to _____?

My name is _____ of the Detroit Division Dispatch and Report Center.

This is a drill .

This is not a drill _____.

The Emergency Director at Fermi 2 has requested that you report immediately to your emergency station. At what time do you estimate your arrival at your emergency station?

This is a drill _____.

This is not a drill _____.

Thank you. Goodbye.

Note the time of the call and the Estimated Time of Arrival (ETA) directly on the call-out list following the name of the person contacted.

STANDBY MESSAGE FORM

(Allow ten rings before moving on to the next person on the list.)

May I speak to _____?

My name is _____ of the Detroit Division Dispatch and Report Center.

This is a drill _____.

This is not a drill _____.

The Emergency Director at Fermi 2 has requested that you be placed on standby.

Remain available and be prepared to report until otherwise instructed.

This is a drill _____.

This is not a drill _____.

Thank you. Goodbye.

Note the time of the call directly on the call-out list following the name of the person contacted.

CANCEL STANDBY MESSAGE FORM

May I speak to _____?

My name is _____ of the Detroit Division Dispatch and Report

Center. The Emergency Director at Fermi 2 has requested that the standby

be cancelled. I repeat, the standby has been cancelled. Thank you.

Goodbye.

Note the time of the call directly on the call-out list following the name of the person contacted.

END

Attachment 4
Page 1 of 1

ENRICO FERMİ ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SUBSEQUENT NOTIFICATIONS

RECORD OF APPROVAL AND CHANGES

Prepared by Michael J. Cooley June 7, 1983
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E.H. Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/L + 8/23/83
OSRO Chairman/Alternate Date
Approved by D/L + 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: SUBSEQUENT NOTIFICATIONS

Prepared by	<u>Michael J. Cooley</u>	<u>June 7, 1983</u>
		Date
Recommended by	<u>Donald J. MacKenzie</u>	<u>6-30-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	<u>7-7-83</u>
	Community & Government Affairs	Date
Recommended by	<u>J. P. Cooper</u>	<u>6-30-83</u>
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Recommended by	<u>Levy E. Schuman</u>	<u>6/30/83</u>
	Licensing	Date
Recommended by	<u>Mahmud Syed, M.D.</u>	<u>6/30/83</u>
	Medical Staff	Date
Recommended by	<u>James J. Brania</u>	<u>6/30/83</u>
	Nuclear Administration	Date
Recommended by	<u>Mygg R. Durbak</u>	<u>6-30-83</u>
	Nuclear Production	Date
Recommended by	<u>E. Ward Jones</u>	<u>6/30/83</u>
	Nuclear Training	Date
Recommended by	<u>Barbara A. D. D. D. D.</u>	<u>6-30-83</u>
	Public Information	Date
Recommended by	<u>Stuart H. Zech</u>	<u>6-30-83</u>
	Security	Date
Recommended by	<u>Wanda L. D. D. D.</u>	<u>6/30/83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Randazzo</u>	<u>6/30/83</u>
	RERP Committee Chairperson	Date

Revision
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RERP Committee
Chairperson Approved

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1.0 Purpose

To prescribe actions for personnel who, after being contacted by Detroit Division Dispatch and Report Center, are responsible for contacting additional emergency personnel.

2.0 Applicability

This procedure will be used by personnel responsible for the notification of others following initial contact.

3.0 References

Detroit Division Dispatch and Report Center Emergency Notifications (EP-292).

4.0 General Information

Persons assigned to the functional positions responsible for initiating further notifications in Section 5.0 of this procedure will initially be contacted by Detroit Division Dispatch and Report Center.

5.0 Procedure

5.1 Emergency Operations Facility (EOF) Coordinator will mobilize a Secretary.

5.2 Radiological Emergency Team (RET) Supervisor A will mobilize:

5.2.1 RET Supervisor B.

5.2.2 Two RET Coordinators.

5.2.3 One RET Equipment Coordinator.

5.3 RET Supervisor B will:

5.3.1 Mobilize a minimum of eight (8), but preferably twelve (12) RET members.

5.3.2 Report back to the RET Supervisor A when notifications have been completed.

5.4 RadChem Advisor will mobilize:

5.4.1 One Emergency Lab Technician.

5.4.2 One RadChem Communicator.

5.5 Radiation Protection Advisor will mobilize one Assistant Radiation Protection Advisor.

5.6 Operational Support Center (OSC) Support

- 5.6.1 Additional maintenance personnel will be contacted by the OSC Coordinator or the Assistant OSC Coordinator, (See Section 5.6.4.)
- 5.6.2 Additional Health Physics personnel will be mobilized by the Senior Health Physics Technician or Supervisor on duty. If there are no Health Physics personnel available to begin this notification, the Nuclear Supervising Operator assigned to the Tagging Center will contact Health Physics support personnel.
- 5.6.3 Additional Operators and Instrumentation and Control personnel will be contacted by the Nuclear Supervising Operator assigned to the Tagging Center.
- 5.6.4 The Administration and Support Coordinators in the Technical Support Center (TSC) will assume responsibility for notification of personnel listed in Sections 5.6.1, 5.6.2 and 5.6.3 whenever the TSC is activated.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: TECHNICAL SUPPORT CENTER: ACTIVATION

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 08/09/83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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Typed by: Kristy Bowman (RERP #11)

Revised by: Karen Nutt

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: TECHNICAL SUPPORT CENTER: ACTIVATION

Prepared by	<u>E. F. Madsen</u>	<u>08/02/83</u>
		Date
Recommended by	<u>Donald Ernie Kenzie</u>	<u>9-27-83</u>
	Communication System Division	Date
Recommended by	<u>James L Jones</u>	<u>9-29-83</u>
	Community & Government Affairs	Date
Recommended by	<u>Ray E. Schumron</u>	<u>9-30-83</u>
	Licensing	Date
Recommended by	<u>Mahmoud Syed M.D.</u>	<u>9/27/83</u>
	Medical Staff	Date
Recommended by	<u>James S. Brana</u>	<u>9/27/83</u>
	Nuclear Administration	Date
Recommended by	<u>M. Schubert</u>	<u>9-30-83</u>
	Nuclear Production	Date
Recommended by	<u>Karen K. Thompson</u>	<u>9-27-83</u>
	Nuclear Training	Date
Recommended by	<u>Paul Reffner</u>	<u>9-27-83</u>
	Public Information	Date
Recommended by	<u>Donald E. Smith for all</u>	<u>9-27-83</u>
	Security	Date
Recommended by	<u>M. L. Vermeulen/E</u>	<u>9-27-83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Raudasgo</u>	<u>9/27/83</u>
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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1.0 Purpose

To prescribe procedures for activation of the Technical Support Center (TSC), and to delineate the initial responsibilities of the Emergency Director (Superintendent-Nuclear Production or alternate) and the Administration and Support Coordinator.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section F (Emergency Communications), Section H (Emergency Facilities and Equipment), Section I (Accident Assessment), and Section M (Reentry and Recovery)
- 2.2 Functional Criteria for Emergency Response Facilities (NUREG 0696), Section 2 (Technical Support Center)
- 2.3 Classification of Emergencies (EP-101)
- 2.4 Unusual Event (EP-102)
- 2.5 Alert (EP-103)
- 2.6 Site Area Emergency (EP-104)
- 2.7 General Emergency (EP-105)
- 2.8 On-Site Radiological Emergency Team: Activation (EP-201-1)
- 2.9 On-Site Radiological Emergency Team: Functions (EP-201-2)
- 2.10 Emergency Notifications from the Control Room, Technical Support Center or Emergency Operations Facility (EP-290)
- 2.11 Fermi 2 On-Call Plant Supervisor: Emergency Notifications (EP-291)
- 2.12 Detroit Division Dispatch and Report Center: Emergency Notifications (EP-292)
- 2.13 Subsequent Notifications (EP-293)

3.0 Entry Conditions

The TSC is activated for the following classes of emergencies:

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

4.0 General Information

The TSC is equipped to enable the TSC staff to assess plant status and make recommendations to the Emergency Director concerning plant operations, corrective actions, and recommended protective actions to responsible off-site authorities.

5.0 Immediate Actions

5.1 Upon notification to activate the TSC, a member of the Nuclear Security Force shall report to the TSC and shall:

5.1.1 Energize the following equipment, if not already energized:

1. Lighting system
2. HVAC system

5.1.2 Check the area radiation monitor and Continuous Air Monitor (CAM), and if either of these are alarming, contact the Emergency Director (request assistance of Health Physics personnel as necessary).

5.1.3 If either of the above conditions exist, the Emergency Director shall:

1. Designate the functions and personnel that will be relocated to the Control Room.
2. Direct all remaining functions and personnel to report to the EOF or other alternate location as designated by the Emergency Director.
3. Have signs hung on the TSC doors directing personnel to proceed to the alternate locations.

5.2 The Superintendent-Nuclear Production (or alternate) upon arrival shall proceed directly to the Control Room or, alternatively, proceed directly to the TSC.

5.2.1 Upon arrival in the Control Room:

1. Review the current status of the emergency including:
 - o Background information leading up to the emergency.

- o Indications and suspected cause of the emergency, including existing hazards to the personnel, damage to plant systems, instrumentation, and other equipment; and radiation levels or releases.
 - o Classification of the emergency.
 - o Corrective actions taken.
 - o Status of execution of the steps in EP-101 (Classification of Emergencies) and other Emergency Preparedness Plan Implementing Procedures, especially activation of Emergency Teams and performing required notifications under EP-290 (Emergency Notifications).
 - o Present plant lineups, and plant evolutions or operations in progress.
 - o Evolutions or operations which have been directed or are planned, but not yet carried out.
 - o Off-site dose assessment and protective actions recommended to off-site authorities.
2. Relieve the Emergency Director of his responsibilities, and ensure that the Emergency Organization and plant personnel are aware that the Superintendent-Nuclear Production (or alternate) is now the Emergency Director. Notification will be through the plant HiCom system or telephones as applicable. (After being relieved as Emergency Director, the Nuclear Shift Supervisor or Assistant Shift Supervisor shall retain responsibilities and authority in the Control Room.)
 3. Direct the Administration and Support Coordinator to establish the TSC.
 4. Report to the TSC when informed by the Administration and Support Coordinator that the TSC is being activated.
 5. Review the status of the emergency with TSC personnel.
 6. Inform all TSC and plant personnel that the TSC is functional (notification will be via the plant HiCom system or telephones as applicable).

5.2.2 Alternatively, upon arrival in the TSC:

1. Direct the Administrator and Support Coordinator to establish the TSC.
2. Contact the Emergency Director by telephone and obtain the status of the emergency as outlined in Section 5.2.1, Item 1, of this procedure.
3. Relieve the Emergency Director of his responsibilities when informed by the Administration and Support Coordinator that the TSC is functional.
4. Inform all TSC and plant personnel that the Superintendent-Nuclear Production (or alternate) is now the Emergency Director and the TSC is functional. (Notification will be through the plant HiCom system or telephones as applicable.)

5.3 The Administration and Support Coordinator shall:

- 5.3.1 Activate the TSC staff, or ensure that they have already been activated according to EP-290, (Emergency Notifications).

- 5.3.2 Supervise the establishment of the TSC. The TSC should be functional within 60 minutes of activation.

NOTE: The subsequent steps of this procedure assume that the TSC functions have not been moved to an alternate location.

Personnel are assigned to the TSC staff in accordance with EP-110.

- 5.3.4 Determine that:

1. The emergency communications equipment is functional. If not, contact the Communications Representative in the facility.
2. Equipment and supplies are available.
3. The Information Center is accessible by TSC personnel.

- 5.3.5 Assure that a security checkpoint and Contamination Control Station is established at the entrance to the TSC.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING

Title: TECHNICAL SUPPORT CENTER: SUPPORT FUNCTIONS

RECORD OF APPROVAL AND CHANGES

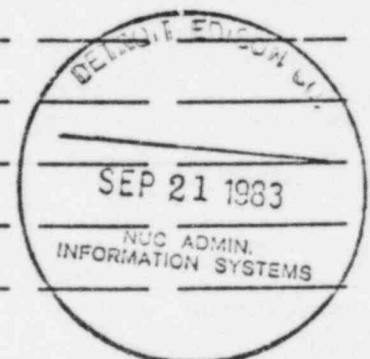
Prepared by K. Connell 04/13/83
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E H Newton 8-23-83
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/Lt 8/23/83
OSRO Chairman/Alternate Date
Approved by D/Lt 8/23/83
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: TECHNICAL SUPPORT CENTER: SUPPORT FUNCTIONS

Prepared by	K. Connell	4/13/83 Date
Recommended by	<i>Donald S. MacKenzie</i> Communication System Division	6-30-83 Date
Recommended by	<i>James L Jones</i> Community & Government Affairs	7-7-83 Date
Recommended by	<i>J. Cooper</i> Insurance	6-30-83 Date
Recommended by	<i>Larry E. Scherman</i> Licensing	6/30/83 Date
Recommended by	<i>Mahmoud Syed, M.D.</i> Medical Staff	6/30/83 Date
Recommended by	<i>James S. Paine</i> Nuclear Administration	6/30/83 Date
Recommended by	<i>Greg H. Decker</i> Nuclear Production	6-30-83 Date
Recommended by	<i>Samuel T. Moore</i> Nuclear Training	6/30/83 Date
Recommended by	<i>Barthelme John Rogers</i> Public Information	6-30-83 Date
Recommended by	<i>Stuart H. Zisch</i> Security	6-30-83 Date
Recommended by	<i>Marvin Hernandez</i> Wayne-Monroe Division	6/30/83 Date
Approved by	<i>Thomas Randazzo</i> RERP Committee Chairperson	6/30/83 Date

Revision
No.

RERP Committee
Chairperson Approved

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1.0 Purpose

To delineate the responsibilities and actions of the staff in the Technical Support Center (TSC).

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section F (Emergency Communications), Section H (Emergency Facilities and Equipment), Section I (Accident Assessment), Section J (Protective Response), Section K (Radiological Exposure Control), and Section M (Reentry and Recovery Planning and Post-Accident Operations Planning)
- 2.2 Functional Criteria for Emergency Response Facilities (NUREG 0696) Section 2 (Technical Support Center)
- 2.3 Classification of Emergencies (EP-101)
- 2.4 Unusual Event (EP-102)
- 2.5 Alert (EP-103)
- 2.6 Site Area Emergency (EP-104)
- 2.7 General Emergency (EP-105)
- 2.8 Organization and Responsibilities (EP-110)
- *2.9 Technical Support Center - Activation (EP-301-1)
- 2.10 Manual Off-Site Radiological Dose Assessment Calculation Procedure - Airborne Releases - Overview (EP-540)
- 2.11 Manual Off-Site Dose Assessment Calculation Procedure - Waterborne Releases (EP-541)
- *2.12 Radiation, Contamination, and Airborne Guides and Limits (61.000.05)
- *2.13 Selection and Use of Respiratory Protection Equipment (65.000.20)
- *2.14 Emergency Exposure Limits (69.000.15)

3.0 Entry Conditions

The TSC is activated for the following classes of emergencies:

- 3.1 Alert

*Denotes "Use" Reference

3.2 Site Area Emergency

3.3 General Emergency

4.0 General Information

4.1 The TSC is equipped to enable the TSC staff to assess plant status and make recommendations to the Emergency Director concerning plant operations corrective actions, and protective actions.

4.2 TSC Data Systems

4.2.1 TSC data systems are available for the following:

1. Reviewing the accident sequence.
2. Determining appropriate mitigating actions.
3. Evaluating the extent of damage to plant systems.
4. Determining plant status during recovery.

4.2.2 TSC data available for evaluation shall consist of the following:

1. Meteorological conditions.
2. Radiological release information.
3. Plant parameters significant for evaluating the emergency situation.

4.2.3 The TSC staff is responsible for monitoring the data available in step 4.2.2 and providing recommendations to the Emergency Director concerning plant operations, corrective actions, and protective actions.

5.0 Procedure

5.1 As TSC staff arrive they are assigned tasks which will provide the Emergency Director with the information and support required in order to evaluate and mitigate the emergency such as:

- 5.1.1 Plant status and dynamics prior to and during the accident.
- 5.1.2 Performance of accident mitigation functions.
- 5.1.3 Current status and trend of the accident.

- 5.1.4 Damage to the plant systems and equipment.
- 5.1.5 Status of emergency operations (including personnel activity in the plant).
- 5.1.6 Magnitude of any radiological release to the environment.
- 5.1.7 Prevailing meteorological status.
- 5.1.8 Projected levels of radioactivity resulting from an airborne or waterborne release.
- 5.1.9 Potential impact of radiological hazards on public health and safety.
- 5.1.10 Assume duties of On-Call Plant Supervisor.

5.2 Administration and Support Coordinator

The Administration and Support Coordinator shall supervise the establishment of the TSC, assign personnel to complete the steps necessary to activate the TSC in accordance with EP-301-1 (TSC: Activation), and shall also be responsible for the following:

- 5.2.1 Coordinating provisions for logistical support for emergency personnel
- 5.2.2 Advising the Emergency Director and Nuclear Operations Staff on matters relating to personnel and equipment.
- 5.2.3 Supervising the status board updaters, clerks, communicators, and secretaries in the performance of their duties.
- 5.2.4 Providing work schedules for Nuclear Operations emergency response personnel.
- 5.2.5 Implementing communications to off-site Emergency Response Organizations.
- 5.2.6 Establishing and maintaining a long term record file for the emergency. This record file shall be maintained as a legal record of the emergency including, as a minimum, times of notifications of Federal, State and local agencies, all notification forms, all chronological logs of the emergency maintained by the individuals assigned to the TSC, and an overall chronological log of all events occurring during the emergency.

5.3 The following personnel are assigned to the TSC and are responsible for carrying out their specific duties.

5.3.1 Emergency Director

1. Directing and coordinating the combined activities of Detroit Edison personnel in the Control Room, TSC, Operations Support Center (OSC), and elsewhere on owner-controlled property.
2. Initiating emergency classification assessment activities and, if appropriate, emergency dose projections.
3. Initiating appropriate notifications and protective action recommendations to persons/organizations responsible for implementing emergency measures. (Upon activation of the Emergency Operations Facility (EOF), the EOF Coordinator is the liaison to all off-site agencies).
4. Implementing the immediate on-site corrective and protective actions to bring the incident under control and mitigate its effect.
5. Issuing instructions to emergency response teams and ensuring that the appropriate procedures are being followed.
6. Requesting assistance of support organizations as necessary and ensuring continuity of on-site resources.
7. Ensuring that information to be released is accurate and communicated through proper channels.
8. Authorizing plant emergency workers to receive radiation doses in excess of normal 10CFR20 limits, if necessary. Emergency exposure limits are described in Health Physics Procedure 69.000.15 (Emergency Exposure Limits).

5.3.2 Technical Engineer

1. Providing recommendations to the Emergency Director concerning plant technical matters.
2. Providing technical support.
3. Providing work assignments for Technical and Engineering Groups.

5.3.3 Nuclear Safety Advisor

1. Advising the Emergency Director on engineering matters.
2. Providing work assignments for Nuclear Engineering support groups.

5.3.4 Radiation Protection Advisor

1. Monitoring TSC for airborne contamination.
2. Performing dose projections with assistance from the Environmental Assessment Team.
3. Dispatching on-site and off-site Radiological Emergency Teams in plant and off-site as required until the EOF is activated.
4. Evaluating results of environmental surveys until the EOF is activated.
5. Maintaining personnel exposure records.
6. Ensuring that radiation protection equipment (such as dosimetric devices, respiratory protection gear, and protective clothing) is issued and controlled.
7. Advising the Emergency Director concerning radiological protective actions.
8. Directing decontamination activities.
9. Providing work assignments for radiation protection personnel.

5.3.5 Environmental Assessment Team

1. Assessing meteorological conditions.
2. Evaluating results of off-site environmental surveys.
3. Performing both on-site and off-site dose assessment and projections.

5.3.6 Rad/Chem Advisor

1. Directing in-plant sampling activities.

2. Directing Radiochemistry Laboratory activities.
3. Advising the Emergency Director on radwaste processing, storage, and disposal.

5.3.7 Security Advisor

1. Ensuring that site security is maintained and appropriate contingency measures are implemented.
2. Ensuring that security and traffic control measures are in effect for on-site, including traffic direction during an evacuation.
3. Ensuring personnel accountability procedures are implemented in the event of a radiological emergency or the need for plant/site evacuation.
4. Maintaining security of the TSC.
5. Advising the Director - Nuclear Security and Emergency Director on matters related to Fermi security.

5.3.8 Quality Assurance Advisor

1. Assisting in preparation of specific emergency procedures as required.
2. Ensuring all quality assurance procedures applicable to the emergency are followed.

5.3.9 Support Engineers

Thermal Hydraulics, Mechanical, Electrical and Instrument and Control Engineers are responsible for advising the Nuclear Safety Advisor on technical plant matters.

5.3.10 TSC Communicator

1. Making any required notifications and communications as directed.
2. Notifying additional support personnel as directed.

5.3.11 Additional personnel are assigned to perform the following functions:

1. Updating status boards.
2. Providing administrative support such as typing, copying, and sending and filing messages.

5.4 If the emergency situation is such that the EOF must be activated, some functions carried out initially by the TSC staff shall be transferred to EOF Personnel.

5.4.1 Any off-site protective actions which have been planned or are in progress must be reported to the EOF Coordinator.

5.4.2 For off-site radiological monitoring and dose assessment the Radiation Protection Advisor shall:

1. Contact the Radiation Protection Coordinator in the EOF.
2. Report the status of off-site activities especially with regard to the following:
 - a. Radiological release information.
 - b. Meteorological data.
 - c. Surveys which have been performed.
 - d. Samples which have been taken.
 - e. If On-Site Radiological Emergency Team members have been dispatched off site.
3. Relay any additional data which the Radiation Protection Coordinator may require in order to assume off-site monitoring responsibilities.

5.5 Relocation of the TSC

5.5.1 If the airborne radioactivity levels in the TSC exceed the limits of Health Physics Procedure 61.000.05 (Radiation, Contamination, and Airborne Guides and Limits) at any time during the emergency:

1. All personnel shall don respiratory equipment in accordance with Health Physics Procedure 65.000.20 (Selection and Use of Respiratory Protection Equipment).

2. The Emergency Director shall transfer the TSC functions to alternate locations:
 - a. Some TSC support functions may be transferred to the Control Room.
 - b. Most TSC functions will be transferred to the EOF.

5.5.2 If area radiation levels exceed the designated limits, TSC support functions will be similarly transferred at the direction of the Emergency Director.

- 5.6 All personnel shall keep a chronological log of all activities performed by them during the emergency and any other significant events. These logs shall be forwarded to the Administration and Support Coordinator for inclusion into the long term records.
- 5.7 During shift change, chronological logs will be turned over to the new shift personnel. Personnel from the shift which is ending will also give new shift personnel a verbal summation of the situation and pass on to them any pertinent information. Shifts will be scheduled to overlap to ensure that there is sufficient time to enable a smooth transition of personnel.

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: OPERATIONAL SUPPORT CENTER: ACTIVATION

RECORD OF APPROVAL AND CHANGES

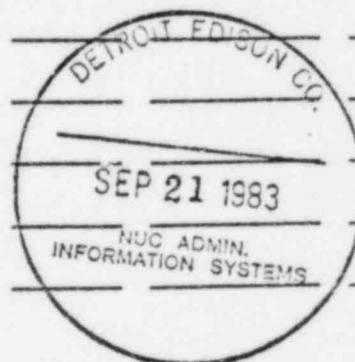
Prepared by T. Randazzo 7/5/83
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E H Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/L + 8/23/83
OSRO Chairman/Alternate Date
Approved by D/L + 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: OPERATIONAL SUPPORT CENTER: ACTIVATION

Prepared by	<u>T. Randazzo</u>	<u>7/05/83</u>
		Date
Recommended by	<u>Donald F. MacKenzie</u>	<u>7-14-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	<u>7-14-83</u>
	Community & Government Affairs	Date
Recommended by	<u>N/A (T. Randazzo)</u>	<u>7-18-83</u>
	Insurance	Date
Recommended by	<u>Larry E. Scherman</u>	<u>7-19-83</u>
	Licensing	Date
Recommended by	<u>Mahmud Syed M.D.</u>	<u>7/14/83</u>
	Medical Staff	Date
Recommended by	<u>James S. Brainer</u>	<u>7/14/83</u>
	Nuclear Administration	Date
Recommended by	<u>Mary M. Doherty</u>	<u>7-14-83</u>
	Nuclear Production	Date
Recommended by	<u>Edward J. Bandy</u>	<u>7-14-83</u>
	Nuclear Training	Date
Recommended by	<u>Burt Kettner</u>	<u>7-14-83</u>
	Public Information	Date
Recommended by	<u>Michael J. Sullivan</u>	<u>7/14/83</u>
	Security	Date
Recommended by	<u>Maurice F. Vermeulen</u>	<u>7/14/83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Randazzo</u>	<u>7/14/83</u>
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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The following is a list of "laters" contained in this procedure. The responsible Section Head during subsequent revisions will update or remove this "later" sheet.

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Layout of the Alternate Operational Support Center	Enclosure 2

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Enclosures

Layout of the Operational
Support Center. Enclosure 1

Layout of the Alternate Operational
Support Center. Enclosure 2

Example of List of Emergency
Equipment and Documents Enclosure 3

1.0 Purpose

To prescribe the procedures for activation of the Operational Support Center (OSC).

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section F (Emergency Communications), and Section H (Emergency Facilities and Equipment)
- 2.2 Unusual Event (EP-102)
- 2.3 Alert (EP-103)
- 2.4 Site Area Emergency (EP-104)
- 2.5 General Emergency (EP-105)
- 2.6 Operational Support Center: Support Functions (EP-302-2)
- 2.7 Emergency Equipment Inventory (EPA-5)

3.0 Entry Conditions

- 3.1 The OSC is activated for any of the following classes of emergencies:
 - 3.1.1 Unusual Event (May be used as an assembly area to provide necessary support personnel).
 - 3.1.2 Alert.
 - 3.1.3 Site Area Emergency.
 - 3.1.4 General Emergency.

4.0 General Information

The OSC is the designated location where support personnel report for emergency assignments (see Enclosure 1). The location of the alternate OSC is the assembly area adjacent to the Machine Shop on the first floor of the Turbine Building, just outside of the Control Room (see Enclosure 2).

5.0 Immediate Actions

- 5.1 Upon declaration of an emergency, the following personnel, if activated, shall report to, and be dispatched from the OSC:

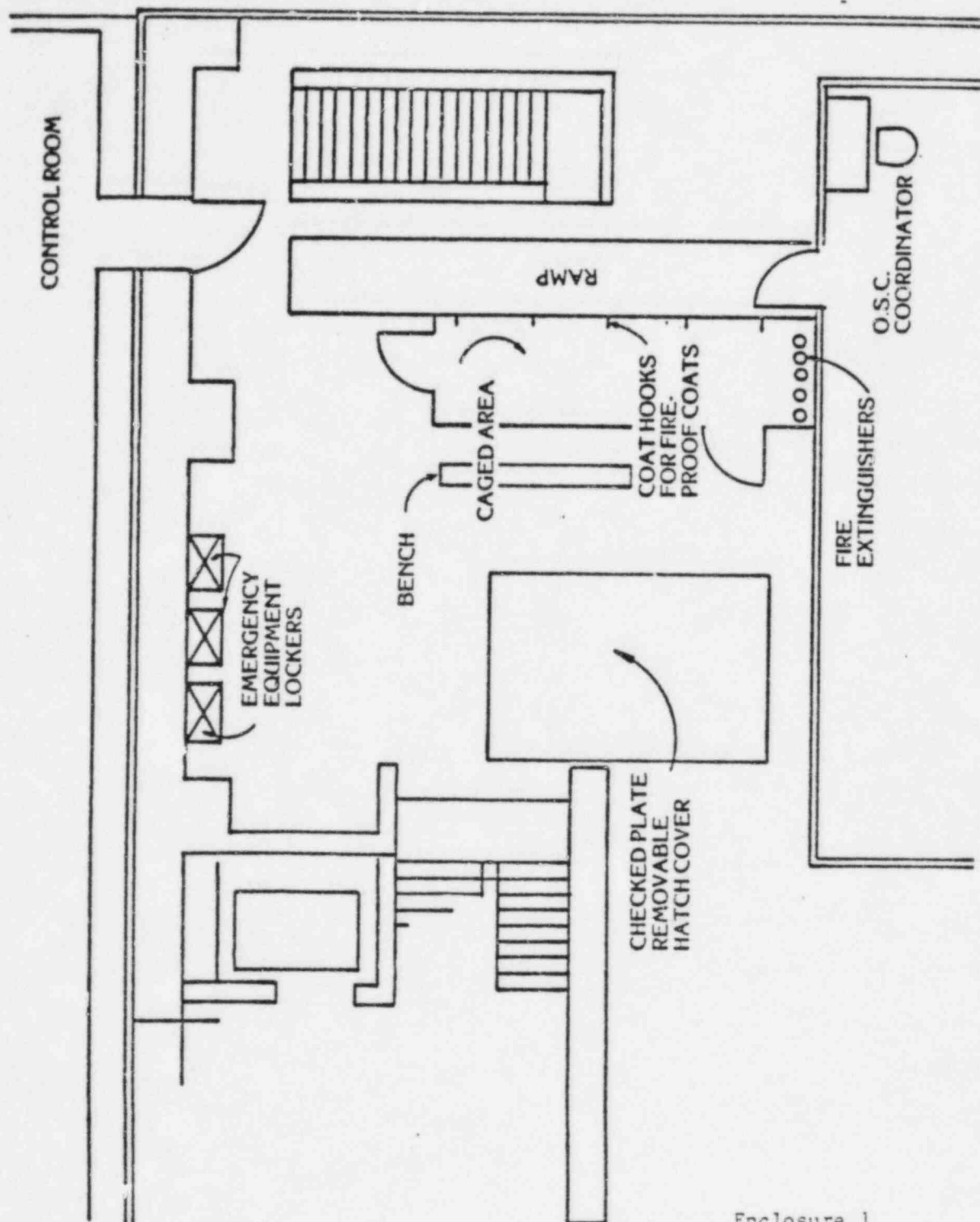
- 5.1.1 Fire Brigade.
 - 5.1.2 Damage Control and Rescue Team.
 - 5.1.3 On-Site Radiological Emergency Team.
 - 5.1.4 On-Site Personnel Monitoring Team.
 - 5.1.5 Instrument and Control Technicians.
 - 5.1.6 Engineers (not specifically assigned other functions in the Control Room or in an Emergency Center).
 - 5.1.7 General maintenance personnel.
 - 5.1.8 Off-shift personnel called in to support emergency efforts.
 - 5.1.9 On-shift personnel not assigned during emergencies.
- 5.2 The Maintenance Engineer (or alternate) shall assume the role of OSC Coordinator and shall perform the following:
- 5.2.1 On arrival, report to the Emergency Director that the OSC is being activated.
 - 5.2.2 Ensure phone lines are operational.
 - 5.2.3 When the phone lines are checked and surveys completed, report to the Emergency Director that the OSC has been activated.
 - 5.2.4 Organize, assign team leaders and dispatch emergency teams.
 - 5.2.5 Select a person to act as the Assistant OSC Coordinator for team formation and communications as needed.
 - 5.2.6 Assist in providing replacement emergency equipment and necessary parts and support for emergency teams.
- 5.3 In the event that the OSC becomes uninhabitable, the OSC Coordinator shall, at the direction of the Emergency Director, relocate OSC personnel to the alternate OSC (Machine Shop) or other location and establish this as the new assembly and staging area. When the alternate OSC is established, report to the Emergency Director that the alternate OSC is established.

6.0 Follow-Up Actions

The OSC Coordinator shall:

- 6.1 Keep the Emergency Director informed as to the status of the OSC.
- 6.2 Keep the Emergency Director informed as to the status of jobs being performed by Emergency Team members and other personnel assigned to the OSC.
- 6.3 Make recommendations to the Emergency Director concerning additional support personnel required.
- 6.4 Continue to support the Emergency Team Leaders by providing additional personnel and equipment, as necessary.

LAYOUT OF THE OPERATIONAL SUPPORT CENTER (OSC)



LAYOUT OF THE ALTERNATE OPERATIONAL
SUPPORT CENTER (OSC)

(LATER)

EXAMPLE OF
LIST OF EMERGENCY EQUIPMENT AND DOCUMENTS
OPERATIONAL SUPPORT CENTER

<u>ITEM</u>	<u>QUANTITY</u>
1. Fire protection clothing (assorted sizes):	
a. Yellow turnout coats	12
b. Boots	12 pr.
c. Fire-fighter gloves	12 pr.
d. Fire hats	12
e. Fire-resistant pants with suspenders	12 pr.
2. Portable lights (with extra sets of batteries)	
a. Flashlights (5 cell)	5
b. Six volt lantern	1
3. Portable extinguishers:	
a. CO2	3
b. Chemical (40# ansul)	1
4. Scott Air Paks	
a. Without speak-easy	8
b. With speak-easy	6
5. Scott Air Bottles	32
6. Hand Truck	1
7. Trauma II First Aid Kit	1
8. Sets of Air Splints	2
9. Life Lines (50 ft)	4
10. Mask Cleaning solution with Bucket	1
11. MSA Air Bottles	4
12. Ear-Comm Units	7

EXAMPLE OF
LIST OF EMERGENCY EQUIPMENT IN FIRE PROTECTION
EQUIPMENT LOCKER

<u>ITEM</u>	<u>QUANTITY</u>
1. Fire axe	1
2. Wrecking bar	1
3. Canvas tarps	2
4. Bolt cutters	1
5. MSA Air Packs	5
6. MSA Air Bottles	6
7. Sets of Rain Gear	3
8. Small Valve Wrenches	2
9. Medium Valve Wrenches	2
10. Air Jack	1
11. Assorted Pliers, Screwdrivers and Fuse Pullers	
12. Administrative Supplies	

EXAMPLE OF
LIST OF EMERGENCY EQUIPMENT
IN FIRST AID AND STRETCHER LOCKERS

<u>ITEM</u>	<u>QUANTITY</u>
1. First Aid Kit	1
2. Bottles of O ₂	2
3. O ₂ Regulators	3
4. Blankets	4
5. Plastic Stokes Stretcher	2
6. Fire Extinguisher	
a. CO ₂	3
b. Chemical (40# ansul)	9

EXAMPLE OF
LIST OF EMERGENCY EQUIPMENT
IN HEALTH PHYSICS LOCKERS

<u>ITEM</u>	<u>QUANTITY</u>
1. Eberline RM14 (Frisker) or Ludlum 177 Frisker)	6
2. Eberline RO-2 (Dose rate meter)	6
3. Portal area radiation monitor	1
4. Protective clothing:	
a. Coveralls	30 pr.
b. Cloth hoods	30 pr.
c. Plastic shoe covers	30 pr.
d. Rubber shoe covers	30 pr.
e. Cotton glove liners	30 pr.
f. Rubber gloves	30 pr.
g. Surgeons' caps	30 pr.
5. Partial sets of protective clothing	
a. Pairs of gloves with cloth liners	50
b. Pairs of shoe covers	100
6. High Range Dosimeters	20
7. Air samples and filters/cartridges	5
a. Extra filter heads	15
b. Particulate filters	200
c. Silver zeolite cartridges	50
8. Dosimeter charger with extra batteries	2
9. Plastic bags	60
10. Survey maps	200
11. Boxes of smears	40

EXAMPLE OF
LIST OF EMERGENCY EQUIPMENT
IN HEALTH PHYSICS LOCKERS
(Cont'd)

<u>ITEM</u>	<u>QUANTITY</u>
12. Radiological barrier material	
a. Rope (150 ft. rolls)	10
b. Caution signs and assorted inserts	20
c. Step off pads	10
13. MSA SCBA with 10 extra bottles	5
14. Rolls of 2 in. masking tape	50
15. Full face respirators with extra filters	10
16. Flashlights	
a. Extra batteries	10
17. Potassium Iodide (packets)	5
18. 50 foot extension cords	2
19. Administrative supplies	1
20. Emergency Plan Implementing Procedures (1 set)	1

END

Enclosure 3
Page 5 of 5

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: OPERATIONAL SUPPORT CENTER: SUPPORT FUNCTIONS

RECORD OF APPROVAL AND CHANGES

Prepared by T. Randazzo 7/5/83
Date

Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date

Recommended by E H Newton 8-23-83
Supervisor - Operational Assurance/Delegate Date

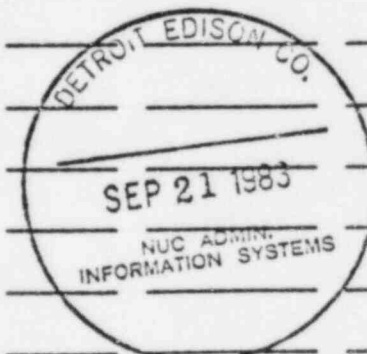
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/L + 8/23/83
OSRO Chairman/Alternate Date

Approved by D/L + 8/23/83
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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CONTROLLED

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: OPERATIONAL SUPPORT CENTER: SUPPORT FUNCTIONS

Prepared by	<u>T. Randazzo</u>	<u>7/5/83</u>
		Date
Recommended by	<u>Donald S. MacKenzie</u>	<u>7-14-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	<u>7-14-83</u>
	Community & Government Affairs	Date
Recommended by	<u>N/A (T. Randazzo)</u>	<u>7-18-83</u>
	Insurance	Date
Recommended by	<u>Larry E. Schuman</u>	<u>7-19-83</u>
	Licensing	Date
Recommended by	<u>Mahmud Sayed, M.D.</u>	<u>7/14/83</u>
	Medical Staff	Date
Recommended by	<u>James J. Davis</u>	<u>7/14/83</u>
	Nuclear Administration	Date
Recommended by	<u>Greg R. Deibel</u>	<u>7-14-83</u>
	Nuclear Production	Date
Recommended by	<u>Edward J. Dwyer</u>	<u>7-14-83</u>
	Nuclear Training	Date
Recommended by	<u>Butt Keffner</u>	<u>7-14-83</u>
	Public Information	Date
Recommended by	<u>Mark E. Gault</u>	<u>7/14/83</u>
	Security	Date
Recommended by	<u>Maurice L. Vermeulen</u>	<u>7/14/83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Randazzo</u>	<u>7/14/83</u>
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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4.0 General Information.....	1
5.0 Procedure.....	2

1.0 Purpose

To describe the functions of the Operational Support Center (OSC) and delineate the responsibilities and actions of the OSC staff.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section F (Emergency Communications), Section H (Emergency Facilities and Equipment)
- 2.2 Unusual Event (EP-102)
- 2.3 Alert (EP-103)
- 2.4 Site Area Emergency (EP-104)
- 2.5 General Emergency (EP-105)
- *2.6 Operational Support Center - Activation (EP-302-1)
- 2.7 Radiation, Contamination, and Airborne Guides and Limits (61.000.05)
- 2.8 Selection and Use of Respiratory Protective Equipment (65.000.20)

3.0 Entry Conditions

- 3.1 The OSC is activated for the following classes of emergencies:
 - 3.1.1 Unusual Event (May be used as an assembly area for support personnel).
 - 3.1.2 Alert.
 - 3.1.3 Site Area Emergency.
 - 3.1.4 General Emergency.

4.0 General Information

- 4.1 The OSC is staffed to provide coordination of personnel in support of on-site emergency response operations.
- 4.2 Emergency equipment is available in the OSC for use by emergency response teams assigned to the OSC. Additional equipment not provided in the OSC may be obtained from normal work stations.

5.0 Procedure

The OSC Coordinator will:

5.1 Activate the OSC in accordance with EP-302-1 (OSC: Activation).

5.2 Contact the Emergency Director and determine what assistance is required.

5.3 Perform the following:

5.3.1 Assign personnel to emergency teams, to support functions required by the Emergency Director.

1. Provide augmentation and support to the Fire Brigade, as needed.
2. Organize the Damage Control and Rescue Team to assess plant damage, repair damaged or malfunctioning equipment, assist injured personnel or search for missing personnel.
3. Dispatch the On-Site Radiological Emergency Team (RET), as directed.
4. Dispatch and support the Personnel Monitoring Team, when required.
5. Provide Health Physics support to the OSC teams, as needed.
6. Dispatch Post-Accident Sampling Team as directed by the Emergency Director.

5.3.2 Augment Emergency Teams using personnel assembled in the OSC or in the Alternate OSC (assembly area near the Machine Shop).

5.3.3 Mobilize or place on standby off-shift personnel, during back shifts, to supplement OSC teams, as needed.

5.3.4 Assist in providing replacement emergency equipment and necessary parts and support for emergency damage repair.

5.3.5 Keep the Emergency Director informed as to the status of jobs being performed by Emergency Team members and other personnel assigned to the OSC.

- 5.3.6 Keep personnel assigned to the OSC updated as to the overall status of the emergency.
- 5.3.7 Establish long-term staffing plans for the OSC to provide 24 hour coverage for the duration of the emergency.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: EMERGENCY OPERATIONS FACILITY: ACTIVATION

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 9/20/83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Nuc. Prod. Approved	Date
1	_____	_____	_____	_____	*	_____	_____	_____
2	_____	_____	_____	_____	*	_____	_____	_____
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8	_____	_____	_____	_____	*	_____	_____	_____

Typed by: Nancy Young (RERP 9)
Revised by: Karen Nutt

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: EMERGENCY OPERATIONS FACILITY: ACTIVATION

Prepared by	<u>E. F. Madsen</u>	<u>9/20/83</u>
		Date
Recommended by	<u>Donald J. MacKenzie</u>	<u>9-27-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	<u>9-29-83</u>
	Community & Government Affairs	Date
Recommended by	<u>Larry E. Schuman</u>	<u>9-30-83</u>
	Licensing	Date
Recommended by	<u>Malimud Syed, M.D.</u>	<u>9/27/83</u>
	Medical Staff	Date
Recommended by	<u>James J. Liana</u>	<u>9/27/83</u>
	Nuclear Administration	Date
Recommended by	<u>W. Schubert</u>	<u>9-30-83</u>
	Nuclear Production	Date
Recommended by	<u>Karen K. Thompson</u>	<u>9-27-83</u>
	Nuclear Training	Date
Recommended by	<u>Burt Weppner</u>	<u>9-27-83</u>
	Public Information	Date
Recommended by	<u>W. L. G. G. G. G. G.</u>	<u>9-27-83</u>
	Security	Date
Recommended by	<u>M. L. Vermeulen / E</u>	<u>9-27-83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas R. Dargatzis</u>	<u>9/27/83</u>
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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1.0 Purpose

To describe the steps for activation of the Emergency Operations Facility (EOF), and to delineate the responsibilities and actions of the EOF Coordinator.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section F, (Emergency Communications), and Section H (Emergency Facilities and Equipment)
- 2.2 Functional Criteria for Emergency Response Facilities (NUREG-0696), Section 4 (Emergency Operations Facility)
- 2.3 Site Area Emergency (EP-104)
- 2.4 General Emergency (EP-105)
- 2.5 Emergency Notifications from the Control Room, Technical Support Center and Emergency Operations Facility (EP-290)
- 2.6 Emergency Operations Facility: Support Functions (EP-303-2)
- 2.7 Alternate Emergency Operations Facility: Activation (EP-304-1)
- 2.8 Alternate Emergency Operations Facility: Support Functions (EP-304-2)
- 2.9 Radiation, Contamination, and Airborne Guides and Limits (61.000.05)
- 2.10 Selection and Use of Respiratory Protection Equipment (65.000.20)

3.0 Entry Conditions

The EOF is activated for the following classes of emergencies:

- 3.1 SITE AREA EMERGENCY
- 3.2 GENERAL EMERGENCY

4.0 General Information

The EOF serves the following functions:

- 4.1 Command post for the coordination of the emergency response actions by off-site organizations.

- 4.2 Coordination of off-site radiological and environmental assessments.
 - 4.3 Determining and recommending protective actions for the public.
 - 4.4 Coordination of information provided to and by the Joint Public Information Center for public dissemination.
 - 4.5 Providing support to the TSC on Nuclear Operations matters.
- 5.0 Immediate Actions
- 5.1 Upon activation of the EOF, a member of the Nuclear Security Force shall report to the EOF, perform those functions necessary to gain entrance to the facility and energize the lighting system, check the area radiation level and the airborne contamination level. If either of the preceding are alarming:
 - 5.1.1 Inform the Emergency Director of the condition of the EOF. The Emergency Director shall direct that EOF functions be moved to the Alternate EOF.
 - 5.1.2 Hang signs directing personnel to proceed to the alternate EOF at Wayne-Monroe Division Headquarters.
 - 5.1.3 Proceed to the Alternate EOF location and activate the Alternate EOF in accordance with EP-304-1 (Alternate EOF: Activation).
 - 5.2 Upon arrival at the EOF, the Manager, Wayne-Monroe Division (or alternate) shall assume the role of Emergency Operations Facility Coordinator (EOF Coordinator) and shall perform the following:
 - 5.2.1 Contact the Emergency Director (in the Control Room or Technical Support Center).
 - 5.2.2 Review the current status of the emergency including but not limited to:
 - 1. Background information leading up to the emergency.
 - 2. Indications and suspected cause of the emergency, including existing hazards to personnel, damage to plant systems, instrumentation, and other equipment; and radiation levels or releases.
 - 3. Corrective actions taken.
 - 4. Present plant lineups, and plant evolutions or operations in progress.

5. Evolutions or operations which have been directed or are planned but not yet carried out.
6. Status notifications to off-site Emergency Organizations.
7. Status of activating the On-Site Radiological Emergency Team off-site and the status of off-site samples and surveys.
8. Status of dose assessments performed and protective actions taken on-site or recommended to the public.
9. Status of any press releases or other public information which has been released.

5.2.3 Upon arrival in the EOF:

1. Direct the EOF Administrator to establish the EOF according to Step 5.4 of this procedure.
2. Assume the responsibilities of the EOF Coordinator and relieve the TSC when informed by the EOF Administrator that the EOF is functional.
3. Inform all EOF personnel that the EOF is functional.

5.3 The EOF Administrator shall:

5.3.1 Activate the EOF staff, or ensure that they have already been activated according to EP-290.

5.3.2 Supervise the establishment of the EOF. The EOF should, when possible, be functional within 60 minutes of activation.

NOTE: The subsequent steps of this procedure assume that the EOF functions have not been moved to an alternate location.

5.3.3 Determine that:

1. The emergency communications circuits and equipment are functional.
2. Equipment and supplies are available.
3. The EOF Information Center is accessible by EOF personnel.

- 5.3.4 Assure that a security checkpoint and contamination control station be established at the entrance to the EOF.
- 5.3.5 Inform the EOF Coordinator that the EOF is functional.
- 5.4 Upon establishment of the EOF, the EOF Coordinator shall:
 - 5.4.1 Maintain close contact with the Emergency Director in order to keep apprised of the plant status and of actions being carried out by the Emergency Director.
 - 5.4.2 Be alert to potential off-site consequences of the emergency.
 - 5.4.3 Supervise the functioning of the EOF staff.
 - 5.4.4 Coordinate activities for off-site samples and surveys with the Radiation Protection Coordinator.
 - 5.4.5 Keep the Emergency Officer informed of the activities of the EOF staff, particularly with regard to off-site dose projections and recommended protective actions.
 - 5.4.6 With the approval of the Emergency Officer, recommend protective measures to off-site response organizations based on the results of off-site dose projections.
 - 5.4.7 Keep the Emergency Director apprised of actions taken off-site and of consequences off-site.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: EMERGENCY OPERATIONS FACILITY: SUPPORT FUNCTIONS

RECORD OF APPROVAL AND CHANGES

Prepared by K. Connell 05/03/83
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E. H. Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

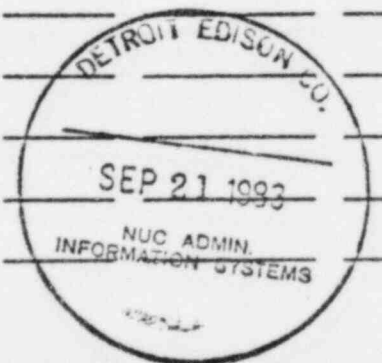
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/L T 8/23/83
OSRO Chairman/Alternate Date
Approved by D/L T 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLANT IMPLEMENTING PROCEDURE

Title: EMERGENCY OPERATIONS FACILITY: SUPPORT FUNCTIONS

Prepared by	<u>K. Connell</u>	<u>05/03/83</u> Date
Recommended by	<u>Donald J. Mac Kenzie</u> Communication System Division	<u>6-30-83</u> Date
Recommended by	<u>James L. Jones</u> Community & Government Affairs	<u>7-7-83</u> Date
Recommended by	<u>J. P. Corbin</u> Insurance	<u>6-30-83</u> Date
Recommended by	<u>Larry E. Schuman</u> Licensing	<u>6/30/83</u> Date
Recommended by	<u>Mahmoud Syed, M.D.</u> Medical Staff	<u>6/30/83</u> Date
Recommended by	<u>James J. Paine</u> Nuclear Administration	<u>6/30/83</u> Date
Recommended by	<u>Shipp A. Smith</u> Nuclear Production	<u>6-30-83</u> Date
Recommended by	<u>William J. ...</u> Nuclear Training	<u>6/30/83</u> Date
Recommended by	<u>Robert A. ...</u> Public Information	<u>6-30-83</u> Date
Recommended by	<u>Stuart H. Zeech</u> Security	<u>6-30-83</u> Date
Recommended by	<u>Wayne Monroe Division</u>	<u>6-30-83</u> Date
Approved by	<u>Thomas Randazzo</u> RERP Committee Chairperson	<u>6/30/83</u> Date
Revision No.	RERP Committee Chairperson Approved	Date

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1.0 Purpose

To delineate the responsibilities and actions of the Emergency Operations Facility (EOF) Staff.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section F (Emergency Communications), Section H (Emergency Facilities and Equipment), Section I (Emergency Facilities and Equipment), Section J (Protective Response), Section K (Radiological Exposure Control), and Section M (Reentry and Recovery Planning and Post-Accident Operations Planning)
- 2.2 Functional Criteria for Emergency Response Facilities (NUREG-0696), Section 4 (Emergency Operations Facility)
- 2.3 Site Area Emergency (EP-104)
- 2.4 General Emergency (EP-105)
- 2.5 Emergency Notifications from the Control Room, Technical Support Center or Emergency Operation Facility (EP-290)
- 2.6 Organization and Responsibilities (EP-110)
- 2.7 Emergency Operations Facility - Activation (EP-303-1)
- 2.8 Manual Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases - Overview (EP-540)
- 2.9 Manual Off-Site Dose Assessment Calculational Procedure - Waterborne Releases (EP-541)

3.0 Entry Conditions

The EOF is activated for the following classes of emergencies:

- 3.1 Site Area Emergency.
- 3.2 General Emergency.

4.0 General Information

The EOF serves the following functions:

- 4.1 Command post for the coordination of the emergency response actions by off-site organizations.
- 4.2 Coordination of off-site radiological and environmental assessments.

- 4.3 Determining and recommending protective actions for the public.
- 4.4 Coordination of information provided to the Joint Public Information Center (JPIC) for public dissemination.
- 4.5 Management of recovery operations.

5.0 Procedure

- 5.1 The responsibilities of personnel assigned to the EOF are described in the following:

5.1.1 Emergency Officer

The Emergency Officer is in overall charge of the emergency. Reporting to him are the Emergency Director, EOF Coordinator, Public Information Coordinator, and the Joint Public Information Center (JPIC) Administrator. His responsibilities include:

1. Ensuring that the full resources of Detroit Edison Company are made available as required to secure the plant systems and to minimize the effects of the incident on plant personnel and the public. This includes availability of other utilities and vendor resources.
2. Ensuring information communicated to the JPIC is accurate and directed through proper channels.
3. Communicating with Corporate Headquarters.
4. Establishing the long term emergency and recovery organizations.
5. Recommending off-site protective actions to Government Emergency Response Agencies.

5.1.2 EOF Coordinator

1. Directing activities in EOF.
2. Notification of Government Emergency Response Agencies.
3. Coordinating activities of the Environmental Dose Assessment Team through the Radiation Protection Coordinator.

4. Coordinating activities of Radiological Emergency Teams (RETs) through the Radiation Protection Coordinator.

5.1.3 Radiation Protection Coordinator

1. Directing and coordinating off-site dose assessment activities.
2. Directing Environmental Assessment Team.
3. Determining survey areas for RETs.
4. Determining environmental sample media.
5. Evaluating results of environmental surveys.
6. Advising the EOF Coordinator on protective actions to be taken.
7. Directing activities in the EOF Emergency Laboratory.
8. Ensuring proper personnel monitoring and records of the emergency are maintained.
9. Coordinating radiation protection for personnel in the EOF.
10. Ensuring that radiation protection equipment is issued and controlled.
11. Directing decontamination activities for site area emergency.

5.1.4 Radiation Protection Communicator

The Radiation Protection Communicator makes any required notifications and communications as directed by the Radiation Protection Coordinator.

5.1.5 Environmental Assessment Team

1. Assessing meteorological conditions.
2. Performing dose assessment and projections.

5.1.6 RET Coordinator

1. Coordinating efforts of the Off-Site RETs.
2. Assigning survey areas.

3. Reporting the results of off-site surveys to the Radiation Protection Coordinator.

5.1.7 Laboratory Technicians

1. Analyzing samples collected by the Off-Site RET members.
2. Reporting the results of the sample analysis to the Radiation Protection Coordinator.

5.1.8 Security Advisor

1. Coordinating access and egress of off-site personnel to owner-controlled areas.
2. Acting as security liaison between the EOF, the JPIC and the Technical Support Center (TSC).
3. Advising the EOF Coordinator on security matters.
4. Maintaining security of the EOF.

5.1.9 Nuclear Operations Advisor

1. Providing updated information on the operational status of the plant.
2. Advising the EOF Coordinator on the status of the plant.

5.1.10 Public Information Coordinator

1. Communicating information to the JPIC under the direction of the Emergency Officer.
2. Liaison between the Emergency Officer and the JPIC.
3. Liaison between the EOF and the near-site news media center.

5.1.11 EOF Administrator

1. Supervising the establishment of the EOF.
2. Providing logistic support.
3. Providing documentation control and support.

4. Establishing and maintaining a long term record file for the emergency. This record file shall be maintained as a legal record of the emergency including, as a minimum, times of notifications of Federal, State and local agencies, all notification forms, all chronological logs of the emergency maintained by the individuals assigned to the EOF, and an overall chronological log of all events occurring during the emergency.
5. Supervising the communicators, clerks, status board updaters, and secretaries assigned to the EOF.
6. Implementing communications to off-site Emergency Response Organizations.
7. Advising EOF Coordinator/Emergency Officer on matters relating to logistic support.

5.1.12 EOF Communicator

1. Making any required notifications and communications as directed.
2. Notifying additional support personnel as directed.

5.1.13 Liaison to the State

The Liaison to the State is responsible for the following:

1. Coordinating and clarifying communications between the EOF and the State On-Scene Emergency Operations Center (OSEOC).
2. Apprising State Officials at the OSEOC of emergency conditions based on information provided by the Detroit Edison emergency organization.

5.1.14 Liaison to the Counties

The Liaison to the Counties is responsible for the following:

1. Providing technical advice to the Counties based on information from Nuclear Operations.

5.1.15 Additional support personnel, including clerks, secretaries and status board updaters.

1. Providing administrative support, including copying, message typing and filing.

2. Ensuring all status board information is kept current.
- 5.2 All personnel shall keep a chronological log of all activities performed by them during the emergency and any other significant events. These logs shall be forwarded to the EOF Administrator for inclusion into the long term records.
- 5.3 During shift change chronological logs will be turned over to the new shift personnel. Personnel from the shift which is ending will also give new shift personnel a verbal summation of the situation and pass on to them any pertinent information. Shifts will be scheduled to overlap to ensure that there is sufficient time to enable a smooth transition of personnel.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ALTERNATE EMERGENCY OPERATIONS FACILITY: ACTIVATION

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 08/16/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational
Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear
Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor- Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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Typed by: Karen Nutt (RERPI4)
Revised by: Sandra Chittum

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ALTERNATE EMERGENCY OPERATIONS FACILITY: ACTIVATION

Prepared by	<u>E. F. Madsen</u>	<u>08/16/83</u>
		Date
Recommended by	<u>Donald S. MacKenzie</u>	<u>9-27-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	<u>9-29-83</u>
	Community & Government Affairs	Date
Recommended by	<u>Larry E. Schurman</u>	<u>9-30-83</u>
	Licensing	Date
Recommended by	<u>Mahmoud Syed M.D.</u>	<u>9/27/83</u>
	Medical Staff	Date
Recommended by	<u>James J. Piana</u>	<u>9/27/83</u>
	Nuclear Administration	Date
Recommended by	<u>[Signature]</u>	<u>9-30-83</u>
	Nuclear Production	Date
Recommended by	<u>Karen K. Thompson</u>	<u>9-27-83</u>
	Nuclear Training	Date
Recommended by	<u>Butt Hefner</u>	<u>9-27-83</u>
	Public Information	Date
Recommended by	<u>[Signature]</u>	<u>9-27-83</u>
	Security	Date
Recommended by	<u>M. L. Vermeulen / R</u>	<u>9-27-83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas R. Randazzo</u>	<u>9/27/83</u>
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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1.0 Purpose

To prescribe the steps for activation of the alternate Emergency Operations Facility (EOF) and to delineate the responsibilities and actions of the EOF Coordinator.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section F (Emergency Communications), and Section H (Emergency Facilities and Equipment)
- 2.2 Functional Criteria for Emergency Response Facilities (NUREG-0696), Section 4 (Emergency Operations Facility)
- 2.3 Site Area Emergency (EP-104)
- 2.4 General Emergency (EP-105)
- 2.5 Emergency Notifications from the Control Room, Technical Support Center or Emergency Operations Facility (EP-290)
- 2.6 Alternate Emergency Operations Facility: Support Functions (EP-304-2)

3.0 Entry Conditions

The alternate EOF is activated whenever the EOF in the Nuclear Operations Center is uninhabitable (due to high radiation levels, and/or high airborne radioactivity concentrations, or inaccessible or damaged due to natural phenomena or fire).

4.0 General Information

- 4.1 The Alternate EOF is located at the Wayne-Monroe Division Headquarters (in the customer and marketing services area), 8001 Haggerty Road, Van Buren Township.
- 4.2 The Alternate EOF serves, in the event the primary EOF is not available, as a command post for the coordination of the emergency response actions by off-site organizations.
- 4.3 The following functions are carried out in the Alternate EOF in accordance with EP-304-2, Alternate Emergency Operations Facility: Support Functions.
 - 4.3.1 Coordination of off-site radiological and environmental assessments.

- 4.3.2 Determining and recommending protective actions for the public.
- 4.3.3 Coordination of information provided to and by the Joint Public Information Center (JPIC) for public dissemination.
- 4.3.4 Notification and communications with government agencies.
- 4.3.5 Management of recovery operations.

5.0 Procedure

- 5.1 If any of the following conditions exist, the alternate EOF shall be staffed:
 - 5.1.1 Area radiation levels in the EOF exceed 1 rem/hr.
 - 5.1.2 The eight-hour integrated dose to persons in the EOF is projected to exceed 5 rem (whole body) or 25 rem (thyroid).
 - 5.1.3 Fire, a natural phenomena, or other conditions render the EOF uninhabitable or inaccessible.
- 5.2 If the EOF is not staffed and one or more of the above conditions exist, the Emergency Director shall direct that EOF staff members be instructed to report to the Alternate EOF at the Wayne-Monroe Division Headquarters.
 - 5.2.1 The EOF Administrator shall direct a member of the Environmental Assessment Team to obtain an "Apple" computer CRT and printer and a portable dial up Terminal to obtain meteorological data from the Air Quality Group - Engineering Research Department in the Warren Service Center and bring it to the alternate facility for use in dose assessment.
- 5.3 If the EOF is staffed, and conditions exist or are projected which mandate an immediate evacuation of the EOF, the EOF Coordinator, with the concurrence of the Emergency Officer, shall direct that the Technical Support Center (TSC) staff assume all EOF responsibilities until such time as the alternate facility is staffed and operating.
- 5.4 If the EOF is staffed and adverse conditions exist or are projected which necessitate evacuation of the facility, off duty shift personnel shall be notified to report to the Alternate EOF.

5.5 When the shift personnel arrive at the Alternate EOF, the EOF Administrator shall direct personnel to activate the facility, in preparation for resuming the functions listed in EP-110 and EP-304-2.

5.5.1 The Radiation Protection Coordinator shall ensure that arrangements are made for analysis of environmental samples.

5.5.2 The EOF Administrator shall ensure that all available means of communication are checked and that contact is established with the On-Site and Off-Site Emergency Response Organizations and facilities.

5.5.3 The EOF Administrator shall ensure that each functional area in the Alternate EOF communicates with its counterpart in the EOF and obtains the most recent information/data applicable to that function.

5.5.4 When the EOF Coordinator has determined that the Alternate EOF is operational and ready to accept the responsibilities listed in EP-110 and EP-304-2, contact the Emergency Director in the TSC and review the current status of the emergency with emphasis on changes since evacuating the EOF. Discussions shall include but not be limited to:

1. Indications and suspected cause of the emergency, including existing hazards to personnel; damage to plant systems, instrumentation, and other equipment; and radiation levels or releases.
2. Present plant lineups and plant evolutions or operations in progress.
3. Corrective actions taken.
4. Status of the Off-Site RETs and the status of off-site samples and surveys.
5. Status of notifications to Off-Site Emergency Organizations.
6. Status of dose assessments performed and protective actions taken onsite or recommended to the public.
7. Status of any press releases or other public information which has been released.

- 5.5.5 With the concurrence of the Emergency Officer, the EOF Coordinator shall inform the TSC and all other emergency response facilities and organizations that the EOF has been moved to the alternate facility and that the Alternate EOF is functional and the point of contact for all off-site organizations. All EOF responsibilities shall be carried out from the alternate facility.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ALTERNATE EMERGENCY OPERATIONS FACILITY:
SUPPORT FUNCTIONS

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 8/16/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational
Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear
Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor- Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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Typed by: Sandra Chittum (RERP #13)
Revised by: Sandra Chittum

ENRICO FERMİ ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ALTERNATE EMERGENCY OPERATIONS FACILITY:
SUPPORT FUNCTIONS

Prepared by	<u>E. F. Madsen</u>	<u>8/16/83</u> Date
Recommended by	<u>Donald James Kengon</u> Communication System Division	<u>9-27-83</u> Date
Recommended by	<u>James L Jones</u> Community & Government Affairs	<u>9-29-83</u> Date
Recommended by	<u>Larry E. Schurman</u> Licensing	<u>9-30-83</u> Date
Recommended by	<u>Mohammed Syed M.D.</u> Medical Staff	<u>9/27/83</u> Date
Recommended by	<u>James J. Travis</u> Nuclear Administration	<u>9/27/83</u> Date
Recommended by	<u>M. K. Vermeulen</u> Nuclear Production	<u>9-30-83</u> Date
Recommended by	<u>Karen K. Thompson</u> Nuclear Training	<u>9-27-83</u> Date
Recommended by	<u>B. J. P. P. P.</u> Public Information	<u>9-27-83</u> Date
Recommended by	<u>John J. Smith</u> Security	<u>9-27-83</u> Date
Recommended by	<u>M. K. Vermeulen / E</u> Wayne-Monroe Division	<u>9-27-83</u> Date
Approved by	<u>Thomas Randsaygo</u> RERP Committee Chairperson	<u>9/27/83</u> Date
Revision No.	RERP Committee Chairperson Approved	Date

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1.0 Purpose

To delineate the responsibilities and actions of the Alternate Emergency Operations Facility (EOF) staff.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section B (Emergency Response Organization), Section F (Emergency Communications), Section H (Emergency Facilities and Equipment), Section I (Accident Assessment), Section J (Protective Response), Section K (Radiological Exposure Control), and Section M (Reentry and Recovery Planning and Post-Accident Operations Planning)
- 2.2 Functional Criteria for Emergency Response Facilities (NUREG-0696), Section 4 (Emergency Operations Facility).
- 2.3 Site Area Emergency (EP-104)
- 2.4 General Emergency (EP-105)
- 2.5 Organization and Responsibilities (EP-110)
- 2.6 Emergency Notifications from the Control Room, Technical Support Center or Emergency Operations Facility (EP-290)
- 2.7 Alternate Emergency Operations Facility: Activation (EP-304-1)
- 2.8 Manual Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases - Overview (EP-540)
- 2.9 "Apple" Computer Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases (EP-542)

3.0 Entry Conditions

The Alternate EOF is activated using procedure EP-304-1 whenever the EOF in the Nuclear Operations Center is uninhabitable (e.g., due to high radiation levels, high airborne radioactivity concentrations, or damage or inaccessibility due to fire or natural disaster).

4.0 General Information

- 4.1 The Alternate EOF is located in the Wayne-Monroe Division Headquarters, in the Customer and Marketing Services area.
- 4.2 The Alternate EOF serves, in the event the primary EOF is not available, as a command post for coordination of emergency response actions by off-site organizations.

4.3 The following functions are carried out in the alternate EOF:

- 4.3.1 Coordination of off-site radiological and environmental assessments.
- 4.3.2 Determining and recommending protective actions for the public.
- 4.3.3 Coordination of information provided to and by the Joint Public Information Center (JPIC) for public dissemination.
- 4.3.4 Notification and communications with government agencies.

5.0 Procedure

5.1 The Personnel are assigned to the Alternate EOF and are responsible for performing their specific duties as outlined in EP-110.

5.2 All personnel shall keep a chronological log of all activities performed by them during the emergency and any other significant events. These logs shall be forwarded to the EOF Administrator for inclusion in the long-term records.

NOTE: Logs should reflect relocation to the Alternate EOF and indicate reasons why the EOF in the Nuclear Operations Center could not be occupied.

END

ENRICO FERMI ATOMIC POWER PLANT

UNIT NO. 2

RERP IMPLEMENTING PROCEDURES

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Recovery Organization

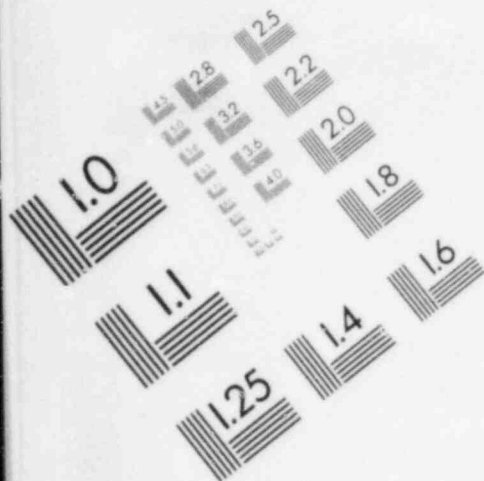
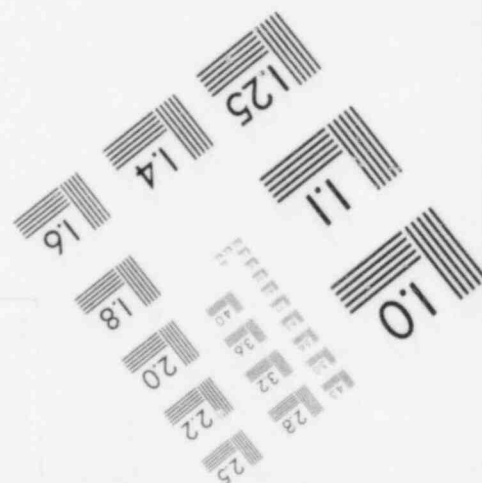
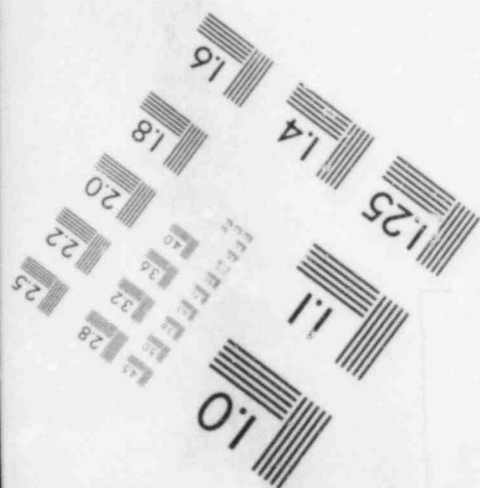
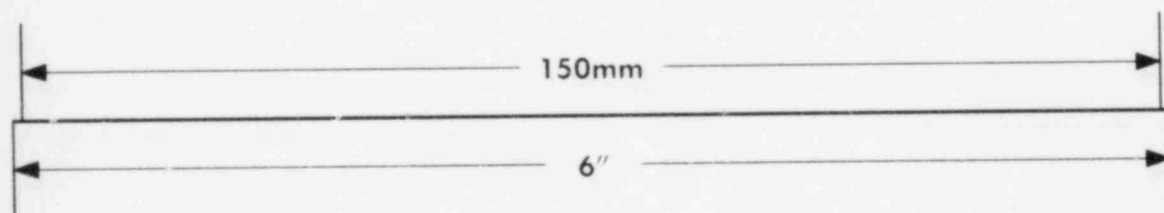
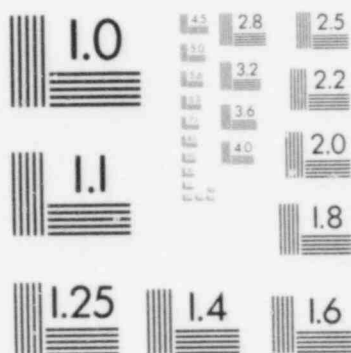
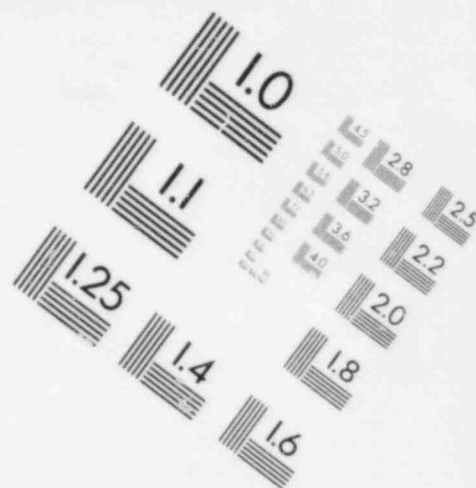


IMAGE EVALUATION TEST TARGET (MT-3)



ENRICO FERMI ATOMIC POWER PLANT

UNIT NO. 2

RERP IMPLEMENTING PROCEDURES

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201-2	On-Site Radiological Emergency Team: Functions
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ENRICO FERMI ATOMIC POWER PLANT

UNIT NO. 2

RERP IMPLEMENTING PROCEDURES

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210-1	Off-Site Radiological Emergency Team: Activation
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290	Emergency Notifications From The Control Room Technical Support Center Or Emergency Operations Facility
291	Off-Site Radiological Emergency Team: Fermi 2 On-Call Plant Supervisor: Emergency Notifications
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ENRICO FERMI ATOMIC POWER PLANT

UNIT NO. 2

RERP IMPLEMENTING PROCEDURES

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303-1	Emergency Operations Facility: Activation
303-2	Emergency Operations Facility: Support Functions
304-1	Alternate Emergency Operations Facility: Activation
304-2	Alternate Emergency Operations Facility: Support Functions

ENRICO FERMI ATOMIC POWER PLANT

UNIT NO. 2

RERP IMPLEMENTING PROCEDURES

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402	Recovery

ENRICO FERMI ATOMIC POWER PLANT

UNIT NO. 2

RERP IMPLEMENTING PROCEDURES

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502	Vehicle Monitoring/Decontamination
530	Assembly, Accountability and Evacuation
540	Manual Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases - Overview
541	Manual Off-Site Dose Assessment Calculational Procedure-Waterborne Releases
542	"APPLE" Computer Off-Site Radiological Dose Assessment Calculational Procedure-Airborne Releases
543	Computer Dose Assessment Calculational Procedure-Waterborne Releases
544	Meteorological Data Assessment
545	Protective Action Guidelines Recommendations

ENRICO FERMI ATOMIC POWER PLANT

UNIT NO. 2

RERP IMPLEMENTING PROCEDURES

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603	Public Affairs: Site Area Emergency/General Emergency
604	Public Affairs: Joint Public Information Center Activation
605	Public Affairs: Emergency Employee Communication Center
606	Public Affairs: Media Relations
607	Public Affairs: Media Pool Operation
608	Public Affairs: Joint Public Information Center Operation
609	Joint Public Information Center: Security Force Responsibilities
610	On-Site News Center: Security Force Responsibilities

ENRICO FERMI ATOMIC POWER PLANT

UNIT NO. 2

RERP IMPLEMENTING PROCEDURES

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EPA NO.

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|----|---|
| 1 | Procedure Preparation, Review, Approval, Change,
Revision, Cancellation, Control and
Distribution |
| 2 | Periodic Review of Radiological Emergency Response
Plan Procedures |
| 3 | Review and Revision of the Radiological Emergency
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| 4 | Exercises and Drills |
| 5 | Emergency Equipment Inventory |
| 6 | RERP Telephone Directory: Review and Update |
| 7 | Emergency Call-Out Lists: Review and Update |
| 8 | Radiological Emergency Response Preparedness
Training Program |
| 10 | Public Affairs: Emergency Communications Plan
Overview |
| 11 | Technical Support Center: Access Control and
Emergency Configuration |

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: REENTRY

RECORD OF APPROVAL AND CHANGES

Prepared by T. Randazzo 07/14/83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

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OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Dat
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Typed by: Karen Nutt (RERP#1)
Revised by: Sandra Chtum

EMERICO FERMIC ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: REENTRY

Prepared by	<u>T. Randazzo</u>	<u>07/14/83</u> Date
Recommended by	<u><i>Donald S. MacKenzie</i></u> Communication System Division	<u>8-18-83</u> Date
Recommended by	<u><i>James L. Jones</i></u> Community & Government Affairs	<u>8-18-83</u> Date
Recommended by	<u><i>OK Earls for LE Schuermann</i></u> Licensing	<u>8/19/83</u> Date
Recommended by	<u><i>Robert J. L...</i></u> Medical Staff	<u>8/18/83</u> Date
Recommended by	<u><i>James M. R. Bay</i></u> Nuclear Administration	<u>8-18-83</u> Date
Recommended by	<u><i>Myra A. Strickland</i></u> Nuclear Production	<u>8-23-83</u> Date
Recommended by	<u><i>John K. Thompson</i></u> Nuclear Training	<u>8-18-83</u> Date
Recommended by	<u><i>Bert Ruffner</i></u> Public Information	<u>8-18-83</u> Date
Recommended by	<u><i>Michael J. ...</i></u> Security	<u>8-18-83</u> Date
Recommended by	<u><i>Maurice L. Vermaulen</i></u> Wayne-Monroe Division	<u>8/18/83</u> Date
Approved by	<u><i>Thomas Randazzo</i></u> RERP Committee Chairperson	<u>8/18/83</u> Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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1.0 Purpose

To prescribe the actions to be taken prior to and during reentry following an emergency which required implementation of the Radiological Emergency Response Preparedness Plan.

2.0 References

2.1 Enrico Fermi Atomic Power Plant, Unit 2, Radiological Emergency Response Preparedness Plan Section B (Emergency Response Organization) and Section M (Reentry and Recovery Planning and Post-Accident Operations Planning).

2.2 Organization and Responsibilities (EP-110)

2.3 Recovery Organization (EP-111)

*2.4 Recovery (EP-402)

*2.5 Personnel Decontamination (66.000.10)

3.0 Entry Conditions

3.1 The Emergency Officer (or Emergency Director if the Emergency Operations Facility (EOF) is not activated) has declared that the emergency has stabilized and the plant is ready to commence reentry.

3.1.1 Radiation levels in all in-plant areas are Stable or decreasing with time.

3.1.2 Reactor and associated systems are considered in a stable, safe condition.

3.1.3 Release of radioactive materials to the environment is under control or has ceased.

3.1.4 Fire, flooding, or similar emergency conditions are under control or have ceased.

3.2 The Recovery Organization has developed plans and schedules for the reentry.

4.0 General Information

4.1 The Emergency Officer (or Emergency Director if the EOF is not activated) has the responsibility for determining and declaring an emergency stable and the plant ready to commence reentry and recovery operations.

- 4.2 Following a Site Area or General Emergency and upon declaring the emergency stable, the Emergency Officer assumes the role of Recovery Manager and activates the Recovery Organization.
- 4.3 The Recovery Organization shall develop and coordinate plans and schedules for reentry.
- 4.4 The Nuclear Safety Review Group (NSRG) oversees activities of the Recovery Organization to ensure that all nuclear safety aspects of the reentry and recovery operation are satisfied.
- 4.5 The Emergency Director, under the direction of the Recovery Manager, authorizes the start of reentry activities and controls the teams involved in the recovery.
- 4.6 The reentry activities may not be completed in one entry period. It is intended that this procedure provide overall guidance for the total reentry effort.

5.0 Procedure

- 5.1 The following are actions to be taken by the Recovery Organization (or by the Emergency Director if the Recovery Organization is not activated) prior to commencing reentry.
 - 5.1.1 Review available radiation survey data, make an ALARA review and determine plant areas potentially affected by radiation and/or contamination.
 - 5.1.2 Review radiation exposure of personnel required to participate in the reentry and determine the need for additional personnel.
 - 5.1.3 Review the adequacy of radiation survey instrumentation and equipment (types, ranges, number, calibration, etc.).
 - 5.1.4 Conduct other activities required to assure the protection of the reentry teams.
- 5.2 The initial reentry shall accomplish the following (as determined by the Recovery Manager or the Emergency Director):
 - 5.2.1 Determining the initial required recovery operations.
 - 5.2.2 Observing (visually) hazards or potential hazards in a particular area.
 - 5.2.3 Conducting extensive radiation surveys and determining radiological problem areas.

5.2.4 Isolating areas in the plant using appropriate warning signs and rope barriers to post radiologically controlled areas.

5.2.5 Revising security access lists to prevent unauthorized or unintentional entry into hazardous areas.

5.3 The Recovery Organization (or the Emergency Director if the Recovery Organization is not activated) shall designate a Reentry Team to make the initial reentry surveys. Selection of personnel for the Reentry Team should be based on their knowledge of the plant, their expertise and radiation exposure history. A typical reentry team may consist of the following individuals:

- | | | |
|----|----------------------------------|-----|
| 1. | Operations Personnel | (1) |
| 2. | Maintenance Personnel | (1) |
| 3. | Plant Engineering Personnel | (1) |
| 4. | Senior Health Physics Technician | (1) |

NOTE: Under no circumstances should reentry be made with less than two people or without Health Physics personnel.

5.4 The Reentry Team shall be briefed by the Emergency Director on the following activities and conditions prior to entry:

1. Special conditions to be encountered.
2. Areas to be surveyed.
3. Radiation and contamination levels anticipated.
4. Radiation survey equipment required.
5. Special shielding requirements and material availability.
6. Protective clothing and equipment required.
7. Access control procedures (issuance of new Radioactive Work Permits).
8. Exposure limits and personal dosimetry required.
9. Decontamination requirements.
10. Communications required.
11. Special tasks (e.g., isolating leaks, initial damage repair, etc.) to be conducted.

5.5 Only upon authorization by the Emergency Director shall the Reentry Team enter the prescribed area.

CAUTION: If radiation levels encountered during the reentry exceed the limits established during the planning phase,

reentry personnel shall return to a safe area and contact the Emergency Director for further instructions.

5.6 Upon entering the prescribed area, the Reentry Team shall:

5.6.1 Assess the following items during the reentry:

1. Condition of equipment and areas.
2. Accessibility of affected areas.
3. Radiological and toxicological hazards.
4. Other potential personnel or equipment hazards.

5.6.2 Conduct equipment operations identified in the planning phase directed by the Emergency Director.

5.7 If exposure limits allow, the Reentry Team shall:

1. Isolate and post radiologically controlled areas, including radiation or contamination levels. Additional shielding should be used where needed and available.
2. Be alert for any conditions not noted during the reentry briefing. Report any additional abnormal conditions to the Emergency Director.

5.8 Upon completion of all planned reentry activities, the Reentry Team will proceed to the exit area. A qualified Health Physics Technician shall supervise monitoring at the exit point. Personnel requiring decontamination shall be decontaminated in accordance with Health Physics Procedure 66.000.10 (Personnel Decontamination).

5.9 Results of the reentry survey shall be reported to the Emergency Director. Information shall include:

1. Status of scheduled activities.
2. Condition of survey area.
3. Radiological and toxicological survey results.

5.10 The Recovery Organization (or Emergency Director if the Recovery Organization is not activated) will evaluate the reentry survey results and the damage assessment report to determine the following:

1. Affected areas and equipment.

2. Actions required to restore the area or equipment to fully operational capability.
3. Radiological or toxicological hazards.
4. Resources required (personnel, equipment, budget, and time).

5.11 Based on the results of the evaluation conducted in 5.10, the Recovery Organization will prepare a detailed Recovery Plan in accordance with EP-402 (Recovery). A formal Recovery Plan is only required following a Site Area or General Emergency. For recovery activities following an Unusual Event or alert, the Emergency Director will develop plans as needed.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: RECOVERY

RECORD OF APPROVAL AND CHANGES

Prepared by K. Connell 4/11/83
Date

Approved by Thomas Randazzo 8-22-83
Responsible Section Head Date

Recommended by E H Newton 8-23-83
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by R/Lt 8/23/83
OSRO Chairman/Alternate Date

Approved by R/Lt 8/23/83
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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8					*			



CONTROLLED

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: RECOVERY

Prepared by	T. Randazzo <i>T. Randazzo</i>	4/11/83
		Date
Recommended by	<i>Donald Smae Kenzie</i>	4-28-83
	Communication System Division	Date
Recommended by	<i>James R Jones</i>	4-28-83
	Community & Government Affairs	Date
Recommended by	<i>R. J. Howard</i>	4/28/83
	Insurance	Date
Recommended by	<i>Mahmud Syed, M.D.</i>	4/28/83
	Medical Staff	Date
Recommended by	<i>J. Wile Bay</i>	4/28/83
	Nuclear Administration	Date
Recommended by	<i>Joseph H. Ploner</i>	5/6/83
	Nuclear Production	Date
Recommended by	<i>Murphy</i>	4/28/83
	Nuclear Training	Date
Recommended by	<i>John H. Rogers</i>	4/28/83
	Public Information	Date
Recommended by	<i>Stuart H. Beach</i>	4-28-83
	Security	Date
Recommended by	<i>Maurice W. Menden</i>	5-11-83
	Wayne-Monroe Division	Date
Approved by	<i>Thomas Randazzo</i>	4/28/83
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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Enclosures

Generic Agenda for Reentry and Recovery
Meetings.....Enclosure 1

1.0 Purpose

To describe the process to be utilized during recovery from an emergency which required implementation of the Radiological Emergency Response Preparedness (RERP) Plan.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant, Unit 2, Radiological Emergency Response Preparedness Plan Section B (Emergency Response Organization) and Section M (Reentry and Recovery Planning and Post-Accident Operations Planning)
- 2.2 Organization and Responsibilities (EP-110)
- 2.3 Recovery Organization (EP-111)
- 2.4 Reentry (EP-401)

3.0 Entry Conditions

- 3.1 The emergency and the plant are in a stable condition and are expected to remain stable.
- 3.2 Reentry has been completed and the Recovery Organization has reviewed the survey data and assessment reports.

4.0 General Information

- 4.1 Recovery includes those tasks and evaluations which must be undertaken to restore the plant to a pre-emergency condition. Recovery operations will not commence until the emergency condition has been stabilized and conditions well defined.
- 4.2 Recovery operations may be terminated when any of the following conditions are met:
 - 4.2.1 The plant is returned to pre-accident radiation and contamination levels.
 - 4.2.2 Conditions exist which are acceptable and controllable for an extended period of time.
 - 4.2.3 Return to normal operating conditions.

5.0 Procedure

- 5.1 The Recovery Organization shall review all information and data obtained during reentry and perform the following:

- 5.1.1 Define the affected area.
 - 5.1.2 Determine damage to equipment and systems.
 - 5.1.3 Plan the program to return systems and equipment to pre-emergency conditions.
 - 5.1.4 Schedule all significant events and milestones.
 - 5.1.5 Prepare detailed Recovery Plan Implementing Procedures to accomplish the program.
 - 5.1.6 Obtain appropriate approval for all Recovery Procedures.
- 5.2 The Recovery Plan Implementing Procedures will be developed, reviewed and approved as follows:
- 5.2.1 The Plant Superintendent shall be responsible for the development of the Recovery Plan Implementing Procedures.
 - 5.2.2 The Recovery Organization shall review the Recovery Plan Implementing Procedures and make recommendations where appropriate.
 - 5.2.3 The On-Site Review Organization shall approve the Recovery Plan Implementing Procedures in accordance with existing site administrative procedures.
- 5.3 The Recovery Organization shall develop the staffing plan required to ensure the recovery schedule can be maintained.
- 5.4 The Recovery Organization shall periodically review the status of the recovery effort to ensure the Recovery Plan meets the requirements of the situation.
- 5.5 The Recovery Manager shall ensure adequate information on plant status is forwarded to the Director of Public Information for release to the news media.
- 5.6 Upon completion of the recovery, the Recovery Organization shall:
- 5.6.1 Assemble all the documents and records as follows:
 - 1. References
 - 2. Plans
 - 3. Schedules
 - 4. Procedures.

5.6.2 Conduct an in-depth review of the Recovery Program.

5.6.3 Make recommendations for revising or updating the RERP Plan.

5.7 Upon completion of the recovery, the Recovery Organization shall ensure the following items are completed:

5.7.1 All on-site and off-site personnel involved with the emergency and the recovery have been apprised of the existing conditions and of the termination of activities under the RERP Plan.

5.7.2 The Emergency Response Facilities have been secured and actions commenced to restore them to the pre-emergency condition.

5.7.3 The news media facilities have received the final status report on the emergency and recovery operations and the facilities are being restored to pre-emergency conditions.

5.7.4 Short and long range action plans are developed to identify and evaluate the causes and effects of the problems encountered during the emergency.

GENERIC AGENDA FOR
REENTRY AND RECOVERY MEETINGS

(Attendance shall be as shown below or a delegated alternate)

1. Recovery Manager (Emergency Officer)
2. Superintendent - Nuclear Production (Emergency Director)
3. Emergency Operations Facility Coordinator (EOF Coordinator)
4. Radiation Protection and Waste Management Coordinators
5. Technical Support and Engineering Coordinator (Nuclear Safety Advisor)
6. Technical Liaison and Advisory Support Coordinator
7. Recovery Planning and Scheduling Coordinator
8. Administration and Logistic Support Coordinator
9. Quality Assurance Coordinator
10. Design and Construction Support Management Coordinator
11. Public Relations Coordinator
12. Director-Nuclear Administration (Secretary)
13. Director-Nuclear Security
14. Nuclear Safety Review Group (NSRG)

MEETING AGENDA

<u>ITEM</u>		<u>INDIVIDUAL RESPONSIBLE</u>
1. Purpose of the Meeting	-	Recovery Manager
2. Summary of Accident (provide copy of NOTEPAD releases and press releases)	-	Emergency Director
3. Status of Plant and People	-	Emergency Director
a. Personnel Radiation Exposure Summary		
b. Plant Contamination Summary		
c. Status of Plant Systems and Equipment		
4. Safety Concerns	-	Technical Support and Engineering Coordinator
5. Quality Assurance Considerations	-	Quality Assurance Coordinator
6. Tentative Plan and Schedule	-	Recovery Manager
7. Assignments	-	Recovery Manager

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: USE OF NOTEPAD DURING AN EMERGENCY/EXERCISE

RECORD OF APPROVAL AND CHANGES

Prepared by K. Connell 04/13/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational Assurance/Delegate
Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear Production/Delegate
Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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Typed by: Sandra Chittum (RERP #7)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: USE OF NOTEPAD DURING AN EMERGENCY/EXERCISE

Prepared by	K. Connell	4/22/83
		Date
Recommended by	<i>Donald J. MacKenzie</i> Communication System Division	8-18-83
		Date
Recommended by	<i>James L. Jones</i> Community & Government Affairs	8-18-83
		Date
Recommended by	<i>OK Earl for L E Shurman</i> Licensing	8/17/83
		Date
Recommended by	<i>Harold H. Deacon</i> Medical Staff	8/15/83
		Date
Recommended by	<i>James M. Dubay</i> Nuclear Administration	8/18/83
		Date
Recommended by	<i>Greg A. Kuback</i> Nuclear Production	8-23-83
		Date
Recommended by	<i>Kenn Thompson</i> Nuclear Training	8-18-83
		Date
Recommended by	<i>Bert Keffner</i> Public Information	8-18-83
		Date
Recommended by	<i>W. H. Deane for TV</i> Security	8-18-83
		Date
Recommended by	<i>Maurice L. Vermeulen</i> Wayne-Monroe Division	8/18/83
		Date
Approved by	<i>Thomas Randazzo</i> RERP Committee Chairperson	8/18/83
		Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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Attachments

NOTEPAD ENTRY FORM.....	Attachment 1
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1.0 Purpose

The purpose of this procedure is to provide the guidelines for use of NOTEPAD for transmission of information regarding an emergency/exercise when the Radiological Emergency Response Preparedness (RERP) Plan is activated.

2.0 References

- *2.1 INPO - Nuclear NOTEPAD Procedures - Guidelines for Activity Usage. Rev. 4-24-83
- 2.2 Infomedia (NOTEPAD) Operating Experience Review, Nuclear Operations - Nuclear Engineering Procedure (NE-2.12, Rev. 1, 5-25-83)

3.0 Entry Conditions

Once the RERP Plan is activated for an emergency/exercise, this procedure will be implemented. All information regarding the emergency/exercise transmitted via NOTEPAD will be at the discretion of the Emergency Officer (or Emergency Director prior to activation of the Emergency Operations Facility (EOF)) and the Director-Public Information (or designee).

4.0 General Information

NOTEPAD is the trade name of a computer telecommunications information exchange system under the administration of the Institute of Nuclear Power Organization (INPO). The NOTEPAD "Emergency Hotline" will be used during actual emergencies (See Reference 2.1). The NOTEPAD "Emergency Planner Information Exchange" will be used during emergency exercises (See Reference 2.1). The only information that will be transmitted via NOTEPAD during an emergency/exercise will be information approved by the Emergency Officer (or Emergency Director prior to activation of the EOF) and the Director-Public Information (or designee).

5.0 Immediate Actions

- 5.1 All entries for NOTEPAD during an emergency/exercise will be sent to the Emergency Officer (or Emergency Director prior to activation of the EOF) (See Attachment #1).

- 5.2 For all NOTEPAD entries the Emergency officer (or Emergency Director prior to activation of the EOF) will contact the Director-Public Information (or designee) for concurrence of entry approval.
- 5.3 Upon approval of an entry the Emergency Officer (or Emergency Director prior to activation of the EOF) will forward the signed entry form to the emergency facilities administrative group for transmittal via NOTEPAD.
- 5.4 The emergency facilities administrative group will process the entry via the applicable NOTEPAD line as designated in Section 4.0 of this procedure.

6.0 Follow-Up Actions

A copy of all NOTEPAD entries transmitted, and responses received, will be sent the the Emergency Officer (or Emergency Director prior to activation of the EOF) and Director-Public Information (or designee).

NOTEPAD ENTRY FORM

___ EMERGENCY HOTLINE

OR

___ EMERGENCY PLANNER INFORMATION EXCHANGE

Originator _____
(Name) (Phone) (Date) (Time)

MESSAGE (WRITE/PRINT CLEARLY): _____

CONTACT MADE TO PUBLIC INFORMATION:

Person Contacted: _____ Time: _____ Date: _____

Comments: _____

APPROVED BY: _____
Emergency Officer (Phone) (Date) (Time)

OR

Emergency Director (Phone) (Date) (Time)

COMMUNICATOR: _____
(Name) (Date) (Time)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: VEHICLE MONITORING/DECONTAMINATION

RECORD OF APPROVAL AND CHANGES

Prepared by K. Connell 5/10/83
Date
Approved by [Signature] 9-6-83
Responsible Section Head Date
Recommended by E H Newton 9-6-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by R L L + 9/6/83
OSRO Chairman/Alternate Date
Approved by R L L + 9/6/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: VEHICLE MONITORING/DECONTAMINATION

Prepared by	<u>K. Connell</u>	<u>5/10/83</u>
		Date
Recommended by	<u>Donald Isaac Kengue</u>	<u>6-30-83</u>
	Communication System Division	Date
Recommended by	<u>James L Jones</u>	<u>7-7-83</u>
	Community & Government Affairs	Date
Recommended by	<u>J P Cooper</u>	<u>6-30-83</u>
	Insurance	Date
Recommended by	<u>Larry E. Schuman</u>	<u>6/30/83</u>
	Licensing	Date
Recommended by	<u>Mahmud Eyed, M.D.</u>	<u>6/30/83</u>
	Medical Staff	Date
Recommended by	<u>James J. Lancia</u>	<u>6/30/83</u>
	Nuclear Administration	Date
Recommended by	<u>Gregg A. Smith</u>	<u>6-30-83</u>
	Nuclear Production	Date
Recommended by	<u>Edward J. Dancy</u>	<u>6/30/83</u>
	Nuclear Training	Date
Recommended by	<u>Bartholomew John H. Rogers</u>	<u>6-30-83</u>
	Public Information	Date
Recommended by	<u>Stuart H. Zeech</u>	<u>6-30-83</u>
	Security	Date
Recommended by	<u>Wayne-Monroe Division</u>	<u>6/30/83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Raudaygo</u>	<u>6/30/83</u>
	RERP Committee Chairperson	Date
Revision No.	RERP Committee Chairperson Approved	Date

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Attachments

Vehicle Survey Report	Attachment 1
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1.0 Purpose

To provide guidelines for the monitoring/decontamination of vehicles during emergency conditions.

2.0 References

- 2.1 NUREG-0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
- 2.2 Off-Site Personnel Monitoring Team: Activation (EP-202-3).
- 2.3 Off-Site Personnel Monitoring Team: Functions (EP-202-4).
- *2.4 Radiation, Contamination and Airborne Guides and Limits (61.000.05).
- *2.5 Health Physics Posting (61.000.15).

3.0 Entry Conditions

The decision to initiate monitoring of vehicles will be at the discretion of the Emergency Director.

4.0 General Information

- 4.1 The Radiation Protection Coordinator will be responsible for implementing a vehicle monitoring/decontamination program. This decision is based on such variables as: weather conditions, wind direction, survey data and whether there has been a release of radioactive material which may contaminate vehicles.
- 4.2 Based on this information, the Radiation Protection Coordinator will also determine the location at which the monitoring/decontamination will be performed.

5.0 Immediate Actions

- 5.1 Vehicle monitoring will be performed by Off-Site Personnel Monitoring Team (PMT) personnel or by personnel under the direct supervision of the Off-Site PMT using the appropriate survey equipment (in the emergency kits).
- 5.2 The limits used for unconditional release of vehicles will be determined by the Radiation Protection Coordinator. The limits normally used are those in procedure 61.000.05.

*Denotes "Use" Reference

5.3 All vehicles found to be contaminated in excess of these limits should be decontaminated by the Off-Site PMT using the following guidelines.

- 5.3.1 Don protective clothing prior to decontamination attempts, as determined by the Off-Site PMT Leader.
- 5.3.2 Rope and post area per Reference 2.5.
- 5.3.3 Wipe down with decon agent.
- 5.3.4 Survey.
- 5.3.5 Repeat as needed or until further action has no benefit.
- 5.3.6 Complete a Vehicle Survey Report (Attachment 1) for all monitored vehicles.

5.0 Follow-up Action

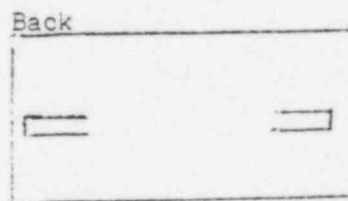
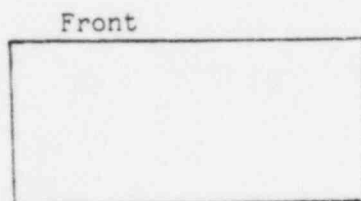
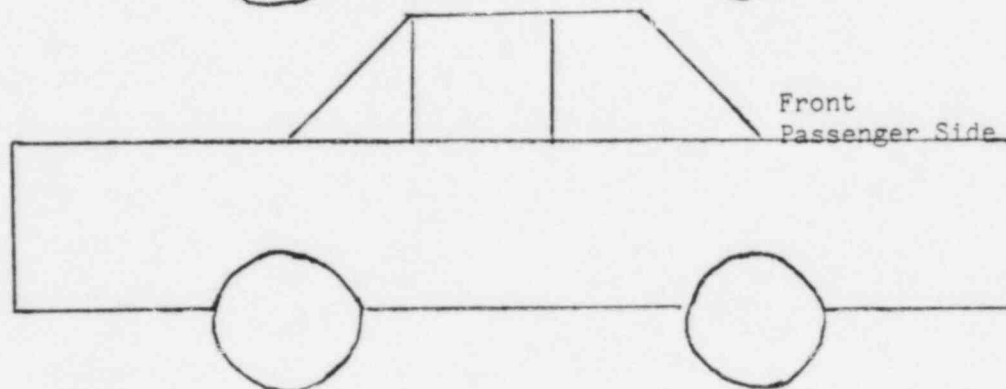
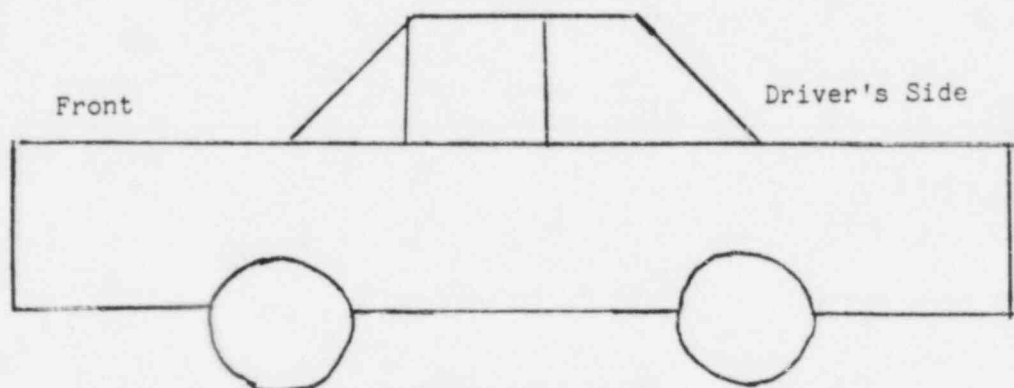
- 6.1 After three decontamination attempts, if the contamination level still does not meet the criteria listed in Section 5.2, contact the Off-Site PMT Leader for further instructions.

VEHICLE SURVEY REPORT

Vehicle Monitoring Instructions
Vehicle Survey Form

NOTE: Use this after monitoring each vehicle and after each decontamination/remonitoring effort.

Owner's Name _____ License No. _____



By: _____

Date: _____

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ASSEMBLY, ACCOUNTABILITY AND EVACUATION

RECORD OF APPROVAL AND CHANGES

Prepared by Michael J. Cooley 07/27/83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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3	_____	_____	_____	_____	*	_____	_____	_____
4	_____	_____	_____	_____	*	_____	_____	_____
5	_____	_____	_____	_____	*	_____	_____	_____
6	_____	_____	_____	_____	*	_____	_____	_____
7	_____	_____	_____	_____	*	_____	_____	_____
8	_____	_____	_____	_____	*	_____	_____	_____

Revised by: Nancy Young (RERP 1)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ASSEMBLY, ACCOUNTABILITY AND EVACUATION

Prepared by	Michael J. Cooley	07/27/83
		Date
Recommended by	Donald S. MacKenzie	8-11-83
	Communication System Division	Date
Recommended by	James L. Jones	8-11-83
	Community & Government Affairs	Date
Recommended by	Kenneth E. Schuman	8/11/83
	Licensing	Date
Recommended by	Robert H. [unclear]	8/11/83
	Medical Staff	Date
Recommended by	James S. [unclear]	8/11/83
	Nuclear Administration	Date
Recommended by	Gregg M. [unclear]	8-23-83
	Nuclear Production	Date
Recommended by	Edward J. [unclear]	8/11/83
	Nuclear Training	Date
Recommended by	Bert Keffner	8-11-83
	Public Information	Date
Recommended by	[unclear]	[unclear]
	Security	Date
Recommended by	Maurice L. Verminder	8/11/83
	Wayne-Monroe Division	Date
Approved by	Thomas R. [unclear]	8/11/83
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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1.0 Purpose

To prescribe the actions to be taken by personnel in the event that an unexpected or uncontrolled hazard exists or is anticipated; or to establish accountability of site personnel.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness (RERP) Plan, Section J (Protective Response)
- 2.2 On-Site Personnel Monitoring Team: Functions (EP-202-2)
- 2.3 Security Force: Accountability (EP-205-30)

3.0 Entry Conditions

- 3.1 An emergency has been declared at the Alert level, or higher.
- 3.2 An unexpected or uncontrolled hazard exists, or is anticipated in the Plant Area, Protected Area or within the Owner Controlled Area.

4.0 General Information

- 4.1 Assembly and accountability will precede, whenever possible, the order to evacuate. It is desirable, in an emergency situation, to establish accountability of site personnel early, to facilitate location of any missing individuals, and to evacuate non-essential personnel from plant areas.
- 4.2 For the purpose of assembly, accountability and evacuation, all personnel on-site are assigned to classes, as follows:
 - 4.2.1 Class 1 personnel
 - o Operations personnel on-shift.
 - o All Health Physics, Chemistry and Medical personnel on-site.
 - o All personnel assigned to an emergency team or emergency facility as defined by Section B of the RERP Plan.
 - 4.2.2 Class 2
 - o Instrument and Control (I&C) Technicians
 - o General Maintenance Journeymen (GMJ)

4.2.3 Class 3

- o All other personnel on-site at the time an emergency is declared or an accountability is initiated; this category includes contractors and visitors.

4.3 A Personnel Accountability Representative (PAR) is a Member of the Security Force who has been assigned the responsibility for taking accountability of personnel at a work area, work group or assembly area as defined in EP-205-30.

4.4 The Visitors' Center is located outside the Protected Area. Visitors at the Center will be unfamiliar with radiological emergency response preparedness actions, and will require close supervision by Visitors' Center Staff.

5.0 Immediate Actions

5.1 Assembly

When an Alert emergency or higher is declared the Emergency Director shall sound the evacuation alarm and announce the following on the Plant Hi-Com System:

"An Alert (or higher class if applicable) emergency has been declared. All personnel report to your assigned assembly area."
(Make this announcement twice)

- 5.1.1 Class 1 personnel will report to their assigned emergency facility.
- 5.1.2 Class 2 personnel will report to the Alternate Operational Support Center (OSC) near the machine shop.
- 5.1.3 Class 3 personnel will report as follows:
 - 1. If within the Protected Area, exit through the Primary Access Portal (PAP) in the Security Building and assemble in the General Training and Orientation Center (GTOC). Construction and contractor personnel will exit through the Alternate Access Portal (AAP) and assemble at Warehouse 30.
 - 2. If in the Nuclear Operations Center (NOC) report to the NOC cafeteria.

3. If outside the Protected Area and not in a designated assembly facility, Detroit Edison Personnel report to the GTOC, construction and contactor personnel report to Warehouse 30.
4. Visitors and tour groups will assemble in the Visitors' Center.

5.2 Accountability

Immediately upon the declaration of an Alert or higher emergency classification all personnel on-site shall be accounted for to insure that personnel are not unduly affected by the actual or potential emergency condition. Accountability of all personnel within the Protected Area shall be completed within about 30 minutes.

The Nuclear Assistant Shift Supervisor will:

Account for all onshift operations personnel assigned to the Control Room by name and badge number.

2. Report the names and badge numbers of Control Room personnel to the Security Shift Lieutenant.
3. Report any missing personnel to the Emergency Director and the Security Shift Lieutenant.

5.2.2 The Security Shift Lieutenant will:

Direct members of the Nuclear Security Force to initiate accountability procedures in accordance with EP-205-30 (Security Force: Accountability).

5.2.3 The Emergency Director will:

1. Receive accountability reports from the Security Shift Lieutenant.
2. Direct the OSC Coordinator to dispatch a Damage Control and Rescue Team to locate any persons declared missing during the accountability.

Note: Prior to dispatching the Damage Control and Rescue Team, the Emergency Director will instruct Control Room personnel to make the following public address announcement:

"Attention, (name of individual(s)) report your location to the Control Room immediately. This is an Emergency." Repeat the announcement twice. If after 3 minutes there is no response, dispatch the Damage Control and Rescue Team to the individual's last known location.

3. Assess emergency conditions to determine if an evacuation of the entire Owner Controlled area should be initiated.
4. Verify that all visitors have been assembled in the Visitors' Center. In directing the removal of visitors from the site the Emergency Director will consider the following:
 - a. Need for contamination monitoring of visitors prior to leaving site.
 - b. Alternate routes for visitors to be taken based on radiological or other hazards.
 - c. Need for re-assembly and monitoring of visitors after leaving the site.
5. Should radiation monitoring of personnel in any of the assembly areas or Visitors' Center be necessary, direct the OSC Coordinator to dispatch an On-Site Personnel Monitoring Team (PMT) to the appropriate location.

5.2.4 The PAR dispatched to the NOC will perform the following:

1. Assemble all personnel in the NOC cafeteria and inform them of the emergency classification. Include directions that all persons should remain within the NOC unless otherwise instructed.
2. Direct each supervisor to compile a list of available technical personnel and their specialty areas; assistance from these personnel may be requested by the Emergency Director.
3. Instruct all personnel in the NOC to have transportation immediately available should a Site Area Evacuation be implemented.

NOTE: Any Class 1 personnel who may be in the NOC at the time the emergency is declared should report to the NOC cafeteria for accountability and then proceed to their assigned emergency facility. Access to the protected area will be secured until accountability is complete. Class 2 personnel should remain in the NOC cafeteria until their need has been determined.

5.2.5 The PAR dispatched to Warehouse 30 will perform the following:

1. Assemble all personnel and direct each supervisor to compile a list of personnel available and their technical or craft specialty.
2. Inform assembled personnel of the emergency classification. Direct all personnel to remain within the building unless otherwise instructed.
3. Await further instructions from the Emergency Director or his delegate.

5.2.6 The PAR dispatched to the Visitors' Center and GTOC will perform the same functions as are outlined in section 5.2.5.

5.3 Evacuation

When the Emergency Director determines that conditions are serious enough to warrant removal of all non-essential personnel from the site, or anytime a Site Area Emergency is declared, he/she will direct an evacuation of the appropriate assembly areas.

5.3.1 The Emergency Director will perform the following:

1. Evaluate the existing and potential hazards which may affect evacuation of personnel and determine the optimum route for evacuation.
2. Determine the need for re-assembly of evacuated persons for monitoring and possible decontamination. Specify the reassembly area to be used depending on wind direction and potential for hazards to affect off-site assembly areas. Designated off-site assembly areas are the Newport Service Center, Monroe Power Plant, and Trenton Channel Power Plant.

NOTE: In the event it is deemed necessary to direct an evacuation prior to an assembly/accountability, Off-Site PMT's will be dispatched to the off-site assembly areas designated by the Emergency Director.

5.3.2 The Security Shift Lieutenant will perform the following:

1. Continue accountability procedures in accordance with EP-205-30.
2. Direct Security Officers to assist with the expeditious evacuation of non-essential personnel using routes and any protective measure specified by the Emergency Director.
3. Assign Security Officers, using precautions and protective measures specified by the Emergency Director, to make a survey of the evacuated area to insure that all non-essential personnel have been evacuated.
4. Report to the Emergency Director when all non-essential personnel have been evacuated and the area has been verified to be clear of non-essential personnel.
5. Request from the Emergency Director a hazards evaluation and recommended protective actions for Nuclear Security personnel remaining on-site.

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: MANUAL OFF-SITE RADIOLOGICAL DOSE ASSESSMENT
CALCULATIONAL PROCEDURE - AIRBORNE RELEASES - OVERVIEW

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 7/28/83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
2					*			
3					*			
4					*			
5					*			
6					*			
7					*			
8					*			

Typed by: Kristy Bowman (RERP-11)
Revised by: Debbie Hatto (Temp 6)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: MANUAL OFFSITE RADIOLOGICAL DOSE ASSESSMENT
CALCULATIONAL PROCEDURE - AIRBORNE RELEASE

Prepared by	A. Pepper/E. F. Madsen	7/28/83
		Date
Recommended by	Donald James Kengui Communication System Division	9-27-83
		Date
Recommended by	James L Jones Community & Government Affairs	9-27-83
		Date
Recommended by	Larry C. Scherman Licensing	9-30-83
		Date
Recommended by	Mahmud Syed M.D. Medical Staff	9/27/83
		Date
Recommended by	James J. Raina Nuclear Administration	9/27/83
		Date
Recommended by	J. A. Chubuk Nuclear Production	9-30-83
		Date
Recommended by	Karen K. Thompson Nuclear Training	9-27-83
		Date
Recommended by	Bud Hoffman Public Information	9-27-83
		Date
Recommended by	John J. ... Security	9-27-83
		Date
Recommended by	M. L. Vermulen/E Wayne-Monroe Division	9-27-83
		Date
Approved by	Thomas Randazzo RERP Committee Chairperson	9-27/83
		Date
Revision No.	RERP Committee Chairperson Approved	Date

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4.0 General Information.	1
5.0 Immediate Actions.	3

Enclosures

Figure 1 - Plant Effluent Radiation Monitors. . . .	Enclosure 1
Estimate of Activity in Containment	Enclosure 2
Manual Dose Assessment Flowchart.	Enclosure 3

Attachments

Off-Site Radiological Doses and Dose Rates Due to a Loss of Coolant Accident (LOCA) based on Drywell (CHRRMS) Monitor (No SGTS)	Attachment 1
Off-Site Radiological Doses and Dose Rates Due to Releases Through the SGTS from a LOCA.	Attachment 2
Off-Site Radiological Doses and Dose Rates Due to Monitored Releases Through SGTS.	Attachment 3
Off-Site Radiological Doses and Dose Rates Due to Unmonitored Releases Through Building Vent Stacks.	Attachment 4
Graphs of $X_{\frac{u}{Q}}$ and Finite Cloud Correction Factor Values	Attachment 5

1.0 Purpose

The purpose of this procedure is to provide a methodology for the dose assessment personnel to calculate potential and actual off-site doses and dose rates.

2.0 References

*2.1 Protective Action Guidelines Recommendations (EP-545)

2.2 Meteorological Data Assessment (EP-544)

3.0 Entry Conditions

This procedure is used when there is a potential for a release to the environment or an actual release has occurred via one of the plant effluent stacks.

4.0 General Information

4.1 Introduction

This procedure provides methods for determining doses and dose rates based on:

- o Containment high range radiation monitor (CHRRM) readings.
- o Standby gas treatment system (SGTS) effluent monitor readings.
- o Unmonitored releases through building vent stacks.

Enclosure 1 is a schematic of the plant effluent radiation monitoring system.

4.2 Assumptions

4.2.1 Loss of Coolant Accident (LOCA) based on CHRRM reading (no effluent monitor reading).

- o Design Basis LOCA described in Regulatory Guide 1.3 and FSAR Chapter 15 with release through standby gas treatment system (SGTS).
- o Isotopic composition of the source (nuclide mix) is that present at reactor shutdown and that 100% of the noble gases and 20% of the iodines are

*Denotes "Use" Reference

released to primary containment (drywell) (no nuclides with half-lives less than 3 minutes are included, and no credit is taken for holdup in the reactor building).

- o Decay from reactor shutdown.
- o Leak rate from primary containment to secondary containment equivalent to 0.5% per day as stated in the Technical Specifications.
- o SGTS filter efficiency for iodines is 99% as stated in the FSAR.
- o SGTS flow rate is 3000 CFM.

4.2.2 Loss of Coolant Accident based on SGTS monitoring reading.

- o Design basis LOCA as described in 4.2.1.
- o Isotopic source as described in 4.2.1.
- o Decay from reactor shutdown.

4.2.3 Monitored Release Through SGTS.

- o Accident type is not a design basis LOCA.
- o SGTS monitor is calibrated in Xe-133 equivalent.
- o Average energy, MeV is available (default value can be used).

4.2.4 Unmonitored Release Through Building Vent Stacks.

- o Effluent sample analysis results are available.
- o Flow rates are available.

4.3 Estimate of Activity in Containment.

Enclosure 2 provides an estimate of activity, in Ci, in containment based on a CHRRMs monitor reading.

4.4 Meteorological Conditions

- 4.4.1 Release Height Ground Level - It is assumed that the wind speed at the time of the release is constant over the period of projection. Instantaneous dose rates downwind are independent of wind direction, however, integrated doses apply only to directions in which the wind was blowing.

4.4.2 Meteorological Stability Class - Pasquill Stability Class

<u>Temperature Lapse Rate (°C/50m)</u>	<u>Stability Class</u>
less than -0.95	A Extremely Unstable
-0.95 to -0.85	B Moderately Unstable
-0.85 to -0.75	C Slight Unstable
-0.75 to -0.25	D Neutral
-0.25 to 0.75	E Slightly Stable
0.75 to 2.00	F Moderately Stable
greater than 2.00	G Extremely Stable

4.5 Responsibilities

4.5.1 Control Room

Dose assessment in the Control Room is performed by the Shift Technical Advisor (STA) at the request of the Emergency Director (Nuclear Shift Supervisor). Results are returned to the Emergency Director for use in recommending appropriate protective actions in accordance with EP-545.

4.5.2 Technical Support Center (TSC)

Dose assessment in the TSC is performed by Environmental Assessment Team members at the request of the Emergency Director/Radiation Protection Advisor, who considers the results in recommending appropriate protective actions in accordance with EP-545.

4.5.3 Emergency Operations Facility (EOF)

Dose assessment in the EOF is performed by Environmental Assessment Team members at the request of the EOF Coordinator/Radiation Protection Coordinator, who considers the results in recommending appropriate protective actions in accordance with EP-545. Once the EOF is functional, that facility assumes primary responsibility for dose assessment. Results should be periodically verified with Environmental Assessment Team members in the TSC.

5.0 Immediate Actions

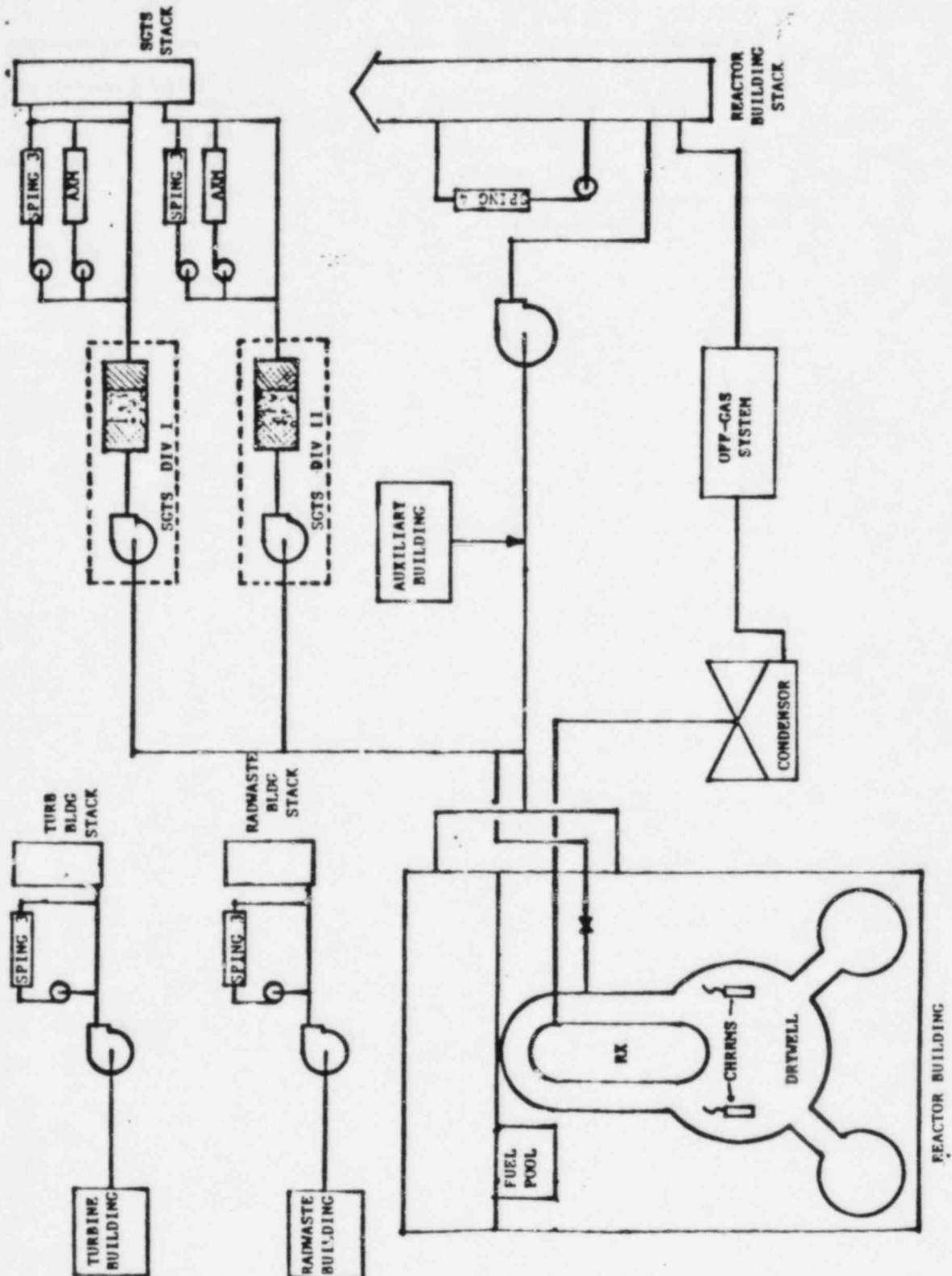
5.1 Selection of proper Attachment

- 5.1.1 Upon receipt of radiological data from monitor readings or sample analysis, refer to Enclosure 3, Manual Dose Assessment Procedure Flowchart, and select the proper Attachment.

5.1.2

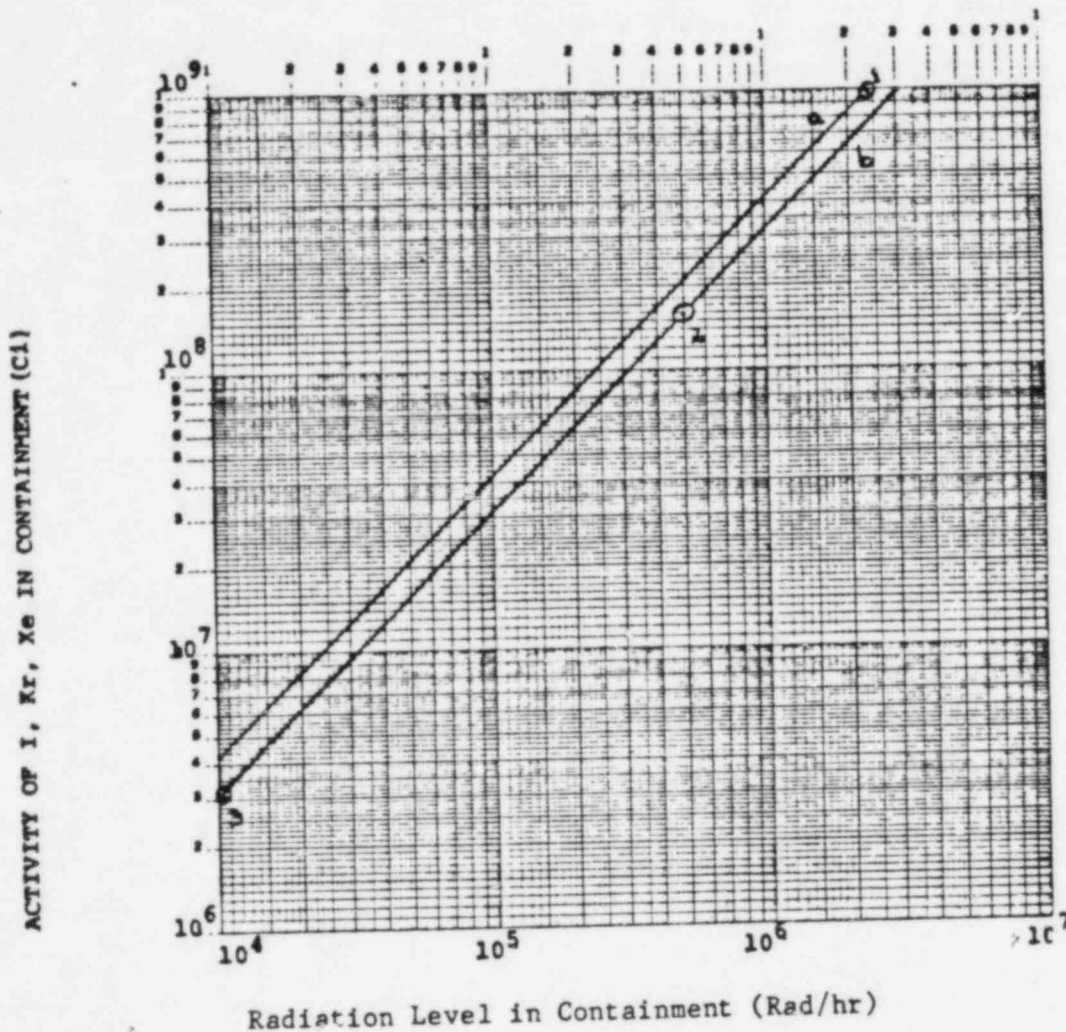
If it is deemed necessary to assess doses at distances other than 0.57, 2, 5, and 10 miles from the reactor, X_0^u values and finite cloud correction factors may be read from graphs in Attachment 5.

PLANT EFFLUENT RADIATION MONITORS



ESTIMATE OF ACTIVITY IN CONTAINMENT
CONTAINMENT HIGH RANGE RADIATION MONITOR
FERMI - 2

(10 MIN POST-SHUTDOWN)

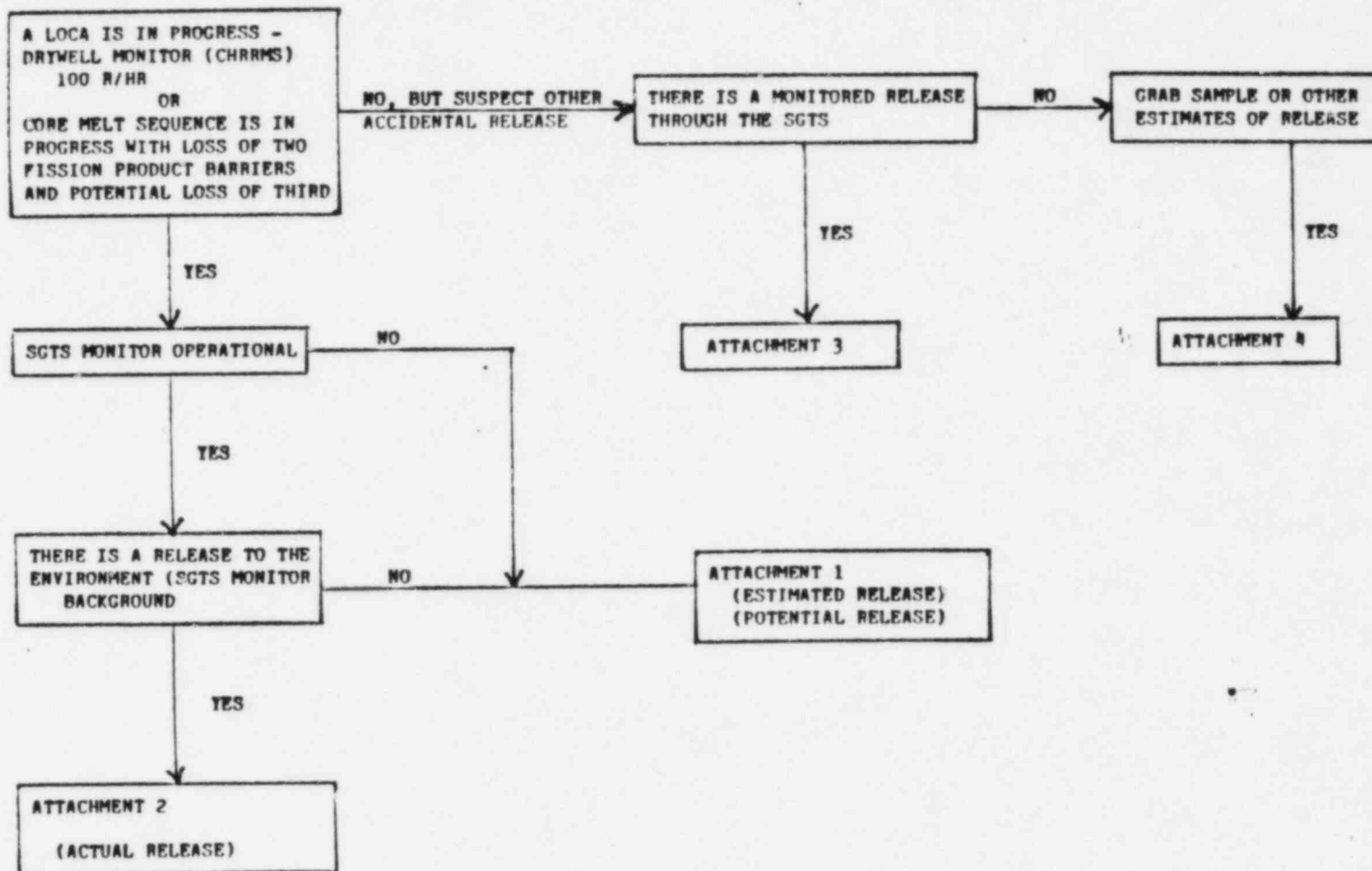


Curve a represents estimated activity levels in the containment following releases in which the ratio of "% noble gases released from the core" to "% iodines released from the core" is equal to 4. Curve b represents estimated activity levels in the containment following releases in which the above mentioned ratio is equal to 1. Specifically, the following points are plotted:

1. 100% noble gases, 25% iodines released
2. 10% noble gases, 10% iodines released
3. 0.2% noble gases, 0.2% iodines released

Coolant activity is equal to 19 curies. If airborne in the containment, the radiation level would be 0.01 Rad/hr, too low to plot on this graph.

MANUAL DOSE ASSESSMENT PROCEDURE FLOWCHART



OFF-SITE RADIOLOGICAL
DOSES AND DOSE RATES DUE TO
A LOSS OF COOLANT ACCIDENT (LOCA)
Based on Drywell (CHRRM) monitor (No SGTS)

This model assumes a release to the drywell resulting in a reading on the containment high range area radiation monitors (CHRRM) sufficiently above ambient background to warrant action.

This procedure assumes that the course of the accident is that of the design basis loss of coolant (LOCA) as described in Reg. Guide 1.3 and FSAR Chapter 15. The release to the reactor building from the containment is assumed to be at the tech spec leakage rate (0.5% per day). AS SUCH THIS IS AN ESTIMATED RELEASE. The actual leakage rate could be higher or lower depending upon containment pressure, integrity of penetration seals, or any number of other conditions.

Information Required:

- o Time since reactor shutdown
- o CHRRM reading
- o Meteorological Data

DATE _____
TIME _____

WORKSHEET 1.1

ESTIMATED 2-, 4-, OR 8-HOUR RELEASES BASED ON DRYWELL MONITOR READINGS
(SGTS MONITOR NOT AVAILABLE)

NOBLE GAS RELEASE

TIME AFTER REACTOR SHUTDOWN OF RELEASE _____ HOURS (A)
 DRYWELL MONITOR READING _____ RAD/HOUR (B)
 DESIGN-BASIS MONITOR READING (FROM FIGURE 1.1.1) _____ RAD/HOUR (C)
 FRACTION OF NOBLES RELEASED = $(B) \div (C)$ _____ (D)
 ESTIMATED DURATION OF RELEASE _____ HOURS (E)
 (2, 4, OR 8 HOURS)

(ENTER (E) ON LINE (J) OF WORKSHEET 1.2)

AVERAGE GAMMA ENERGY _____ MeV (F)
 (FROM (E) AND FIGURE 1.1.2)

(ENTER (F) ON LINE (G) OF WORKSHEET 1.2)

TOTAL RELEASE (FROM (A), (E), AND FIGURE 1.1.3) _____ Ci (G)
 DESIGN BASIS AVERAGE RELEASE RATE = $[(G) \div (E)] \div 3600$ _____ Ci/sec (H)

ESTIMATED AVERAGE RELEASE RATE = $(H) \times (D)$ _____ Ci/sec (J)

(ENTER (J) ON LINE (F) OF WORKSHEET 1.2)

IODINE RELEASE

TOTAL RELEASE (FROM (A), (E), AND FIGURE 1.1.4) _____ Ci eff I-131 (K)

DESIGN BASIS AVERAGE RELEASE RATE = $[(K) \div (E)] \div 3600$ _____ Ci/sec eff I-131 (L)

ESTIMATED AVERAGE RELEASE RATE = $(L) \times (D)$ _____ Ci/sec eff I-131 (M)

(ENTER (M) ON LINE (H) OF WORKSHEET 1.2)

DATE _____
TIME _____

STATE OF MICHIGAN GENERIC METHOD

WORKSHEET 1.2 - WHOLE BODY AND THYROID DOSE

METEOROLOGICAL DATA

RELEASE DATA

ESTIMATED/MEASURED
(CIRCLE ONE)

STABILITY CLASS _____ (A)
BASED ON _____ T(°C)/50M
OR _____ SIGMA THETA (DEGREES)

EFFLUENT RELEASE POINT _____ (E)

NOBLE GAS RELEASE RATE, Ci/sec _____ (F)

WIND SPEED, mph _____ (B)

AVERAGE ENERGY PER
DISINTEGRATION, \bar{E} , MeV _____ (G)

WIND DIRECTION, DEGREES (FROM) _____ (C)

IODINE RELEASE RATE, I-131 EQUIV/CHILD,
RELEASE RATE, Ci/sec _____ (H)

DOWNWIND SECTOR(S) _____ (D)

POTENTIAL RELEASE DURATION, hr _____ (J)

Distance 1 Distance 2 Distance 3 Distance 4
Site Boundary

A. METEOROLOGY, (X/Q)

DISTANCES, Miles 0.57 2 5 10 (K)

$X \frac{u}{Q}$ (USING (A) AND
TABLE 1.2.1) _____ (L)

$X/Q = (L) \div (B)$ _____ (M)

B. WHOLE BODY GAMMA DOSE

SEMI-INFINITE CLOUD
DOSE RATE, mrem/hour _____ (N)
 $= (9 \times 10^5) \times (F) \times (C)$
 $\times (M)$

FINITE CLOUD CORRECTION
FACTOR (FROM TABLE 1.2.2) _____ (P)

DOSE RATE, FINITE CLOUD
mrem/hour $= (N) \div (P)$ _____ (Q)

WHOLE BODY DOSE, rem=
 $(J) \times (Q) \div (1000)$ _____ (R)

C. THYROID DOSE (CHILD)

DOSE RATE, mrem/hr =
 $(1.85 \times 10^9) \times (H) \times (M)$ _____ (S)

THYROID DOSE, rem
 $(J) \times (S) \div (1000)$ _____ (T)

Table 1.2.1

$X \frac{U}{Q}$ AS A FUNCTION OF STABILITY CLASS
AND DOWNWIND DISTANCE

DISTANCE, Mi.	0.57	2	5	10
STABILITY CLASS				
A	1.1×10^{-5}	2.5×10^{-7}	1.6×10^{-8}	2×10^{-9}
B	5.4×10^{-5}	3.9×10^{-6}	5.9×10^{-7}	1.4×10^{-7}
C	1.2×10^{-4}	1.3×10^{-5}	2.5×10^{-6}	7.5×10^{-7}
D	2.9×10^{-4}	4×10^{-5}	9.8×10^{-6}	3.2×10^{-6}
E	5.3×10^{-4}	9×10^{-5}	2.5×10^{-5}	9.1×10^{-6}
F	9×10^{-4}	2.1×10^{-4}	6.5×10^{-5}	2.5×10^{-5}
G	1.3×10^{-3}	4.1×10^{-4}	1.5×10^{-4}	6×10^{-5}

Table 1.2.2

FINITE CLOUD CORRECTION FACTOR

DISTANCE, Mi.	0.57	2	5	10
STABILITY CLASS				
A	1.2	1.1	1.07	1.03
B	1.7	1.15	1.08	1.04
C	2.15	1.28	1.1	1.05
D	3.1	1.9	1.4	1.21
E	3.8	2.42	1.85	1.55
F	4.9	3.05	2.35	1.9
G	6.37	3.95	2.95	2.42

DRYWELL MONITOR READING VS TIME

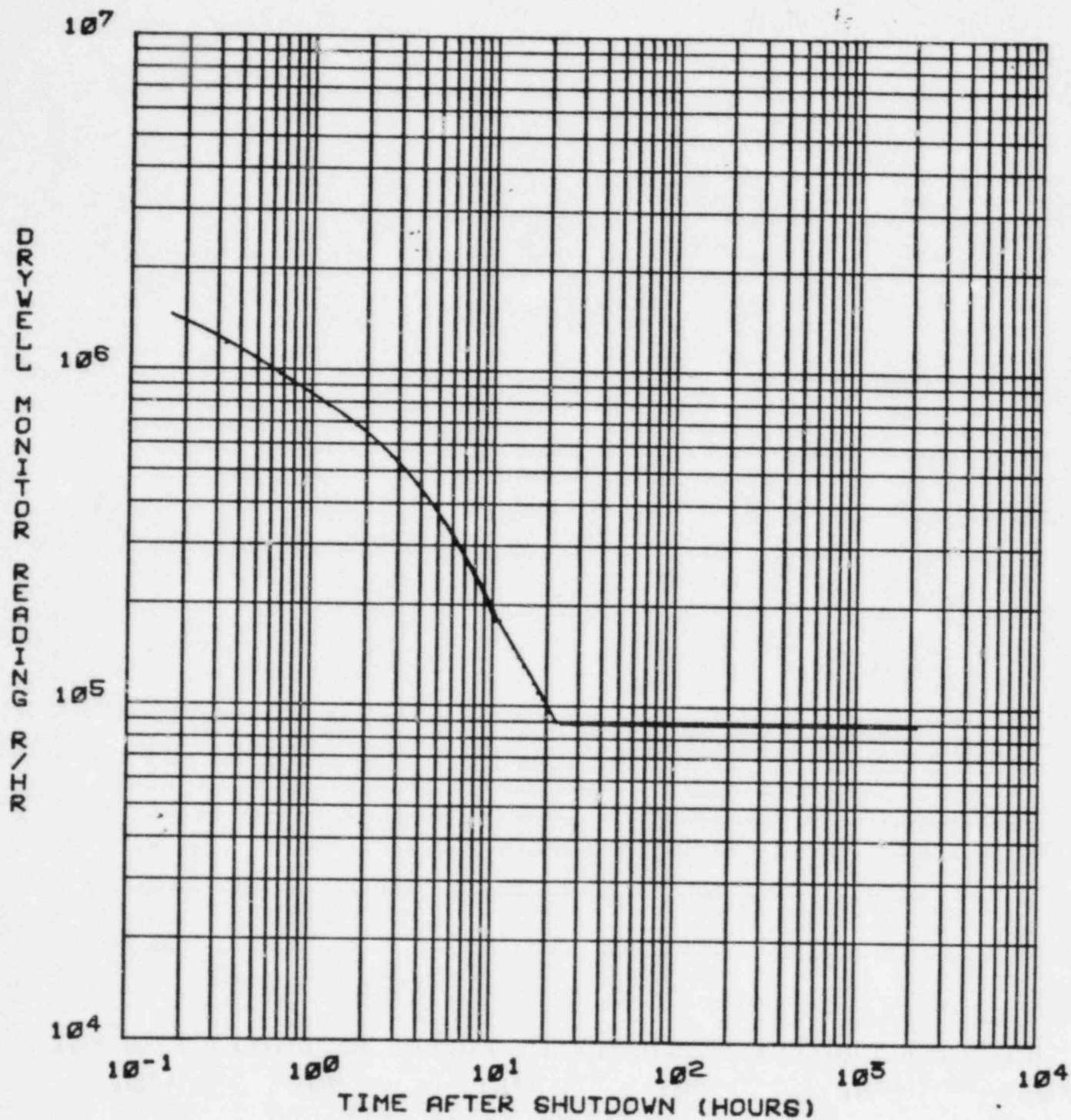


FIGURE 1.1.1

AVG NOBLE GAS ENERGY OF TOT RELEASES

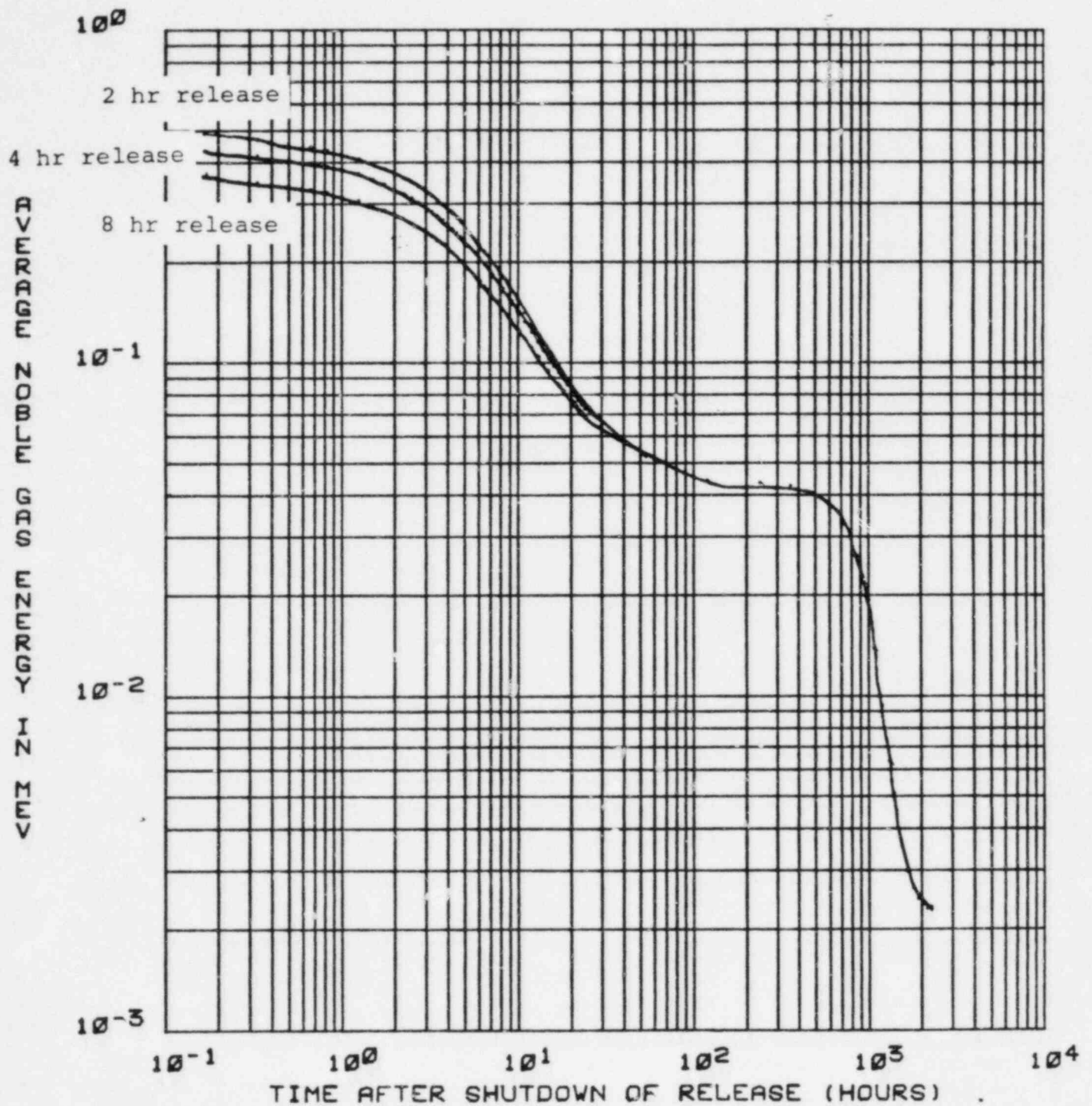


FIGURE 1.1.2

TOTAL RELEASE - 100% OF NOBLES TO DRYWELL

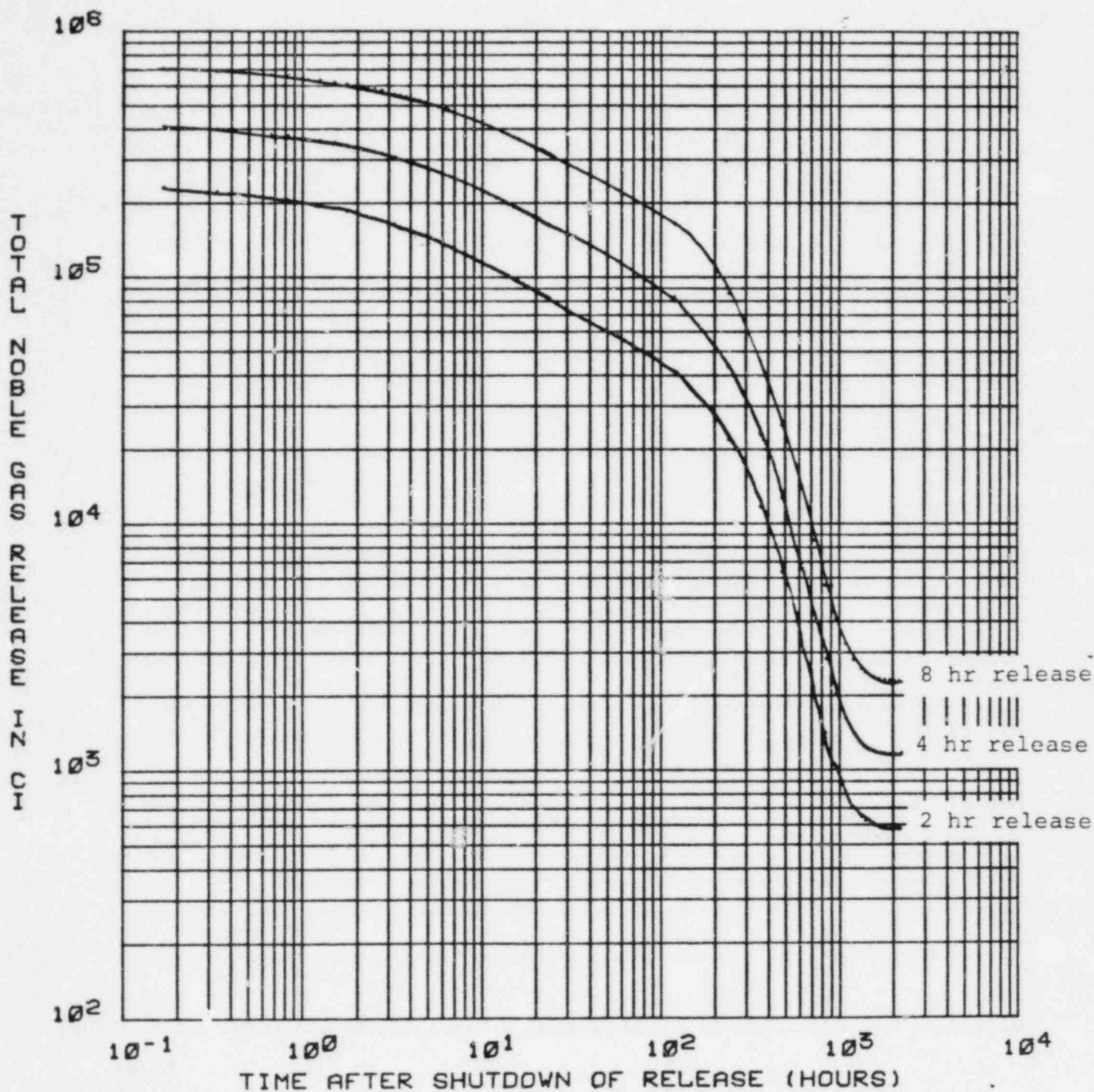


FIGURE 1.1.3

TOTAL RELEASE - 2% OF IODINES TO DRYWELL

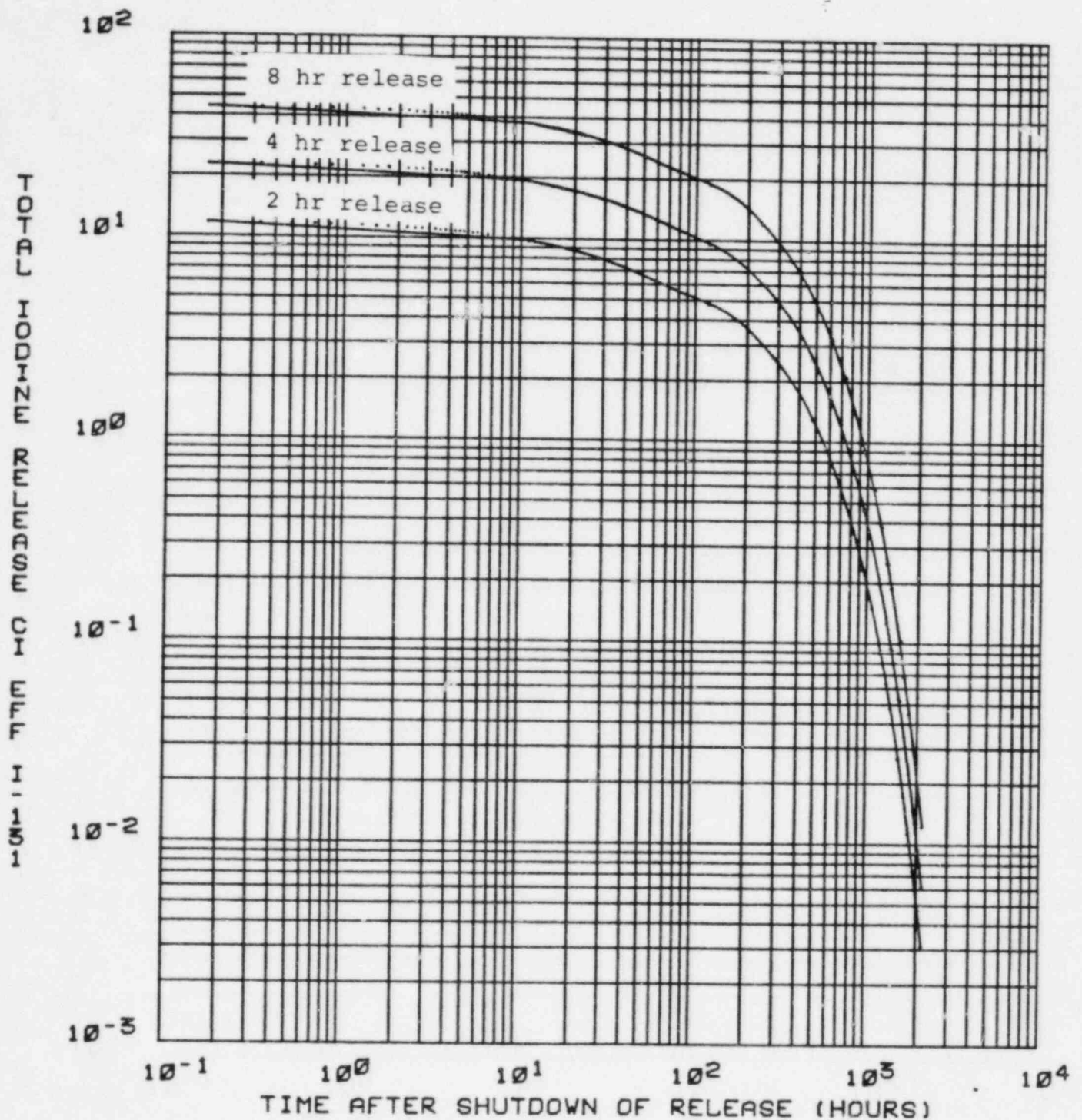


FIGURE 1.1.4

OFF-SITE RADIOLOGICAL DOSES AND
DOSE RATES DUE TO RELEASES THROUGH
THE SGTS FROM A LOCA

This procedure calculates actual releases to the environment based on the SGTS monitor reading. An energy correction for the SPING monitor output is provided assuming the accident scenario is that of a design-basis LOCA.

Information Required:

- o Time since reactor shutdown
- o SGTS monitor reading
- o Meteorological Data

DATE _____
TIME _____

WORKSHEET 2.1

RELEASE RATE BASED ON SGTS MONITOR READING

I. NOBLE GAS RELEASE RATE

TIME SINCE REACTOR SHUTDOWN, HOURS _____ (A)

SGTS MONITOR READING, uCi/cc _____ (B)

MONITOR CALIBRATION CORRECTION
FACTOR (FROM FIGURE 2.1.1) _____ (C)

NOBLE GAS RELEASE RATE Ci/sec
(B) x (C) x 1.416,
(ENTER (D) ON LINE (F) OF WORKSHEET 2.2) _____ (D)*

AVERAGE ENERGY OF MIX, MeV
(FROM FIGURE 2.1.2),
(ENTER (E) ON LINE (G) OF WORKSHEET 2.2) _____ (E)*

II. I-131 EQUIVALENT RELEASE RATE

CONSULT WITH CONTROL ROOM TO DETERMINE WHETHER THE ABOVE READINGS COME
FROM SGTS MONITOR OR ACCIDENT-RANGE MONITOR.

a. SGTS MONITOR

SGTS IODINE MONITOR READING, uCi/cc _____ (F)

IODINE MONITOR CORRECTION FACTOR
(Figure 2.1.3) _____ (G)

IODINE RELEASE RATE, Ci/sec
(F) x (G) x 1.416,
(ENTER (H) ON LINE (H) OF WORKSHEET 2.2) _____ (H)*

b. ACCIDENT RANGE MONITOR

NOBLE GAS RELEASE RATE, Ci/sec,
(FROM LINE (D) ABOVE) _____ (J)

IODINE RELEASE RATE, Ci/sec
(J) x 10^{-3} ,
(ENTER (K) ON LINE (H) OF WORKSHEET 2.2) _____ (K)

*THIS INFORMATION IS ALSO PROVIDED TO THE STATE.

DATE _____
TIME _____

STATE OF MICHIGAN GENERIC METHOD

WORKSHEET 2.2 - WHOLE BODY AND THYROID DOSE

METEOROLOGICAL DATA

RELEASE DATA

ESTIMATED/MEASURED
(CIRCLE ONE)

STABILITY CLASS _____ (A)

BASED ON _____ T(°C)/50M

OR _____ SIGMA THETA (DEGREES)

WIND SPEED, mph _____ (B)

WIND DIRECTION, DEGREES (FROM) _____ (C)

DOWNWIND SECTOR(S) _____ (D)

EFFLUENT RELEASE POINT _____ (E)

NOBLE GAS RELEASE RATE, Ci/sec _____ (F)

AVERAGE ENERGY PER
DISINTEGRATION, \bar{E} , MeV _____ (G)

IODINE RELEASE RATE, I-131 EQUIV/CHILD,
RELEASE RATE, Ci/sec _____ (H)

POTENTIAL RELEASE DURATION, hr _____ (J)

Distance 1 Distance 2 Distance 3 Distance 4
Site Boundary

A. METEOROLOGY, (X/Q)

DISTANCES, Miles _____ 0.57 _____ 2 _____ 5 _____ 10 _____ (K)

X_u/Q (USING (A) AND
TABLE 2.2.1) _____ (L)

$X/Q = (L) \div (B)$ _____ (M)

B. WHOLE BODY GAMMA DOSE

SEMI-INFINITE CLOUD
DOSE RATE, mrem/hour
 $= (9 \times 10^5) \times (F) \times (G)$
 $\times (M)$ _____ (N)

FINITE CLOUD CORRECTION
FACTOR (FROM TABLE 2.2.2) _____ (P)

DOSE RATE, FINITE CLOUD
mrem/hour $= (N) \div (P)$ _____ (Q)

WHOLE BODY DOSE, rem=
 $(J) \times (Q) \div (1000)$ _____ (R)

C. THYROID DOSE (CHILD)

DOSE RATE, mrem/hr =
 $(1.85 \times 10^9) \times (H) \times (M)$ _____ (S)

THYROID DOSE, rem
 $(J) \times (S) \div (1000)$ _____ (T)

Table 2.2.1

$\frac{x_u}{Q}$ AS A FUNCTION OF STABILITY CLASS
AND DOWNWIND DISTANCE

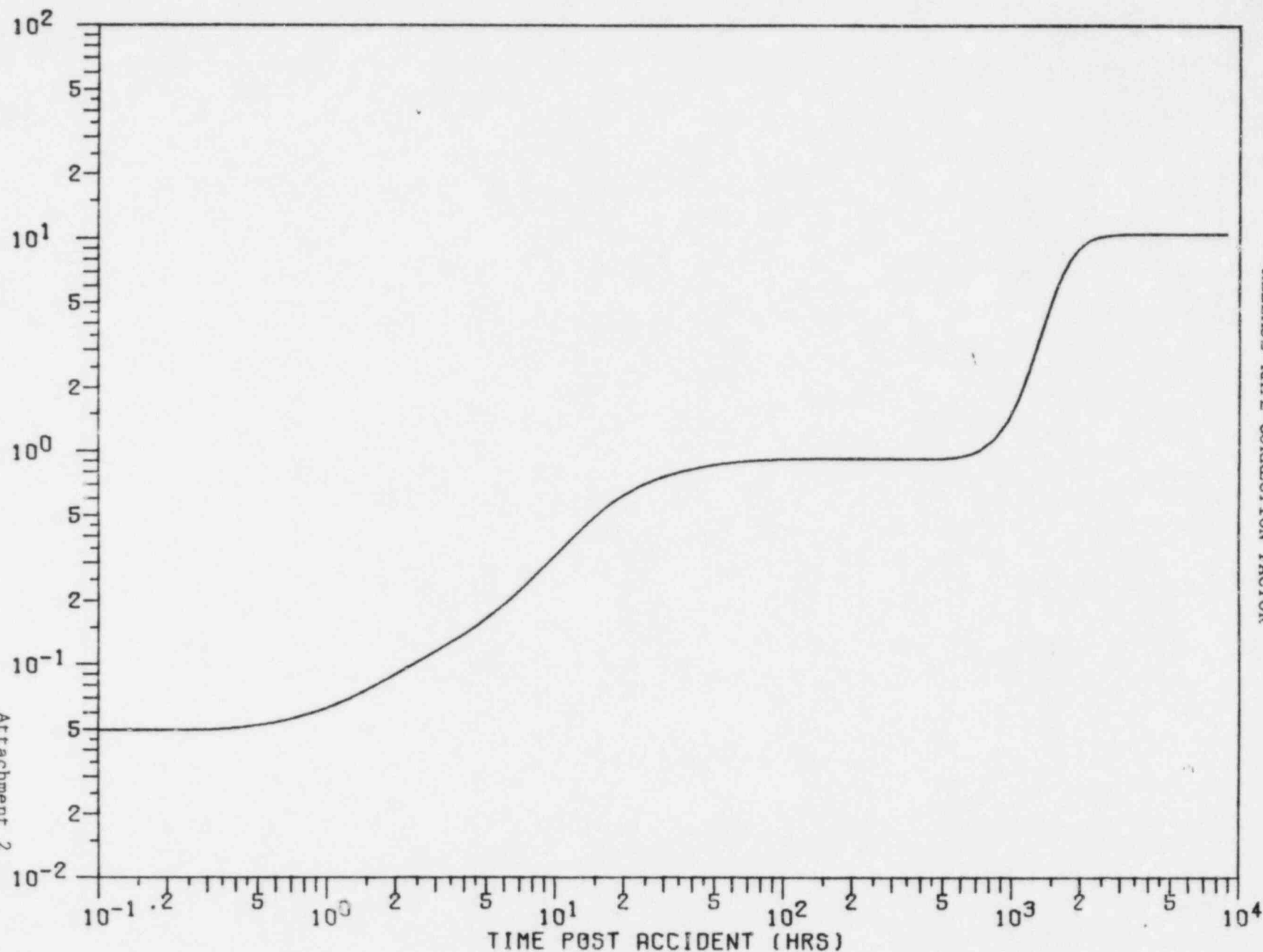
DISTANCE, Mi.	0.57	2	5	10
STABILITY CLASS				
A	1.1×10^{-5}	2.5×10^{-7}	1.6×10^{-8}	2×10^{-9}
B	5.4×10^{-5}	3.9×10^{-6}	5.9×10^{-7}	1.4×10^{-7}
C	1.2×10^{-4}	1.3×10^{-5}	2.5×10^{-6}	7.5×10^{-7}
D	2.9×10^{-4}	4×10^{-5}	9.8×10^{-6}	3.2×10^{-6}
E	5.3×10^{-4}	9×10^{-5}	2.5×10^{-5}	9.1×10^{-6}
F	9×10^{-4}	2.1×10^{-4}	6.5×10^{-5}	2.5×10^{-5}
G	1.3×10^{-3}	4.1×10^{-4}	1.5×10^{-4}	6×10^{-5}

Table 2.2.2

FINITE CLOUD CORRECTION FACTOR

DISTANCE, Mi.	0.57	2	5	10
STABILITY CLASS				
A	1.2	1.1	1.07	1.03
B	1.7	1.15	1.08	1.04
C	2.15	1.28	1.1	1.05
D	3.1	1.9	1.4	1.21
E	3.8	2.42	1.85	1.55
F	4.9	3.05	2.35	1.9
G	6.37	3.95	2.95	2.42

RELEASE RATE CORRECTION FACTOR



XE-133 EQ. RELEASE RATE CORRECTION FACTOR FOR SA-9

FIGURE 2.1.1

Attachment 2
Page 5 of 7

AVERAGE DISINTEGRATION ENERGY OF NOBLES

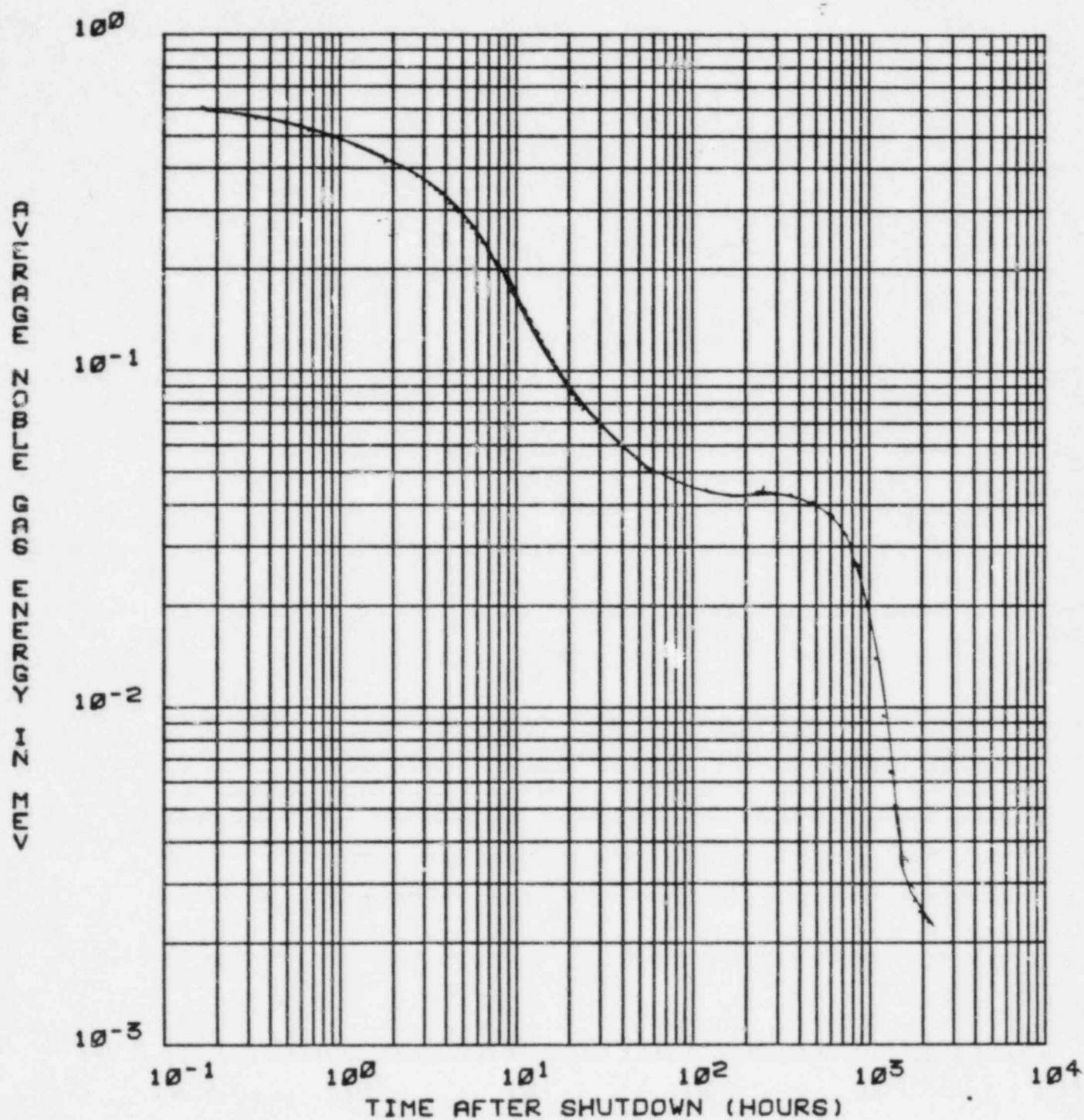


FIGURE 2.1.2

IODINE-131 CORRECTION FACTOR

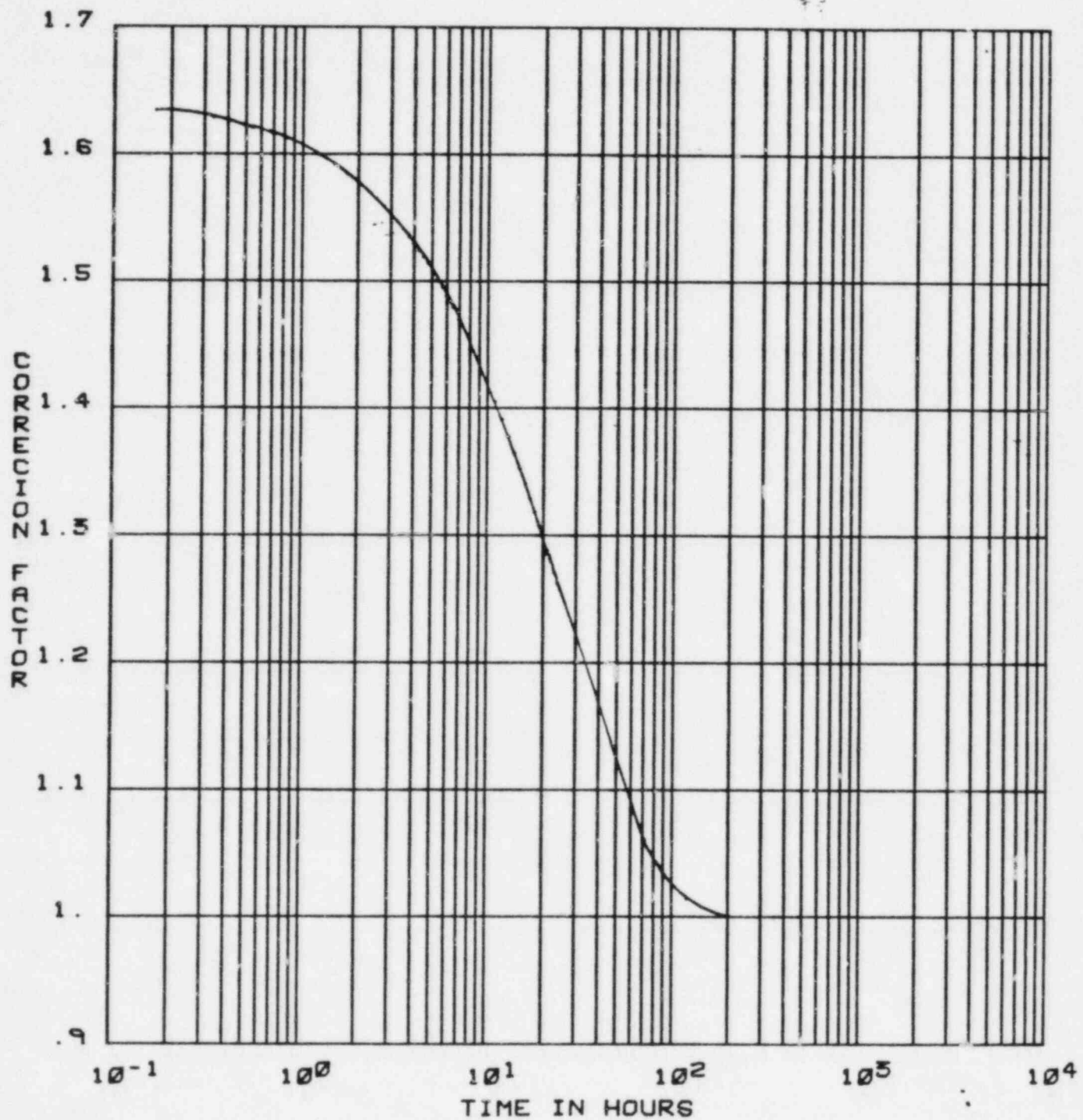


FIGURE 2.1.3

OFF-SITE RADIOLOGICAL DOSES AND
DOSE RATES DUE TO MONITORED RELEASES
THROUGH SGTS (Non-LOCA)

This procedure calculates actual releases to the environment based on the SGTS monitor reading. The accident scenario is not a LOCA, but of some other source; therefore, no prior energy correction can be calculated or provided. The conservative Xe-133 monitor calibration is assumed.

Information Required:

- o SGTS monitor reading
- o Meteorological Data

DATE _____
TIME _____

WORKSHEET 3.1

RELEASE RATE BASED ON SGTS MONITOR READING

I. NOBLE GAS RELEASE RATE

SGTS NOBLE GAS MONITOR READING, uCi/cc _____ (A)

NOBLE GAS RELEASE RATE, Ci/sec

(A) X 1.416,

(ENTER (B) ON LINE (F) OF WORKSHEET 3.2) _____ (B)*

AVERAGE ENERGY OF MIX, MeV

(FROM RAD-CHEM OR OTHER ESTIMATE; 0.045 MeV
IS A DEFAULT VALUE.)

(ENTER (C) ON LINE (G) OF WORKSHEET 3.2) _____ (C)*

II. I-131 EQUIVALENT RELEASE RATE

CONSULT WITH CONTROL ROOM TO DETERMINE WHETHER THE ABOVE READINGS COME
FROM SGTS MONITOR OR ACCIDENT-RANGE MONITOR.

a. SGTS MONITOR

SGTS IODINE MONITOR READING, uCi/cc _____ (D)

IODINE MONITOR CORRECTION FACTOR
(FIGURE 3.1.1) _____ (E)

IODINE RELEASE RATE, Ci/sec

(D) x (E) x 1.416,

(ENTER (F) ON LINE (H) OF WORKSHEET 3.2) _____ (F)*

b. ACCIDENT RANGE MONITOR

NOBLE GAS RELEASE RATE, Ci/sec,
(FROM LINE (B) ABOVE) _____ (G)

IODINE RELEASE RATE, Ci/sec

(G) x 10^{-3} ,

(ENTER (H) ON LINE (H) OF WORKSHEET 3.2) _____ (H)

*THIS INFORMATION IS ALSO PROVIDED TO THE STATE.

DATE _____
TIME _____

STATE OF MICHIGAN GENERIC METHOD

WORKSHEET 3.2 - WHOLE BODY AND THYROID DOSE

METEOROLOGICAL DATA

RELEASE DATA

ESTIMATED/MEASURED
(CIRCLE ONE)

STABILITY CLASS _____ (A)
BASED ON _____ T(°C)/50M
OR _____ SIGMA THETA (DEGREES)

EFFLUENT RELEASE POINT _____ (E)

WIND SPEED, mph _____ (B)

NOBLE GAS RELEASE RATE, Ci/sec _____ (F)
AVERAGE ENERGY PER
DISINTEGRATION, \bar{E} , MeV _____ (G)

WIND DIRECTION, DEGREES (FROM) _____ (C)

DOWNWIND SECTOR(S) _____ (D)

IODINE RELEASE RATE, I-131 EQUIV/CHILD,
RELEASE RATE, Ci/sec _____ (H)

POTENTIAL RELEASE DURATION, hr _____ (J)

Distance 1 Distance 2 Distance 3 Distance 4
Site Boundary

A. METEOROLOGY, (X/Q)

DISTANCES, Miles _____ 0.57 _____ 2 _____ 5 _____ 10 _____ (K)

X/Q (USING (A) AND
TABLE 3.2.1) _____ (L)

$X/Q = (L) \div (B)$ _____ (M)

B. WHOLE BODY GAMMA DOSE

SEMI-INFINITE CLOUD
DOSE RATE, mrem/hour _____ (N)
 $= (9 \times 10^5) \times (F) \times (G)$
 $\times (M)$

FINITE CLOUD CORRECTION
FACTOR (FROM TABLE 3.2.2) _____ (P)

DOSE RATE, FINITE CLOUD
mrem/hour $= (N) \div (P)$ _____ (Q)

WHOLE BODY DOSE, rem=
 $(J) \times (Q) \div (1000)$ _____ (R)

C. THYROID DOSE (CHILD)

DOSE RATE, mrem/hr =
 $(1.85 \times 10^9) \times (H) \times (M)$ _____ (S)

THYROID DOSE, rem
 $(J) \times (S) \div (1000)$ _____ (T)

Table 3.2.1

$\frac{x_u}{Q}$ AS A FUNCTION OF STABILITY CLASS
AND DOWNWIND DISTANCE

DISTANCE, Mi.	0.57	2	5	10
STABILITY CLASS				
A	1.1×10^{-5}	2.5×10^{-7}	1.6×10^{-8}	2×10^{-9}
B	5.4×10^{-5}	3.9×10^{-6}	5.9×10^{-7}	1.4×10^{-7}
C	1.2×10^{-4}	1.3×10^{-5}	2.5×10^{-6}	7.5×10^{-7}
D	2.9×10^{-4}	4×10^{-5}	9.8×10^{-6}	3.2×10^{-6}
E	5.3×10^{-4}	9×10^{-5}	2.5×10^{-5}	9.1×10^{-6}
F	9×10^{-4}	2.1×10^{-4}	6.5×10^{-5}	2.5×10^{-5}
G	1.3×10^{-3}	4.1×10^{-4}	1.5×10^{-4}	6×10^{-5}

Table 3.2.2

FINITE CLOUD CORRECTION FACTOR

DISTANCE, Mi.	0.57	2	5	10
STABILITY CLASS				
A	1.2	1.1	1.07	1.03
B	1.7	1.15	1.08	1.04
C	2.15	1.28	1.1	1.05
D	3.1	1.9	1.4	1.21
E	3.8	2.42	1.85	1.55
F	4.9	3.05	2.35	1.9
G	6.37	3.95	2.95	2.42

IODINE-131 CORRECTION FACTOR

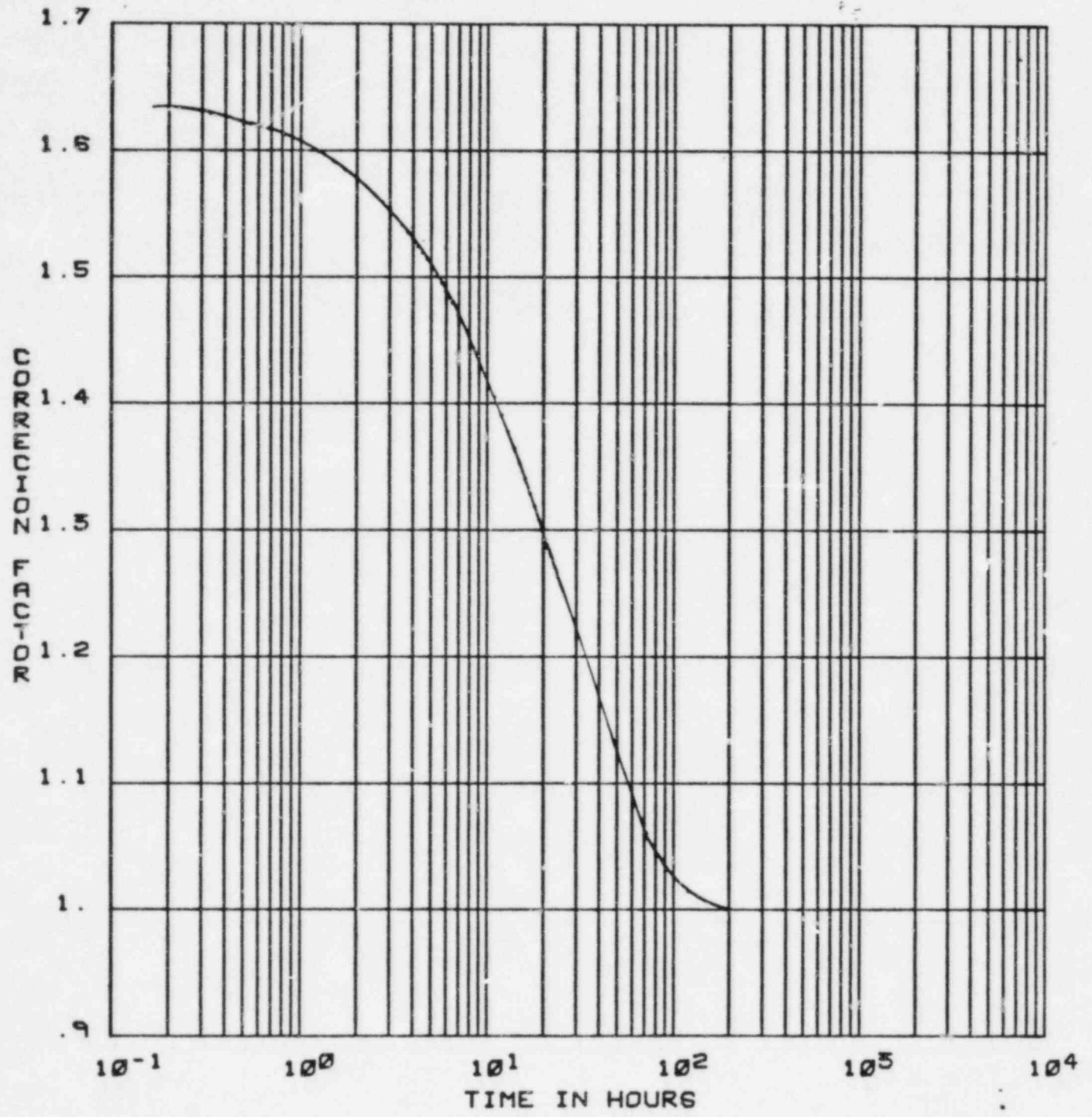


FIGURE 3.1.1

OFF-SITE RADIOLOGICAL DOSES AND
DOSE RATES DUE TO UNMONITORED RELEASES
THROUGH BUILDING VENT STACKS

This procedure assumes that grab sample information, fan flow rates, or other information is available to permit the user to provide the total radioactivity release rate of noble gas (Curies/sec) and its corresponding average energy for dose assessment. Meteorological data is also required.

DATE _____
TIME _____

WORKSHEET 4.1

RELEASE INFORMATION BASED ON SAMPLE ANALYSIS RESULTS

Gaseous effluent sample analysis results, when available, should be used to obtain release information for dose assessment.

I. NOBLE GAS RELEASE RATE

TOTAL RELEASE RATE OF ALL NOBLE GASES

(EXCLUDING THOSE WITH $T_{1/2} < 15$ MINUTES) _____ Ci/sec (A)

(ENTER (A) ON LINE (F) OF WORKSHEET 4.2.)

II. AVERAGE GAMMA ENERGY = _____ MeV (B)

(EXCLUDE IODINES, AND NOBLES WITH $T_{1/2} < 15$ MINUTES)

(ENTER (B) ON LINE (G) OF WORKSHEET 4.2.)

III. IODINE RELEASE RATE

RELEASE RATE (Ci/sec EFF I-131) = _____ Ci/sec EFF I-131 (C)

(ENTER (C) ON LINE (H) OF WORKSHEET 4.2.)

DATE _____
TIME _____STATE OF MICHIGAN GENERIC METHODWORKSHEET 4.2 - WHOLE BODY AND THYROID DOSEMETEOROLOGICAL DATA

STABILITY CLASS _____ (A)
BASED ON _____ T(°C)/50M
OR _____ SIGMA THETA (DEGREES)
WIND SPEED, mph _____ (B)
WIND DIRECTION, DEGREES (FROM) _____ (C)
DOWNWIND SECTOR(S) _____ (D)

RELEASE DATA

EFFLUENT RELEASE POINT _____ (E)
NOBLE GAS RELEASE RATE, Ci/sec _____ (F)
AVERAGE ENERGY PER
DISINTEGRATION, \bar{E} , MeV _____ (G)
IODINE RELEASE RATE, I-131 EQUIV/CHILD,
RELEASE RATE, Ci/sec _____ (H)
POTENTIAL RELEASE DURATION, hr _____ (J)

ESTIMATED/MEASURED
(CIRCLE ONE)

Distance 1 Distance 2 Distance 3 Distance 4
Site Boundary

A. METEOROLOGY, (X/Q)

DISTANCES, Miles 0.57 2 5 10 (K)
 $\frac{X^u}{Q}$ (USING (A) AND (L)
TABLE 4.2.1)
X/Q = (L) ÷ (B) (M)

B. WHOLE BODY GAMMA DOSE

SEMI-INFINITE CLOUD (N)
DOSE RATE, mrem/hour
= $(9 \times 10^5) \times (F) \times (G)$
X (M)
FINITE CLOUD CORRECTION (P)
FACTOR (FROM TABLE 4.2.2)
DOSE RATE, FINITE CLOUD (Q)
mrem/hour = (N) ÷ (P)
WHOLE BODY DOSE, rem= (R)
(J) X (Q) ÷ (1000)

C. THYROID DOSE (CHILD)

DOSE RATE, mrem/hr = (S)
 $(1.85 \times 10^9) \times (H) \times (M)$
THYROID DOSE, rem (T)
(J) X (S) ÷ (1000)

Table 4.2.1

$\frac{x^u}{Q}$ AS A FUNCTION OF STABILITY CLASS
AND DOWNWIND DISTANCE

DISTANCE, Mi.	0.57	2	5	10
STABILITY CLASS				
A	1.1×10^{-5}	2.5×10^{-7}	1.6×10^{-8}	2×10^{-9}
B	5.4×10^{-5}	3.9×10^{-6}	5.9×10^{-7}	1.4×10^{-7}
C	1.2×10^{-4}	1.3×10^{-5}	2.5×10^{-6}	7.5×10^{-7}
D	2.9×10^{-4}	4×10^{-5}	9.8×10^{-6}	3.2×10^{-6}
E	5.3×10^{-4}	9×10^{-5}	2.5×10^{-5}	9.1×10^{-6}
F	9×10^{-4}	2.1×10^{-4}	6.5×10^{-5}	2.5×10^{-5}
G	1.3×10^{-3}	4.1×10^{-4}	1.5×10^{-4}	6×10^{-5}

Table 4.2.2

FINITE CLOUD CORRECTION FACTOR

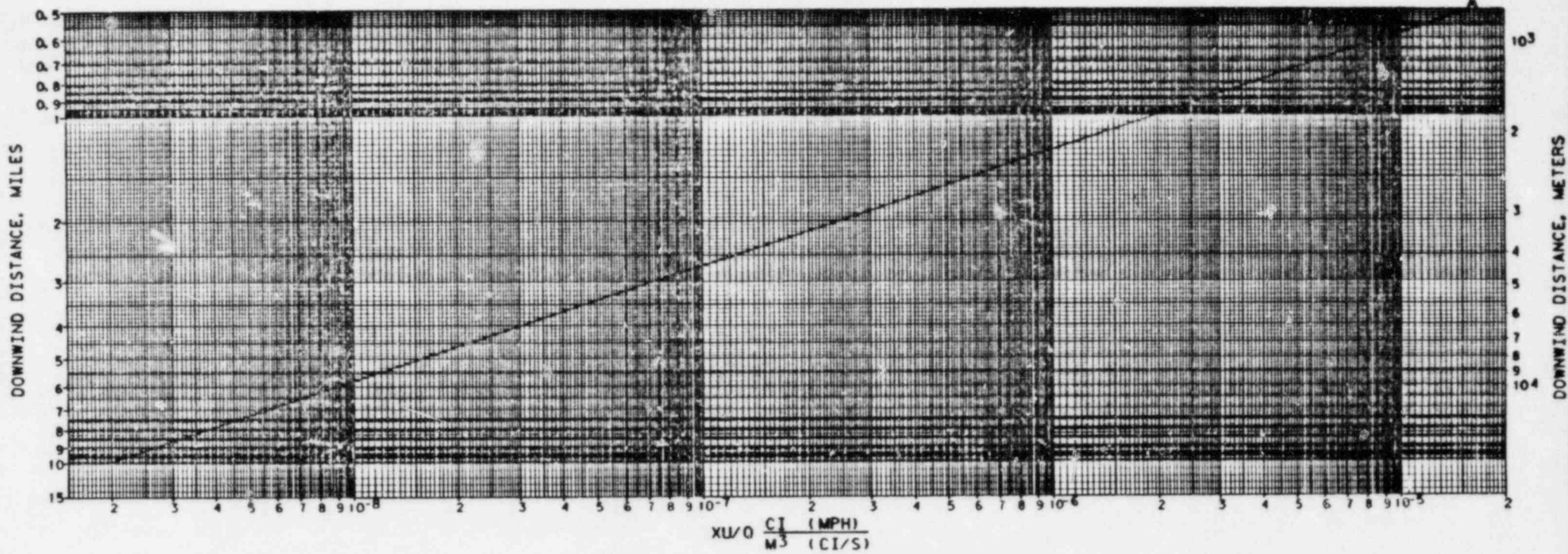
DISTANCE, Mi.	0.57	2	5	10
STABILITY CLASS				
A	1.2	1.1	1.07	1.03
B	1.7	1.15	1.08	1.04
C	2.15	1.28	1.1	1.05
D	3.1	1.9	1.4	1.21
E	3.8	2.42	1.85	1.55
F	4.9	3.05	2.35	1.9
G	6.37	3.95	2.95	2.42

ATTACHMENT 5

Figures 5.1 through 5.7 are used to determine $\frac{x}{z_0}$ values for stability classes A through G at various down wind distances.

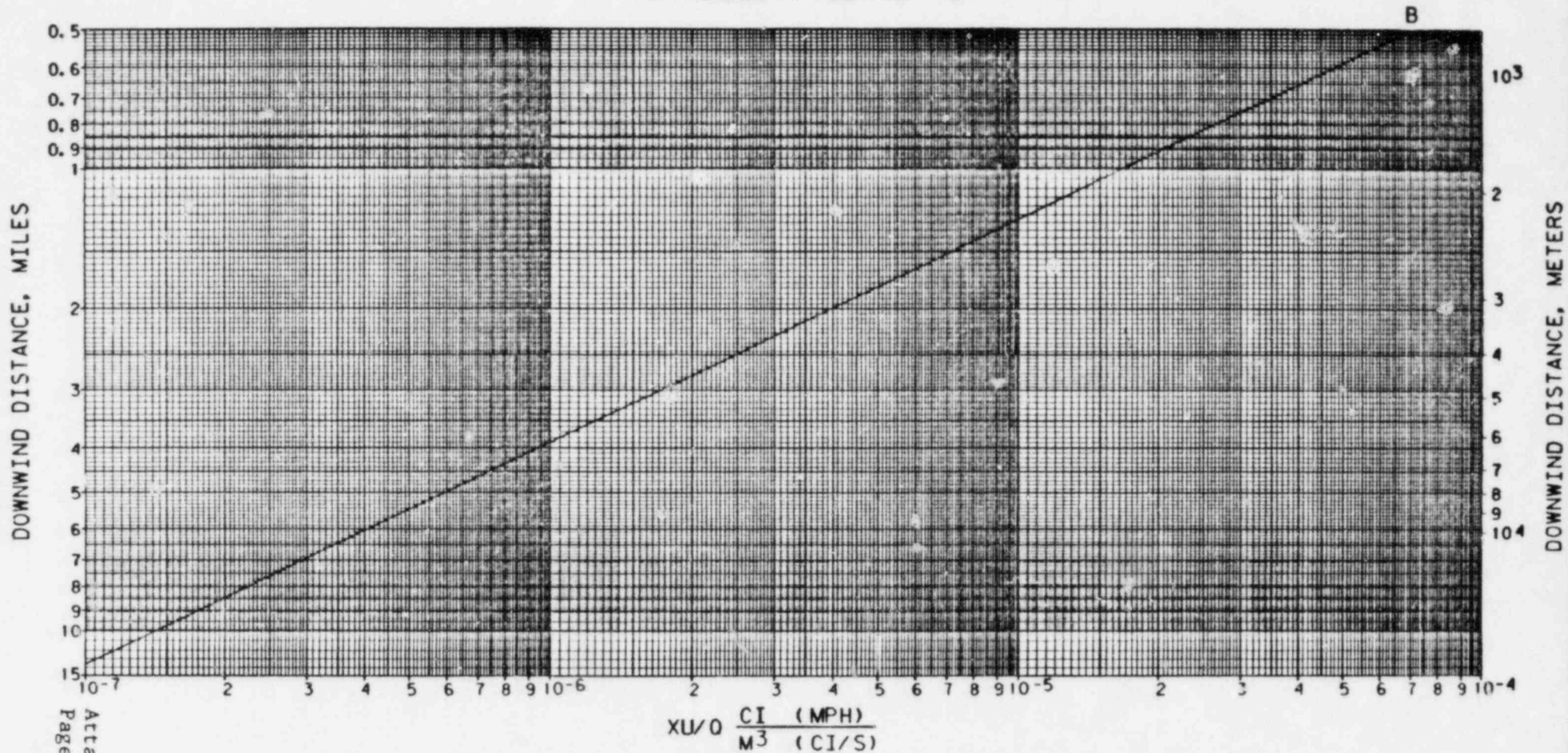
Figure 5.8 is used to determine the finite cloud correction factor at various downwind distances.

STABILITY CLASS 'A'



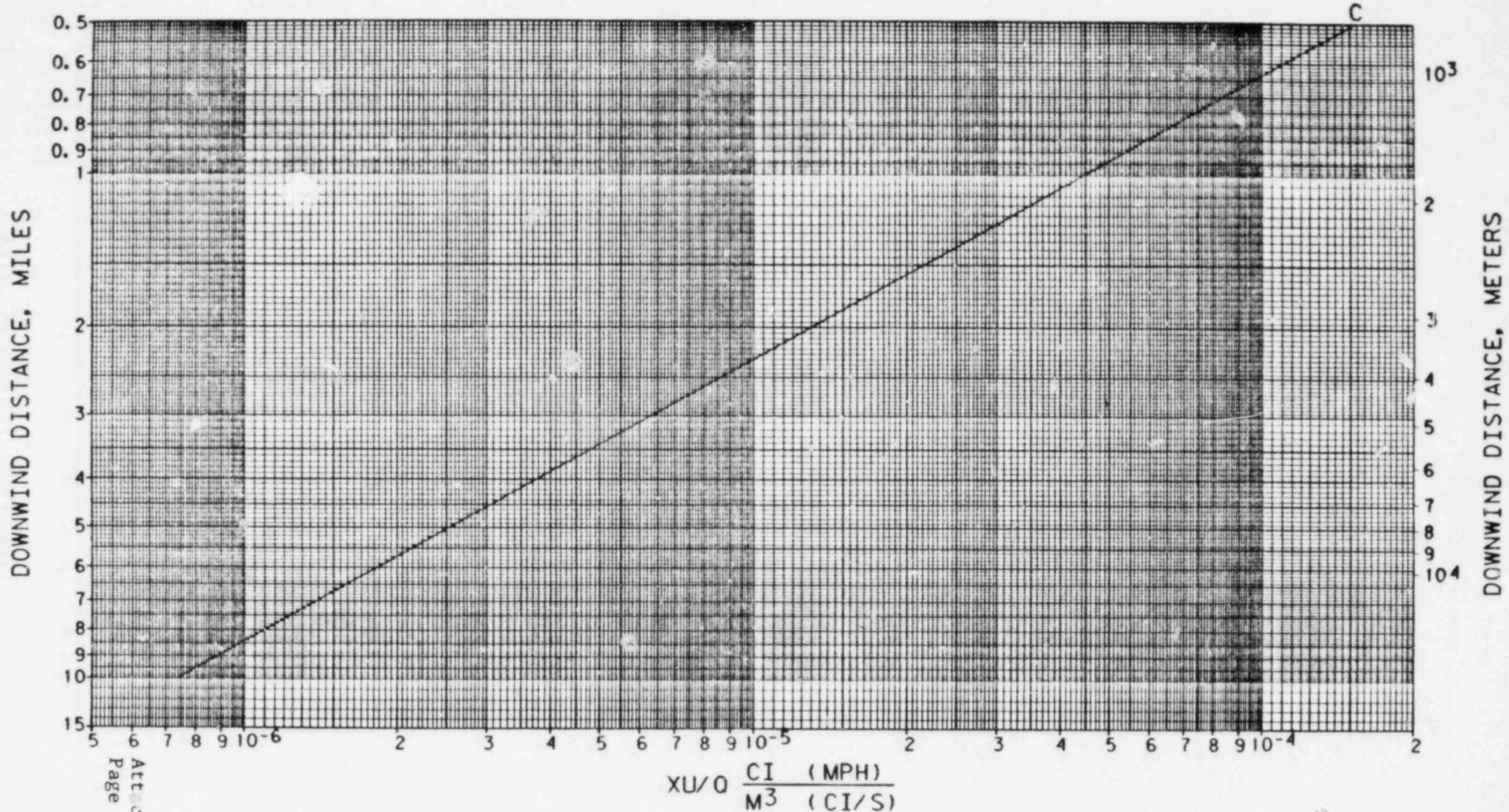
GROUND LEVEL RELEASE WITH WAKE EFFECT
FIGURE 5.1.

STABILITY CLASS "B"



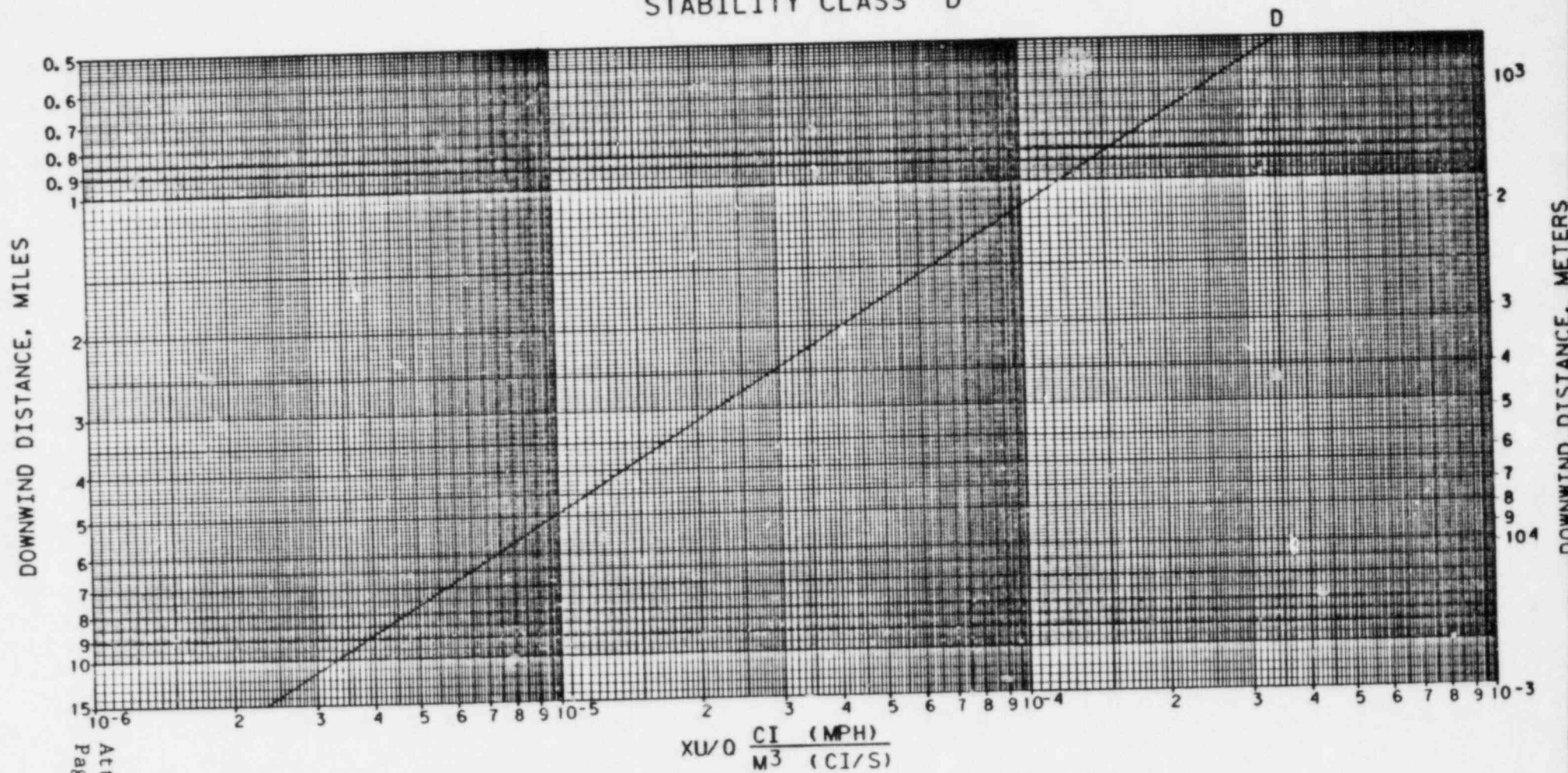
GROUND LEVEL RELEASE WITH WAKE EFFECT
FIGURE 5.2.

STABILITY CLASS 'C'



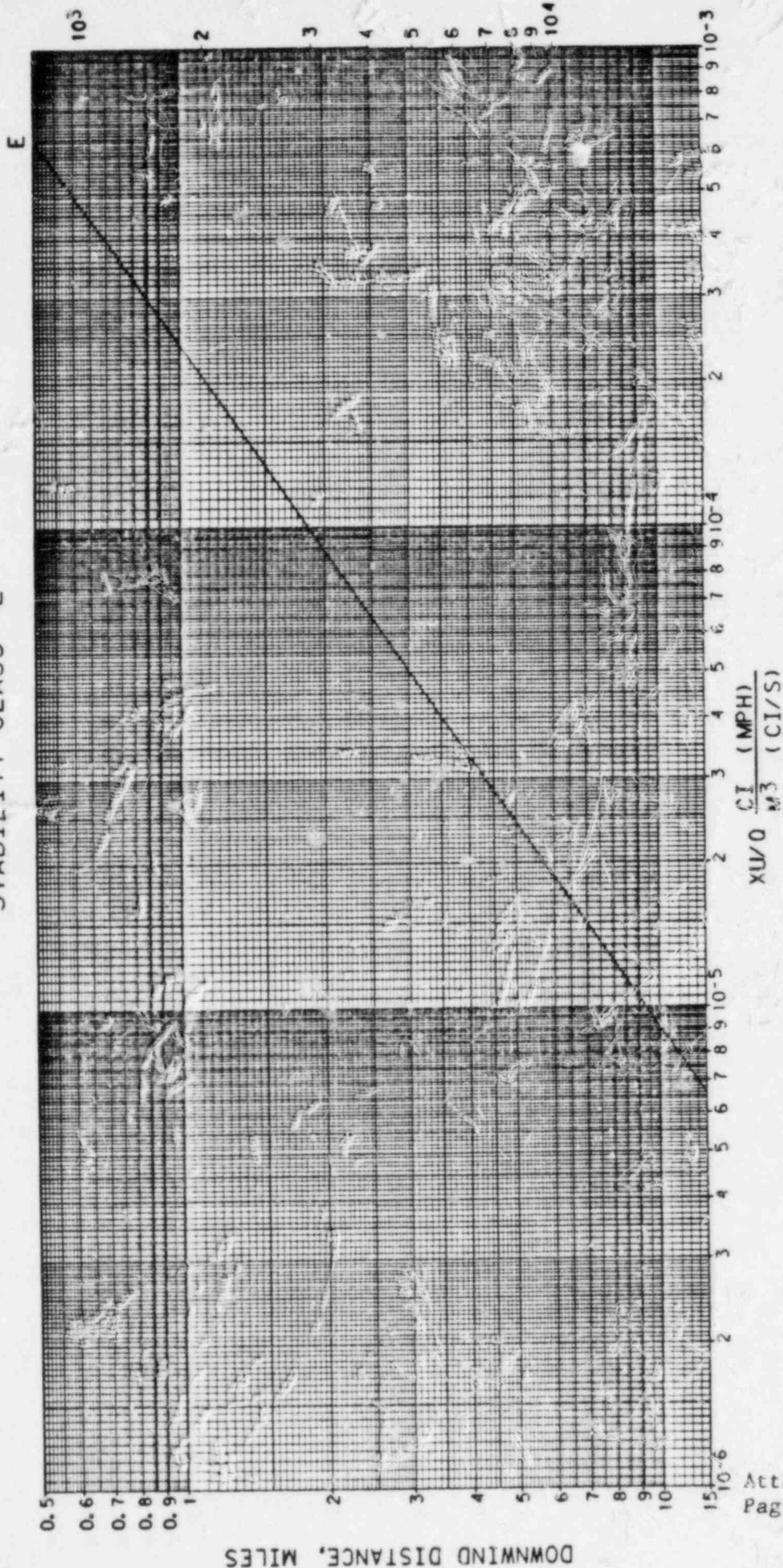
GROUND LEVEL RELEASE WITH WAKE EFFECT
FIGURE 5.3.

STABILITY CLASS "D"



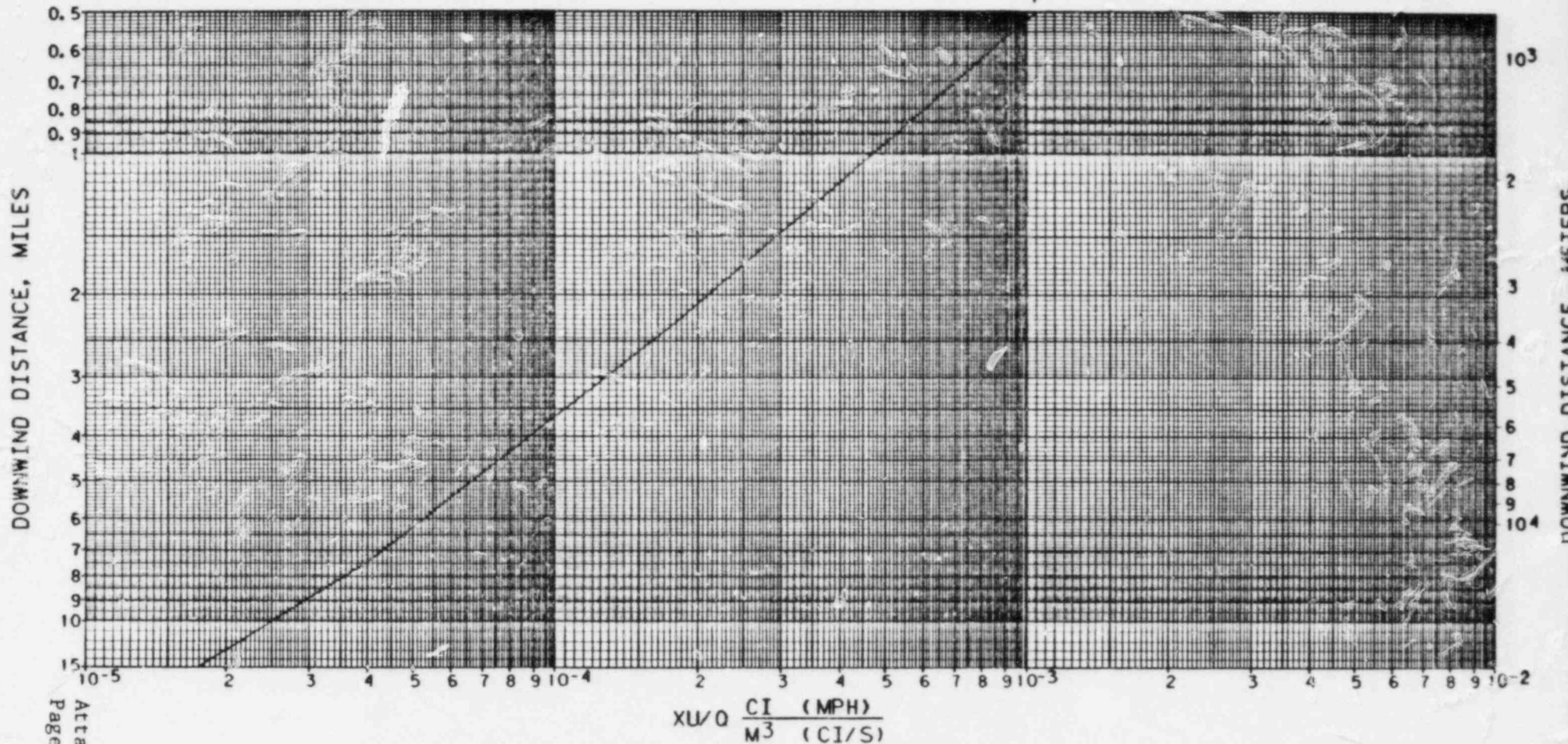
GROUND LEVEL RELEASE WITH WAKE EFFECT
FIGURE 5.4.

STABILITY CLASS "E"



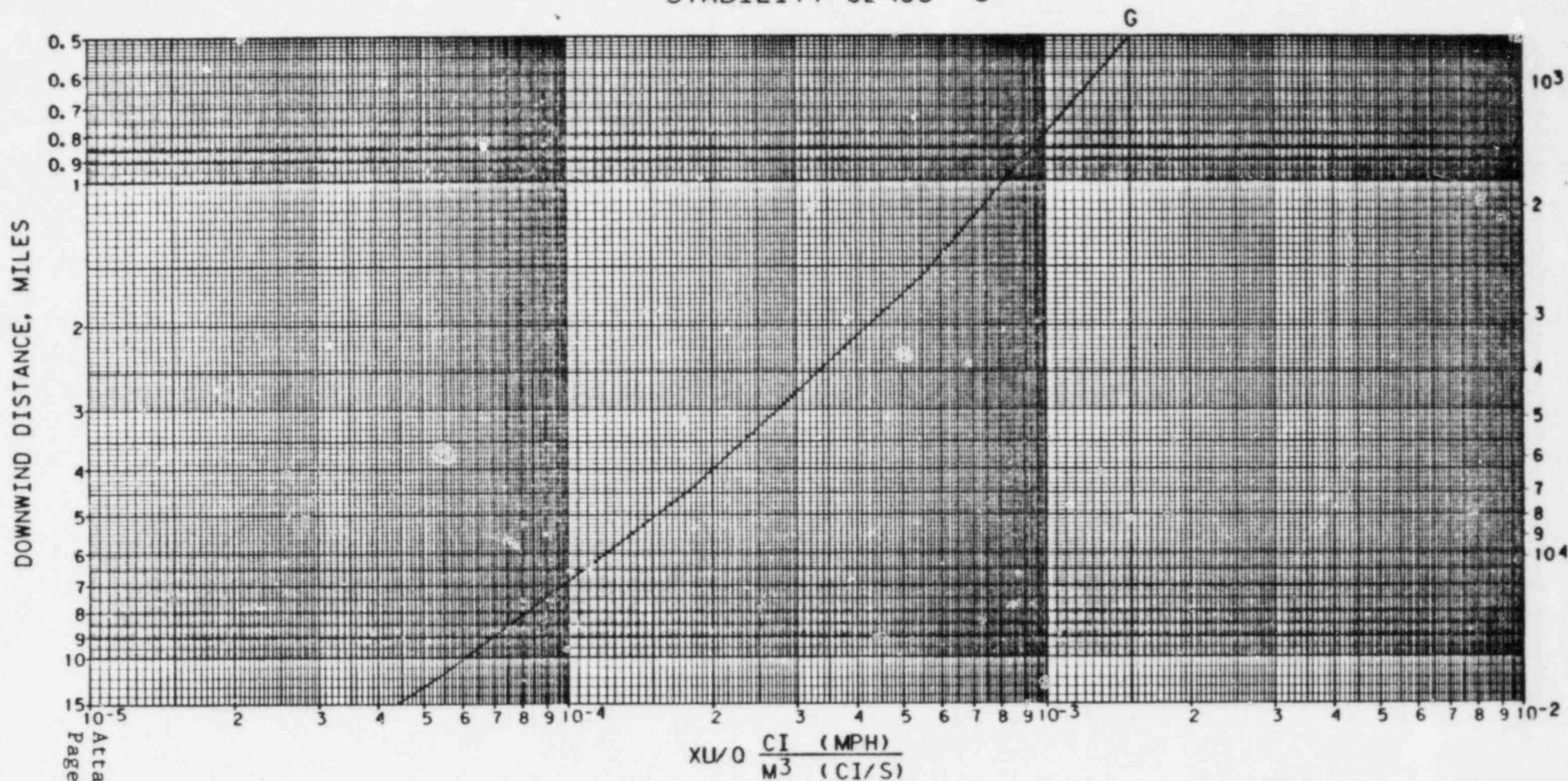
GROUND LEVEL RELEASE WITH WAKE EFFECT
FIGURE 5.5

STABILITY CLASS "F"



GROUND LEVEL RELEASE WITH WAKE EFFECT
FIGURE 5.6.

STABILITY CLASS "G"



GROUND LEVEL RELEASE WITH WAKE EFFECT
FIGURE 5.7.

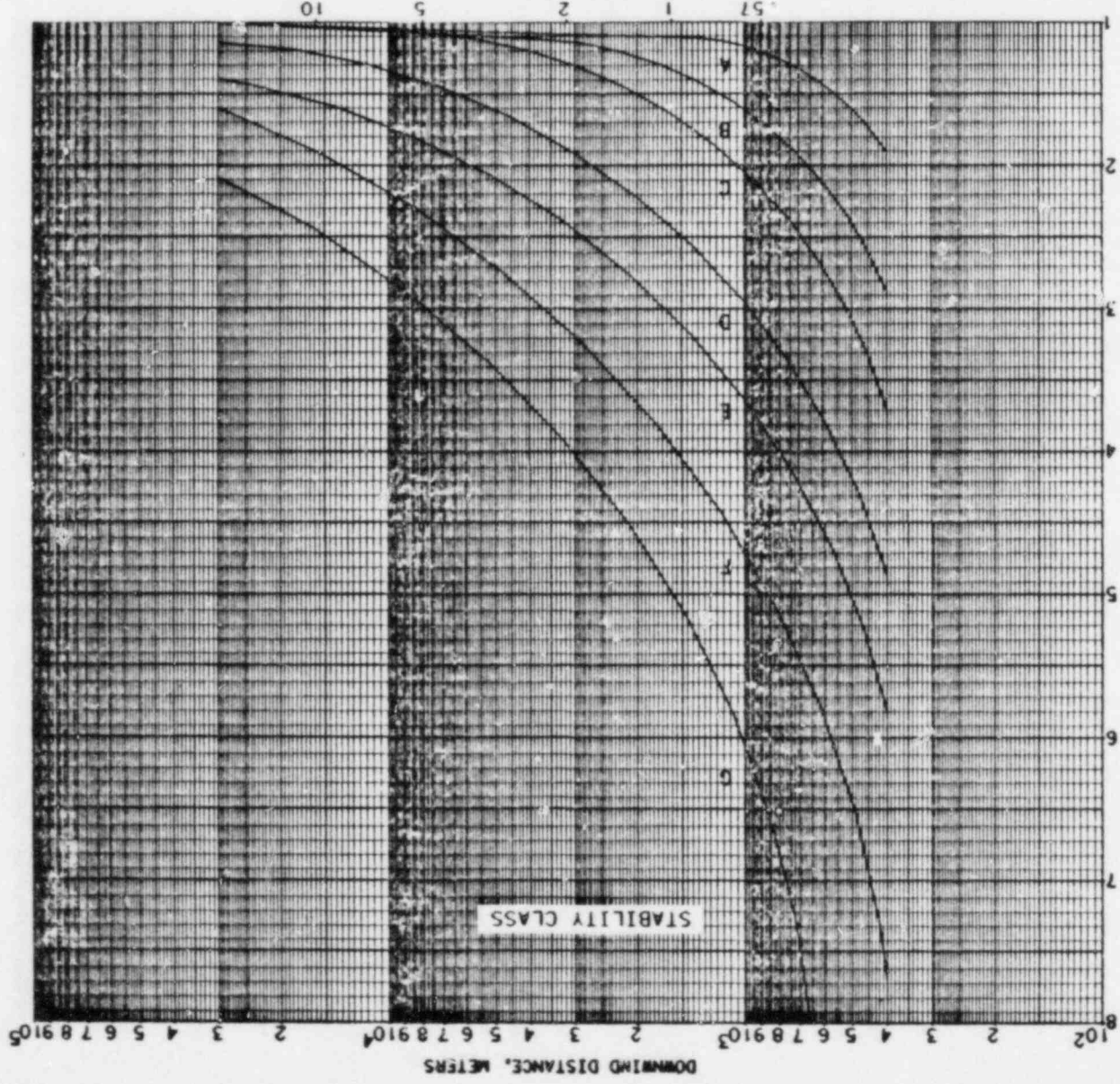


FIGURE 5.8 FINITE PLUME CORRECTION FACTORS - GROUND LEVEL RELEASE
(INCLUDES BUILDING WAKE CORRECTION FOR A=200M 2)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: MANUAL OFF-SITE DOSE ASSESSMENT CALCULATIONAL
PROCEDURE-WATERBORNE RELEASES

RECORD OF APPROVAL AND CHANGES

Prepared by A. J. Pepper 09/29/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational
Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear
Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor- Operational Assurance Recommended	Date	* OSRO Recommended	Date	Nuc. Prod. Approved	Date
1					*			
2					*			
3					*			
4					*			
5					*			
6					*			
7					*			
8					*			

Typed by: Dolores Fountain (RERP-14)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: MANUAL OFF-SITE DOSE ASSESSMENT CALCULATIONAL
PROCEDURE-WATERBORNE RELEASES

Prepared by	A. Pepper	09/22/83
		Date
Recommended by	Donald Ince Kenzo	9-27-83
	Communication System Division	Date
Recommended by	James L Jones	9-29-83
	Community & Government Affairs	Date
Recommended by	James E. Schumacher	9-30-83
	Licensing	Date
Recommended by	Mahmud Syed, M.D.	9/27/83
	Medical Staff	Date
Recommended by	James J. Rame	9/27/83
	Nuclear Administration	Date
Recommended by	M. J. Decker	9-30-83
	Nuclear Production	Date
Recommended by	Karen K. Thompson	9-27-83
	Nuclear Training	Date
Recommended by	B. J. Hoffman	9-27-83
	Public Information	Date
Recommended by	James E. Schumacher	9-30-83
	Security	Date
Recommended by	M. L. Vermeulen / R	9-27-83
	Wayne-Monroe Division	Date
Approved by	Thomas Randa	9/27/83
	REEP Committee Chairperson	Date

Revision
No.

REEP Committee
Chairperson Approved

Date

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3.0 Entry Conditions.	1
4.0 General Information	1
5.0 Procedure	1

Enclosures

Protective Actions for Drinking Water. Enclosure 1

1.0 Purpose

This procedure is used to estimate the potential radiological impact to the public following a release of radioactive liquids from the plant into Lake Erie.

2.0 References

2.1 10CFR Part 20, Appendix B

2.2 Liquid Radwaste Release Evaluation (79.000.05)

2.3 Michigan Emergency Preparedness Plan, Annex Q, Appendix 1

3.0 Entry Conditions

This procedure is to be used whenever there is a release of radioactive liquids which may reach Lake Erie.

4.0 General Information

The radiological impact is calculated with respect to the Maximum Permissible Concentrations (MPC) of radioactivity in water in an unrestricted area as specified in 10CFR Part 20, Appendix B, Table II, Column 2.

5.0 Procedure

The Shift Supervisor in the Control Room, Radiation Protection Advisor in the Technical Support Center or the Radiation Protection Coordinator in the Emergency Operations Facility may request from the Radchem Technician or Radchem Advisor that a water sample be taken and analyzed. Radchem personnel take and analyze the sample for gross gamma and report results to the Radchem Advisor or Shift Supervisor, as appropriate.

If a gross gamma analysis of a water sample from Lake Erie reveals a concentration greater than 10^{-7} uCi/mi (the limit specified by Reference 2.1, footnote (c)), the Radchem Advisor will request a detailed isotopic analysis of the sample and dose assessment in accordance with Reference 2.2.

The Shift Supervisor or Radchem Advisor will compare the results of the detailed isotopic analysis with those specified in Table 1, and recommend protective actions in accordance with Table 1.

TABLE 1

PROTECTIVE ACTIONS FOR DRINKING WATER

There is no known federal guidance for drinking water contamination in an emergency. Because of the nature of the source, contamination of a groundwater source is very unlikely, but a nuclear incident could easily result in contamination of a surface water source of drinking water. Such sources are usually used by community water supplies rather than by individuals.

Since each community water supply is used by a large number of people, a low individual dose from contamination might result in a large total dose commitment, as in the Table below. On the other hand, ingestion is relatively easy to restrict, and therefore the relatively strict 10CFR20, Appendix B, Table II limits will be applied, whenever possible.

Projected Concentration for a Community Water Supply	*Projected Individual Dose	**Projected Total Dose Commitment	Protective Actions
At or greater than 120 times 10 CFR-20, Appendix B, Table II limits	5 rems	50,000 person-rems	The Department of Public Health will monitor and will restrict use of the supply for drinking water.
From 1 to 120 times the 10 CFR-20, Appendix B, Table II limits	0.04 to 5 rems	411 to 50,000 person-rems	The Department of Public Health will monitor and will advise that the supply not be used for drinking water.
Below 10 CFR-20, Appendix B, Table II limits	Less than 0.04 rem	Less than 411 person-rems	The Department of Public Health will monitor the supply until concentrations drop below 40 CFR-141 limits.

* 30 day usage assumed

** 30 day usage by a 10,000 person supply assumed

Protective Actions noted will depend upon an alternative supply of drinking water and water for sewage purposes and upon the duration of the contamination. Identical Protective Actions will be taken for private drinking water supplies.

Enclosure 1
Page 1 of 1

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: "APPLE" COMPUTER OFF-SITE RADIOLOGICAL DOSE ASSESSMENT CALCULATIONAL
PROCEDURE - AIRBORNE RELEASES

Prepared by	E. F. Madsen	8/11/83 Date
Recommended by	<i>Donald S. MacKenzie</i> Communication System Division	8-13-83 Date
Recommended by	<i>James L. Jones</i> Community & Government Affairs	8-18-83 Date
Recommended by	<i>Earle L. E. Schuerman</i> Licensing	8/19/83 Date
Recommended by	<i>Medical Staff</i> Medical Staff	8/19/83 Date
Recommended by	<i>James M. DuBay</i> Nuclear Administration	8-18-83 Date
Recommended by	<i>Shirley D. Whitcomb</i> Nuclear Production	8-8-83 Date
Recommended by	<i>Karen K. Thompson</i> Nuclear Training	8-18-83 Date
Recommended by	<i>Bert Heffner</i> Public Information	8-18-83 Date
Recommended by	<i>Security</i> Security	8-18-83 Date
Recommended by	<i>Maurice L. Vermuden</i> Wayne-Monroe Division	8/18/83 Date
Approved by	<i>Thomas Randazzo</i> RERP Committee Chairperson	8/18/83 Date
Revision No.	RERP Committee Chairperson Approved	Date

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4.0 General Information	2
5.0 Immediate Actions	2

Enclosures

Plant Effluent Radiation Monitors. Enclosure 1

1.0 Purpose

The purpose of this procedure is to provide a methodology for the dose assessment personnel to determine the off-site whole body gamma and thyroid dose and dose rate from an airborne release using an Apple II microcomputer.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant, Unit 2, Radiological Emergency Response Preparedness Plan, Section I, Accident Assessment
- 2.2 Manual of Protective Action Guides and Protective Actions for Nuclear Incidents, EPA-520/1-75-001, Sept. 1975, Revised June 1979
- 2.3 Classification of Emergencies (EP-101)
- 2.4 Unusual Event (EP-102)
- 2.5 Alert (EP-103)
- 2.6 Site Area Emergency (EP-104)
- 2.7 General Emergency (EP-105)
- 2.8 Organization and Responsibilities (EP-110)
- 2.9 Technical Support Center: Support Functions (EP-301-2)
- 2.10 Emergency Operations Facility: Support Functions (EP-303-2)
- 2.11 Alternate Emergency Operations Facility: Support Functions (EP-304-2)
- 2.12 Meteorological Data Assessment (EP-544)
- 2.13 Protective Action Guideline Recommendations (EP-545)
- 2.14 "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants", NUREG-0654, FEMA-REP-1, Rev. 1, 1980
- 2.15 Assumptions Used for Evaluating the Potential Radiological Consequences of a Loss of Coolant Accident for Boiling Water Reactors", USNRC Regulatory Guide 1.3, Rev. 2, June, 1974
- 2.16 "Meteorological Programs in Support of Nuclear Power Plants", USNRC Regulatory Guide 1.23, Rev. 1, September, 1981

- 2.17 "Meteorology and Atomic Energy", TID-24190, D. H. Slade, Editor, Division of Technical Information, USAEC, July, 1968
- 2.18 "XOQDOQ Program for Release at Nuclear Power Stations", NUREG-0324, J. F. Sagendorf and J. T. Coll, September, 1977 (draft)
- 2.19 "Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants", USNRC Regulatory Guide 1.145, August, 1979
- 2.20 "Calculation of Annual Average Doses to Man from Routine Release of Reactor Effluents for the Purpose of Implementing Appendix I", USNRC Regulatory Guide 1.109, Rev. 1, October, 1977
- 2.21 "Radioactive Decay Data Tables", D. C. Kocher, DOE/TIC-11026, 1981
- 2.22 "EEA, A Computer Program for Calculating Release Rates and Monitor Readings Corresponding to Design Basis Accidents and Site and General Emergency Conditions", K. D. Ford

3.0 Entry Conditions

This procedure is used when there is a potential for a release to the environment or an actual release has occurred via one of the plant effluent stacks.

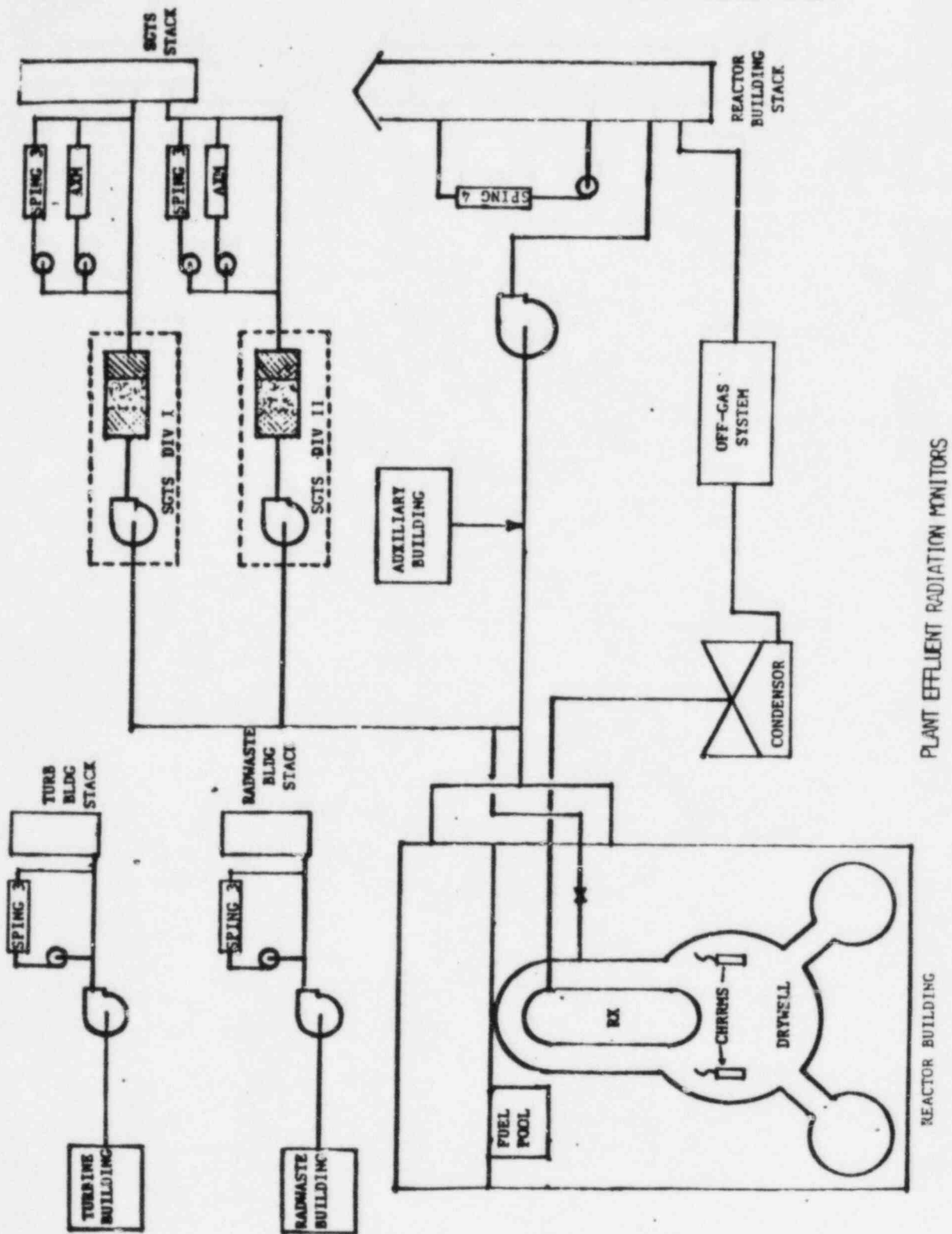
4.0 General Information

Enclosure 1 is a schematic of the location of the radiation monitors that can be associated with the potential or actual release of radioactive material to the environment. Radioactive material released in the plant is transported by the plant ventilation system to the environment via the effluent monitors on the Reactor Building, Radwaste Building, Turbine Building, or SGTS stacks.

Section 1.0, Introduction to System Operation, of Enclosure 2 provides a summary description of the microcomputer and the associated software package.

5.0 Immediate Actions

When there is a potential for a release to the environment or an actual release has occurred via one of the plant effluent stacks, enter Section 2.0, System Operation, of RADOSE: A microcomputer based offsite Dose Assessment Package, User Manual and proceed to calculate the off-site whole body gamma and thyroid dose and dose rates.



PLANT EFFLUENT RADIATION MONITORS

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: COMPUTER DOSE ASSESSMENT CALCULATIONAL
PROCEDURE - WATERBORNE RELEASES

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 8/11/83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1	_____	_____	_____	_____	*	_____	_____	_____
2	_____	_____	_____	_____	*	_____	_____	_____
3	_____	_____	_____	_____	*	_____	_____	_____
4	_____	_____	_____	_____	*	_____	_____	_____
5	_____	_____	_____	_____	*	_____	_____	_____
6	_____	_____	_____	_____	*	_____	_____	_____
7	_____	_____	_____	_____	*	_____	_____	_____
8	_____	_____	_____	_____	*	_____	_____	_____

Typed by: Jane Boberg (RERP #9)
Revised by: Nancy Young

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: COMPUTER DOSE ASSESSMENT CALCULATIONAL
PROCEDURE - WATERBORNE RELEASES

Prepared by	<u>E. F. Madsen</u>	<u>8/11/83</u> Date
Recommended by	<u>Donald Ince Kenyon</u> Communication System Division	<u>8-13-83</u> Date
Recommended by	<u>James L. Jones</u> Community & Government Affairs	<u>8-18-83</u> Date
Recommended by	<u>Ch. Enck for LE Schorman</u> Licensing	<u>8/19/83</u> Date
Recommended by	<u>Byrne H. Duncan</u> Medical Staff	<u>8/18/83</u> Date
Recommended by	<u>James W. DuBay</u> Nuclear Administration	<u>8-18-83</u> Date
Recommended by	<u>Sheep H. Dondak</u> Nuclear Production	<u>8-23-83</u> Date
Recommended by	<u>Karen K. Thompson</u> Nuclear Training	<u>8-18-83</u> Date
Recommended by	<u>Bert H. Hew</u> Public Information	<u>8-18-83</u> Date
Recommended by	<u>Michael V. Gend for SHL</u> Security	<u>8-18-83</u> Date
Recommended by	<u>Maurice L. Versmiller</u> Wayne-Monroe Division	<u>8/18/83</u> Date
Approved by	<u>Thomas Randazzo</u> RERP Committee Chairperson	<u>8/18/83</u> Date
Revision No.	RERP Committee Chairperson Approved	Date

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1.0 Purpose

The purpose of this procedure is to provide a computer-based methodology for the dose assessment personnel to calculate off-site doses due to radioactive liquid releases to Lake Erie.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant, Unit 2, Radiological Emergency Response Preparedness Plan, Section I, Accident Assessment
- 2.2 Enrico Fermi Atomic Power Plant, Unit 2 Off-site Dose Calculational Manual (ODCM)
- 2.3 Liquid Radwaste Release Evaluation (79.000.05)
- 2.4 Classification of Emergencies (EP-101)
- 2.5 Protective Action Guideline Recommendations (EP-545)

3.0 Entry Conditions

This procedure is used whenever there is an accidental release of radioactive liquids to Lake Erie and the Plant Chemistry Group has obtained and conducted a detailed isotopic analysis of the liquid effluent.

4.0 General Information

The methodology for the calculation of the dose to individuals via the liquid release pathway is detailed in the Fermi 2 Off-Site Dose Calculational Manual (ODCM).

5.0 Immediate Actions

Request the Plant Chemistry Group to provide a calculation of the off-site doses due to liquid releases using the Appendix I software package for the ND-6685 computer system.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: COMPUTER DOSE ASSESSMENT CALCULATIONAL
PROCEDURE - WATERBORNE RELEASES

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 8/11/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational
Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear
Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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8					*			

Typed by: Jane Boberg (RERP #9)
Revised by: Nancy Young

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: METEOROLOGICAL DATA ASSESSMENT

RECORD OF APPROVAL AND CHANGES

Prepared by R. A. Foltman 7/27/83
Date

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Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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Typed by: Debbie Hatto (RERP 12)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: METEOROLOGICAL DATA ASSESSMENT

Prepared by	R. A. Foltman	7/27/83
		Date
Recommended by	<i>Donald S. MacKenzie</i> Communication System Division	8-18-83
		Date
Recommended by	<i>James L. Jones</i> Community & Government Affairs	8-18-83
		Date
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		Date
Recommended by	<i>Stephen M. Duncan</i> Medical Staff	8/19/83
		Date
Recommended by	<i>James M. Dubay</i> Nuclear Administration	8-18-83
		Date
Recommended by	<i>Sherry A. Durbak</i> Nuclear Production	8-23-83
		Date
Recommended by	<i>Karen K. Thompson</i> Nuclear Training	8-18-83
		Date
Recommended by	<i>Burt Hefner</i> Public Information	8-18-83
		Date
Recommended by	<i>Michael J. VandeBosk</i> Security	8-18-83
		Date
Recommended by	<i>Maurice Vermeulen</i> Wayne-Monroe Division	8/18/83
		Date
Approved by	<i>Thomas Randazzo</i> RERP Committee Chairperson	8/18/83
		Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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1.0 Purpose

This procedure provides general guidelines for analyzing, reviewing, interpreting and using the meteorological data from the Enrico Fermi 2 60-meter meteorological tower. This data will be used in the Control Room (CR), Technical Support Center (TSC) and the Emergency Operations Facility (EOF) by the Shift Technical Advisor (STA), TSC Meteorologist and the EOF Meteorologist, respectively. In the event these individuals are unavailable, dose assessment personnel may be required to handle these procedures temporarily.

This document provides guidelines for the various meteorological activities associated with emergency conditions at Enrico Fermi 2. The purpose of this document is to describe the procedures and methods to be followed by individuals reviewing meteorological data under emergency conditions at the Fermi 2 plant. This document is designed as a working document and will be updated as facilities and conditions change.

2.0 References

- 2.1 Nuclear Regulatory Commission, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" NUREG-0654 /FEMA REP 1, Revision 1, November 1980
- 2.2 Nuclear Regulatory Commission, "Meteorological Programs in Support of Nuclear Power Plants", Proposed Revision 1 to Regulatory Guide 1.23, 1980
- 2.3 Enrico Fermi 2 RERP Meteorological Handbook
- 2.4 Weather Services International (WSI) Handbook
- 2.5 Workbook of Atmospheric Dispersion Estimates, D. B. Turner, E. P. A. document AP-26
- 2.6 "Meteorology and Atomic Energy", D. H. Slade, U. S. Atomic Energy Commission, TID-24190
- 2.7 Enrico Fermi Atomic Power Plant, Radiological Emergency Response Preparedness Plan, Revision 2, Sept 1983, Section H, Emergency Facility Equipment, and I, Accident Assessment
- 2.8 Organization and Responsibilities (EP-110)
- 2.9 Manual Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases - Overview (EP-540)
- 2.10 "Apple" Computer Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases (EP-542)
- 2.11 Protective Action Guidelines Recommendations (EP-545)

3.0 Entry Conditions

- 3.1 UNUSUAL EVENT has been declared and the Shift Technical Advisor in the Control Room is available.
- 3.2 ALERT has been declared and the TSC has been activated with the TSC Meteorologist position staffed.
- 3.3 SITE AREA EMERGENCY has been declared and the EOF has been activated with the EOF Meteorologist position staffed.
- 3.4 GENERAL EMERGENCY has been declared with all positions filled.

4.0 General Information

4.1 Introduction

Primary meteorological support is designed to be centered at the Emergency Operations Facility (EOF) under the Site Area and General Emergency levels.

Under UNUSUAL EVENT and ALERT classifications, until the TSC is functional, the Control Room (CR) Shift Technical Advisor is responsible for reviewing the meteorological conditions. Once the Technical Support Center (TSC) is functional, a meteorologist or an Environmental Assessment Team member will be available to handle both the on- and off-site meteorological assessment.

Under the SITE AREA and GENERAL EMERGENCY levels the TSC Meteorologist will be responsible for taking over the EOF Meteorologist position in the Environmental Assessment Team (EAT) at the Emergency Operations Facility until conditions are downgraded.

Careful analysis of the meteorological conditions is essential to the credibility of the Radiological Emergency Response Preparedness Plan for Fermi 2. If conditions indicate a potential for an off-site impact, the locations, direction, and magnitude of any impact are necessary for determining the overall consequences. Use of the meteorological data available will allow dose assessment members to assess the dose potential in the region of concern.

4.2 Responsibilities

4.2.1 The Shift Technical Advisor will be responsible for:

- 1. Access and interpretation of up-to-date meteorological data as often as required by changes in plant status and weather. This review will initially begin at hourly intervals depending upon plant conditions and could escalate to 15-minute

intervals if conditions warrant. The Meteorological Data Acquisition System (MDAS) will be the primary source of this information. The Monroe Air Quality Network (MAQN) and the Weather Services International Weather Information Service (WIS) will be available as the back-ups for the MDAS.

Acquisition will include the following parameters:

Wind Speed
Wind Direction
Precipitation
Stability (from $\Delta T/\Delta z$)

This data is gathered for plume prediction and historical documentation. Potential plume impact and impact distribution can be estimated using this information if conditions require these actions.

2. Review of the meteorological data for clarity and potential degradation of weather conditions.
3. Recommendations based upon weather conditions to be passed on to the Emergency Director in the event conditions warrant.

4.2.2 The TSC/EOF Meteorologist will be responsible for:

1. Access and interpretation of up-to-date meteorological data as often as required by the plant status, weather conditions, and radiation protection personnel. This will initially begin at hourly intervals and progress eventually to 15 minute intervals. The Meteorological Data Acquisition System (MDAS) is the primary source of the essential meteorological information. The Monroe Air Quality Network (MAQN) and the Weather Services International Weather Information Service (WSI) dial-up are the available back-ups to MDAS.

Essential acquisitions should include the following parameters:

Wind speed
Wind direction
Precipitation
Stability (from $\Delta T/\Delta z$)

This data is gathered for plume prediction and historical documentation. Potential plume impact and distribution can be estimated using this information if conditions warrant.

2. Review of data and conditions should include the following:
 - a. Checks for erroneous or missing values.
 - b. Checks for "reasonable" data which fits the synoptic weather patterns.
 - c. Conversion of wind speed from miles per hour to meters per second as required for reference by other users.
 - d. Convert wind direction from present format to sector format. This involves indicating which direction the wind is coming FROM and which direction the wind is going TO. The sectors potentially involved must be determined.
 - e. Determine the atmospheric stability for the Fermi site using one of the available stability schemes; Pasquill, sigma theta (standard deviation of the horizontal wind direction, σ_θ), sigma phi (standard deviation of the vertical wind velocity, σ_ϕ) or delta temperature with height, ($\Delta T/\Delta z$). The Nuclear Regulatory Commission suggests using the temperature change with height ($\Delta T/\Delta z$) as the primary stability measure.
 - f. Determine the type of any precipitation which may be falling for some indication to the potential for rainout.
3. Dissemination and frequent updating of the essential information is to be made available to the following personnel:
 - a. Dose Assessment personnel
Dose Assessment requires meteorological data for dose projections and evaluation of protection actions when necessary. The information needed includes the wind speed in both sets of units, stability and affected sectors for dose calculations.
 - b. Radiation Protection Advisor/Emergency Director or Radiation Protection Coordinator/EOF Coordinator uses the wind speed and direction, plume predictions, and sectors impacted for protective action recommendations as necessary. Data updates are only necessary if significant changes occur in the data.

- c. TSC Administrator and Support Coordinator/EOF Administrator files all information for documentation purposes as well as historical use. The information is also posted on the status boards.
4. Accessing the National Weather Service ((NWS) product forecasts for determining the persistence of various meteorological phenomenon. This is done through the Weather Services International system (WSI). Forecasts of predicted conditions for a period extending to 6 hours should be done on a routine basis or whenever updated forecasts are available.

As a back-up to the MDAS and MAQN systems, the NWS products for Detroit and Toledo can be used for guidance. The FERMIF command in WSI will give an interpolated forecast for the Fermi 2 site based upon the Modelled Output Statistics (MOS) forecasts for Detroit, MI, Toledo, OH and Cleveland, OH. Forecast format and data availability can be found in the WSI Handbook and the Fermi 2 RERP Meteorological Handbook.
5. Documenting and transmitting of all significant meteorological changes (i.e. wind shifts or severe weather) to the status boards and essential personnel.
6. Using of the standard TSC/EOF forms for documentation of the meteorological conditions and related calculations.
7. Making manual plume projections for potential as well as actual releases. Plume projections should be made and plotted as often as needed or as often as averaged meteorological data is available (every 10 minutes) for potential and actual releases from the Fermi 2 site. Plots made by MDAS should be made every 1/2 hour to hour unless conditions are changing rapidly due to the time required to plot this map (approximately 10 minutes).

Calculate and plot the plume width and length for each plume plot, as needed. As a first approximation, the previous period's plot is used to estimate the next period's location unless wind shifts are expected to occur during the period. Documentation of the plume projections should be made for historical and past release records. Duplicate plume calculations and plots should also be made if time permits.

Indicate where the leading edge of the release should be several time periods ahead and illustrate where the release has been during the past several periods. Puffs and continuous release plumes should be essentially treated alike.

The plume projection information should be passed to the Dose Assessment personnel as well as the Radiation Protection Coordinator for use in protective action.

Documentation of plume projections procedures can be found in the Fermi 2 RERP Meteorological Handbook.

8. Transferring the TSC Meteorologist's activities to the EOF when a Site Area Emergency is declared. At this point the primary meteorological responsibilities are transferred to the EOF and the TSC Meteorologist becomes the EOF Meteorologist.

5.0 Immediate Actions

5.1 Shift Technical Advisor in Control Room

- 5.1.1 Access as much meteorological data as necessary using MDAS to document any meteorological changes within the last several hours. This data should be gathered for clarity and cross checking purposes. Data received should be recorded for documentation purposes and used to make recommendations to the Emergency Director.
- 5.1.2 Access the National Weather Service (NWS) data through the Weather Services International (WSI) system to gain additional background on the local weather from Detroit to Toledo. This can be compared with the Fermi 2 site specific data acquired from MDAS. The following items should be checked using the Fermi W command:
 1. Local past data
 2. Radar summary map
 3. Pasquill stability in the region
 4. Regional (mesoscale) weather data and conditions
 5. Forecasted conditions for precipitation, temperature, winds and stability
 6. Other additional information as needed.

Log all activities and pass along important information when necessary. Using the WSI Handbook or the Fermi 2 RERP Meteorological Handbook demonstrate how to access the WIS and the various parameters desired. The Meteorological Handbook will also have directions on how to access the data from the MAQN.

- 5.1.3 Log or archive all other essential items (i.e., WSI weather maps, misc.) as necessary and as it becomes available.
- 5.1.4 As meteorological data becomes available (i.e., every 15-minutes on MDAS or every hour using MAQN or WSI) or as time permits, gather more information and review for continuous updates.

5.2 TSC/EOF Meteorologist

- 5.2.1 Upon arriving at the TSC/EOF, check in with Security and the TSC/EOF Administrator so they are aware the meteorological position of the Environmental Assessment Team is staffed.
- 5.2.2 Determine the plant status, general site weather conditions, etc. as part of a general orientation procedure. Begin logging and archiving of all activities and meteorological conditions.
- 5.2.3 Check-out all equipment, documentation and forms. Documentation of all actions, data and conditions is necessary for a complete historical record of radiological emergency.
- 5.2.4 Access as much meteorological data as necessary using MDAS to document any meteorological changes with the last several hours available. This data should be gathered for clarity and cross checking purposes. Data received should be recorded for documentation purposes.
- 5.2.5 Access the Fermi 2 Meteorological Tower using one of two methods:
 - 1. Meteorological Data Acquisition System (MDAS) or,
 - 2. Monroe Air Quality Network (MAQN).

Gather the past and present meteorological data for support and reference information. Log the time, meteorological data and conditions.

- 5.2.6 Access the Monroe Air Quality Network (MAQN) to determine if the meteorology at the Fermi 2 site is representative of the region. This can be done by first,

comparing the readings from the Fermi 2 60-meter tower via MDAS with the Fermi 2 60-meter tower values from the MAQN computer. Second, compare the readings with the sites located in the surrounding area as shown in the Fermi 2 RERP Meteorological Handbook. If the conditions are similar then the 60m tower data should be acceptable.

- 5.2.7 Pass on the most recent meteorological data to the Dose Assessment members, the Radiation Protection Advisor/ Emergency Director or Radiation Protection Coordinator/ EOF Coordinator and the TSC/EOF Administrator. When in the EOF, pass information to the TSC Dose Assessment personnel.
- 5.2.8 Update the meteorological conditions every 15 minutes or as often as required by requests and plant status using the TSC/EOF forms provided. Only significant changes in the data should be reported.
- 5.2.9 If necessary, access the Davis-Besse meteorological tower to check for similar conditions or supporting information. Be aware that meteorological data from Davis-Besse may be different from the Fermi 2 data because of different locations and because of local effects such as Lake Erie. Log usage of this system and data also. Directions for use of this system can be found in the Fermi 2 RERP Meteorological Handbook.
- 5.2.10 Access the National Weather Service (NWS) data through the Weather Services International (WSI) system to gain additional background on the weather locally from Detroit to Toledo. The following items should be checked using the Fermi W command:
 - 1. Local past data
 - 2. Most recent upper air data
 - 3. Radar summary map
 - 4. Pasquill stability in the region
 - 5. Regional (mesoscale) weather data and conditions
 - 6. Forecasted conditions for precipitation, temperature, winds and stability
 - 7. Other additional information as needed

Log all activities and pass along important information as deemed necessary. The WSI Handbook and the Fermi 2 RERP Meteorological Handbook demonstrate how to use the WSI system and access the various parameters desired.

- 5.2.11 Plot necessary meteorological elements on the plume tracking board as conditions require. Portions of this information will be posted on the status boards.

This data should be included:

1. Wind direction FROM _____° TO _____°
2. Wind speed _____ mph _____ meters/sec.
3. Stability Class _____ ($\Delta T^{\circ}\text{C}/50\text{m}$)
4. Precipitation Type _____
Rate _____ mm/hour
5. Sectors potentially impacted _____
6. Meteorological forecast _____
(next 2-6 hours) _____

- 5.2.12 Log or archive all other essential items (i.e., WSI weather maps, etc.) as necessary and as it becomes available.

- 5.2.13 Repeat Items 5.2.5 through 5.2.11 as necessary.

6.0 Follow-up Actions

- 6.1 Begin calculating and plotting the predicted plume location and direction based upon past and predicted meteorology out to the next hour of data. Plume plotting methods and directions can be found in the Fermi 2 RERP Meteorological Handbook.
- 6.2 Keep updated to any off-site readings, protective action zones, evacuation locations, etc. and advise the Radiation Protection Advisor/Coordinator if meteorology will impact any of these decisions. If conditions change significantly, then be sure to update the status board and Radiation Advisor/Protection Coordinator as soon as possible. If in the EOF, pass this information along to the TSC Dose Assessment personnel to keep the TSC updated as information becomes available.
- 6.3 Be aware of possible release times if plant integrity is weakening if noted on the status board, or if field readings come back above baseline levels. If necessary, back calculate to obtain the release time(s) to use in further calculations. The release time or an estimated time is necessary for plume projections.

Be aware if the plant conditions are deteriorating to anticipate potential airborne releases.

- 6.4 Calculate and begin plotting the projected plume positions and forecast positions for any actual releases for the next hour based on current or past winds. Include any wind shifts into the plume plot calculations. The procedures for these projections can be found in the Fermi 2 RERP Meteorological Handbook.
- 6.5 Advise the Radiation Protection Advisor/Coordinator of the sampling team locations relative to the present or forecast plume. If conditions are changing, the teams will have to be moved either away from potential hot spots or into new regions as conditions change. It is necessary to forewarn the Radiation Protection Advisor/Coordinator as soon as possible so necessary actions can be taken. Parameters to watch include the wind direction, wind speed, stability and projected plume characteristics.
- 6.6 Shade any areas the plume may impact on the plume plot board and indicate the potential region(s) soon to be impacted.
- 6.7 Update and correct any predictions or information placed on the plume plot boards or status boards. New on-site meteorological data averages are gathered from the MDAS system every 15 minutes. Data from the MAQN is available every hour with hourly averages.
- 6.8 Update meteorological instrument readings with field observations taken by field technicians to check for local weather discrepancies. The Radiological Emergency Teams (RET) will be available in the field for radiological readings and weather feedback.
- 6.9 Repeat the above steps as required until either relieved, termination, facility shutdown, or emergency downgrading. Official notification must be made before the position can be vacated. It may be necessary to summarize the conditions for the period using the data gathered after emergency conditions have been downgraded. All logs, data and calculations must be saved for archival of any incident. Post-release estimates of dose levels can be made using the archived meteorological data.
- 6.10 When relieved from the position, organize documents and sign out.

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PROTECTIVE ACTION GUIDELINES RECOMMENDATIONS

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 7-06-83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Nuc. Prod. Approved	Date
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Typed by: R. Foley (RERP #9)
Revised by: Valerie Lindquist

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PROTECTIVE ACTION GUIDELINES RECOMMENDATIONS

Prepared by	<u>E. F. Madsen</u>	<u>7-6-83</u> Date
Recommended by	<u>Donald J. Mac Kenzie</u> Communication System Division	<u>8-18-83</u> Date
Recommended by	<u>James L. Jones</u> Community & Government Affairs	<u>8-18-83</u> Date
Recommended by	<u>Al Eubank for LE Schuerman</u> Licensing	<u>8/19/83</u> Date
Recommended by	<u>Heather H. Duncan</u> Medical Staff	<u>8/18/83</u> Date
Recommended by	<u>James W. De Bay</u> Nuclear Administration	<u>8-18-83</u> Date
Recommended by	<u>Gregg R. Winkler</u> Nuclear Production	<u>8-23-83</u> Date
Recommended by	<u>Karen K. Thompson</u> Nuclear Training	<u>8-18-83</u> Date
Recommended by	<u>Best Kippner</u> Public Information	<u>8-18-83</u> Date
Recommended by	<u>Mr. [Signature] for SHL</u> Security	<u>8-18-83</u> Date
Recommended by	<u>Maurice L. Vermeulen</u> Wayne-Monroe Division	<u>8/18/83</u> Date
Approved by	<u>Thomas Randazzo</u> RERP Committee Chairperson	<u>8/18/83</u> Date
Revision No.	RERP Committee Chairperson Approved	Date

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1.0 Purpose

This procedure provides guidelines for determining protective actions for the general public to be recommended to the appropriate state and local authorities in the event of a radiological emergency.

CAUTION

This procedure provides protection action recommendations. The authority and responsibility for the selection and implementation of off-site response options rests fully with the appropriate state and local authorities. Detroit Edison Company has no authority with respect to imposing protective response options beyond the boundaries of its site.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant, Unit 2, Radiological Emergency Response Preparedness Plan, Section J, Revision 2, August, 1983
- 2.2 Manual of Protective Action Guides and Protective Actions for Nuclear Incidents, EPA-520/1-75-001 Sept 1975, Revised June 1979
- 2.3 On-Site RET: Activation (EP-201-1)
- 2.4 On-Site RET: Functions (EP-201-2)
- 2.5 Off-Site RET: Activation (EP-210-1)
- 2.6 Off-Site RET: Functions (EP-210-2)
- 2.7 Manual Off-Site Radiological Dose Assessment Calculational Procedure - Airborne Releases - Overview (EP-540)
- 2.8 Manual Off-Site Dose Assessment Calculational Procedure - Waterborne Releases (EP-541)
- 2.9 "Apple" Computer Off-Site Dose Assessment Calculational Procedure - Airborne Releases (EP-542)
- 2.10 Computer Dose Assessment Calculational Procedure - Waterborne Releases (EP-543)
- 2.11 Meteorological Data Assessment (EP-544)

3.0 Entry Conditions

- 3.1 SITE AREA EMERGENCY has been declared and situation degrading.
- 3.2 GENERAL EMERGENCY has been declared.

4.0 General Information

4.1 Discussion

In a nuclear emergency, an estimate is made of the radiation dose which affected population groups may potentially receive. The dose estimate is called the projected estimated or projected actual dose. A protective action is an action taken to avoid or reduce the effects of this projected dose when the benefits derived from such action are sufficient to offset any undesirable features or results of the protective action. The Protective Action Guideline (PAG) is the level at which the projected dose to individuals in the population warrants taking protective action. A PAG level under no circumstance implies an acceptable dose. It is used only to minimize the risk from an event which is occurring or has already occurred.

This procedure is a guide for determining recommended protective actions. Since it is impossible to cover all potential situations, the judgement of the person responsible for recommending protective actions shall take precedence over the requirements of this procedure. However, since the protection of the general public is the ultimate concern, protective actions less stringent than those required by the procedure should be recommended only if constraints make the required actions a greater hazard to public health.

4.2 PAGs for the Plume Exposure Pathway

PAGs for the general population for whole body external gamma radiation dose and for thyroid dose from inhalation of radioactive material in an airborne plume are as follows:

- Projected Whole Body Gamma Dose 1 - 5 Rem
- Projected Thyroid Dose 5 - 25 Rem

PAGs for the general public are given in ranges. Protective actions should be implemented when the lower level PAG values are exceeded unless constraints (such as severe weather conditions) make the proposed actions impractical. When the upper level PAG values are expected to be exceeded, every reasonable effort should be made to evacuate the affected area.

For purposes of recommending protective actions, in the immediate vicinity of the plant, the minimum area affected shall be assumed to be a 2-mile radius around the plant and the downwind plume centerline sector and a 22.5° sector on either side, to 5 miles.

4.3 PAGs for the Ingestion Pathway are as follows:

PAGs for the general population for the ingestion exposure pathway (Section 5.4) are for two levels of response (based on infant thyroid).

Preventative	Whole Body	0.5 Rem
	Thyroid	1.5 Rem
Emergency	Whole Body	5 Rem
	Thyroid	15 Rem

Preventive PAG - applicable to situations where protective actions causing minimal impact on the food supply are appropriate. A preventative PAG establishes a level at which responsible officials should take protective action to prevent or reduce the concentration of radioactivity in food or animal feed.

Emergency PAG - applicable to situations where protective actions of great impact on the food supply are justified because of the projected health hazards. An emergency PAG establishes a level at which responsible officials should isolate food containing radioactivity to prevent its introduction into commerce, and at which the responsible officials must determine whether condemnation or another disposition is appropriate.

4.4 Responsibilities and Authorities

- 4.4.1 If the Technical Support Center (TSC) and the Emergency Operations Facility (EOF) are not operational, the Shift Technical Advisor will perform all necessary calculations and will advise the Emergency Director on protective action recommendations. The Emergency Director is responsible for recommending protective actions to state and local authorities, as appropriate.
- 4.4.2 If the TSC is operational, but the EOF is not operational, the Radiation Protection Advisor will be responsible for all calculations and will advise the Emergency Director on protective action recommendations. The Emergency Director is responsible for recommending protective actions to the state and local authorities, as appropriate.
- 4.4.3 If the EOF is operational, the Radiation Protection Coordinator will be responsible for all calculations and will advise the EOF Coordinator/Emergency Officer on protective action recommendations. The Emergency Officer is responsible for approving protective actions to be recommended to the state and local authorities by the EOF Coordinator.

5.0 Immediate Actions

5.1 Declaration of a SITE AREA EMERGENCY

Enter Section 5.2 and initiate consideration of PAG recommendations to reduce evaluation time when GENERAL EMERGENCY is declared.

5.2 Declaration of GENERAL EMERGENCY

5.2.1 No Dose Projections or Field Surveys Available

When a GENERAL EMERGENCY is declared and no dose projections or field surveys are available, the immediate minimum recommended protective action shall be sheltering within the 2-mile radius around the plant, and 5-miles downwind, unless Table 5.1 (core/containment status information) indicates more stringent protective actions are warranted. Recommend access control. Notification of these recommendations to the appropriate state and local authorities shall be made within 15 minutes of the declaration.

5.2.2 Dose Projections and/or Field Surveys Available

When a GENERAL EMERGENCY is declared and dose projections and or field surveys are available, enter Section 5.4 of this procedure and Table 5.1 Protective Action Recommendation Flowchart, evaluate, and recommend an immediate protective action. Notification of this recommendation to the appropriate state and local authorities shall be made within 15 minutes of the declaration.

5.3 PAGs and Recommended Protective Actions - Enclosure 1

Table 5.1 lists the PAGs and the recommended protective actions for the plume exposure pathway. The actions are classified in two categories:

- o The projected potential or projected actual integrated dose pathway that could be received by the population-at-risk over an 8-hour period if no protective actions are implemented.
- o The core/reactor coolant system/containment status pathway for rapidly escalating scenarios. Some examples of these sequences are
 - Transient (e.g., loss of offsite power) plus failure of requisite core shut down systems (e.g., scram) that could lead to core melt in several hours with containment failure likely; more severe consequences if pump trips do not function.

- Small or large LOCAs with failure of ECCS to perform leading to core degradation or melt in minutes to hours; loss of containment integrity may be imminent.
- Small or large LOCA occurs and ECCS performance is unsuccessful affecting longer term success of the containment which could lead to core degradation or melt in several hours with loss of containment boundary.
- Shutdown occurs but requisite decay heat removal systems (e.g., RHR) or non-safety systems heat removal means are rendered unavailable leading to core degradation or melt in about ten hours with subsequent containment failure.
- Any major internal or external event (e.g., fires, earthquakes, substantially beyond design basis) which could cause massive common damage to plant systems resulting in any of the above.

5.4 Information/Data Input

Information/Data Input for use of Table 5.1

- o Plant Status and prognosis
- o Dose Projections (if available)
 - 8-hour projection at Site Boundary, 2, 5 and 10 miles
 - Estimated or Actual Release
 - Projected time of release (if available)
 - Duration of release or projected duration of release (if available)
- o Local meteorological conditions (Fermi 2 tower)
- o Downwind sectors affected (plume centerline plus 22.5° sector on either side)
- o Estimated time of arrival of plume
- o Weather forecast at 6 hour intervals for next 12 to 24 hours (Weather Services International)
- o RET field measurements (if available)
- o Environmental sample results (if available)
- o The above information and PAGs should be updated at a minimum every 15 to 30 minutes or whenever significant changes in monitor readings or meteorology occur.

- o Field surveys should be conducted to confirm dose projections. If these surveys are available at the time a recommendation is made, they should be considered together with the dose projection.

If precipitation is reported, field team surveys shall be taken immediately to confirm dose projection data. However, a protective action recommendation shall not be delayed until results are reported.

- o Ingestion pathway PAGs can be recommended for the 10- and 50-mile EPZ based on environmental sampling and actual release of radioiodines and particulates.
- o Enclosures 9, 11, 12, 13 and 14 covering the evacuation subareas and locations of schools, hospitals, institutions, recreational areas and dairies within the 10-mile EPZ should be used as aids in conjunction with Enclosure 1 evacuation time estimates presented in Enclosure 6.
- o Recommend access control to any area where either sheltering or evacuation has been implemented.

5.5 Plume Exposure Pathway

5.5.1 Evacuation Effectiveness

The effectiveness of evacuation in limiting radiation dose is a function of the time required to evacuate.

1. Estimated Evacuation Time, $T(EV)$ is expressed as:

$$T(EV) = T(DI) + T(EV) + T(IV)$$

Where:

$T(EV)$ = Time required to evacuate population-at-risk, hours and minutes

$T(DI)$ = Time Delay after occurrence of the incident associated with interpretation of data, decision to evacuate, and notification of responsible offsite authorities, hours and minutes

$T(EE)$ = Evacuation time estimate for subarea(s) involved from Enclosures 9 and 6 (Enclosures 7 and 8 provide population data by sector and mile radii), hours and minutes

$T(IV)$ = Time required for responsible offsite authorities to independently verify dose projections, make recommendations and notify the general public.

$T(IV)$ = 30 to 45 minutes

NOTE: $T(IV)$ is optional and the time is estimated based on past experience with responsible offsite authorities.

2. Estimated Plume Arrival Time

Plume Arrival Time, $T(PA)$ is expressed as:

$$T(PA) = T(B) + T(T)$$

Where:

$T(B)$ = Time projected before release begins, hours and minutes, if known.

$T(T)$ = Time projected from start of release for plume travel for given wind speed (WS mph) and downwind distance (D_{mi})

$$T(T) = D(mi) \div S(mph)$$

3. Evacuation Constraints

Compare the estimated evacuation time, $T(EV)$, with the estimated plume arrival time, $T(PA)$, to determine if there are constraints against recommending evacuation.

5.5.2 Sheltering Effectiveness

- o In cases where there is no time to evacuate prior to arrival of the plume, or where the projected evacuation time and time before plume arrival are nearly equal, evaluate the benefits of sheltering versus evacuating and being overtaken by the passing plume.
- o If evacuation cannot be carried out in sufficient time to offer significant dose avoidance, recommend that officials warn the population-at-risk to seek shelter, close windows, seal cracks in doors with wet rags, and turn off ventilation systems with external intakes.

- o Consider the following information for sheltering effectiveness.

- Shielding factors from external gamma rays for individuals in various types of structures vary widely. These factors for external whole body gamma dose are presented in Enclosure 2. To be conservative assume a shielding factor of 0.9 for residences and 1.0 (no benefit) for a closed vehicle.

Multiply the projected dose by the external shielding factor to determine the reduction in external gamma dose from the plume. Compare the projected dose to the PAG for whole body gamma dose.

- Shielding factors for an inhalation dose are presented in Enclosure 2. Shielding factors are for a sealed, wood-frame house.

Multiply the projected dose by the inhalation shielding factor to determine the reduction in inhalation dose (thyroid) from the plume. Compare the projected dose to the PAG for thyroid dose.

- For final evaluation of sheltering effectiveness, determine whether the whole body or thyroid is the critical organ of concern.
- The gaseous portion of a radioactive plume may consist of noble gases and/or vapors such as radioiodines. The noble gases will not cause as much dose from inhalation as from whole body external exposure and therefore need not be considered as a separate contributor to inhalation exposure.

- o After the plume has passed the sheltered area, ground deposition should be evaluated to determine whether dose rates are sufficient to warrant subsequent evacuation if significant radioiodines and particulates have been released.

5.6 Ingestion Pathway

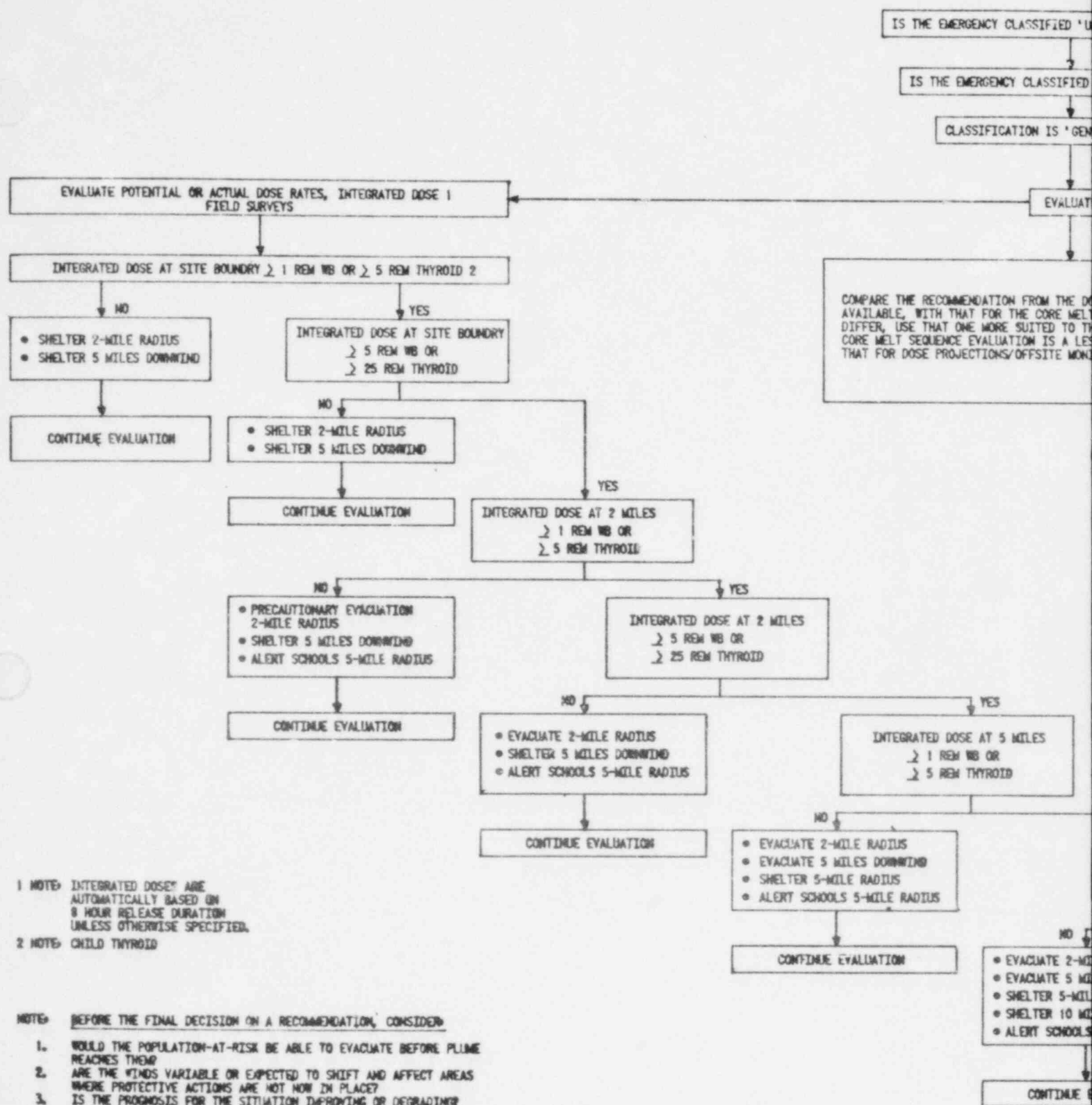
Enclosure 4 lists PAGs for the ingestion pathway and should be considered if significant quantities of radioiodines or particulates are released. Environmental sample analysis should be used to confirm these levels.

Enclosure 14 shows the dairy farms within the 10-mile EPZ for use with Enclosure 4 for milk pathway.

5.7 Post-Accident/Recovery Recommendations

Enclosure 5 is a summary of offsite protective actions recommended for the post-accident/recovery phase of the emergency.

TABLE 5.1 PROTECTIVE ACTION



RECOMMENDATION FLOWCHART

EP-545
Rev. 0

UNUSUAL EVENT* OR *ALERT* → MAKE NO RECOMMENDATIONS

SITE AREA EMERGENCY → INITIATE CONSIDERATION OF PAG RECOMMENDATIONS TO REDUCE EVALUATION TIME WHEN GENERAL EMERGENCY IS DECLARED

GENERAL EMERGENCY*

USE PROJECTION EVALUATION, IF
SEQUENCE EVALUATION, IF THEY
THE CONDITIONS AT THE TIME, THE
IS SOPHISTICATED ANALYSIS THAN
TORING TEAM MEASUREMENTS.

CORE/REACTOR COOLANT SYSTEM/CONTAINMENT STATUS

FOR CORE MELT SEQUENCES WHERE SIGNIFICANT RELEASES FROM CONTAINMENT ARE NOT YET TAKING PLACE AND LARGE AMOUNTS OF FISSION PRODUCTS ARE NOT YET IN CONTAINMENT ATMOSPHERE

- PRECAUTIONARY EVACUATION 2-MILE RADIUS
- SHELTER 5 MILES DOWNWIND
- ALERT SCHOOLS 5-MILE RADIUS

IF FISSION PRODUCT ACTIVITY IN CONTAINMENT ATMOSPHERE IS GREATER THAN GAP ACTIVITY

- EVACUATE 2-MILE RADIUS
- EVACUATE 5 MILES DOWNWIND
- ALERT SCHOOLS 5-MILE RADIUS

FOR CORE MELT SEQUENCES WHERE SIGNIFICANT RELEASES FROM CONTAINMENT ARE NOT YET TAKING PLACE AND CONTAINMENT FAILURE IS LIKELY BUT NOT IMMINENT, AND LARGE AMOUNTS OF FISSION PRODUCTS IN ADDITION TO MOBILE GASES ARE IN CONTAINMENT ATMOSPHERE,

- PRECAUTIONARY EVACUATION 5-MILE RADIUS
- PRECAUTIONARY EVACUATION 10 MILES DOWNWIND
- ALERT SCHOOLS 10-MILE RADIUS

FOR CORE MELT SEQUENCES WHERE LARGE AMOUNTS OF FISSION PRODUCTS IN ADDITION TO MOBILE GASES ARE IN THE CONTAINMENT ATMOSPHERE AND CONTAINMENT FAILURE IS JUDGED IMMINENT, • RECOMMEND SHELTER FOR THOSE AREAS WHERE EVACUATION CANNOT BE COMPLETED BEFORE TRANSPORT OF ACTIVITY TO THAT LOCATION. • RELOCATE IMMEDIATELY FOLLOWING RELEASE IF FEASIBLE. • EVACUATE ALL OTHERS IN 5-MILE RADIUS AND 10 MILES DOWNWIND. IMPLEMENT INGESTION PATHWAY PAG'S IN 10-MILE RADIUS.

NOTE: SEE SECTION 5.1 FOR EXAMPLE SEQUENCES.

YES
INTEGRATED DOSE AT 5 MILES
≥ 5 REM NB OR
≥ 25 REM THYROID

5-MILE RADIUS
5 MILES DOWNWIND
5-MILE RADIUS
5 MILES DOWNWIND
10-MILE RADIUS

EVALUATION

YES
INTEGRATED DOSE AT 10 MILES
≥ 1 REM NB OR
≥ 5 REM THYROID

NO

YES

- EVACUATE 5-MILE RADIUS
- EVACUATE 10 MILES DOWNWIND
- SHELTER 10-MILE RADIUS
- ALERT SCHOOLS 10-MILE RADIUS

CONTINUE EVALUATION

- EVACUATE 5-MILE RADIUS
- EVACUATE 10 MILES DOWNWIND
- EVACUATE SCHOOLS, INSTITUTIONS, RECREATION AREAS 10-MILE RADIUS
- SHELTER 10-MILE RADIUS

CONTINUE EVALUATION

CONSIDER FURTHER ACTIONS
BASED ON ACCIDENT PROGNOSIS

TABLE 5.2
REPRESENTATIVE SHIELDING FACTORS FROM GAMMA CLOUD SOURCE^(a)

Structure or Location	Representative Shielding Factor ^(b)	Representative Range
Outside	1.0	—
Vehicles	1.0	—
Wood-frame house ^(c) (no basement)	0.9	0.9
Basement of wood house	0.6	0.1 to 0.7 ^(d)
Masonry house (no basement)	0.6	0.4 to 0.7 ^(d)
Basement of masonry house	0.4	0.1 to 0.5 ^(d)
Large office or industrial building	0.2	0.1 to 0.3 ^(d)

- a. Taken from SAND 77-1725 (Unlimited Release).
- b. The ratio of the dose received inside the structure to the dose that would be received outside the structure.
- c. A wood-frame house with brick or stone veneer is approximately equivalent to a masonry house for shielding purposes.
- d. This range is mainly due to different wall materials and different geometries.
- e. The shielding factor depends on where the personnel are located within the building (e.g., the basement or an inside room).

TABLE 5.3
REPRESENTATIVE SHIELDING FACTORS FOR
SURFACE DEPOSITED RADIONUCLIDES^(a)

Structure or Location	Representative Shielding Factor ^(b)	Representative Range
1 m above an infinite smooth surface	1.00	—
1 m above ordinary ground	0.70	0.47-0.85
1 m above center of 50-ft roadways, 50% decontaminated	0.55	0.4-0.6
Cars on 50-ft road:		
Road fully contaminated	0.5	0.4-0.7
Road 50% decontaminated	0.5	0.4-0.6
Road fully decontaminated	0.25	0.2-0.5
Trains	0.40	0.3-0.5
One- and two-story wood-frame house (no basement)	0.4 ^(c)	0.2-0.5
One- and two-story block and brick house (no basement)	0.2 ^(c)	0.04-0.40
House basement, one or two walls fully exposed:	0.1 ^(c)	0.03-0.15
One story, less than 2 ft of basement, walls exposed	0.05 ^(c)	0.03-0.07
Two stories, less than 2 ft of basement, walls exposed	0.03 ^(c)	0.02-0.05
Three- or four-story structures, 5000 to 10,000 ft ² per floor:		
First and second floors	0.05 ^(c)	0.01-0.08
Basement	0.01 ^(c)	0.001-0.07
Multistory structures, >10,000 ft ² per floor:		
Upper floors	0.01 ^(c)	0.001-0.02
Basement	0.005 ^(c)	0.001-0.015

- a. Taken from SAND 77-1725 (Unlimited Release).
b. The ratio of dose received inside the structure to the dose that would be received outside the structure.
c. Away from doors and windows.

TABLE 5.4
GUIDELINES FOR PROTECTION AGAINST INGESTION OF CONTAMINATION FOR THE OFFSITE PUBLIC(a)

I. Ground Contamination

A. Action Levels

1. Projected whole body dose above the ground ≥ 1 Rem.
2. Ground contamination level ≥ 2000 Ci/m² at $t = 1$ hr post accident.
3. Exposure rate ≥ 12 mR/hr at 1 meter above ground at $t = 1$ hr post accident.

B. Recommended Protective Actions

1. Evacuation of affected areas.
2. Restriction of entry to contaminated offsite areas until radiation level has decreased to state approved levels.

II. Food and Water Contamination

A. Action Levels

Nuclide(b)	Concentration in Milk or Water		Total Intake via All		Pasture Grass	
	(0.5 Rem WB or bone; 1.5 Rem thyroid)	(5 Rem WB or bone; 15 Rem thyroid)	Food & Water Pathways		(Fresh Weight)	
	Preventive Level (Ci/l)	Emergency Level (Ci/l)	Preventive (Ci/l)	Emergency (Ci/l)	Preventive (Ci/kg)	Emergency (Ci/kg)
I-131 (thyroid)	0.012	0.12	0.09	0.9	0.27	2.7
Cs-137 (whole body)	0.34	3.4	7	70	3.5	35
Sr-90 (bone)	0.007	0.08	0.2	2	0.7	7
Sr-89 (bone)	0.13	1.3	2.6	26	13	130

B. Recommended Protective Actions

- | | |
|--|--|
| <ul style="list-style-type: none"> o Removal of lactating dairy cows and goats from contaminated pasture and substitution of uncontaminated stored feed. o Substitute source of uncontaminated water. o Withhold contaminated milk from market to allow radioactive decay. o Divert fluid milk to production of dry whole milk, butter, etc. | <ul style="list-style-type: none"> o Isolate food and water from its introduction into commerce after considering: <ul style="list-style-type: none"> a. availability of other possible actions; b. importance of particular food in nutrition; c. time and effort to take action; d. availability of other foods. |
|--|--|

a. Reference: U.S. Food and Drug Administration, Federal Register, Vol. 43, No. 242, December 15, 1978.

b. If other nuclides are present, use Reg. Guide 1.109 to calculate the dose to the critical organ(s).
Infants are the critical segment of the population.

TABLE 5.5
SUMMARY OF POSSIBLE OFFSITE PROTECTIVE ACTIONS TO BE
RECOMMENDED OR IMPLEMENTED DURING AN EMERGENCY(a)

Accident Phase	Exposure Pathway	Examples of Action To Be Recommended
EMERGENCY PHASE(b) (0.5 to 30 hours)(c)	Inhalation of gases, radio-iodine, or particulate	Evacuation, shelter, access control, respiratory protection, prophylaxis (thyroid protection)
	Direct whole body exposure	Evacuation, shelter, access control
	Ingestion of milk	Take milk animals off pasture and prevent from drinking surface water, discard contaminated milk, or divert to stored products such as cheese
INTERMEDIATE PHASE(d) (30 hours to 30 days)(c)	Ingestion of fruits and vegetables	Wash all produce, or impound produce, delay harvest until approved, substitute uncontaminated produce
	Ingestion of water	Cut off contaminated supplies, substitute from other sources, filter, demineralize
	Whole body exposure and inhalation	Relocation, decontamination, access control
LONG-TERM PHASE(e) (over 30 days)(c)	Ingestion of food and water contaminated from the soil either by resuspension or uptake through roots	Decontamination, condemnation, or destruction of food; deep plowing, condemnation, or alternate use of land
	Whole body exposure from deposition material or inhalation of resuspended material	Relocation, access control, decontamination, fixing of contamination, deep plowing

- a. Reference: USEPA "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents," 1975.
b. Emergency phase - Time period of major release and subsequent plume exposure.
c. "Typical" post-accident time periods.
d. Intermediate phase - Time period of moderate continuous releases with plume exposure and contamination of environment.
e. Long-term phase - Recovery period.

TABLE 5.6 SUMMARY OF EVACUATION TIMES*

	Permanent Population	Permanent Population Vehicles	Transient Population	Transient Population Vehicles	Evacuation Capacity per Hour	General Population Evacuation Time - Normal Conditions	General Population Evacuation Time - Adverse Conditions	Confirmation Time**	Special Population Evacuation*** Time - Normal Conditions	Special Population Evacuation*** Time - Adverse Conditions
<u>Zones</u> <u>Within Two Miles</u>										
1	3,607	1,551	200	57	3,600	2:40	2:40	2:40	2:40	2:40
<u>Zones</u> <u>Within Five Miles</u>										
2	6,030	2,593	8,800	2,514	4,800	3:00	4:15	3:00	3:00	4:15
3	3,045	1,309	2,000	571	3,600	2:40	2:40	2:40	2:40	2:40
<u>Zones</u> <u>Within Ten Miles</u>										
4	45,001	18,842	100	29	14,400	3:45	5:45	3:45	3:45	5:45
5	8,911	3,696	0	0	6,000	2:45	3:30	2:45	2:45	3:30
6	23,507	9,822	650	179	12,600	4:00	5:45	4:00	4:00	5:45
Total EPZ	90,101	37,813	11,750	3,350	34,800	4:00	5:45	4:00	4:00	5:45

- * Estimate of Evacuation Times, Enrico Fermi Atomic Power Plant, Unit 2, PRC Voorhees, Revised March 1982.
- ** The confirmation process will begin during evacuation and run concurrently until the evacuation process is complete.
- *** In all instances, the evacuation of special populations segments will be completed prior to the completion of general population evacuation.

TABLE 5.7
DISTRIBUTION OF 1980 POPULATION IN EMERGENCY PLANNING
ZONE RINGS AND SECTORS, MONROE AND WAYNE COUNTIES, MICHIGAN

Sector (22 1/2°)	Ring (One-Mile)										TOTAL
	1	2	3	4	5	6	7	8	9	10	
N	29	266	179	80	199	233	884	4,341	4,350	5,288	15,849
NNE	0	103	12	92	82	382	1,205	1,322	956	3,845	7,999
NE	0	264	134	12	0	0	0	--	--	--	410
ENE	0	--	--	--	--	--	--	--	--	--	0
E	0	--	--	--	--	--	--	--	--	--	0
ESE	0	--	--	--	--	--	--	--	--	--	0
SE	0	--	--	--	--	--	--	--	--	--	0
SSE	0	--	--	--	--	--	--	--	--	--	0
S	42	586	52	--	--	--	--	--	--	--	680
SSW	0	723	21	--	--	--	--	--	--	--	744
SW	0	212	9	--	119	0	0	0	66	887	1,293
WSW	0	25	861	2,276	1,811	997	4,483	9,444	13,971	6,198	40,066
W	0	59	30	168	611	992	996	1,197	690	696	5,439
WNW	0	18	32	53	111	1,958	482	191	619	623	4,087
NW	3	77	359	651	324	259	505	371	601	3,295	6,445
NNW	0	143	247	65	78	224	653	596	681	515	3,202
TOTAL	74	2,476	1,936	3,397	3,335	5,045	9,208	17,462	21,934	21,347	86,214

TABLE 5.8
DISTRIBUTION OF PRELIMINARY 1980 POPULATION IN 10- TO 50-MILE AREA AROUND FERMI 2

Dir	Distance (Miles)								
	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	10-50
N	10,355	95,468	199,447	331,196	369,786	316,228	128,588	183,949	1,635,017
NNE	24,993	75,873	87,272	527,834	585,704	440,902	251,639	112,020	2,106,237
NE	7,613	3,567	4,583	5,600	10,828	8,049	549	0	40,789
ENE	1,319	5,641	4,583	11,964	6,617	7,631	8,227	8,672	54,654
E	0	610	1,146	5,910	2,814	14,480	3,207	0	28,167
ESE	0	0	0	0	1,704	1,145	0	0	2,849
SE	0	0	0	401	1,853	4,860	11,622	36,051	54,787
SSE	0	0	0	1,052	6,398	10,255	7,664	14,256	39,625
S	0	0	3,693	3,875	9,116	6,539	26,539	8,591	57,353
SSW	0	3,004	36,423	71,520	16,369	6,211	14,170	24,353	172,050
SW	3,858	7,150	99,338	219,699	65,633	12,945	12,852	10,700	432,175
WSW	4,482	2,233	6,325	3,206	6,582	3,482	3,526	5,942	35,778
W	4,521	1,119	5,804	5,418	2,246	25,456	23,140	6,747	74,451
WNW	3,351	2,844	9,076	8,195	6,514	4,564	4,558	7,938	47,040
NW	0	7,398	23,921	74,264	104,923	11,262	21,742	16,059	259,570
NNW	<u>5,273</u>	<u>14,272</u>	<u>68,913</u>	<u>51,444</u>	<u>56,144</u>	<u>21,463</u>	<u>27,752</u>	<u>41,318</u>	<u>286,579</u>
Total	65,765	219,179	550,524	1,320,578	1,253,231	895,472	545,776	476,596	5,327,121

FIGURE 5.1
EVACUATION SUBAREAS
10 MILE EMERGENCY PLANNING ZONE

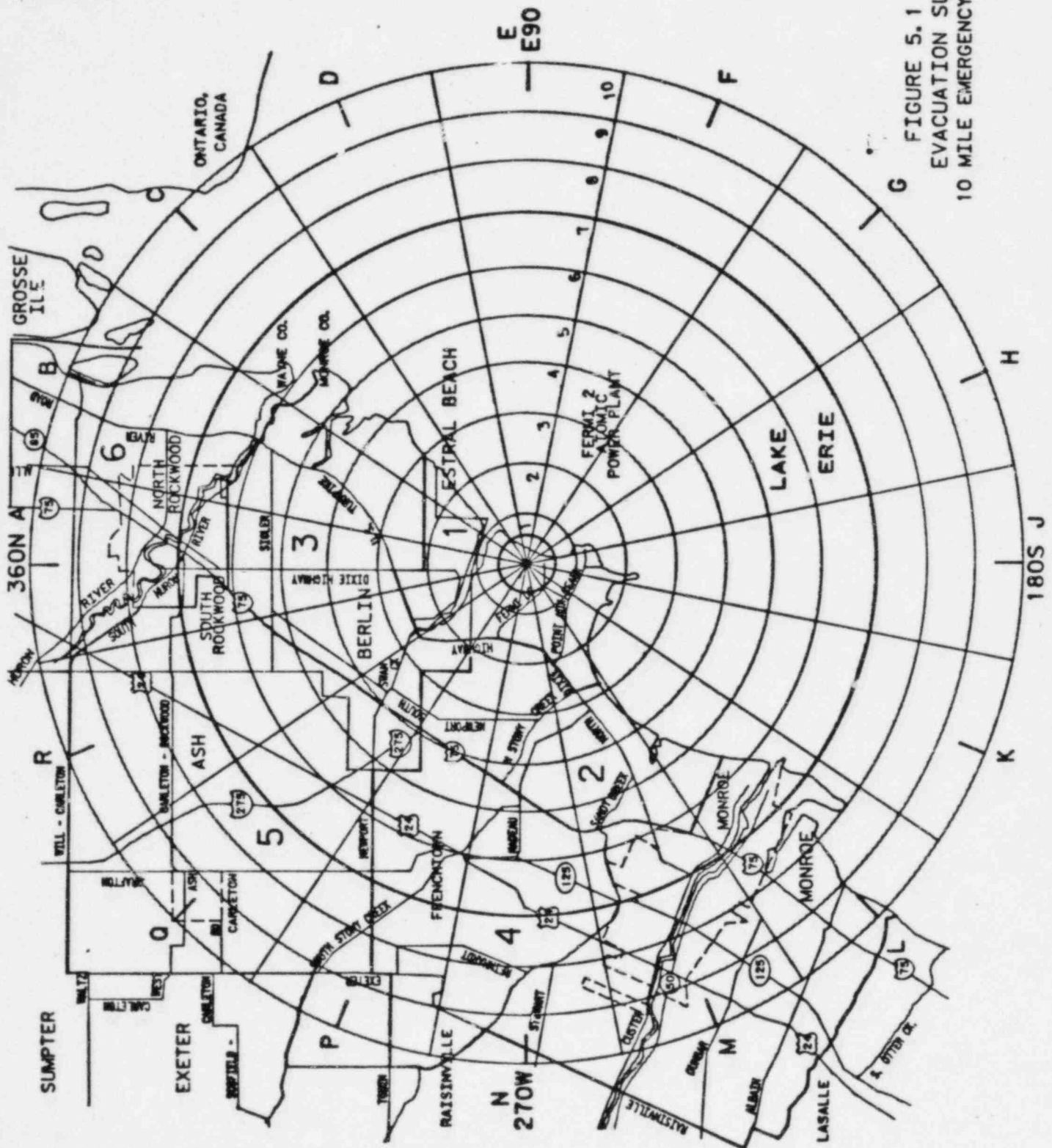
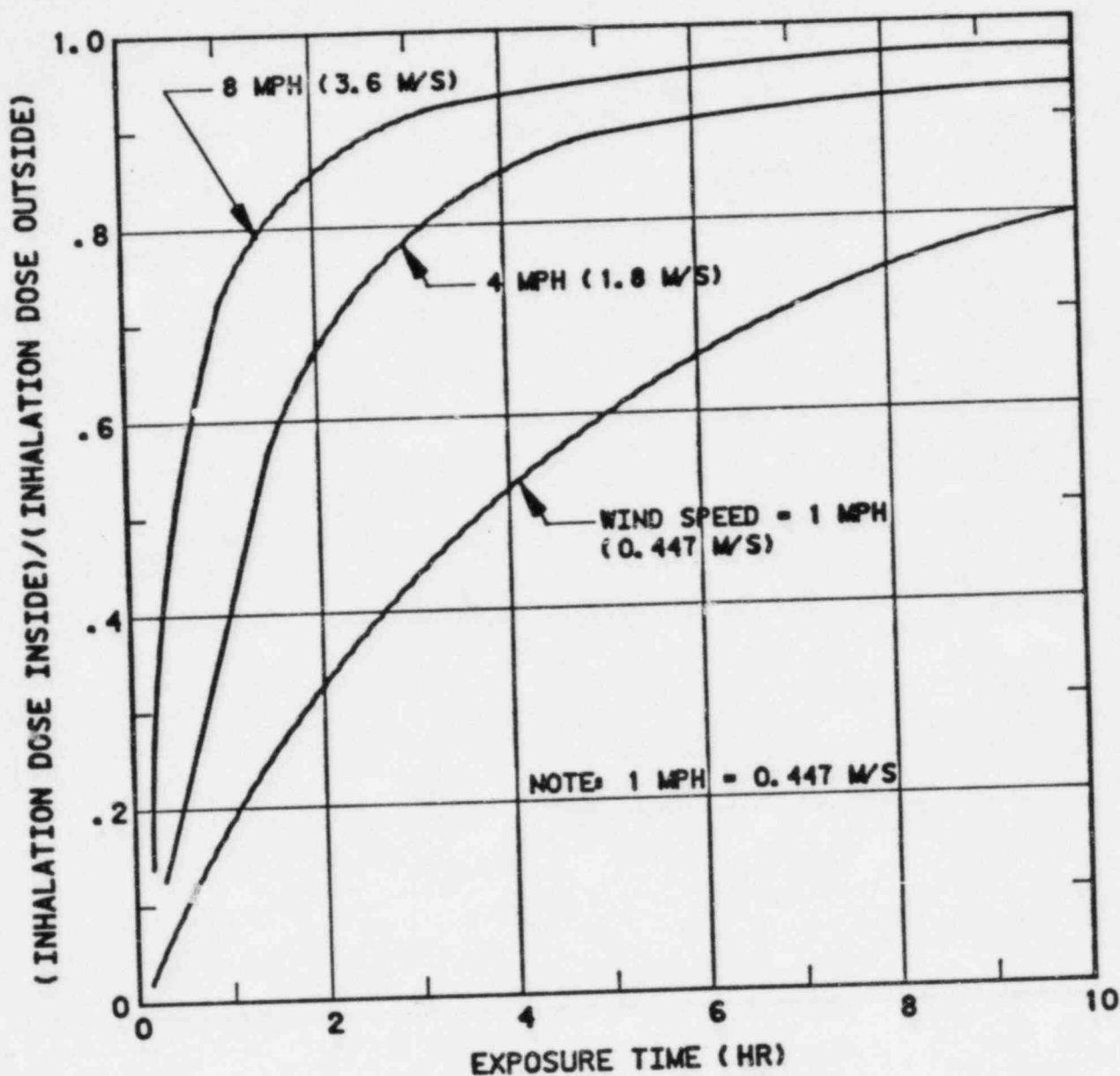


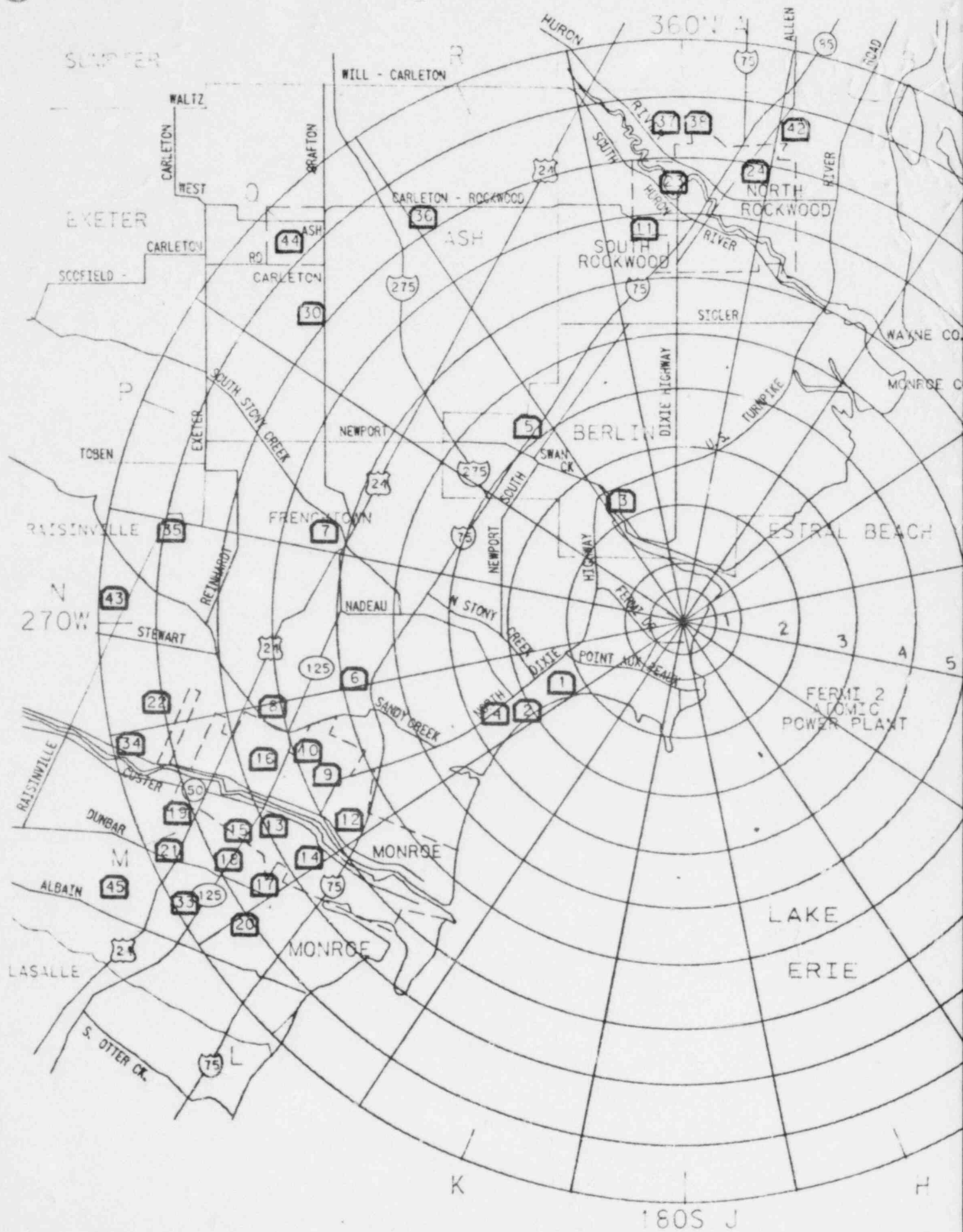
FIGURE 5.2

INHALATION SHIELDING FACTORS FOR A WOOD HOUSE,
SNUG DOORS, CLOSED WINDOWS (THYROID)



THE ABOVE CURVE ASSUMES THE HOUSE REMAINS CLOSED UP FOR THE DURATION. ACTUALLY THE DOSE INSIDE THE HOUSE CAN BE FURTHER REDUCED BY OPENING THE DOORS AND WINDOWS AFTER THE CLOUD HAS PASSED AND PURGING THE HOUSE WITH FRESH AIR

* REACTOR SAFETY STUDY,* APPENDIX VI, WASH-1400, OCTOBER 1975





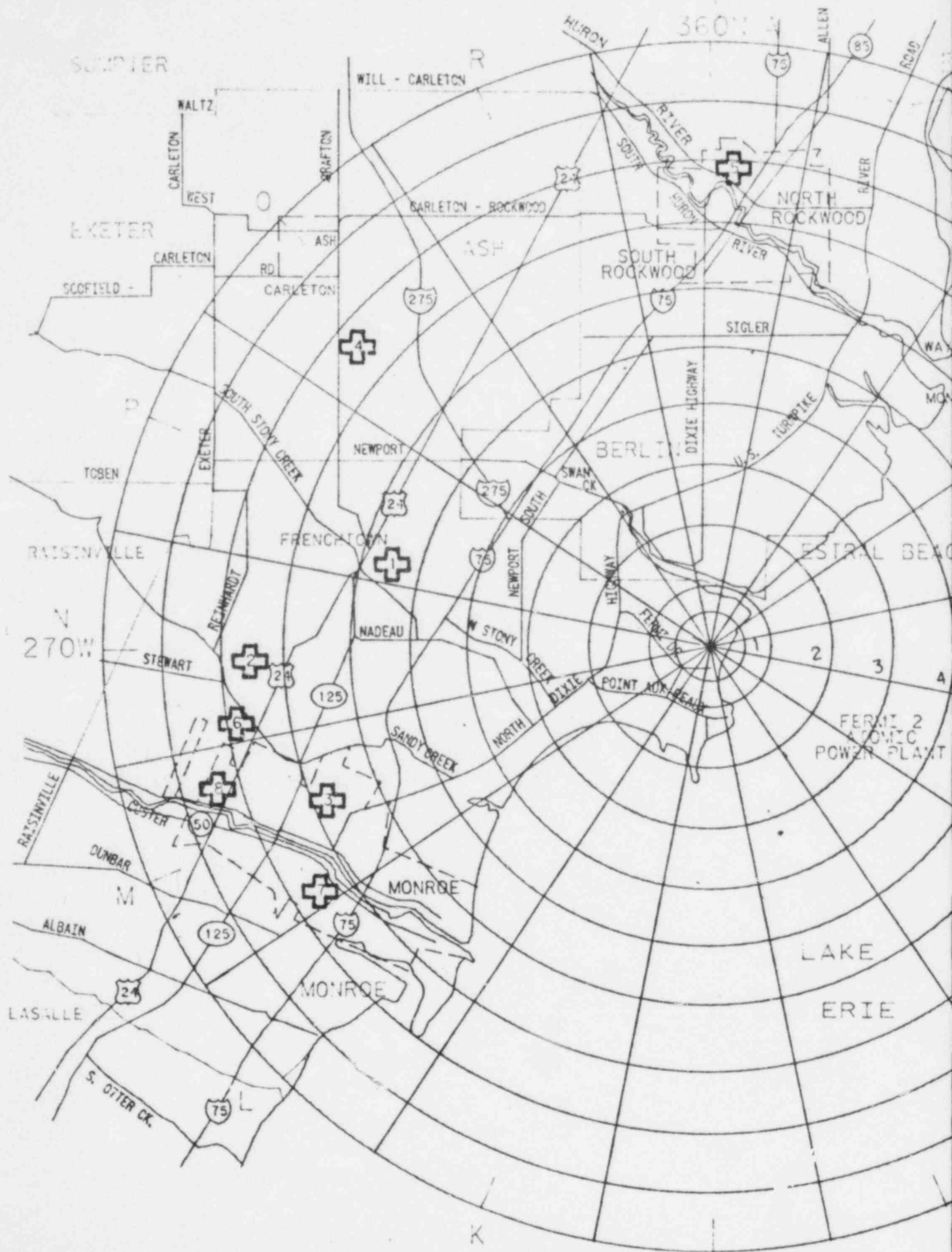
SCHOOLS WITHIN 10 MILES OF THE FERMI SITE

(A) SCHOOL	1983 ENROLLMENT	DISTANCE (MILES) AND DIRECTION FROM PLANT SITE
1. JEFFERSON HIGH	150	2.8 - W
2. JEFFERSON JR. HIGH	900	2.6 - W
JEFFERSON ELEMENTARY	600	2.8 - W
3. ST. CHARLES SCHOOLS	150	3 - NW
4. ST. ANNE SCHOOL	97	4 - NW
5. HENRY NIEDERMEIER ELEMENTARY	215	4 - NW
6. HURD ROAD ELEMENTARY	600	5 - NW
7. AIRPORT ELEMENTARY (STERLING)	500	6 - NW
8. ZION LUTHERAN SCHOOL	150	7 - NW
9. CANTRICK JR. HIGH	612	7 - NW
10. HOLLYWOOD ELEMENTARY	324	7 - NW
11. FRED W. RITER ELEMENTARY	291	7 - N
12. CHRISTIANCY ELEMENTARY	295	7 - NW
13. ST. MARY PARISH SCHOOL	325	7 - NW
14. LINCOLN ELEMENTARY	378	8 - NW
15. MONROE CATHOLIC CENTRAL	410	8 - NW
16. RIVERSIDE ELEMENTARY	239	8 - NW
17. TRINITY LUTHERAN SCHOOL	280	8 - NW
18. MONROE JR. HIGH	1248	8 - NW
19. ST. MARY ACADEMY	380	8 - NW
20. ST. JOHN SCHOOL	260	8 - NW
21. ST. MICHAEL'S SCHOOL	360	8 - NW
22. MANOR ELEMENTARY	375	8 - NW
23. CHAPMAN ELEMENTARY	377	8 - N
24. BORROW ELEMENTARY	265	9 - N
25. CARLSON HIGH SCHOOL	1024	9 - N
26. HUNTER ELEMENTARY SCHOOL	619	9 - N
27. SHUMATE JR. HIGH	652	9 - N
28. WEISS ELEMENTARY SCHOOL	326	9 - N
29. STARK ELEMENTARY SCHOOL	121	9 - N
30. AIRPORT COMMUNITY HIGH	750	9 - NW
31. AIRPORT JR. HIGH	750	9 - NW
32. MONROE HIGH	1723	9 - WSW
33. SOUTH MONROE TOWNSITE ELEMENTARY	279	9 - WSW
34. WATERLOO ELEMENTARY	343	9 - WSW
35. HOLY GHOST LUTHERAN SCHOOL	100	9 - WSW
36. PARSONS ELEMENTARY	404	9 - NW
37. CHURCH STREET ELEMENTARY	250	9 - NW
38. ST. MARY OF ROCKWOOD	290	9 - NW
39. ETHEL C. BOBCEAN ELEMENTARY SCHOOL	493	10 - N
40. THOMAS SIMPSON INTERMEDIATE SCHOOL	624	10 - N
41. FLAT ROCK HIGH SCHOOL	495	10 - N
42. RAISINVILLE ELEMENTARY	510	10 - W
43. ST. PATRICK SCHOOL	240	10 - NW
44. CASTER ELEMENTARY	1133	10 - WSW
45. MONROE COUNTY COMMUNITY COLLEGE	1736	11 - WSW

(A) NUMBERS REFER TO FIGURE 2.2-7

FIGURE 5.3
SCHOOLS WITHIN THE

10 MILE EMERGENCY PLANNING ZONE



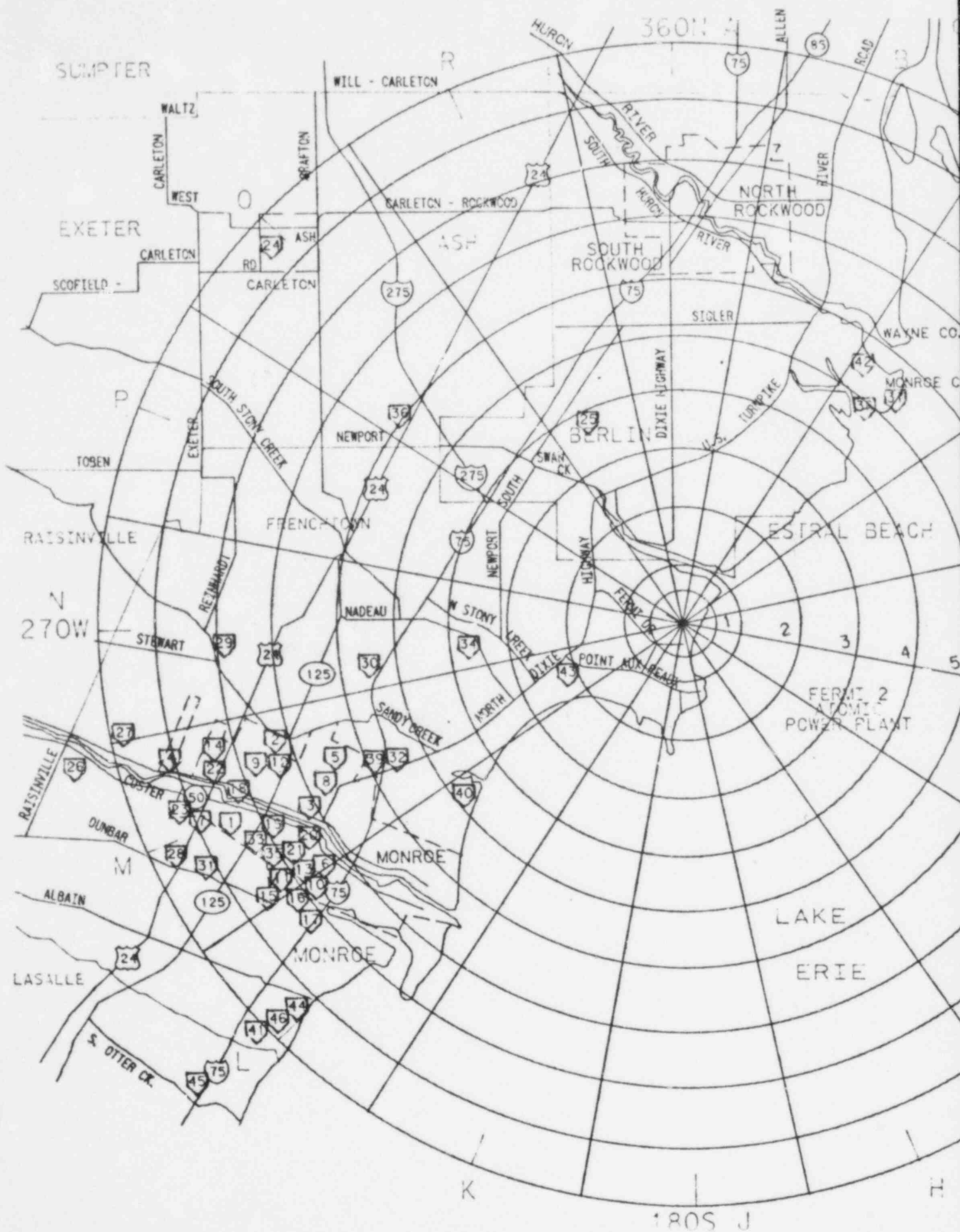
HOSPITALS AND NURSING FACILITIES
WITHIN 10 MILES OF THE FERMI SITE

	(A) HOSPITAL NURSING HOME	ESTIMATED NO. OF PATIENTS	DISTANCE (MILES AND DIRECTION FROM PLANT SITE)
1.	FRENCHTOWN CONVALESCENT CENTER	228	6 N
2.	MERCY HOSPITAL	204	7 WSW
3.	MONROE CONVALESCENT CENTER	85	7 WSW
4.	FAIRVIEW APARTMENTS	25	
5.	ROCKWOOD CHILDREN'S HOME	8	8 N
6.	BEACH NURSING HOME	192	8 WSW
7.	LUTHERAN HOME FOR AGED	102	9 WSW
8.	MONROE CARE CENTER (A NURSING FACILITY)	103	9 WSW
	TOTAL	922	



FIGURE 5.4

HOSPITALS AND INSTITUTIONS WITHIN THE
10 MILE EMERGENCY PLANNING ZONE



RECREATIONAL AREAS WITHIN 10 MILES OF THE FERMI SITE



<u>PARK/RECREATIONAL FACILITY/MUSEUM</u>	<u>DISTANCE (MILES) AND DIRECTION FROM PLANT SITE</u>
1. CAIRNS FIELD	
2. CALGARY NEIGHBORHOOD PLAYGROUND	
3. CHRISTIANCY SCHOOL TOTLOT	
4. CRANBROOK TOTLOT	
5. GREENWOOD TOTLOT	
6. HELLENBURG COMMUNITY PLAYFIELD	
7. HOFFMAN NEIGHBORHOOD PLAYGROUND	
8. HOLLYWOOD SCHOOL TOTLOT	
9. HUBER PARK	
10. KING MEMORIAL PLAYGROUND	
11. LAPLAISANCE NEIGHBORHOOD PARK	
12. LAVENDER NEIGHBORHOOD PARK	
13. LINCOLN SCHOOL TOTLOT	
14. MANOR SCHOOL PARK	
15. NAVARRE FIELD COMMUNITY PLAYFIELD	
16. PLUM CREEK PARK	
17. RAUCH PLAYGROUND	
18. ROESSLER COMMUNITY PLAYFIELD	
19. ST. MARY'S PARK	
20. SOLDIERS AND SAILORS PLAYGROUND	
21. TRINITY TOTLOT	
22. VETERANS PARK	
23. WATERLOO PARK	9 - WSW
24. ASH TOWNSHIP PARK	
25. BRANDON ROAD PARK	
26. MONROE COUNTY FAIRGROUNDS (D)	10 - W
27. MONSON PARK	
28. FRANK SKEBENSKY ROADSIDE PARK	
29. FRENCHTOWN FIRE STATION	
30. FRENCHTOWN PARK	
31. TOWNSITE PARK	
32. HECK PARK	
33. CLUSTER MUSEUM	8 - WSW
34. KIWANIS PARK	
35. MONROE COUNTY HISTORICAL MUSEUM	8 - WSW
36. NIKE PARK	
37. POINT MOUILLE STATE GAME AREA	5 - NE
38. POINT MOUILLE STATE GAME AREA	6 - NE
39. HECK PARK	7 - WSW
40. STERLING STATE PARK	5 - SW
41. BOLLES HARBOR	9 - SW
42. MORIN POINT (LAKE ERIE)	
43. BREST BAY MARINA	
44. TED HOFFMAN MEMORIAL ACCESS SITE	
45. I-75 REST AREA	
46. HARBOR MARINA	

FIGURE 5.5

RECREATIONAL AREAS WITHIN THE

10 MILE EMERGENCY PLANNING ZONE

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: PUBLIC EDUCATION AND INFORMATION

RECORD OF APPROVAL AND CHANGES

Prepared by	<u>John Rogers</u>	<u>06/29/83</u>	Date
Approved by	<u><i>M. Chubb for T.M.</i></u>	<u>9-6-83</u>	Date
	Responsible Section Head		
Recommended by	<u><i>E.H. Newton</i></u>	<u>9-6-83</u>	Date
	Supervisor - Operational Assurance/Delegate		

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by	<u><i>R.L. +</i></u>	<u>9/6/83</u>	Date
	OSRO Chairman/Alternate		
Approved by	<u><i>R.L. +</i></u>	<u>9/6/83</u>	Date
	Superintendent-Nuclear Production/Delegate		

Revision No.	Responsible Section Head Approved	Date	Supervisor- Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
2					*			
3					*			
4					*			
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7					*			
8					*			

CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: PUBLIC EDUCATION AND INFORMATION

Prepared by	John Rogers	06/29/83
Recommended by	Walter A. Zumbelli / DSM Communication System Division	7-29-83
Recommended by	James L Jones Community & Government Affairs	7-29-83
Recommended by	Larry E. Schuman Licensing	8/2/83
Recommended by	Robert H. Duncan Medical Staff	7/29/83
Recommended by	James J. Francis Nuclear Administration	7/29/83
Recommended by	E. R. Overbeck / E. R. Overbeck Nuclear Production	7/29/83
Recommended by	Edward J. Hargis Nuclear Training	7/29/83
Recommended by	Burt Kephner Public Information	7/29/83
Recommended by	W. G. Hall / W. G. Hall Security	7-29-83
Recommended by	M. J. McManis / M. J. McManis Wayne-Monroe Division	7-29-83
Approved by	T. R. Rouse / T. R. Rouse RERP Committee Chairperson	8/1/83
Revision No.	RERP Committee Chairperson Approved	Date

$$\frac{1}{2} \frac{2}{3} \frac{3}{4} \frac{4}{5} \frac{5}{6} \frac{6}{7} \frac{7}{8}$$

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3.0 Entry Conditions.	1
4.0 General Information	1
5.0 Immediate Actions	2

1.0 Purpose

- 1.1 This procedure prescribes actions taken by the Public Affairs Department supporting the Company's Radiological Emergency Response Preparedness (RERP) Plan and Federal Regulations regarding emergency public education and information planning and response duties of licensees.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section G (Public Education and Information).
- 2.2 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG-0654 FEMA-REP-1 REV.1, Section II-G (Public Education and Information)).
- 2.3 The State of Michigan Emergency Preparedness Plan
- *2.4 Appendix 1, Nuclear Facility Procedures, Monroe County Emergency Operations Plan
- 2.5 Appendix 1, Nuclear Facility Procedures, Wayne County Emergency Operations Plan
- *2.6 Public Affairs: Unusual Event/Alert (EP-602)
- *2.7 Public Affairs: Site Area Emergency/General Emergency (EP-603)
- *2.8 Public Affairs: Employee Emergency Communication Center (EP-605)
- *2.9 Public Affairs: Emergency Communication Plan Overview (EPA-10)

3.0 Entry Conditions

- 3.1 As a licensee, Public Affairs conducts ongoing Emergency Public Education and Information planning activities.
- 3.2 Whenever a radiological emergency occurs at the Fermi 2 Nuclear Power Plant the Public Affairs Department's Public Information Emergency Communication Plan (See Reference 2.9) is activated.

4.0 General Information

- 4.1 Detroit Edison as the licensee acts in cooperation with county and State emergency functions.

*Denotes "Use" Reference

- 4.2 The Company's Public Affairs Department is responsible for the development, planning and distribution of emergency public education and information support materials.
- 4.3 Public Affairs and other company personnel are assigned to public information duties during an emergency declared at Fermi 2.
- 4.4 Public Affairs personnel are assigned to employee communication activities during a declared emergency at Fermi 2.
- 4.5 The Company's Public Information Policy continues during a nuclear emergency.
 - 4.5.1 This Policy includes prompt, open communications with public officials, the public and employees at all times.
 - 4.5.2 This Policy calls for providing the public with accurate and prompt information through established news and information channels.
 - 4.5.3 Interpretation and application of this Policy is under the direction of the Vice President-Public Affairs, or his/her alternate, the Director-Public Information.
 - 4.5.4 The Director, Public Information is the Administrator of the Public Affairs Emergency Communication Plan (see Reference 2.9).

5.0 Immediate Actions

- 5.1 Public education and information support materials are developed and distributed to 10-Mile Emergency Planning Zone (EPZ) residents and areas frequented by transients.
 - 5.1.1 A "Fermi 2 Newsletter" featuring articles about the plant, its operation, the people who operate it and up-to-date information about nuclear energy is distributed at least annually to EPZ residents by U.S. Mail.
 - 5.1.2 An informational mailing is distributed to all residents in the EPZ telling them how they will be warned (sirens), basic information on radiation, which Emergency Broadcast System (EBS) stations will give them further instructions, evacuation information, protective measures, relocation information, location of sheltering centers, rumor control telephone numbers and how to get special help for the handicapped. This informational mailing is updated annually prior to distribution.

1. This same information is published in all telephone directories issued in communities in the 10-Mile EPZ.

5.1.3 Posters featuring emergency response information and directions as listed in the informational mailing, though in shorter form, are prepared and distributed to public areas, buildings and recreation facilities in the 10-Mile EPZ.

1. Distribution is the responsibility of the Company.
2. Posters are reviewed annually by Public Affairs.

5.1.4 Stickers featuring emergency response information and directions are prepared for distribution to locations in the EPZ frequented by transients.

1. Stickers carry information about the warning sirens, EBS stations to turn to, and phone numbers for more information.
2. Stickers are distributed by the Company.
3. Sticker information is updated annually as necessary.

5.1.5 An On-Site News Center or a General Offices News Center may be activated at the Unusual Event or the Alert level classification (See EP-602).

5.1.6 Provisions have been made for a Joint Public Information Center (JPIC), at the Monroe County Community College located just outside the 10-Mile EPZ (See EP-603).

1. All information released on an event reaching Site Area Emergency or higher is issued from the JPIC with State, county and Detroit Edison officials coordinating the release of information to the media.

5.1.7 A Company Officer who has access (Group Vice President or alternate) has been designated as the spokesperson for Detroit Edison in the event of an emergency at Fermi 2.

1. The Company spokesperson is supported by a Senior Technical Liaison, the Fermi 2 Project Manager, Project Management Organization (PMO) and/or the Fermi 2 Assistant Project Manager, PMO (or alternate).

- 5.1.8 A rumor control function is established and administered by the Monroe County Office of Civil Preparedness (See Reference 2.4).
- 5.1.9 Provisions have been made for a corporate Employee Emergency Communication Center in the General Offices building in downtown Detroit (See EP-605).
- 5.1.10 Provisions have been made for an annual news media briefing session in cooperation with the state and county emergency planning officials.
 - 1. The briefing acquaints the media with emergency plans, radiation information and how to obtain information during a nuclear emergency.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: UNUSUAL EVENT/ALERT

RECORD OF APPROVAL AND CHANGES

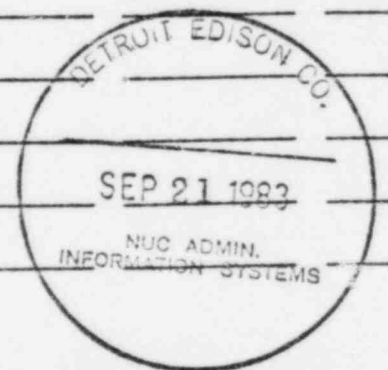
Prepared by	<u>John Rogers</u>	<u>06-29-83</u>	
		Date	
Approved by	<u><i>[Signature]</i> for TR.</u>	<u>9-6-83</u>	
	Responsible Section Head	Date	
Recommended by	<u>E. H. Newton</u>	<u>9-6-83</u>	
	Supervisor - Operational Assurance/Delegate	Date	

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by	<u>R. L. Lunt</u>	<u>9/6/83</u>	
	OSRO Chairman/Alternate	Date	
Approved by	<u>R. L. Lunt</u>	<u>9/6/83</u>	
	Superintendent-Nuclear Production/Delegate	Date	

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
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					*			
8					*			



CONTROLLED

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLANT IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: UNUSUAL EVENT/ALERT

Prepared by	John Rogers	06-29-83
		Date
Recommended by	Walter A. Zambelli / DSM	7-29-83
	Communication System Division	Date
Recommended by	James L. Jones	7-29-83
	Community & Government Affairs	Date
Approved by	T. R. ... by G. ...	8/1/83
	RERP Committee Chairperson	Date
Recommended by	Larry E. Schurman	8/2/83
	Licensing	Date
Recommended by	... Medical Staff	7/29/83
	Medical Staff	Date
Recommended by	James J. ...	7/29/83
	Nuclear Administration	Date
Recommended by	G.R. Overbeck / E. ...	7/29/83
	Nuclear Production	Date
Recommended by	... Nuclear Training	7/29/83
	Nuclear Training	Date
Recommended by	... Public Information	7-29-83
	Public Information	Date
Recommended by	... Security	7-29-83
	Security	Date
Recommended by	... Wayne-Monroe Division	7-29-83
	Wayne-Monroe Division	Date
Revision No.	RERP Committee Chairperson Approved	Date

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6.0 Follow-up Actions	5

Enclosures

Notification Sequence - Unusual Event/AlertEnclosure 1
Notification Sequence - On-Site News Center ActivationEnclosure 2

1.0 Purpose

To prescribe actions taken by the Public Affairs Staff during an Unusual Event or Alert at the Enrico Fermi Atomic Power Plant Unit 2.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section G (Public Education and Information)
- 2.2 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG-0654 FEMA-REP-1 REV.1), Section II-G (Public Education and Information)
- *2.3 Public Affairs Emergency Communication Plan
- 2.4 The State of Michigan Emergency Preparedness Plan
- 2.5 Appendix 1, Nuclear Facility Procedures, Monroe County Emergency Operations Plan
- 2.6 Appendix 1, Nuclear Facility Procedures, Wayne County Emergency Operations Plan
- *2.7 On-Call Plant Supervisor: Emergency Notifications (EP-291)
- *2.8 Public Affairs: Media Relations (EP-606)
- *2.9 On Site News Center: Security Force Responsibilities (EP-610)
- 2.10 Public Affairs: Emergency Communication Plan Overview (EPA-10)

3.0 Entry Conditions

Whenever the Nuclear Shift Supervisor or the Emergency Director declares an Unusual Event or Alert reportable to the Nuclear Regulatory Commission, the Detroit Edison Emergency Communication Plan (See Reference 2.10) is activated.

4.0 General Information

The Public Affairs Staff has the responsibility of notifying the public through the media of any Unusual Event and keeping them informed of events as they develop if they feel this is warranted. This information is cleared with the Vice President-Nuclear Operations if

*Denotes "Use" Reference

time permits in the judgment of the Director-Public Information, or the Vice President-Public Affairs. At the Alert level and beyond, Nuclear Operations approvals are not required.

- 4.1 The public is informed by the Media Relations Staff through contacts with the news media (See EPA-10).
- 4.2 Information provided the media may include on-going event status reports, announcements of escalation to higher emergency classifications and information about the close-out of the event including what happened, why and recovery measures.
- 4.3 The Media Relations Supervisor (during regular working hours) is contacted by the On-Call Plant Supervisor immediately following notification of the Emergency Officer (See EP-291). If the Media Relations Supervisor is not available, the Director-Public Information or the Vice President-Public Affairs is contacted (See Enclosure 1).
- 4.4 The Plant On-Call Supervisor provides the Media Relations Supervisor with descriptive and meaningful information on the Unusual Event or Alert (See EP-291).
- 4.5 The Media Relations Supervisor receives periodic updates at least hourly from the Nuclear Shift Supervisor/Emergency Director or their designees.
- 4.6 The Media Relations Supervisor may contact the Control Room for additional information from the Nuclear Shift Supervisor or designee.

5.0 Immediate Actions

- 5.1 The Media Relations Supervisor contacts the Director-Public Information, the Emergency Communication Planner or, if these persons are not available, the Vice President-Public Affairs, and provides details of the emergency.
- 5.2 The Media Relations Supervisor calls the local (Monroe) media.
 - 5.2.1 Media are given the details of the event and the best available prognosis at the time.
 - 5.2.2 Media are told to expect updates at least every two hours up to and including close-out of the event.
 - 5.2.3 An On-Site News Center or an Off-Site News Center in the General Offices Area may be opened at the Unusual Event level by the Director-Public Information, or designee under certain conditions:

1. The event is likely to escalate quickly.
2. Media are at the site boundary and/or entrance.
3. Media interest in actualities and/or on-site visuals develops.
4. Media are receiving information before company information reaches them.
5. Corporate interests are better served through an authoritative spokesperson informing the media at one location at the same time.

5.3 If the event escalates to the Alert level, the above actions continue with information coming from the Technical Support Center via the Emergency Director or designee. The designated News Center may be activated by the Director-Public Information, in the following sequence (see Enclosure 2):

5.3.1 The Director-Public Information activates the designated News Center by notifying the Vice President- Public Affairs, the Media Relations Supervisor and the Emergency Director.

1. The Director-Public Information, and the Media Relations Supervisor go to the designated News Center.

5.3.2 The Vice President-Public Affairs notifies the Vice President-Nuclear Operations or alternate and the Joint Public Information Team (JPIT) Utility Spokesperson that a news center is to be activated and specifies its location.

1. The JPIT Utility Spokesperson or designated alternate goes to the designated News Center.

5.3.3 If an On-Site News Center is activated, the Media Relations Supervisor notifies: 1) the Senior Media Relations Representative to handle media calls at the General Office; 2) the Emergency Communication Planner; and 3) the Secondary Alarm Station (SAS) (See EP-610).

1. Nuclear Security is notified that the On-Site News Center is to be activated and prepares to receive the members of the media.
2. The Emergency Communication Planner contacts the Fermi 2 Information Center Coordinator (ICC) who notifies the Monroe Area Public Involvement Representative. All three proceed to the On-Site News Center.

- 5.3.4 The Emergency Director designates a person to act as the Technical Support Center (TSC) Emergency Information Coordinator who maintains a flow of information to the Media Relations Representative on duty.
- 5.3.5 The Director-Public Information, after arriving at the designated News Center, receives the media and arranges for briefings by Emergency Director/Emergency Officer, the JPIT Utility Spokesperson, or appropriate designee.
1. The Media Relations Supervisor is kept informed of events by the Media Relations Representative on duty at the General Offices.
 2. The Director-Public Information and/or the Emergency Communication Planner is responsible for informing the Vice President-Public Affairs, the Senior Media Relations Representative, Detroit Edison Company Employees and the Manager, Local and State Governmental Affairs about all events and actions made public at the designated News Center during an Unusual Event or Alert level status.
- 5.3.6 For an Unusual Event or an Alert level event during weekends or after hours on weekdays, the On-Call Plant Supervisor contacts the Media Relations Representatives on the Public Affairs After Hours Duty List. Designated persons are notified in the sequence shown in Enclosure 1, (after hours) attached, as follows:
1. The Media Relations Representative on duty contacts the Media Relations Supervisor or, if he/she is not available, the Director-Public Information, or the Vice President-Public Affairs.
 2. The Media Relations Supervisor contacts the Emergency Communications Planner and the Director, Public Information; if not available, the Vice President-Public Affairs.
 3. The After Hours Media Relations Representative performs the duties of the Media Relations Supervisor outlined above when the event occurs after hours.
 4. Should the After Hours Media Relations Representative be the Media Relations Supervisor, that person performs the media contact duties until the Public Affairs Emergency Communication Plan calls or him/her to assume other responsibilities at the designated News Center or the Joint Public Information Center.

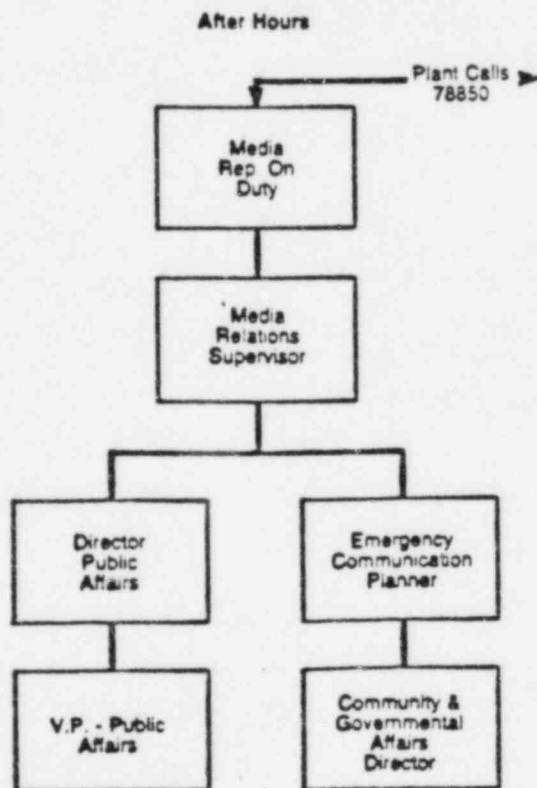
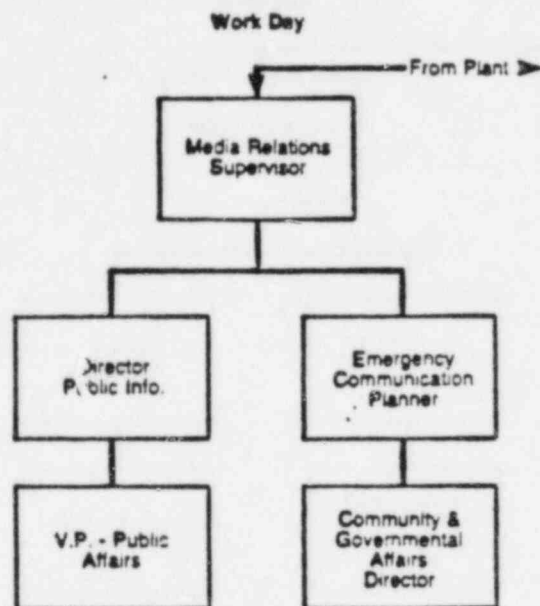
1. The Senior Media Relations Representative or designated alternate replaces the Media Supervisor when this occurs.

6.0 Follow-up Actions

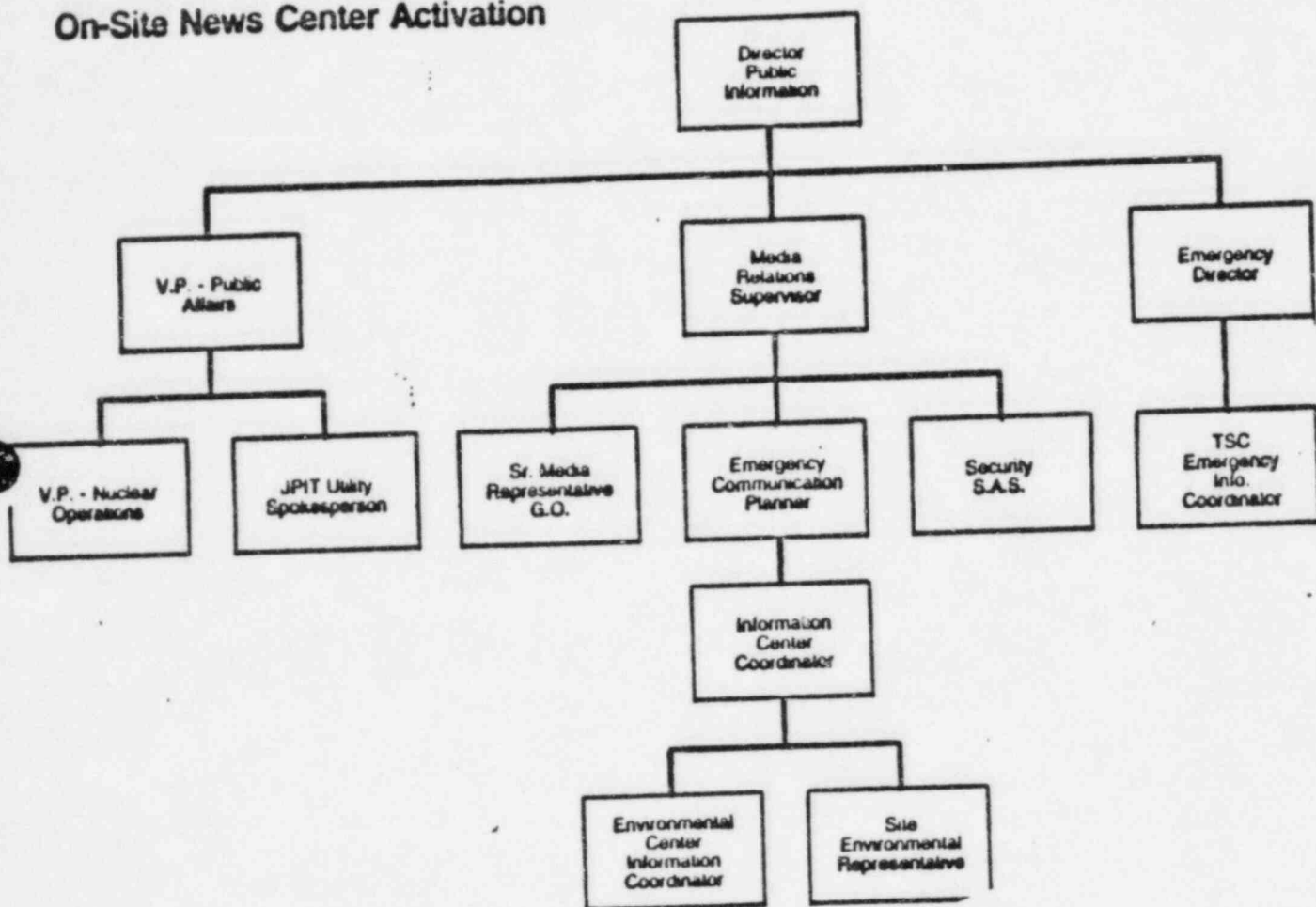
The Media Relations Representatives at the General Offices and designated News Center personnel continue to function as the event is reduced from Alert to Unusual Event to close-out.

- 6.1 As news value subsides, the designated News Center is closed by a decision from the Director-Public Information.
- 6.2 The close-out statement is issued to all media contacts as soon as possible.
- 6.3 Monitoring and response efforts by the Media Relations Representatives continue around the clock (See EP-606).

Unusual Event-Alert



On-Site News Center Activation



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: SITE AREA EMERGENCY/GENERAL EMERGENCY

RECORD OF APPROVAL AND CHANGES

Prepared by John Rogers 06/29/83
Date
Approved by *M. Schubert for T.P.* 9-6-83
Responsible Section Head Date
Recommended by *E.H. Newton* 9-6-83
Supervisor - Operational Date
Assurance/Delegate

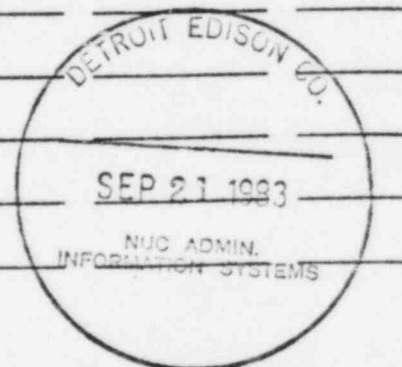
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by *R.L. +* 9/6/83
OSRO Chairman/Alternate Date
Approved by *R.L. +* 9/6/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: SITE AREA EMERGENCY/GENERAL EMERGENCY

Prepared by	John Rogers	06/29/83 Date
Recommended by	Walter A. Zambelli / DSM Communication System Division	7-29-83 Date
Recommended by	James L Jones Community & Government Affairs	7-29-83 Date
Recommended by	Larry E. Schurman Licensing	8/2/83 Date
Recommended by	Hoshe M. Newman Medical Staff	7/29/83 Date
Recommended by	James J. Piana Nuclear Administration	7/29/83 Date
Recommended by	C. R. Overbeck / E. Preston Nuclear Production	7/29/83 Date
Recommended by	Edward J. [unclear] Nuclear Training	7/29/83 Date
Recommended by	Bud Hefner Public Information	7-29-83 Date
Recommended by	[unclear] / [unclear] Security	[unclear] Date
Recommended by	[unclear] / [unclear] Wayne-Monroe Division	7-29-83 Date
Approved by	[unclear] / [unclear] RERP Committee Chairperson	8/1/83 Date
Revision No.	RERP Committee Chairperson Approved	Date

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4.0 General Information	1
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1.0 Purpose

To prescribe actions taken by the Public Affairs Staff during a Site Area Emergency and/or General Emergency at the Fermi 2 Nuclear Power Plant.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section G (Public Education and Information)
- 2.2 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG-0654 FEMA-REP-1 REV.1), Section II-G (Public Education and Information)
- *2.3 Public Affairs Emergency Communication Plan Overview
- 2.4 The State of Michigan Emergency Preparedness Plan
- 2.5 Appendix 1, Nuclear Facility Procedures, Monroe County Emergency Operations Plan
- 2.6 Appendix 1, Nuclear Facility Procedures, Wayne County Emergency Operations Plan
- *2.7 Emergency Operations Facility: Support Functions (EP-303-2)
- *2.8 Public Affairs: Joint Public Information Center Activation (EP-604)
- *2.9 Public Affairs: Emergency Communication Plan Overview (EPA-10)

3.0 Entry Conditions

Whenever the Emergency Director declares a Site Area Emergency or a General Emergency, or whenever the Governor of the State of Michigan declares a "State of Disaster" due to a nuclear event at Fermi 2, this portion of the Detroit Edison Public Information Emergency Communication Plan (See Reference 2.9) is activated.

4.0 General Information

The Public Affairs Staff has the responsibility of cooperating with state and county officials in notifying the public through the media of any Site Area Emergency or General Emergency and keeping them informed of emergency events as they develop through a Joint Public Information Center (JPIC) as required by Michigan Public Law 390 (See EP-604).

- 4.1 This includes informing the public of event escalation from Site Area Emergency to General Emergency, periodic reports on the emergency and recommendations for the protection of the health and safety of the public.
- 4.2 Public Affairs Emergency Communication Plan Overview (See EPA-10) actions and provisions of general Public Affairs policy continue.
- 4.3 Staffing and administration of the JPIC are the responsibility of the Director-Public Information (See EP-604).
- 4.4 Security of the JPIC is the responsibility of the Nuclear Security Department (See EP-604).

5.0 Immediate Actions

The following actions take place when the Emergency Director declares a Site Area Emergency or a General Emergency, or when the Governor of the State of Michigan declares a "State of Disaster."

- 5.1 The Director-Public Information requests the Emergency Communication Planner to activate the JPIC Staff (See EP-604).
 - 5.1.1 The Director - Public Information, moves to the JPIC to become the JPIC Administrator.
 - 5.1.2 The Media Relations Supervisor closes the designated News Center if activated and notifies Nuclear Security that it is closed (See EP-610).
 - 5.1.3. The media are escorted off site by Nuclear Security and directed to the JPIC (See EP-610).
- 5.2 The Media Relations Supervisor leaves the designated News Center (if activated) and goes to the Emergency Operations Facility (EOF) to serve as the interim Public Information Coordinator. If a News Center has not been activated, he/she goes directly to the JPIC.
 - 5.2.1 The interim Public Information Coordinator reports to the Emergency Officer for plant status update information until relieved by the designated Public Information Coordinator.
 - 1. The designated Public Information Coordinator or alternate, is notified by the Media Relations Supervisor to report to the EOF.
 - 2. The Senior Media Relations Representative or designee is notified by the Media Relations Supervisor to set up the General Office Media Relations function (See EP-606).

3. The Senior Journalist of Employee Communication or designated alternate is notified by the Senior Media Relations Representative to establish the Employee Emergency Communication Center (EECC) in the General Offices (See EP-605).
 - a. The EECC receives information from the JPIC and activates the equipment for processing and transmitting the information to Community and Governmental Affairs, employees, the Media Relations group at the General Offices and other internal audiences.

5.2.2 The JPIC receives plant status information from the Public Information Coordinator at the EOF (See EP-303-2).

1. This information is distributed to the Joint Public Information Team (JPIT) (See EP-604). The JPIT is responsible for issuing public statements about the event once the JPIC is activated.
2. The JPIC Administrator directs the functions of JPIC Media Relations, Administrative Services, Media Services, Security, Technical Liaison, Industry Liaison and the JPIC Emergency Communication Officer.
3. The Media Relations Supervisor reports to the JPIC to assist the JPIC Administrator and becomes the JPIC Media Relations Supervisor as soon as relieved of his duties as interim Public Information Coordinator at the EOF.
4. The JPIC Administrator maintains contact with the Media Relations Team and the Employee Emergency Communication Center at the General Office through the JPIC Emergency Communication Officer.

6.1 The JPIC, the Media Relations Supervisor at the General Office and the EECC remain in operation until the event is reduced from the Site Area Emergency level until the JPIC is closed by the state JPIT representative.

6.2 Recovery operations are handled under normal Media Relations procedures.

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: JOINT PUBLIC INFORMATION CENTER ACTIVATION

RECORD OF APPROVAL AND CHANGES

Prepared by	<u>John Rogers</u>	<u>6/29/83</u>	Date
Approved by	<u><i>[Signature]</i></u> Responsible Section Head	<u>9-6-83</u>	Date
Recommended by	<u>E H Newton</u> Supervisor - Operational Assurance/Delegate	<u>9-6-83</u>	Date

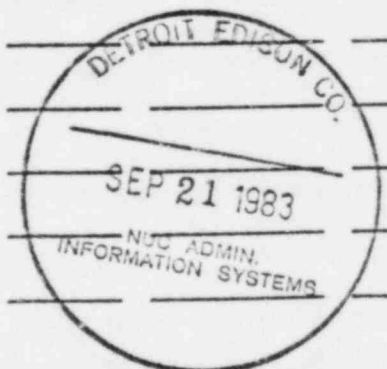
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by	<u><i>R L Lent</i></u> OSRO Chairman/Alternate	<u>9/6/83</u>	Date
Approved by	<u><i>R L Lent</i></u> Superintendent-Nuclear Production/Delegate	<u>9/6/83</u>	Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: JOINT PUBLIC INFORMATION CENTER ACTIVATION

Prepared by	<u>John Rogers</u>	<u>6/29/83</u>
		Date
Recommended by	<u>Walter A. Zambelli / DSM</u>	<u>7-27-83</u>
	Communication System Division	Date
Recommended by	<u>James L Jones</u>	<u>7-29-83</u>
	Community & Government Affairs	Date
Recommended by	<u>Lucy E. Scherman</u>	<u>8-2-83</u>
	Licensing	Date
Recommended by	<u>Walter A. Zambelli</u>	<u>7/29/83</u>
	Medical Staff	Date
Recommended by	<u>James L Jones</u>	<u>7/29/83</u>
	Nuclear Administration	Date
Recommended by	<u>G.R. Overbeck / E. Preston</u>	<u>7/29/83</u>
	Nuclear Production	Date
Recommended by	<u>Edmund J. Tamm</u>	<u>7/29/83</u>
	Nuclear Training	Date
Recommended by	<u>Bert Keffner</u>	<u>7-29-83</u>
	Public Information	Date
Recommended by	<u>Donald C. G. for S. Smith</u>	<u>7-29-83</u>
	Security	Date
Recommended by	<u>M. J. Vermeulen for R. Dwyer</u>	<u>7-29-83</u>
	Wayne-Monroe Division	Date
Approved by	<u>A. R. Anderson for E. Nelson</u>	<u>8/1/83</u>
	RERP Committee Chairperson	Date
Revision No.	RERP Committee Chairperson Approved	Date

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Enclosures

JPIC Activation	Enclosure 1
Proposed Furniture Layout for JPIC	Enclosure 2
JPIC Layout	Enclosure 3
JPIC Equipment	Enclosure 4
JPIC Graphics	Enclosure 5

1.0 Purpose

To prescribe actions to be performed by the Public Affairs Department in activating the Monroe County Community College facilities which will be used as the Joint Public Information Center (JPIC) Off-Site News Center.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section G (Public Education and Information)
- 2.2 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG-0654 FEMA-REP-1 REV.1), Section II-G (Public Education and Information)
- 2.3 The State of Michigan Emergency Preparedness Plan
- 2.4 Appendix 1, Nuclear Facility Procedures, Monroe County Emergency Operations Plan
- 2.5 Appendix 1, Nuclear Facility Procedures, Wayne County Emergency Operations Plan
- 2.6 Security Implementing Procedure EP-306-301
- *2.7 Public Affairs: Unusual Event/Alert (EP-602)
- *2.8 Public Affairs: Site Area Emergency/General Emergency (EP-603)
- *2.9 Public Affairs: Employee Emergency Communication Center (EP-605)
- *2.10 Joint Public Information Center: Security Force Responsibilities (EP-609)
- 2.11 Public Affairs: Emergency Communication Plan Overview (EPA-10)
- *2.12 Public Affairs Emergency Response Organization Staffing List.

3.0 Entry Condition

- 3.1 The JPIC is activated at the direction of the Governor of the State of Michigan, or no later than when the Emergency Officer declares a Site Area Emergency.
 - 3.1.1 The JPIC remains active until the Site Area Emergency is reduced to a lower level or the event is closed at the direction of the Governor of Michigan.

*Denotes "Use" Reference

- 3.2 The JPIC remains active during the declaration of the General Emergency.
- 3.3 The JPIC may be activated at any level of nuclear emergency at the Fermi 2 plant if and when the Governor declares a "State of Disaster" for the area.

4.0 General Information

- 4.1 The Director-Public Information, or alternate, is the JPIC Administrator. The JPIC Administrator is responsible for activating the JPIC, including the JPIT (Joint Public Information Team - State, county and utility spokespersons team members) and for operation of the JPIC on a 24-hour-a-day basis for as long as it is required.

5.0 Immediate Actions

- 5.1 Upon direction of the State or the Emergency Officer that the JPIC is to be activated, the G.O. Media Relations Representative notifies the Director, Public Information, the Media Relations Supervisor and the Emergency Operations Facility Public Information Coordinator, or their designated alternates (See Enclosure 2).
- 5.2 The Director-Public Information, notifies the Vice-President-Public Affairs, the Monroe County Community College and the Emergency Communications Planner and reports to the JPIC.
 - 5.2.1 The Vice President-Public Affairs notifies the JPIT Utility Spokesperson that the JPIC is to be activated.
 - 1. The JPIT Utility Spokesperson notifies the Senior Technical Liaison and these persons report to the JPIC.
 - 5.2.2 The Director-Public Information notifies the Monroe County Community College Representative that activation of the JPIC is required (the College President or, in his absence, the Dean of Student Personnel Services, the Dean of Instruction, the Dean of Business Affairs or the Treasurer or, in their absence, the first available administrator).
 - 1. During normal business hours, access to the JPIC by Detroit Edison personnel will be provided by the person contacted above.
 - 2. During non-business hours, access to the JPIC will be provided by the boiler operator who will be

contacted directly by Nuclear Security. The boiler operator is responsible for notifying one of the persons listed in section above (See EP-609).

5.2.3 The Media Relations Supervisor notifies the Senior Media Relations Representative in the General Offices, the JPIC Media Relations Team Leader and the Nuclear Security Supervisor or designated alternates.

1. The Senior Media Relations Representative notifies the members of the General Offices Media Relations Team and the Senior Journalist to begin their assigned Emergency Communication activities (See EP-602, EP-603 and EP-605).
2. The JPIC Media Relations Team Leader notifies the Team members to report to the JPIC.
3. The Nuclear Security Supervisor coordinates with Public Affairs in closing the On-Site News Center, makes arrangements to open the JPIC and takes steps to provide JPIC security (See EP-609).

5.2.4 The Emergency Communication Planner notifies the Electrical System JPIC Communication Equipment Leader, the JPIC Administrative Services Supervisor and the JPIC Security Supervisor, or designated alternates.

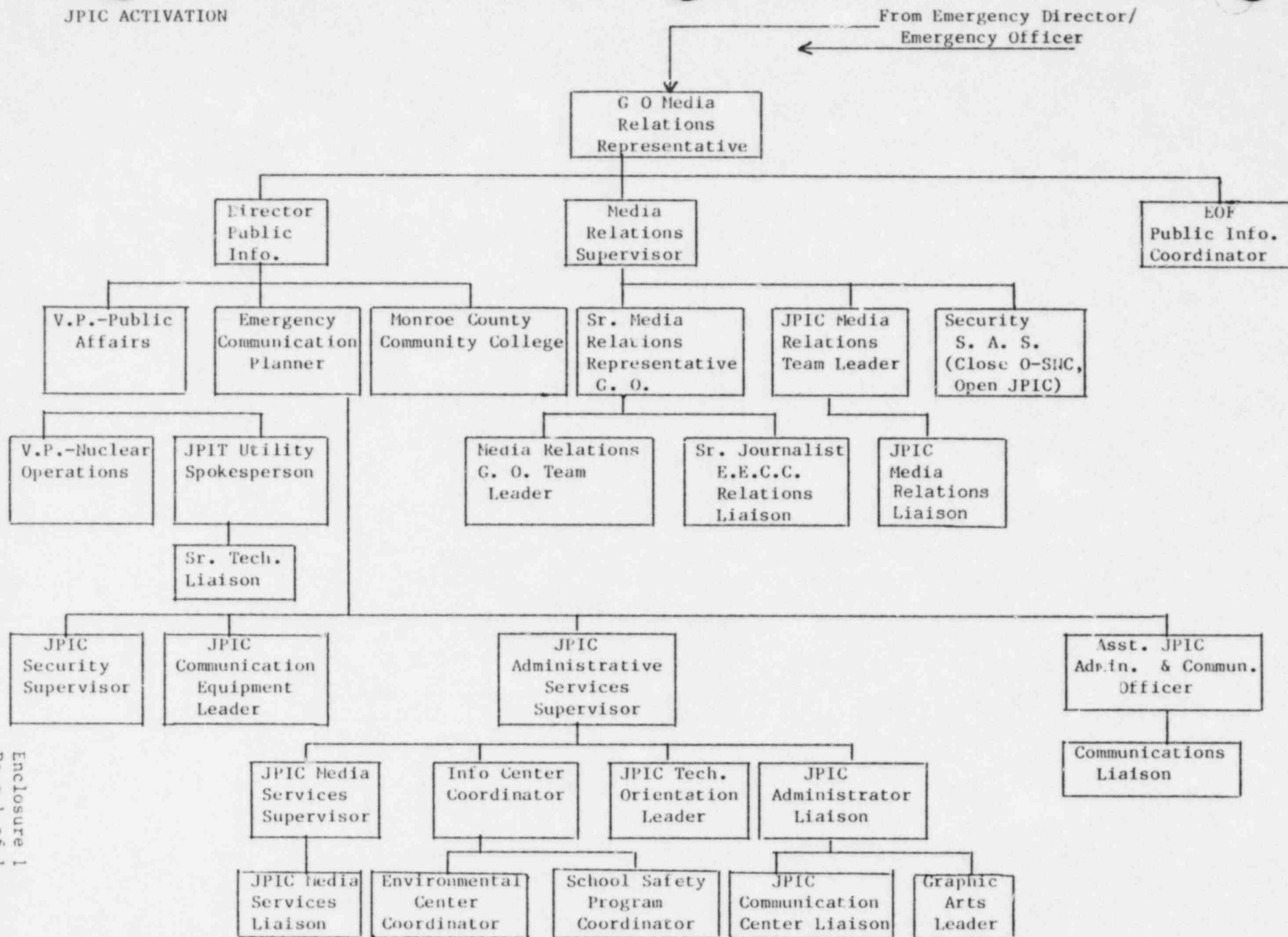
1. The Electrical System JPIC Communication Equipment Leader calls the members of the section and all report to JPIC to set up the communication equipment and check it out.
2. The JPIC Administrative Services Supervisor notifies the JPIC Media Services Supervisor, the JPIC Technical Liaison Leader, the JPIC Administrator Liaison Leader and the Information Center Coordinator. All proceed to the JPIC.
3. The JPIC Media Services Supervisor contacts the Media Services Liaison. The JPIC Administrator Liaison contacts the JPIC Communications Liaison and the Graphic Arts Leader. Those individuals contacted proceed to the JPIC.
4. The Information Center Coordinator notifies the Monroe Area Public Involvement Representative and the School Safety Program Coordinators. All proceed to the JPIC to set up the equipment and displays.

- 5.3 Each JPIC Supervisor and/or Leader sets up shift schedules with those persons assigned to their areas as per the Public Affairs Emergency Response Organization staffing list (See Reference 2.12).
- 5.3.1 As each staff member arrives at the JPIC, he/she assists the Information Center Coordinator in setting up his/her individual areas of operation (See Enclosures 2 and 3).
- 5.3.2 Each Supervisor and/or Leader checks operation of assigned equipment -- telephones, typewriters, Panafax, copy machines, sound systems, projectors, beepers and any special equipment assigned (See Enclosures 4 and 5).
1. Non-functioning equipment is reported to the JPIC Administrative Services Supervisor who will arrange for needed repair or replacement.
- 5.3.3 Each Supervisor and/or Leader sees that the supplies needed are on hand.
1. Supply shortages are reported to the JPIC Administrative Services Supervisor who will make arrangements to provide what is needed.
- 5.3.4 Each Supervisor and/or Leader reports to the JPIC Emergency Communication Officer when his/her area is operational.
- 5.3.5 The Emergency Communication Officer informs the JPIC Administrator when the JPIC is operational.
- 5.3.6 The Emergency Communication Officer reports that the JPIC Center is operational to: the Emergency Officer, the EOF Public Information Coordinator, the JPIC Security Supervisor, and the Emergency Employee Communication Center at the General Offices.

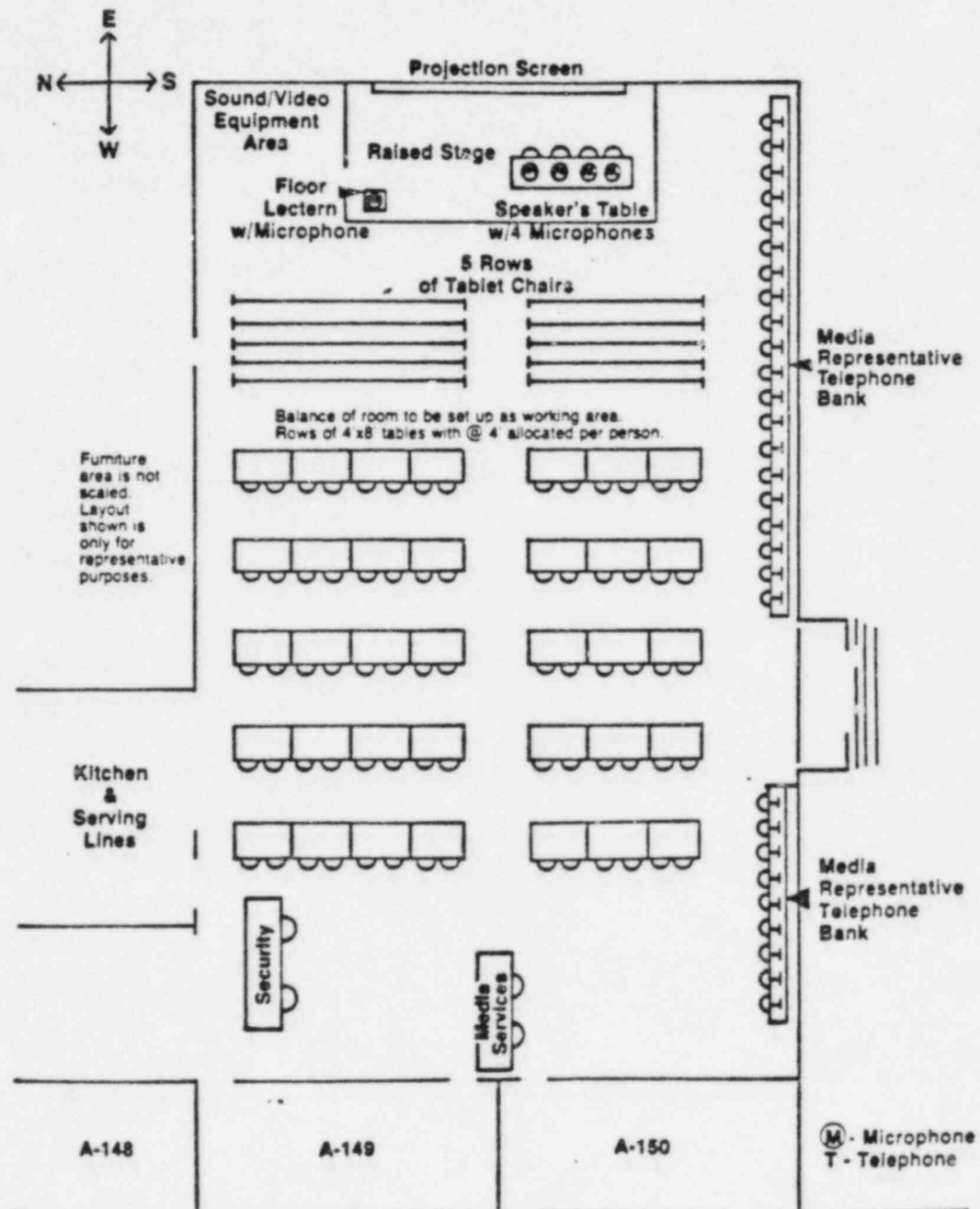
6.0 Follow-up Actions

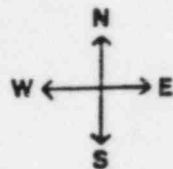
- 6.1 The JPIC continues operation until the event has been reduced to the Alert-level or through lower levels as decreed by the State JPIT representative.
- 6.1.1 JPIC operations end when authorized by the State representative.
- 6.1.2 The JPIC Administrator sees that the Monroe County Community College facilities are restored to the condition in which they were received.

JPIC ACTIVATION



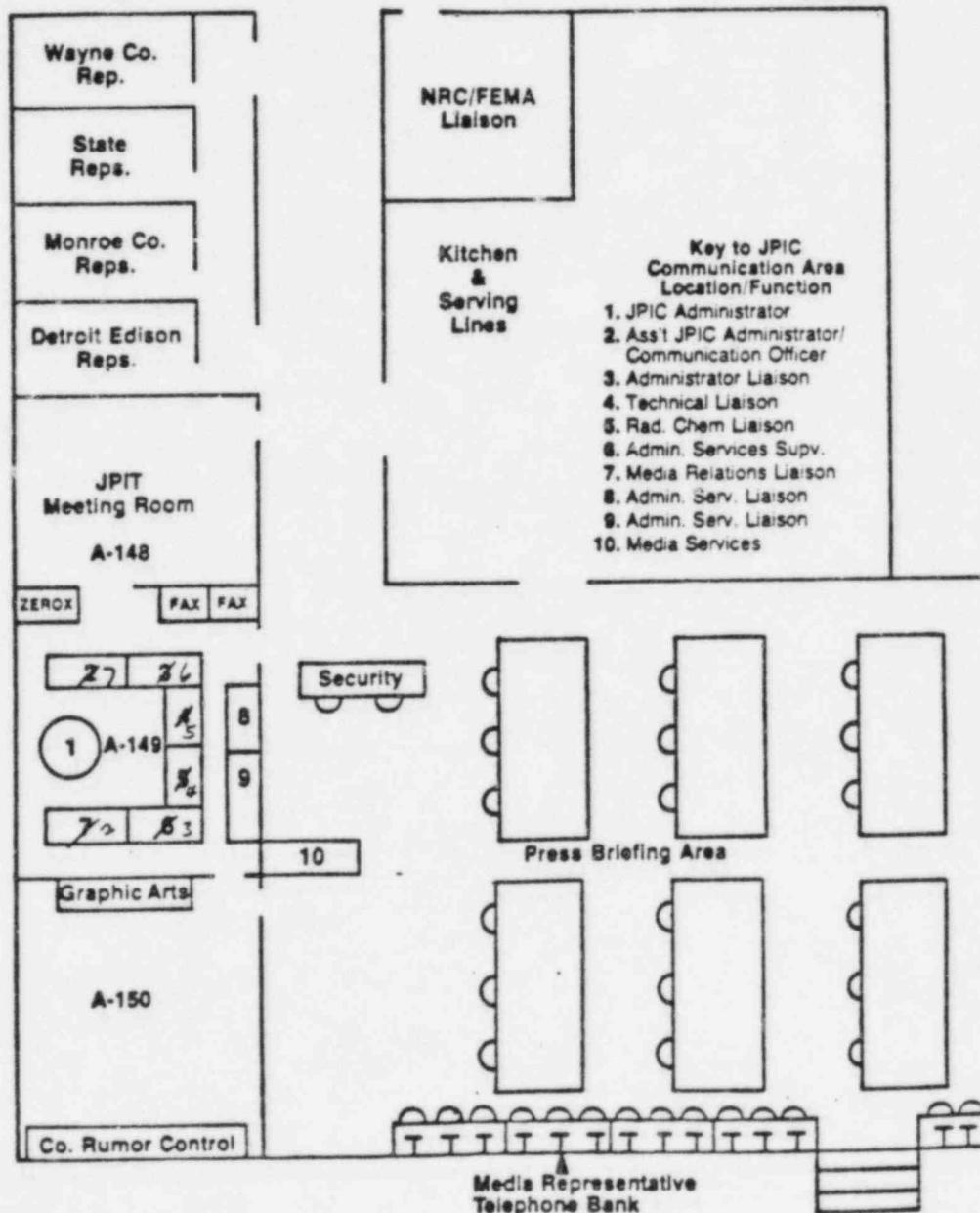
Proposed Furniture Layout for JPIC Room A-151 (Cafeteria) February 2, 1982





JPIC Layout Monroe Co. Community College

(not scale)



JPIC EQUIPMENT

MONROE COMMUNITY COLLEGE

3 Typewriters, Adler Serial Nos. 46502984, 46514718, 46512449
1 Typewriter, Remington Serial No. 304504
3 Dictaphones, Model No. P-98, Serial Nos. 821597, 821607, 821625
3 Headsets, Model No. EAH T-40
1 Headset, HP-100B

2 Recorders, Cassette, Superscope Serial Nos. 8YU060321, 8YU060375
1 Califone Listening Station with volume control
1 Tool Kit
1 Soldering Gun
1 Vacuum Cleaner

2 Coffee Pots
1 Box of Stationery Supplies
4 Waste Baskets
All Charts
Miscellaneous Easels
1 Hand Truck and Dolly

MONROE CUSTOMER OFFICE

2 Soundette Mixer Amps
8 Condenser Mikes
2 Argos Speakers

ITEMS TRANSPORTED TO JPIC FROM G.O.

6 Plug Strips
1 Distribution Box for Press
1 19" TV Monitor
1 Sony V-2600 Video Player/Recorder
1 Reel-to-Reel Tape Recorder

1 Bretford Stand
50 each: 30-Minute Cassette Tapes
50 each: 60-Minute Cassette Tapes
12 each: 2400' Reel-to-Reel Tape

JPIC GRAPHICS

QTY

1	Mounted Color Photograph of Fermi 2 Cutaway 4'x6'
1	Mounted B&W Photograph of "How Fermi 2 Works", 4'x6'
1	Mounted Color Photograph of Fermi 2 Artists Rendering, 4'x6'
1	Mounted Color Photograph of Reactor Vessel Model, 4'x6'
1	Mounted Color Photograph of Fermi 2 Control Room, 4'x6'
1	Mounted Color Photograph of Fission Process, 4'x6'
1	Mounted Color Illustration of Boiler Water Reactor, 4'x6'
1	Mounted Color Marine Map of Lake Erie Shore, 3'x4'
1	Mounted B&W Photo of Pages 6, 7 & 8 of Pamphlet, 3'x4'
2	Cardstock Clocks with Movable Hands, 3'x4', "Next Briefing At"
1	Cardstock Clock with Movable Hands, 3'x3'
1	Sign - "State of Michigan JPIT Representative", 1'x2'
1	Sign - "Wayne County JPIT Representative", 1'x2'
1	Sign - "Monroe County JPIT Representative", 1'x2'
1	Sign - "Detroit Edison JPIT Representative", 1'x2'
1	Sign - "State of Michigan Joint Public Information Center", 3'x12' (in 3'x4' panels)
1	Sign - "Rumor Control", 1'x2'
1	Sign - "JPIC Administrator", 1'x2'
1	Sign - "JPIC Media Relations", 1'x2'
1	Sign - "JPIC Media Services", 1'x2'
1	Sign - "JPIC Administrative Services", 1'x2'
1	Sign - "Technical Orientation", 1'x2'
1	Sign - "Graphic Arts", 1'x2'
2	Signs - "Joint Public Information Center"/Arrow, 30"x40"
1	Sign - "Joint Public Information Center", 30"x40"
2	Plywood Signs/Tripods "Reserved for JPIC Parking Only", 30"x30"
1	Plywood Sign/Tripod "Reserved for Faculty, Staff and Students", 30"x30"
1	Diagram of Fermi 2 Plant Systems, 2'x10' in 2'x5' sections
1	Sign - "Plant Status - General Emergency", 18"x24"
1	Sign - "Plant Status - General Emergency", 18"x24"
1	Simplified Diagram of Fermi 2 Reactor/Threes Overlays Showing Additional Support System Details, 3'x4'
1	Table Tent Sign "Al Sandner State of Michigan", 8"x18"
1	Table Tent Sign "Harry Tauber - Detroit Edison", 8"x18"
1	Table Tent Sign "Warren LaBeau - Monroe County", 8"x18"
1	Table Tent Sign "Leito Durley - Wayne County", 8"x18"
1	Mounted EP2 Area Map "Evacuation Routes", 4'x4'
1	Mounted EP2 Area Map "Reception Centers & Evacuation Routes", ?x?

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: EMPLOYE EMERGENCY COMMUNICATION CENTER (EECC)

RECORD OF APPROVAL AND CHANGES

Prepared by	<u>John Rogers</u>	<u>06/29/83</u>
		Date
Approved by	<u><i>[Signature]</i></u>	<u>9-6-83</u>
	Responsible Section Head	Date
Recommended by	<u><i>E H Newton</i></u>	<u>9-6-83</u>
	Supervisor - Operational Assurance/Delegate	Date

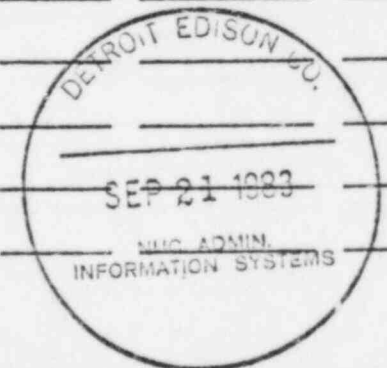
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by	<u><i>R L Lent</i></u>	<u>9/6/83</u>
	OSRO Chairman/Alternate	Date
Approved by	<u><i>R L Lent</i></u>	<u>9/6/83</u>
	Superintendent-Nuclear Production/Delegate	Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: EMPLOYE EMERGENCY COMMUNICATION CENTER (EECC)

Prepared by	<u>John Rogers</u>	<u>6/29/83</u>
		Date
Recommended by	<u>Walter A. Zambelli / DSM</u>	<u>7-29-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	<u>7-29-83</u>
	Community & Government Affairs	Date
Recommended by	<u>Larry E. Schuman</u>	<u>8/2/83</u>
	Licensing	Date
Recommended by	<u>Robert A. Quinn</u>	<u>7/29/83</u>
	Medical Staff	Date
Recommended by	<u>James J. Branic</u>	<u>7/29/83</u>
	Nuclear Administration	Date
Recommended by	<u>E.R. Overbeck / E. Prosten</u>	<u>7/29/83</u>
	Nuclear Production	Date
Recommended by	<u>Ernest A. Sauer</u>	<u>7/29/83</u>
	Nuclear Training	Date
Recommended by	<u>Bert Hefner</u>	<u>7-29-83</u>
	Public Information	Date
Recommended by	<u>Michael J. Smith for Stuart J. Hill</u>	<u>7-29-83</u>
	Security	Date
Recommended by	<u>W. H. Provencher by J. Blaylock</u>	<u>7-29-83</u>
	Wayne-Monroe Division	Date
Approved by	<u>A. Sordano by E. Madson</u>	<u>8/1/83</u>
	RERP Committee Chairperson	Date
Revision No.	RERP Committee Chairperson Approved	Date

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5.0 Immediate Actions	2
6.0 Follow-up Actions	3

1.0 Purpose

The purpose of this procedure is to prescribe action performed by the Public Affairs Employee Communication staff in the event of a Site Area Emergency and/or General Emergency.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section G (Public Education and Information)
- 2.2 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG-0654 FEMA-REP-1 REV.1), Section II-G (Public Education and Information)
- 2.3 The State of Michigan Emergency Preparedness Plan
- 2.4 Appendix 1, Nuclear Facility Procedures, Monroe County Emergency Operations Plan
- 2.5 Appendix 1, Nuclear Facility procedures, Wayne County Emergency Operations Plan
- 2.6 Public Affairs: Emergency Communication Plan Overview (EPA-10)

3.0 Entry Conditions

- 3.1 The Employee Communication Staff moves to activate an Employee Emergency Communication Center (EECC) in the General Offices when:
 - 3.1.1 The Emergency Officer declares a Site Area Emergency level event or a General Emergency level event, or
 - 3.1.2. The Governor of the state declares a "State of Disaster" for the area due to a nuclear event at the Fermi 2 Plant, or
 - 3.1.3 When notified to do so by the G.O. Senior Media Relations Representative.

4.0 General Information

- 4.1 The EECC is located in the Edison "Today" Room on the 10th Floor of the G.O.
- 4.2 The EECC is responsibility of the Senior Journalist or alternate who becomes the EECC Leader.

4.3 The EECC provides information about the event to the internal audiences as provided through the JPIC Administrator.

4.3.1 The internal audience is defined as Vice President-Public Affairs, the Community and Governmental Affairs Department, the Media Relations Team on duty at the General Offices and employees at all company locations.

4.3.2 Members of the Management Council are provided interpretative two-way information on the event as necessary and available through the EECC.

4.4 The EECC is staffed for 24-hour-a-day operation.

5.0 Immediate Actions

5.1 The Senior Journalist or alternate contacts the members of the Employee Communication Staff and those persons assigned to the Staff for emergency duty.

5.1.1 Work schedules are established and those on shift are contacted to report to the EECC.

5.1.2 At the EECC, equipment is checked for correct operation and all transmission systems activated.

1. Communications are opened between the EECC and the Joint Public Information Center, the Media Relations Group, Community and Governmental Affairs.

5.2 All messages other than those originating from the JPIT, are prepared for approval by the Vice President-Public Affairs or designated alternate and released from the EECC for internal audiences.

1. Copies of all messages released from the EECC are sent to the JPIC and the EOF Public Information Coordinator for their reference and information.
2. The final version of each released message, together with all back-up material, is placed in a numbered file, timed and dated for future reference.

6.0 Follow-up Actions

- 6.1 The EECC remains in operation until the event is reduced below the Site Area Emergency level and/or the state's "State of Disaster" is ended or until directed by the Director of Public Information or the Vice President-Public Affairs.
- 6.2 At the end of the emergency all personnel return to normal duties.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: MEDIA RELATIONS

RECORD OF APPROVAL AND CHANGES

Prepared by John Rogers 06/29/83
Date
Approved by *M. Schubert for T.R.* 9-6-83
Responsible Section Head Date
Recommended by *E. H. Newton* 9-6-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by *R. L. Lent* 9/6/83
OSRO Chairman/Alternate Date
Approved by *R. L. Lent* 9/6/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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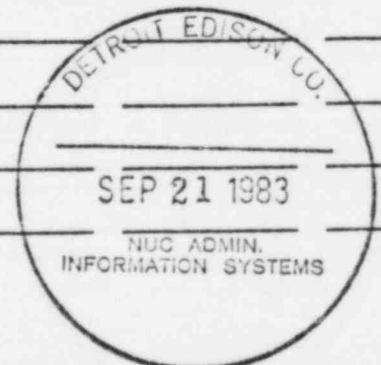


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1.0 Purpose

The purpose of this procedure is to prescribe actions performed by the Public Affairs Media Relations Staff assigned to the General Offices during a Site Area Emergency and/or a General Emergency.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section G (Public Education and Information)
- 2.2 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG-0654 FEMA-REP-1 REV.1), Section II-G (Public Education and Information)
- 2.3 The State of Michigan Emergency Preparedness Plan
- 2.4 Appendix 1, Nuclear Facility Procedures, Monroe County Emergency Operations Plan
- 2.5 Appendix 1, Nuclear Facility Procedures, Wayne County Emergency Operations Plan
- 2.6 Public Affairs: Emergency Communication Plan Overview (EPA-10)

3.0 Entry Conditions

- 3.1 The Media Relations Staff at the General Offices assumes the emergency mode when:
 - 3.1.1 The Emergency Officer declares a Site Area Emergency level event or a General Emergency level event, or
 - 3.1.2 The Governor of the state declares a "State of Disaster" for the area due to a nuclear event at the Fermi 2 Plant, or
 - 3.1.3 When notified to do so by the Media Relations Supervisor.

4.0 General Information

- 4.1 The Media Relations Staff assigned to the emergency mode at the General Offices become the Media Relations Team (MRT).
- 4.2 The Senior Media Relations Representative, or other person designated, becomes the MRT Leader and is responsible for MRT performance.

4.3 The MRT provides information about the event to external audiences. This information is obtained through communication links established to the JPIC by the Emergency Employee Communication Center (EECC).

4.3.1 The information is given to external audiences, defined as local, area, state and national media.

1. All information released on the plant status and the event is the same as that released by the Joint Public Information Team.
2. Releases are placed on the Public Relations News Wire and the actuality phone line.

4.3.2 The MRT may also provide information to special interest media and industry-related publications.

1. Such information may include, but is not limited to, background facts on the Company, the Fermi 2 Plant and/or other information on continued service, or the effects of the event on the electrical system and the Company.

4.3.3 The MRT also serves as the Company media contact for all non-event related information as usual.

4.3.4 The MRT is staffed for 24-hour-a-day operation or until emergency activities are terminated by the Director, Public Information or Vice President-Public Affairs.

5.0 Immediate Actions

5.1 The MRT Leader contacts the other Team members to inform them that this portion of Media Relations is in the emergency mode.

5.1.1 The MRT Leader sets work schedules for the Team members.

1. Team members on duty are brought up-to-date on the event; others go home until their scheduled shift.

5.1.2 The MRT Leader establishes communication with the EECC Administrator.

5.1.3 The MRT Leader informs the JPIC Communication Officer when the function is operational.

6.0 Follow-up Actions

- 6.1 The MRT remains in operation until the event is reduced below the Site Area Emergency level and/or the state's "State of Disaster" is ended. A decision by the Director-Public Information or Vice President-Public Affairs is required to end or modify the 24-hour staffing.
- 6.2 At the end of the emergency, all personnel return to normal duties.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: MEDIA POOL OPERATION

RECORD OF APPROVAL AND CHANGES

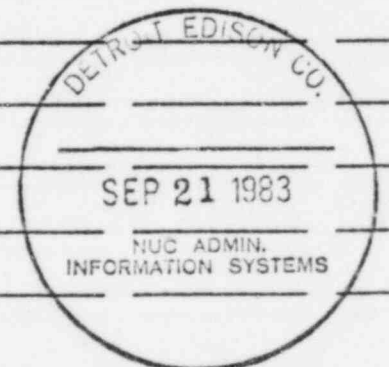
Prepared by John Rogers 06/29/83
Date
Approved by G. A. Schubert for T.M. 9-6-83
Responsible Section Head Date
Recommended by E. H. Newton 9-6-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by R. J. Lera + 9/6/83
OSRO Chairman/Alternate Date
Approved by R. J. Lera + 9/6/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: MEDIA POOL OPERATION

Prepared by	<u>John Rogers</u>	<u>6/29/83</u> Date
Recommended by	<u>Walter A. Zambelli / DSM</u> Communication System Division	<u>7-29-83</u> Date
Recommended by	<u>James L. Jones</u> Community & Government Affairs	<u>7-29-83</u> Date
Recommended by	<u>G.R. Civerbeck / E. Preston</u> Nuclear Production	<u>7/29/83</u> Date
Recommended by	<u>Harold A. Newman</u> Medical Staff	<u>7/29/83</u> Date
Recommended by	<u>James S. Blaine</u> Nuclear Administration	<u>7/29/83</u> Date
Recommended by	<u>Larry E. Schuman</u> Licensing	<u>8/2/83</u> Date
Recommended by	<u>Edward J. Tandy</u> Nuclear Training	<u>7/29/83</u> Date
Recommended by	<u>Burt Haffner</u> Public Information	<u>7-29-83</u> Date
Recommended by	<u>Michael G. Hall / Stuart H. Hall</u> Security	<u>7-29-83</u> Date
Recommended by	<u>W. J. Vermeulen by / Beazley</u> Wayne-Monroe Division	<u>7-29-83</u> Date
Approved by	<u>T. Landage by / E. Madala</u> RERP Committee Chairperson	<u>8/1/83</u> Date
Revision No.	RERP Committee Chairperson Approved	Date

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1.0 Purpose

This procedure prescribes the function and operation of the Media Pool during a Site Area Emergency level event, a General Emergency level event or a State-declared "State of Disaster" as the result of a radiological emergency at the Fermi 2 Plant.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section G (Public Education and Information)
- 2.2 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG-0654 FEMA-REP-1 REV.1), Section II-G (Public Education and Information)
- 2.3 The State of Michigan Emergency Preparedness Plan
- 2.4 Appendix 1, Nuclear Facility Procedures, Monroe County Emergency Operations Plan
- 2.5 Appendix 1, Nuclear Facility Procedures, Wayne County Emergency Operations Plan
- *2.6 Joint Public Information Center: Security Force Responsibilities (EP-609)
- 2.7 Public Affairs: Emergency Communication Plan Overview (EPA-10)

3.0 Entry Conditions

- 3.1 A pool of media representatives may be formed when the On-Site News Center has been closed, except for pre-arranged visits by the Media Pool members. The media are located at the Joint Public Information Center (JPIC).
 - 3.1.1 The On-Site News Center is closed to the press when the Emergency Officer declares a Site Area Emergency or a General Emergency, or when the JPIC is activated.
 - 3.1.2 The Pool may be formed after activation of the JPIC.

4.0 General Information

- 4.1 Media Pool visits to the site are the responsibility of the JPIC Administrator.

*Denotes "Use" Reference

- 4.1.1 The Pool consists of selected media representatives from the electronic and print media.
- 4.1.2 Visits to the On-Site News Center by the Media Pool are coordinated by the JPIC Administrator through the EOF Administrator and approved by the Emergency Officer.
- 4.1.3 Pool members are told of and must agree to observe all appropriate security and emergency requirements.

5.0 Immediate Actions

- 5.1 At the JPIC, the JPIC Administrator and the JPIC Media Relations Supervisor select a Media Pool Leader who helps form the Media Pool.

- 5.1.1 Pool members may be periodically appointed on a rotating basis from electronic and print news media of the local (Monroe County) area as well as the wire services, Detroit and major U.S. publications and networks, overseas news services and special interest media.
 - 1. The Pool consists of no more than 20 persons at a time.
 - a. The Pool visits the On-Site News Center in a group, observe/photograph/videotape the scene from the On-Site News Center and meet with senior Company spokespersons on-site.
 - b. Pool visits to the On-Site News Center are scheduled periodically by the JPIC Administrator and the Emergency Officer as the news situation demands and plant status allows.
 - c. Scheduled visits are announced by the JPIC Media Relations Supervisor at least one hour before departure time.
- 5.1.2 All Pool members leave the JPIC for the On-Site News Center on the vehicle or vehicles designated by the JPIC Administrator for that purpose and return to the JPIC as a group the same way.
 - 1. Pool members on visits to the On-Site News Center are accompanied by at least two JPIC Media Representatives.
 - 2. A complete list of Pool members going to the On-Site News Center is prepared before the group

leaves the JPIC and is given to Nuclear Security at least one hour in advance. Nuclear Security uses this list to administer the pool visit (See EP-609).

3. The method of sharing the information obtained by pool members with other media representatives is determined by the Media Pool Leader with the approval of the JPIC Media Relations Supervisor and the JPIC Administrator.
4. Pool members or media representatives who do not act in a professional manner or do not follow appropriate security and/or emergency regulation requirements are asked to leave and are not allowed to return to the JPIC.

6.0 Follow-up Actions

- 6.1 The Media Pool remains in operation at the JPIC until the event is reduced below the Site Area Emergency level or the State's "State of Disaster" is ended and/or the number of media no longer requires a selection process.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: JOINT PUBLIC INFORMATION CENTER OPERATION

RECORD OF APPROVAL AND CHANGES

Prepared by	<u>John Rogers</u>	<u>06/29/83</u>	Date
Approved by	<u><i>[Signature]</i></u> Responsible Section Head	<u>9-6-83</u>	Date
Recommended by	<u><i>E H Newton</i></u> Supervisor - Operational Assurance/Delegate	<u>9-6-83</u>	Date

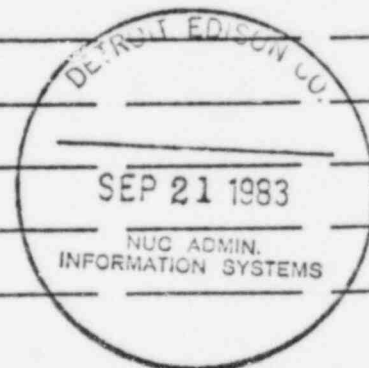
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by	<u><i>R L Penant</i></u> OSRO Chairman/Alternate	<u>9/6/83</u>	Date
Approved by	<u><i>R L Penant</i></u> Superintendent-Nuclear Production/Delegate	<u>9/6/83</u>	Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: JOINT PUBLIC INFORMATION CENTER OPERATION

Prepared by	<u>John Rogers</u>	<u>06/29/83</u> Date
Recommended by	<u>Walter A. Zambelli / DSM</u> Communication System Division	<u>7-29-83</u> Date
Recommended by	<u>James L Jones</u> Community & Government Affairs	<u>7-29-83</u> Date
Recommended by	<u>Larry E. Skurmes</u> Licensing	<u>8/2/83</u> Date
Recommended by	<u>Wayne H. Monroe</u> Medical Staff	<u>7/29/83</u> Date
Recommended by	<u>James J. Pina</u> Nuclear Administration	<u>7/29/83</u> Date
Recommended by	<u>G. R. Overbeck / E. Preston</u> Nuclear Production	<u>7/29/83</u> Date
Recommended by	<u>Edward J. Sauer</u> Nuclear Training	<u>7/29/83</u> Date
Recommended by	<u>Burt Weyman</u> Public Information	<u>7-29-83</u> Date
Recommended by	<u>Michael S. Gable / E. Preston</u> Security	<u>7-29-83</u> Date
Recommended by	<u>W. F. Venable by J. P. George</u> Wayne-Monroe Division	<u>7-29-83</u> Date
Approved by	<u>T. Pandozo by J. Madros</u> RERP Committee Chairperson	<u>8/1/83</u> Date
Revision No.	RERP Committee Chairperson Approved	Date

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1.0 Purpose

To prescribe actions taken by the Public Affairs Staff during a Site Area Emergency and/or General Emergency at the Fermi 2 Nuclear Power Plant, or any time the Governor declares a "State of Disaster" due to an emergency at that facility.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan, Section G (Public Education and Information)
- 2.2 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG-0654 FEMA-REP-1 REV.1), Section II-G (Public Education and Information)
- 2.3 The State of Michigan Emergency Preparedness Plan
- 2.4 Appendix 1, Nuclear Facility Procedures, Monroe County Emergency Operations Plan
- 2.5 Appendix 1, Nuclear Facility Procedures, Wayne County Emergency Operations Plan
- *2.6 Public Affairs: Joint Public Information Center Actuation (EP-604)
- *2.7 Public Affairs: Media Pool Operation (EP-607)
- 2.8 Joint Public Information Center: Security Force Responsibilities (EP-609)
- *2.9 Public Affairs: Emergency Communication Plan Overview (EPA-10)

3.0 Entry Conditions

Whenever the Emergency Officer declares a Site Area Emergency or a General Emergency, this procedure is activated.

- 3.1 Whenever the Governor declares a "State of Disaster" due to an emergency at the Fermi 2 Nuclear Power Plant, this procedure is activated.

4.0 General Information

The Public Affairs Staff has the responsibility of cooperating with State and county in notifying the public through the media of any Site Emergency, General Emergency or State-declared "State of Disaster" and keeping them informed of emergency events as they develop through operation of a Joint Public Information Center (JPIC).

- 4.1 This includes informing the public of event status, periodic reports on the emergency and recommendations for the protection of the health and safety of the public.
- 4.2 Public Affairs Emergency Communication Plan actions and general policy continue, as appropriate, under the JPIC operation.
- 4.3 Staffing and administration operation of the JPIC are the responsibility of the Director-Public Information, acting as the JPIC Administrator or designated alternate.
- 4.4 Security of the JPIC is the responsibility of Director - Nuclear Security (or designee) (See EP-609).

5.0 Immediate Actions

The functional areas of the JPIC perform their duties under the direction of the Director-Public Information as the JPIC Administrator or his/her alternate, the Emergency Communication Planner. The Emergency Communication Planner or his/her alternate is the JPIC Emergency Communication Officer. These functional area duties and the flow of information to the media are prescribed in this procedure (See EP-604).

- 5.1 The JPIC Message Center is linked with the Emergency Operations Facility (EOF) and the Employee Emergency Communication Center (EECC) by FAX machine and "hot line" telephone. Messages are sent and received primarily by the FAX machines to avoid errors and/or misinterpretation. The telephones are used to inform the JPIC of changes in emergency classifications and wind direction or speed; for quick answers from the EOF or the EECC to media questions; or for additional requests for information by the Utility Spokesman or his Senior Technical Liaison.
 - 5.1.1 Event information messages are sent to the JPIC Message Center by the Public Information Coordinator in the EOF.
 - 1. These incoming messages are logged in by date and time by the Message Clerk who also assigns a JPIC sequential message Number.

2. Messages are given to the Emergency Communication Officer (ECO) for review and/or corrections. Decision to duplicate and distribute copies is made by the ECO and carried out by a JPIC Clerk/Runner.
3. Message distribution includes the JPIC Administrator, the Utility Spokesperson and his/her Senior Technical Liaison, the JPIC Technical and Radiation Chemistry Liaisons, the state Joint Public Information Team (JPIT) representative, the Monroe County JPIT representative, the Wayne County JPIT representative, the JPIC ECO, the Message Clerk file and the central message board inside the JPIC.
4. The Clerk/Runner also posts a summary statement of the message on the JPIT message board.
5. All technical questions are referred to the EOF Public Information Coordinator through the JPIC Communication Officer for answers with follow-up every thirty minutes on those not answered within that period. The message Clerk posts a record of all questions asked and answers received for Communications Officer to review and distributes as appropriate.
6. All "hot line" telephone messages are recorded, transcribed, logged in and out, assigned a Message Center number and distributed, if necessary. A follow-up log is maintained on all items and follow-up performed by the Communication Officer every thirty minutes.

5.1.2 Joint Public Information Team (JPIT) (See EP-604), under the direction of the state JPIT representative, holds press briefings on the emergency at least every hour or sooner if the event classification changes up or down or whenever public health and/or safety measures are involved.

1. Official announcements and/or press releases about the emergency come only from the JPIT.
2. A press release is developed by the JPIT prior to each press briefing. The Media Center processes, reproduces and distributes the release to media present as the briefing is under way. One copy of

the JPIT press release is transmitted to the EOF and another to the EECC as quickly as possible for use by the Media Relations Team and the Employee Emergency Communications Team in the General Offices.

- 5.1.3 JPIC Media Relations representatives are assigned responsibility for specific media to contact between press briefings to determine unmet needs and to update late-comers.
1. Requests by the media for additional information on the emergency are referred by the JPIC Media Relations Supervisor to the JPIC Administrator or the Emergency Communication Officer for a decision on transmission to EOF.
 2. Media Relations representatives screen media requests for non-emergency information and interviews and make appropriate arrangements with the guidance of the JPIC Media Relations Supervisor and/or the JPIC Administrator.
 3. Media "pool" site visits are scheduled by the Media Relations Supervisor and the JPIC Administrator through the EOF Coordinator (See EP-607).
 4. In-depth briefings of the media by appropriate company technical persons present at the JPIC are coordinated by the JPIC Media Relations Supervisor and monitored by the JPIC Media Relations representatives.
- 5.1.4 Media Services receive media persons upon clearing the Security desk. Media will receive press kits, all JPIT releases up to that time, plus information about housing, transportation and other essentials that may be requested.
1. Telephone credit cards will be issued as needed to accredited members of the press.
 2. Video tapes of prior JPIT press conferences will be made available for viewing by the media.
- 5.1.5 JPIC Administrative Services provides for the internal staffing, timekeeping and pay roll, graphics, logistics, sound and video equipment, purchasing capabilities, janitorial services, feeding and general maintenance needs of the facility and persons attending to the Emergency Response Plan requirements.

1. Under the direction of the JPIC Administrative Services Supervisor, the facility is staffed and stocked to operate 24-hours a day, seven days a week for extended periods.
2. The JPIC operation must be established in no less than ninety minutes after notice to the Emergency Communication Planner by the Director-Public Information.

5.1.6 Graphic Arts JPIC staff provide up-to-the minute drawings and sketches of plant and emergency planning zone areas for use at media briefings.

1. Illustrate affected areas of the plant to help Utility Spokesperson describe details the event to the media during press briefings.
2. Up-date area sector maps to show wind direction and possible evacuation areas.
3. Produce other illustrations as needed to support JPIC activities.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: JOINT PUBLIC INFORMATION CENTER: SECURITY FORCE RESPONSIBILITIES

RECORD OF APPROVAL AND CHANGES

Prepared by W. G. Ferich 09/27/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational Assurance/Delegate
Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear Production/Delegate
Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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Typed by: P. Capiak (RERP #11)
Revised by: P. Capiak

ENKICO FERM1 ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: JOINT PUBLIC INFORMATION CENTER: SECURITY FORCE RESPONSIBILITIES

Prepared by	W. G. Ferich	08/02/83 Date
Recommended by	<i>Donald MacKenzie</i> Communication System Division	<i>7-12-83</i> Date
Recommended by	<i>James L. Jones</i> Community & Government Affairs	<i>8-18-83</i> Date
Recommended by	<i>OK Earl for LE Schuerman</i> Licensing	<i>8/19/83</i> Date
Recommended by	<i>Medical Staff</i> Medical Staff	<i>8/19/83</i> Date
Recommended by	<i>James M. DeBor</i> Nuclear Administration	<i>8-18-83</i> Date
Recommended by	<i>Gregory A. DeBor</i> Nuclear Production	<i>8-22-83</i> Date
Recommended by	<i>Thomas K. Stengren</i> Nuclear Training	<i>8-18-83</i> Date
Recommended by	<i>Bert Hefner</i> Public Information	<i>8-18-83</i> Date
Recommended by	<i>Security</i> Security	<i>8-18-83</i> Date
Recommended by	<i>Maurice L. Vermeulen</i> Wayne-Monroe Division	<i>8/18/83</i> Date
Approved by	<i>Thomas Randozgo</i> RERP Committee Chairperson	<i>8/18/83</i> Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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1.0 Purpose

To prescribe actions to be performed by Members of the Security Force (MSF) at the Joint Public Information Center (JPIC) to control access and to maintain order.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan (RERP), Section G (Public Education and Information)
- 2.2 Joint Public Information Center: Activation (EP-604)
- 2.3 Joint Public Information Center: Operation (EP-608)
- 2.4 On-Site News Center: Security Force Responsibilities (EP-610)
- 2.5 Monroe County Radiological Emergency Response Plan, Annex 1 to the Basic Plan, Section V (Tasks and Responsibilities), F (Public Information) and Appendix 1 to the Public Information Annex, Section III - General Responsibilities, F.

3.0 Action Level

Any of the following events occur:

- 3.1 The Emergency Director declares a Site Area Emergency or a General Emergency.
- 3.2 The State orders the activation of the JPIC.
- 3.3 The Detroit Edison Public Information Director, or alternate, orders the activation of the JPIC.
- 3.4 The Director-Nuclear Security, or alternate, at the Emergency Operating Facility (EOF) orders the preparation for the activation of the JPIC.

4.0 General Information

MSF responsibilities in the event of the activation of the JPIC are:

- 4.1 Providing access control to the JPIC.
- 4.2 Identifying individuals as bonafide representatives to the Joint Public Information Team (JPIT) from:
 - 4.2.1 Detroit Edison

- 4.2.2 State of Michigan
- 4.2.3 County of Monroe
- 4.3 Identifying individuals as official observers or participants from:
 - 4.3.1 Nuclear Regulatory Commission (NRC)
 - 4.3.2 Federal Emergency Management Agency (FEMA)
 - 4.3.3 Department of Energy (DOE)
 - 4.3.4 Edison Electric Institute (EEI)
 - 4.3.5 Atomic Industrial Forum (AIF)
 - 4.3.6 Electric Power Research Institute (EPRI)
 - 4.3.7 Others - As may be approved
- 4.4 Identifying individuals as bonafide representatives of news agencies.
- 4.5 Delivering equipment, necessary for security operation, to the JPIC.
- 4.6 Maintaining order at the JPIC.

5.0 Immediate Actions

- 5.1 The Secondary Alarm Station (SAS) shall:
 - 5.1.1 Contact the On-Call JPIC Supervisor.
 - 5.1.2 Contact the Monroe County Community College President during regular duty hours or the Boiler Operator during off duty hours to open the Administration Building. If there is no response contact the Monroe County Sheriff.
- 5.2 For entry of non-media representatives:
 - 5.2.1 The Identification Officer (IO) shall:
 - 1. Verify and confirm the identity of officials of:
 - a. Detroit Edison Company - by Company photo-identification
 - b. NRC - by Commission photo-identification
 - c. FEMA - by photo-identification

- d. DOE - by photo-identification
 - e. State of Michigan Public Information Officer-
by Michigan State Police photo-identification
 - f. Others - by appropriate credentials including
photo-identification establishing identity
- 2. Allow entry to personnel authorized by personal
recognition of the JPIC Administrator or
designate.
 - 3. Issue Officials a JPIC official access badge and
indicate on the Visitor Register, DE Form
963-5957:
 - a. Name
 - b. Organization represented
 - c. Time in
 - d. Time out (upon departure)
 - e. Badge number
 - f. Officer's initials

5.2.2 The Access Control Officer (ACO) shall:

- 1. Position himself/herself at the corridor entrance
leading to the JPIT offices and the assembly area
and:
 - a. Ensure all persons possess an access badge
prior to entry.
 - b. Direct all persons requiring badges to the
IO.

5.3 To control access of news media representatives to the JPIC:

5.3.1 The IO shall:

- 1. Verify the identity of individuals as represen-
tatives of news agencies by:
 - a. Photo-identification from the agency
represented.

b. Photo-identification (other than agency) and telephonic confirmation from the agency or confirmation from a Detroit Edison Company Public Information representative.

2. Colored badges are provided for use on a day-by-day basis. The badges are cloth and adhere to clothing. They shall be placed on their clothing by the individual on the outer garment and above the waist. The Director-Nuclear Security or his alternate at the EOF shall designate which color is to be used on each day.

3. Issue the specified color badge to the news media representative after stamping the date upon the badge. Inform the individual to return the badge upon departing the On-Site News Center, and have the individual sign the Visitor Register, DE Form 963-5957 indicating:

- a. Name
- b. Company represented
- c. Time in
- d. Time out (upon departure)
- e. Officer's initials

4. Any question of identity or authenticity shall be brought to the attention of the Detroit Edison Supervisor, Media Services or the JPIC Administrator for determining access.

5.3.2 The ACO shall:

- 1. Position himself/herself at the corridor entrance leading to the assembly area and:
 - a. Ensure that all persons possess an authorized access badge prior to entry.
 - b. Direct all persons requiring badges to the IO.

5.3.3 Media personnel are not to be allowed entry into the JPIT offices or the JPIC work area.

5.4 To control access to the loading/unloading area to suppliers of food and other necessary items at the JPIC:

5.4.1 The ACO at the loading dock entrance shall:

1. Identify individuals by photo-identification and comparison to the list provided by Monroe County Community College (MCCC).
2. Allow entry to food service employees of the MCCC or Detroit Edison Company and direct other personnel to the appropriate entrance at the east entrance of the Administration Building.
3. Allow access to personnel delivering food or supplies to the JPIC. Authenticity shall be determined by verification with the food service supervisor, ARA Services (MCCC) or the JPIC Services Administrator, JPIC Administrator or their representative.

5.5 To provide protection to the Detroit Edison Company officials by controlling crowd assemblies and ensuring entry and exit is through the east portal as provided:

5.5.1 MSF assigned to the assembly area to monitor the crowd shall:

1. Maintain surveillance to the south door to ensure no entry or exit is made, except during building evacuation (the door is an exterior door).
2. Maintain surveillance of the crowd in the assembly area and assist the JPIC Media Relations representatives, as needed, to provide protective security to Company officials.
3. Assist the JPIC Administrator and staff personnel in maintaining order in the assembly area as well as general order throughout the JPIC.

5.6 To provide necessary equipment for security operations at the JPIC.

5.6.1 The following equipment is necessary for security operations at the JPIC. The radio equipment is maintained at the SAS. The remainder is maintained in a JPIC "kit" stored at the Fermi Drive Gate.

<u>Item</u>	<u>Approximate Quantity</u>
1. 2-way Radios	5
2. Status Board	1
3. Grease Pencils	12
4. Pencils	24
5. Pens (Black Ink)	24

<u>Item</u>	<u>Approximate Quantity</u>
6. Flashlights	6
7. Batteries (D-Cell)	12
8. Visitor Register (DE Form 963-5957)	100
9. Megaphone	1
10. Paper Pads	10
11. Telephone Lists	1
12. Set of JPIC Procedures	1
13. Map Layout of the JPIC	1
14. Access Badges	50
a. Official	1,000
b. Media (each color)	1
15. Date Stamp	

5.6.2 The Director-Nuclear Security or alternate at the EOF, if activated, or the Nuclear Shift Lieutenant is responsible for procuring the equipment from the locations as specified in Section 5.5.1 and delivering them to the JPIC.

5.7 The JPIC Security Supervisor shall work with the JPIC Administrator, or alternate, to provide security and access control as may be required.

6.0 Follow-Up Actions

6.1 The Identification Officer (IO) shall:

6.1.1 Notify the JPIC Administrator, or alternate, and the Director-Nuclear Security, or alternate, at the EOF:

1. The identity of any individual denied access.
2. The status of the JPIC every 2 hours. The IO shall advise of the quantity and the behavior of persons at the facility.
3. Upon departure of a group of news media representatives for the On-Site News Center (NOC Cafeteria), the number in the group and Public Information representatives accompanying them.

6.1.2 A list of persons in the group shall be provided by the JPIC Administrator. The JPIC Administrator shall notify the EOF Public Information Coordinator, who will notify the Director-Nuclear Security, or alternate, of the names of the media representatives enroute to the On-Site News Center. The list provided the IO shall be used to verify the departure of all members from the Center.

- 6.1.3 Maintain a status board indicating the number of media and the number of officials at the JPIC.
- 6.2 The MSF shall:
 - 6.2.1 Secure any doors not in use.
 - 6.2.2 Direct all personnel to the appropriate entrances and exits.
- 6.3 Upon deactivation of the JPIC, the equipment shall be collected and returned by the JPIC Supervisor to the Fermi Drive gate per Section 5.6.
- 6.4 Security personnel initially assigned to the JPIC will probably be off-duty personnel. These personnel shall respond to the JPIC in appropriate civilian attire for a business office environment. A security badge will be issued to those personnel at the JPIC.
 - 6.4.1 To minimize response time, personnel residing in the Monroe area may be notified to respond first.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ON-SITE NEWS CENTER: SECURITY FORCE RESPONSIBILITIES

RECORD OF APPROVAL AND CHANGES

Prepared by W. G. Ferich 09/27/83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1	_____	_____	_____	_____	*	_____	_____	_____
2	_____	_____	_____	_____	*	_____	_____	_____
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5	_____	_____	_____	_____	*	_____	_____	_____
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7	_____	_____	_____	_____	*	_____	_____	_____
8	_____	_____	_____	_____	*	_____	_____	_____

Typed by: P. Capiak (RERP #11)
Revised by: P. Capiak

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: ON-SITE NEWS CENTER: SECURITY FORCE RESPONSIBILITIES

Prepared by	<u>W. G. Ferich</u>	<u>08/02/83</u> Date
Recommended by	<u>Donald Imac Kenzie</u> Communication System Division	<u>8-25-83</u> Date
Recommended by	<u>James L. Jones</u> Community & Government Affairs	<u>8-25-83</u> Date
Recommended by	<u>Larry E. Schuman</u> Licensing	<u>9-7-83</u> Date
Recommended by	<u>[Signature]</u> Medical Staff	<u>8-25-83</u> Date
Recommended by	<u>James M. DuBay</u> Nuclear Administration	<u>8-25-83</u> Date
Recommended by	<u>[Signature]</u> Nuclear Production	<u>9-6-83</u> Date
Recommended by	<u>Kenn K. Thompson</u> Nuclear Training	<u>8-25-83</u> Date
Recommended by	<u>Bert Hefner</u> Public Information	<u>8-25-83</u> Date
Recommended by	<u>Stuart H. Zeech</u> Security	<u>8-25-83</u> Date
Recommended by	<u>M. F. [Signature]</u> Wayne-Monroe Division	<u>8-25-83</u> Date
Approved by	<u>Thomas Randazzo</u> RERP Committee Chairperson	<u>8/25/83</u> Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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6.0 Follow-Up Actions	6

1.0 Purpose

To prescribe actions to be performed by Members of the Security Force (MSF) at the On-Site News Center to control access and to maintain order.

2.0 References

- 2.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Plan (RERP) (EF-2 FSAR. Annex 1), Section G (Public Education and Information)
- 2.2 Joint Public Information Center: Activation (EP-604)
- 2.3 Joint Public Information Center: Operations (EP-608)
- 2.4 Joint Public Information Center: Security Force Responsibilities (EP-609)

3.0 Entry Condition

Any of the following events occur:

- 3.1 The Detroit Edison Public Information Director, or alternate, orders the activation of the On-Site News Center.
- 3.2 News media personnel are expected to arrive at the On-Site News Center.

4.0 General Information

MSF responsibilities in the event of the activation of the On-Site News Center or the Joint Public Information Center (JPIC) are:

- 4.1 Providing access control to the On-Site News Center.
- 4.2 Identifying individuals as bonafide representatives of news agencies.
- 4.3 Delivering equipment, necessary for security operation, to the On-Site News Center.
- 4.4 Identifying individuals as bonafide public information representatives of:
 - 4.4.1 Detroit Edison
 - 4.4.2 State of Michigan
 - 4.4.3 County of Monroe

4.5 Identifying individuals as official observers or participants from:

- 4.5.1 Nuclear Regulatory Commission (NRC)
- 4.5.2 Federal Emergency Management Agency (FEMA)
- 4.5.3 Department of Energy (DOE)
- 4.5.4 Edison Electric Institute (EEI)
- 4.5.5 Atomic Industrial Forum (AIF)
- 4.5.6 Electric Power Research Institute (EPRI)
- 4.5.7 Institute Nuclear Power Organizations (INPO)
- 4.5.8 Others ~ As may be approved

4.6 Maintaining order at the On-Site News Center.

5.0 Immediate Actions

When notified by the Public Information Director, or alternate, that the On-Site News Center is (going to be) activated:

5.1 The Secondary Alarm Station (SAS) shall:

- 5.1.1 Contact the Security Shift Supervisor.
- 5.1.2 Contact the MSF to perform duties at the On-Site News Center, as directed by the Security Shift Supervisor.

5.2 The Security Shift Supervisor shall:

5.2.1 Assign MSF to perform duties as:

1. Access Control Officer (ACO) at the ground level entrance to the south entrance of the NOC.
2. ACO at the north entrance of the On-Site News Center (NOC Cafeteria).
3. Escort Officer (EO) for media personnel arriving at the Fermi Drive gate who are authorized by the On-Site News Center Administrator to come to the Center.

5.2.2 Direct the Fermi Drive gate to allow entry to personnel going to the On-Site News Center only after the Center has been activated and according to the instructions of the On-Site News Center Administrator.

5.3 For entry of non-media representatives:

5.3.1 The Access Control Officer(s) (ACO) at the south ground level entrance to the NOC shall:

- i. Verify and confirm the identity of officials of:
 - a. Detroit Edison Company - by Company photo-identification
 - b. NRC - by Commission photo-identification
 - c. FEMA - by photo-identification
 - d. DOE - by photo-identification
 - e. State of Michigan Public Information Officer - by Michigan State Police photo-identification
 - f. Others - by appropriate credentials including photo-identification establishing identity
2. Issue Officials an On-Site News Center official access badge and indicate on the Visitor Register, DE Form 963-5957:
 - a. Name
 - b. Organization represented
 - c. Time in
 - d. Time out (upon departure)
 - e. Badge number
 - f. Officer's initials
3. Ensure all persons possess an access badge prior to entry

5.4 To control access to news media representatives to the On-Site News Center:

5.4.1 The ACO shall:

1. Verify the identity of individuals as representatives of news agencies by:
 - a. Photo-identification from the agency represented.

- b. Photo-identification (other than agency) and telephonic confirmation from the agency or confirmation from a Detroit Edison Company Public Information representative.
 - 2. Colored badges are provided for use on a day-by-day basis. The badges are cloth and adhere to clothing. They shall be placed on their clothing by the individual on the outer garment and above the waist. The Director-Nuclear Security or his alternate at the EOF shall designate which color is to be used on each day.
 - 3. Issue the specified color badge to the news media representative after stamping the date upon the badge. Inform the individual to return the badge upon departing the On-Site News Center, and have the individual sign the Visitor Register, DE Form 963-5957 indicating:
 - a. Name
 - b. Company represented
 - c. Time in
 - d. Time out (upon departure)
 - e. Officer's initials
 - 4. Any question of identity or authenticity shall be brought to the attention of the On-Site News Center Administrator for determining access.
 - 5. Ensure that all persons possess an authorized access badge prior to entry.
- 5.5 To control access to the north entrance to the On-Site News Center to suppliers of food and other necessary items or to On-Site News Center officials from offices:
- 5.5.1 The ACO at the north entrance shall:
- 1. Identify individuals by photo-identification or On-Site News Center access badge.
 - 2. Allow entry to food service employees of the Detroit Edison Company or vendor and direct other personnel to the appropriate entrance at the south entrance of the NOC.

3. Allow access to personnel delivering food or supplies to the On-Site News Center. Authenticity shall be determined by verification with the food service supervisor, On-Site News Center Administrator or their representative.
- 5.6 To provide protection by controlling crowd assemblies and ensuring entry and exit is through the south entrance portal as provided:
- 5.6.1 MSF assigned to the Assembly Area to monitor the crowd shall:
 1. Maintain surveillance of the crowd in the assembly area and assist the media relations representatives, as needed, to provide security.
 2. Assist the On-Site News Center Administrator and staff personnel in maintaining order in the assembly area as well as general order throughout the On-Site News Center.
- 5.7 To provide necessary equipment for security operations at the On-Site News Center.
- 5.7.1 The following equipment is necessary for security operations at the On-Site News Center. The radio equipment is maintained at the SAS. The remainder is maintained in an On-Site News Center "kit" stored at the Fermi Drive gate.

<u>Item</u>		<u>Approximate Quantity</u>
1.	2-way Radios	3
2.	Status Board	1
3.	Grease Pencils	12
4.	Pencils	24
5.	Pens (Black Ink)	24
6.	Flashlights	6
7.	Batteries	12
8.	Visitor Register (DE Form 963-5957)	100
9.	Paper Pads	10
10.	Telephone Lists	1
11.	Set of On-Site News Center Procedures	1
12.	Map Layout of the On-Site News Center	1
13.	Access Badges	
	a. Official	50
	b. Media (each color)	1,000
14.	Date Stamp With Ink and Pad	1

- 5.7.2 The Director-Nuclear Security or alternate or the Nuclear Shift Lieutenant is responsible for procuring the equipment from the locations as specified in Section 5.6.1 and delivering it to the On-Site News Center.

6.0 Follow-Up Actions

6.1 The Identification Officer (IO) shall:

- 6.1.1 Notify the On-Site News Center Administrator, or alternate, and the Director-Nuclear Security, or alternate concerning:
1. The identity of any individual denied access.
 2. The status of the On-Site News Center every 2 hours. The IO shall advise of the quantity and the behavior of persons at the facility.
 3. The arrival of a group of news media representatives from the JPIC, the number in the group and JPIC representatives accompanying them.
- 6.1.2 Maintain a status board indicating the number of media and the number of officials at the On-Site News Center.

6.2 The MSF shall:

- 6.2.1 Secure any doors not in use.
- 6.2.2 Direct all personnel to the appropriate entrances and exits.

- 6.3 Upon deactivation of the On-Site News Center, the equipment shall be collected and returned to the Fermi Drive Gate per Section 5.7.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: PROCEDURE PREPARATION, REVIEW, APPROVAL, CHANGE, REVISION,
CANCELLATION, CONTROL, AND DISTRIBUTION

RECORD OF APPROVAL AND CHANGES

Prepared by K. Connell 4/18/83
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E.H. Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

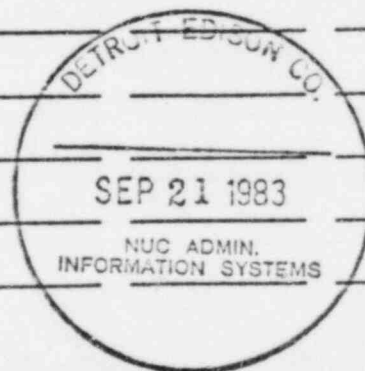
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/L + 8/23/83
OSRO Chairman/Alternate Date
Approved by D/L + 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor- Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
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CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: PROCEDURE PREPARATION, REVIEW, APPROVAL, CHANGE, REVISION,
CANCELLATION, CONTROL, AND DISTRIBUTION

Prepared by	<u>K. Connell</u>	<u>4-18-83</u>
		Date
Recommended by	<u>Donald J Mac Kenzie</u>	<u>5-31-83</u>
	Communication System Division	Date
Recommended by	<u>James L. Jones Jr</u>	<u>6/24/83</u>
	Community & Government Affairs	Date
Recommended by	<u>James P. Corbin</u>	<u>6-22-83</u>
	Insurance	Date
Recommended by	<u>Larry E. Schuman</u>	<u>6/17/83</u>
	Licensing	Date
Recommended by	<u>Mahmud Syed, M.D.</u>	<u>6/22/83</u>
	Medical Staff	Date
Recommended by	<u>James J. Davis</u>	<u>5/31/83</u>
	Nuclear Administration	Date
Recommended by	<u>Gregg R. Schubert</u>	<u>5-31-83</u>
	Nuclear Production	Date
Recommended by	<u>J. B. McEachern</u>	<u>5/31/83</u>
	Nuclear Training	Date
Recommended by	<u>Bert Heppner John Rogers</u>	<u>5/31/83</u>
	Public Information	Date
Recommended by	<u>Stuart A. Zech</u>	<u>5-31-83</u>
	Security	Date
Recommended by	<u>Maurice F. Vermeulen</u>	<u>5/31/83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Randazzo</u>	<u>5/31/83</u>
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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1.0 Purpose

This procedure, in conjunction with Administrative Procedure 12.000.07 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control and Distribution), provides guidelines for the preparation, review, approval, change, revision, cancellation, control and distribution of Radiological Emergency Response Preparedness (RERP) Procedures: Emergency Plan Administrative Procedures (EPA's) and Emergency Plan Implementing Procedures (EP's).

2.0 Applicability and Definitions

2.1 Applicability

This procedure is used by personnel who are assigned to prepare, maintain, review, approve and implement Emergency Plan Procedures (EPA's and EP's).

2.2 Definitions

2.2.1 Radiological Emergency Response Preparedness Administrative Procedures (EPA's)

Those procedures which address administrative and training matters in terms of the scope or direction of a particular facet within the RERP areas.

2.2.2 Radiological Emergency Response Preparedness Implementing Procedures (EP's)

Those procedures which address specific elements of the RERP area, such as: classification of emergencies, emergency notifications, emergency organizations, emergency facilities and miscellaneous emergency actions.

2.2.3 Supervisor of RERP

1. Responsible for developing and updating the RERP Procedures and for coordination with other response groups, organizations and agencies.
2. Chairperson of the RERP Committee.
3. Designated Section Head for OSRO.

2.2.4 Procedure Coordinator

RERP staff member assigned by the RERP Supervisor to serve as coordinator for RERP Procedures to ensure the proper review of these procedures.

2.2.5 RERP Clerk

1. Responsible for the clerical processing of RERP Procedures and review up through their submittal to OSRO.
2. The duties of the RERP Clerk will include:
 - a. Processing procedures and procedure modifications, including typing, copying and other clerical functions.
 - b. Collecting comments for procedure review cycles prior to submittal to OSRO and for submitting these comments to the RERP Supervisor or the designated Procedure Coordinator.
 - c. Submitting procedures to OSRO.
 - d. Interfacing with OSRO Clerk.

2.2.6 RERP Committee

1. Recommends approval of RERP plans and procedures to the Vice President-Nuclear Operations and OSRO.
2. Its members are:

Organizational Unit

REKP (Chairperson)
Communication Systems Division
Community and Governmental Affairs
Licensing
Medical Staff
Nuclear Administration
Nuclear Production
Nuclear Training
Public Information
Nuclear Security
Wayne-Monroe Division

3.0 References

- *3.1 Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control, and Distribution (12.000.07).

* Denotes "Use" Reference

4.0 General Format

Refer to Administrative Procedure 12.000.07 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control and Distribution), Section 4.0.

5.0 Standard for Procedure Writing

Refer to Administrative Procedure 12.000.07 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control and Distribution), Section 11.0.

6.0 Procedure Preparation, Review and Approval

6.1 Preparation

- 6.1.1 The Supervisor of Radiological Emergency Response Preparedness designates a person to prepare the procedure. For those procedures prepared by someone outside the RERP group, an RERP staff member functions as the Procedure Coordinator.
- 6.1.2 The procedure's preparer/Procedure Coordinator is responsible for ensuring that the procedure format conforms with the typical format where possible. If necessary, an alternate format can be used.
- 6.1.3 The procedure's preparer/Procedure Coordinator is also responsible for completing the procedure in accordance with pertinent technical and quality assurance requirements.

6.2 Review and Approval

- 6.2.1 When a procedure has been prepared, the preparer/Procedure Coordinator ensures proper review as follows:
 - 1. The preparer/Procedure Coordinator presents the procedure to the RERP Supervisor for authorization to submit the procedure to the RERP Committee for approval.
 - 2. The RERP Supervisor either sends the procedure back to the preparer/Procedure Coordinator for revision or agrees that the procedure be submitted to the RERP Committee.
 - 3. When the RERP Supervisor gives approval, procedures are distributed by the Special Clerk for review to the RERP Committee members and any

other applicable parties. The RERP Supervisor is responsible for the assignment of any additional reviewers.

4. The RERP Committee, in session, resolves any conflicts and makes any revisions required. If the incorporation of comments received substantially changes the procedure, it may be sent for additional review and repetition of the review cycle at the discretion of the RERP Supervisor.
5. RERP Committee approval is indicated by the members' signatures on the second title page of the procedure.
6. The approved procedure is forwarded to the Special Clerk to be submitted to the OSRO Clerk for processing through the OSRO review cycle in accordance with the Administrative Procedure 12.000.07 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control and Distribution).

7.0 Procedure Distribution and Control

Refer to Administrative Procedure 12.000.07 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control and Distribution), Section 7.

8.0 Procedure Changes

- 8.1 Changes to approved procedures are classified as Major or Temporary Changes.
 - 8.1.1 A Major Change changes the intent or format of the procedure. A Major Change shall constitute a revision.
 - 8.1.2 A Temporary Change is a change where the intent of the original procedure is not altered and is used when an interim condition requires deviating from the approved procedure or when the approved procedure is deemed inadequate to accomplish the task.
- 8.2 Changes shall undergo the same or equivalent review as the original procedure. However, a Temporary Change may be implemented immediately after interim approval, while a Major Change must receive a complete review prior to implementation.

8.3 Major Changes

8.3.1 After a procedure has been approved, any individual can propose a Major Change. If the Supervisor of Radiological Emergency Response Preparedness deems the change appropriate, the Major Change is submitted for approval using the same review and approval process as required for the original procedure.

8.3.2 For more detailed information, refer to Administrative Procedure 12.000.07 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control and Distribution), Sections 9.0-9.6.

8.4 Temporary Changes

Refer to Administrative Procedure 12.000.07 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control and Distribution), Section 9.7.

9.0 Temporary Procedures

Refer to Administrative Procedure 12.000.07 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control and Distribution), Section 8.0.

10.0 Procedure Addition, Cancellation, or Title Changes

Refer to Administrative Procedure 12.000.07 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control and Distribution), Section 10.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: PERIODIC REVIEW OF RADIOLOGICAL EMERGENCY
RESPONSE PREPAREDNESS PROCEDURES

RECORD OF APPROVAL AND CHANGES

Prepared by K. Connell 4/20/83
Date

Approved by _____
Responsible Section Head Date

Recommended by _____
Supervisor - Operational Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by _____
OSRO Chairman/Alternate Date

Approved by _____
Superintendent-Nuclear Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
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Revised by: Trish Capiak (RERP #1)

Title: PERIODIC REVIEW OF RADIOLOGICAL EMERGENCY RESPONSE PREPAREDNESS PROCEDURES

Prepared by	K. Connell	4/20/83
Recommended by	Donald J. Mac Kenzie Communication System Division	5-31-83
Recommended by	James L. Jones Jr. Community & Government Affairs	6/24/83
Recommended by	James R. Cooper Insurance	6-22-83
Recommended by	Larry E. Scherman Licensing	6/17/83
Recommended by	Mahmud Syed M.D. Medical Staff	6/22/83
Recommended by	James J. Laine Nuclear Administration	5/31/83
Recommended by	Guy R. Dunbar Nuclear Production	5-31-83
Recommended by	John B. Myer Jr. Nuclear Training	6/4/83
Recommended by	Bert H. Palmer Public Information	5/31/83
Recommended by	Robert H. Leach Security	5-31-83
Recommended by	Maria F. Venable Wayne-Monroe Division	5/31/83
Approved by	Thomas Randazzo RERP Committee Chairperson	5/31/83

Date _____

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Attachment

POM Index Update Form	Attachment 1
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1.0 Purpose

The purpose of this procedure is to provide for periodic review of the Radiological Emergency Response Preparedness (RERP) Procedures to ensure that they provide proper and current instructions for the actions involved.

2.0 Applicability

This procedure shall be used by personnel who are assigned to maintain and review RERP Implementing Procedures and RERP Administrative Procedures.

3.0 References

- 3.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan Section P (Responsibility for the Planning Effort: Development, Periodic Review, and Distribution of Emergency Plans).
- *3.2 Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control, and Distribution (EPA-1).
- *3.3 Review and Revision of the Radiological Emergency Response Preparedness Plan (EPA-3).
- 3.4 Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control and Distribution (12.000.07)
- *3.5 Periodic Review of Plant Procedures (12.000.24)

4.0 Procedure

4.1 Review Interval

- 4.1.1 All Emergency Plan procedures shall be reviewed annually. Procedures addressing specific Emergency Response organization personnel assignments, emergency access lists, or telephone lists shall be reviewed every three months.
- 4.1.2 The Radiological Emergency Response Preparedness (RERP) Supervisor is responsible for ensuring that Emergency Plan Procedures are periodically reviewed as required by this procedure.

4.1.3 Revisions resulting from Major Changes (see Reference 3.3) shall constitute a review for this procedure. Thus, a periodic review will be scheduled only if the time frame stated in 4.1.1 has elapsed since the last revision approval date.

4.1.4 The periodic review required by this procedure shall be conducted in addition to the reviews required by EPA-3 (Review and Revision of the Radiological Emergency Response Preparedness Plan).

4.1.5 Periodic review dates are indicated on the POM Index in accordance with 12.000.24 (Periodic Review of Plant Procedures).

4.2 Initiation of Review

Refer to Administrative Procedure 12.000.24 (Periodic Review of Plant Procedures).

4.3 Procedure Review

4.3.1 The RERP Supervisor (or designee) shall review the procedure and recommend changes which are required as a result of the following considerations (as a minimum):

1. Written critiques and evaluations of drills and exercises, especially recommended corrective actions.
2. Changes in company or plant organization.
3. Changes in function or organization of support agencies, including necessary revisions to letters of agreement.
4. Changes in state or federal regulations or regulatory guidance.
5. Changes in state or local emergency plans.
6. Modifications to the plant or site which could affect emergency planning, including modifications to plant systems, emergency equipment, Emergency Facilities, etc.
7. Changes to Technical Specifications.
8. Recommendations from other organizations, such as state and federal agencies and other utilities.

9. Significant obvious changes in areas surrounding the site, such as changes in population density or land usage (it is not intended that a detailed study be conducted).
10. Changes in capabilities of supporting organizations, including local hospitals, ambulance services, fire department, etc.
11. Changes in other plant operating or administrative procedures.

4.3.2 The review processing shall be completed as detailed in Administrative Procedure 12.000.24 (Periodic Review of Plant Procedures).

5.0 Records

Refer to Administrative Procedure 12.000.24 (Periodic Review of Plant Procedures).

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: REVIEW AND REVISION OF THE RADIOLOGICAL EMERGENCY
RESPONSE PREPAREDNESS PLAN

RECORD OF APPROVAL AND CHANGES

Prepared by	<u>K. Connell</u>	<u>4/21/83</u>	Date
Approved by	<u>Thomas Rundaygo</u> Responsible Section Head	<u>8/22/83</u>	Date
Recommended by	<u>E H Newton</u> Supervisor - Operational Assurance/Delegate	<u>8-27-83</u>	Date

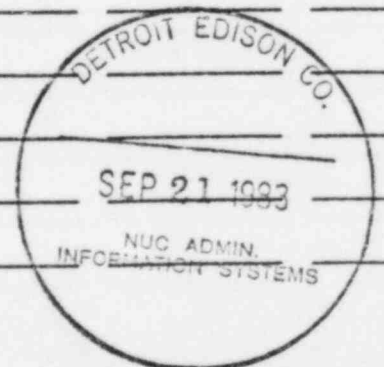
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by	<u>D/L+</u> OSRO Chairman/Alternate	<u>8/23/83</u>	Date
Approved by	<u>D/L+</u> Superintendent-Nuclear Production/Delegate	<u>8/23/83</u>	Date

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
2					*			
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8					*			

CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: REVIEW AND REVISION OF THE RADIOLOGICAL EMERGENCY RESPONSE
PREPAREDNESS PLAN

Prepared by	K. Connell	4/21/83
		Date
Recommended by	<u>Donald J. MacKenzie</u>	5-31-83
	Communication System Division	Date
Recommended by	<u>James L. Jones</u>	6/24/83
	Community & Government Affairs	Date
Recommended by	<u>James P. Coughlin</u>	6-27-83
	Insurance	Date
Recommended by	<u>Larry E. Schuerman</u>	6/17/83
	Licensing	Date
Recommended by	<u>Mahmud Syed, M.D.</u>	6/22/83
	Medical Staff	Date
Recommended by	<u>James J. Davis</u>	5/31/83
	Nuclear Administration	Date
Recommended by	<u>Greg. R. Smith</u>	5-31-83
	Nuclear Production	Date
Recommended by	<u>J. B. Meredith</u>	5/31/83
	Nuclear Training	Date
Recommended by	<u>Bert Hansen, Dale Rogers</u>	5/31/83
	Public Information	Date
Recommended by	<u>Robert H. Zeech</u>	5-31-83
	Security	Date
Recommended by	<u>Maurice F. Vermeulen</u>	5/31/83
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Randazzo</u>	5/31/83
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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Attachments

Radiological Emergency Response
Preparedness Plan Change Submittal.....Attachment 1

1.0 Purpose

This procedure provides guidelines for the review, revision, approval, and distribution of the Radiological Emergency Response Preparedness Plan (Emergency Plan). Excluded are Emergency Plan Implementing Procedures (EP's) and Emergency Plan Administrative Procedures (EPA's) which are addressed in EPA-1 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control, and Distribution); and supporting procedures contained in the Plant Operations Manual, which are addressed in Procedure 12.000.07 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control, and Distribution).

2.0 Applicability and Format

2.1 Applicability

This procedure shall be used by personnel who are assigned to maintain, review, and approve revisions to the Radiological Emergency Response Preparedness (RERP) Plan.

2.2 Format

The format of the Emergency Plan is specified in the Enrico Fermi Atomic Power Plant Unit 2, Radiological Emergency Response Preparedness Plan Section P. Changes to the Plan should not deviate from the provisions in Section P of the Plan.

3.0 References

- *3.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan Section P (Responsibility for the Planning Effort: Development, Periodic Review, and Distribution of Emergency Plans).
- *3.2 Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control, and Distribution (EPA-1).
- 3.3 Periodic Review of Radiological Emergency Response Preparedness Procedures (EPA-2).
- *3.4 Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control, and Distribution (12.000.07).
- *3.5 Management of Controlled Documents (12.000.40).

4.0 Records

4.1 Master File

*Denotes "Use" Reference

- 4.1.1 A Master File, containing information pertinent to the preparation of the Emergency Plan shall be maintained by the RERP Clerk in accordance with this procedure.
- 4.1.2 The Master File is composed of a master copy of the RERP Plan, copies of the superseded versions (if there were revisions) and pertinent correspondence, such as intracompany memos and NRC review documents.
- 4.1.3 Maintenance of the Master File is the responsibility of the RERP Clerk. The RERP Clerk shall control access to the file and ensure that file material is not removed from the immediate vicinity, except when the Plan is being revised. Copies will be made when material is removed from the Master File.

4.2 Automated Records Management System (ARMS)

The current revision of the RERP Plan shall be indexed in the ARMS.

5.0 Emergency Plan Review

5.1 Periodic Review

- 5.1.1 The RERP Plan shall be reviewed annually. The RERP Supervisor is responsible for ensuring that the Plan is periodically reviewed as required by this procedure.
- 5.1.2 The RERP Supervisor shall designate a person to conduct the periodic review. If someone outside the RERP group is designated as the reviewer, the RERP Supervisor will assign a RERP staff member to serve as Plan Coordinator to insure the proper review of the Plan as specified in this procedure.
- 5.1.3 The reviewer assigned shall review the Plan and recommend changes which are required as a result of the following considerations (as a minimum):
 - 1. Written critiques and evaluations of drills and exercises, especially recommended corrective actions.
 - 2. Changes in company or plant organization.
 - 3. Changes in function or organization of support agencies, including necessary revisions to letters of agreement.

4. Changes in State or Federal regulations or regulatory guidance.
5. Changes in State or local emergency plans.
6. Modifications to the plant or site which could affect emergency planning, including modifications to plant systems, emergency equipment, emergency facilities, etc.
7. Changes to Technical Specifications.
8. Recommendations from other organizations, such as State and Federal agencies and other utilities.
9. Changes in construction or operating status.
10. Significant changes in areas surrounding the site, such as changes in population density or land usage.
11. Changes in capabilities of supporting organizations, including local hospitals, ambulance services, fire department, etc.
12. Changes in other plant operating or administrative procedures.

5.1.4 The reviewer shall document the results of the review in a letter to the RERP Supervisor. The letter shall state the areas reviewed (with those listed above, as a minimum), the results for each area, and the recommended changes.

5.1.5 If the review indicates that minor changes are needed, the reviewer shall formalize the proposed changes and submit changes for review to the RERP Supervisor.

5.1.6 If the review indicates that substantial changes are needed, a review committee shall be convened by the RERP Supervisor to develop the necessary changes. The review committee shall submit the necessary changes to the RERP Supervisor for review.

5.2 Immediate Review

5.2.1 If any of the considerations listed in Step 5.1.3 are significant enough that an immediate review of the plan is prudent, the RERP Supervisor shall designate a person to conduct a review as discussed in Section 5.1.2.

5.2.2 The review will be conducted as prescribed in Sections 5.1.3 through 5.1.6.

5.3 Review by the Nuclear Safety Review Group (NSRG)

The NSRG will arrange for an independent audit of the Fermi 2 RERP program to be conducted annually. The audit shall address all aspects of the RERP program including the Plan, implementing and administrative procedures, training, readiness testing, equipment, and interfaces with State and local government agencies. The NSRG will review any proposed changes and will submit recommendations in accordance with Section 6.0 of this procedure.

6.0 Revision of the Emergency Plan

6.1 Submission and Approval

- 6.1.1 The Reviewer/Plan Coordinator shall forward the proposed changes to the RERP Clerk.
- 6.1.2 The RERP Clerk shall attach a Radiological Emergency Response Preparedness Plan Change Submittal Form (Attachment 1) to each change, file a copy of the change in the Master File, and forward the original with the Submittal Form to the Reviewer/Plan Coordinator.
- 6.1.3 The Reviewer/Plan Coordinator shall forward the change to the RERP Supervisor. If the RERP Supervisor deems the change appropriate it is forwarded to the Radiological Emergency Response Preparedness Committee (RERP Committee) for review.
- 6.1.4 The RERP Committee shall indicate their approval on the applicable Change Submittal Form (Attachment 1) for each change, and forward all recommended changes to the RERP Supervisor.
- 6.1.5 The RERP Supervisor shall submit all revisions to the Vice President - Nuclear Operations for approval.
- 6.1.6 The Vice President - Nuclear Operations shall indicate approval on the applicable Change Submittal Form (Attachment 1) for each change and forward all recommended changes to the RERP Supervisor.
- 6.1.7 The RERP Supervisor shall forward the original changes to the RERP Clerk who shall have a new master prepared. The RERP Supervisor shall also determine if changes to

the RERP procedures are warranted and initiate changes in accordance with EPA-1 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control, and Distribution).

NOTE: A copy of the previously approved revision(s) shall be maintained in the Master File.

- 6.1.8 All pages of the revised RERP Plan shall reflect the latest revision number. Portions changed will be indicated by the revision number and a vertical line in the right margin. Only the last revision need be indicated in the margin.
- 6.1.9 The RERP Clerk shall file the Change Submittal Forms in the Master File with the approved original and all related documentation indicating that the modification was incorporated.
- 6.1.10 The RERP Clerk shall submit the approved revisions to Document Control for distribution as specified in 12.000.40, "Management of Controlled Documents."
- 6.1.11 If the RERP Supervisor deems a change inappropriate, the reason shall be noted on the applicable Change Submittal Form and forwarded to the Manager - Nuclear Operations for review.
 - 1. If the Vice President - Nuclear Operations concurs with the decision of the RERP Supervisor, it shall be noted on the Change Submittal Form and returned to the RERP Supervisor, who shall forward the change to the RERP Clerk. The RERP Clerk shall log the return, have the change inserted in the Master File and have the copy already in the Master File removed and destroyed.
 - 2. If the Vice President - Nuclear Operations deems the change appropriate, it shall be noted on the Change Submittal Form and the original proposed change returned to the RERP Supervisor, who shall proceed in accordance with Section 6.1.1.

6.2 RERP Procedures

RERP Implementing and Administrative Procedures shall be revised in accordance with EPA-1 (Procedure Preparation, Review, Approval, Change, Revision, Cancellation, Control, and Distribution) to reflect any changes in the RERP Plan. The RERP Plan Procedures are also reviewed and revised, independent of the RERP Plan review, in accordance with EPA-2 (Periodic Review of Emergency Plan Procedures).

6.3 Off-Site Agencies and Support Groups

6.3.1 If changes to the RERP Plan affect State or local emergency plans, emergency plans for off-site support agencies, letters of agreement, or procedures for contractors or support groups, the changes shall be submitted to the appropriate groups for their review and action. Off-site agencies or support groups shall be responsible for making necessary revisions to their plans and procedures and apprising their personnel of these changes.

6.3.2 The RERP Supervisor shall ensure that updated letters of agreement are prepared as necessary.

6.4 Training

The RERP Supervisor shall apprise the Director - Nuclear Training of changes in the RERP Plan. All changes shall be incorporated into training and qualification programs, as appropriate.

7.0 Distribution

The RERP Plan shall be maintained and distributed as specified in procedures EPA-3, "Review and Revision of the Radiological Emergency Response Plan" and 12.000.40, "Management of Controlled Documents".

Date _____

RADIOLOGICAL EMERGENCY RESPONSE PREPAREDNESS PLAN
CHANGE SUBMITTAL FORM

Reason for Change: _____

Prepared by: _____ Date _____

Submitted by: _____ Date _____

Approved:

RERP Supervisor: _____ Date _____

RERP Committee: _____ Date _____

Communication System Division

_____ Date _____

Community and Government Affairs

_____ Date _____

Medical Staff

_____ Date _____

Nuclear Administration

_____ Date _____

Nuclear Production

_____ Date _____

Nuclear Training

_____ Date _____

Public Information

_____ Date _____

Security

_____ Date _____

Wayne-Monroe Division

_____ Date _____

RERP Committee Chairperson

Vice-President - Nuclear Operations: _____ Date _____

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: DRILLS AND EXERCISES

RECORD OF APPROVAL AND CHANGES

Prepared by E. F. Madsen 8/11/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational
Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear
Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor- Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
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Typed by: Diane Kaper (RERP 13)
Revised by: Karen Nutt

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: DRILLS AND EXERCISES

Prepared by	<u>E. F. Madsen</u>	<u>8/11/83</u>
		Date
Recommended by	<u>Donald Inoe Kenzie</u>	<u>8-18-83</u>
	Communication System Division	Date
Recommended by	<u>James L Jones</u>	<u>8-18-83</u>
	Community & Government Affairs	Date
Recommended by	<u>M. Earl for L. S. Shurman</u>	<u>8/19/83</u>
	Licensing	Date
Recommended by	<u>Stephen H. Duman</u>	<u>8/18/83</u>
	Medical Staff	Date
Recommended by	<u>James M. DuBay</u>	<u>8-18-83</u>
	Nuclear Administration	Date
Recommended by	<u>Stephen H. Duman</u>	<u>8-23-83</u>
	Nuclear Production	Date
Recommended by	<u>Karen K. Thompson</u>	<u>8-18-83</u>
	Nuclear Training	Date
Recommended by	<u>Bert Hefner</u>	<u>8-18-83</u>
	Public Information	Date
Recommended by	<u>M. Earl for SHC</u>	<u>8-18-83</u>
	Security	Date
Recommended by	<u>Maurice Wermel</u>	<u>8/18/83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Randazzo</u>	<u>8/18/83</u>
	RERP Committee Chairperson	Date
Revision No.	RERP Committee Chairperson Approved	Date

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6.0 Master Drill/Exercise File	7
7.0 Conducting Drills and Exercises.	7

Enclosures

Drill/Exercise Record Form.Attachment 1
Drill/Exercise Evaluation Form (Facility)Attachment 2
Drill/Exercise Evaluation Form (Team)Attachment 3
Post-Drill/Exercise Critique FormAttachment 4

1.0 Purpose

This procedure describes the program for planning and conducting drills and exercises. Drills and exercises are periodically conducted to train and to test emergency response personnel. Drills and exercises also help evaluate the practicality and effectiveness of the Radiological Emergency Response Preparedness Plan and supporting procedures.

2.0 Applicability and Definitions

2.1 Applicability

This procedure will be used by personnel who are assigned to develop, plan, schedule, conduct, and evaluate emergency preparedness drills and exercises.

2.2 Definitions

2.2.1 Drill

A DRILL is a supervised event aimed at evaluating, developing, and maintaining skills in a particular operation within the Emergency Response Organization.

2.2.2 Exercise

An EXERCISE is an event which tests the overall functions and capabilities of organizations involved in responding to an emergency situation. An exercise simulates an emergency that results in off-site radiological releases which require response by off-site authorities.

2.2.3 Controller

A CONTROLLER is a member of an exercise control group. Each Controller may be assigned to one or more activities or functions for the purpose of keeping the action going according to a scenario, resolving differences (acting as an umpire), supervising, and otherwise assisting as needed.

2.2.4 Evaluator

An EVALUATOR is a member of an exercise evaluation group. He or she may also serve in a dual capacity as both a Controller and Evaluator. Each Evaluator may be assigned to one or more activities or functions for the purpose of evaluating, recording, critiquing, and making recommendations for improvement.

3.0 References

- 3.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan Section N (Exercises and Drills) and Section O (Radiological Emergency Response Training)
- 3.2 Criteria for Preparation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG-0654)
- 3.3 Emergency Plan Training Program (EPA-8)

4.0 Requirements and Responsibilities in Planning and Conducting Drills and Exercises

4.1 Responsibilities

- 4.1.1 The Supervisor of Radiological Emergency Response Preparedness (Supervisor - RERP) is responsible for the following:

- 1. Ensuring accomplishment of the minimum number of drills required by the Radiological Emergency Response Preparedness Plan (RERP Plan).
- 2. Coordinating with the Director - Nuclear Training to ensure a training program of drills and seminars.
- 3. Coordinating with the Superintendent - Nuclear Production, Director - Nuclear Security, other organizations in Edison, and off-site agencies in planning and scheduling drills and exercises.
- 4. Coordinating with the Director - Nuclear Training to ensure that qualification requirements for Emergency Response Organization personnel are met, as delineated in EPA-8 (Emergency Plan Training Program).
- 5. Assigning RERP personnel to coordinate drills/exercises.
- 6. Assigning follow-up and corrective actions resulting from drills and exercises.
- 7. Reviewing and approving drill/exercise scenarios.

4.1.2 The Director - Nuclear Training is responsible for the following:

1. Coordinating with the Supervisor - RERP to ensure an acceptable RERP training program.
2. Coordinating with the Supervisor - RERP to ensure that qualification requirements for Emergency Response personnel and drill staff personnel are met, as delineated in EPA-8 (Emergency Plan Training Program).
3. Maintaining qualification records to properly document performance of personnel in drills and exercises.
4. Maintaining qualified instructors.

4.1.3 The Superintendent - Nuclear Production is responsible for coordinating with the Supervisor - RERP to accomplish the following:

1. Scheduling drills and exercises and ensuring that plant staff personnel are available to control and evaluate drills and exercises.
2. Ensuring adequate participation by plant staff personnel to maintain a proper level of emergency preparedness.

4.1.4 The RERP Group is responsible for the following:

1. Developing drill and exercise scenarios and developing necessary support materials.
2. Submitting names of qualified personnel to control and evaluate drills and exercises to the Supervisor - RERP.
3. Planning, conducting, and critiquing assigned drills.
4. Supervising and/or participating as Drill Controllers and Evaluators.
5. Monitoring progress of the drill or exercise and approving temporary changes to the scenario as appropriate to ensure meaningful training.
6. Maintaining drill and exercise records.

4.1.5 Drill/Exercise Controllers are responsible for the following:

1. Initiating drills and exercise events as specified in the scenario.
2. Observing conduct of the drill with specific attention to possible hazardous or unsafe conditions, and preventing hazardous or unsafe conditions from occurring.
3. For non-evaluated drills, coaching personnel to ensure maximum training effectiveness from the drill.

4.1.6 Drill/Exercise Evaluators are responsible for observing the conduct of the drill and recording comments as required on the applicable evaluation form.

4.2 As a minimum, the following drills and exercises will be conducted:

4.2.1 An integrated small-scale Exercise shall be held annually. This Exercise will be designed to involve full participation by the local off-site response organizations and partial participation by the State response organization. Exercise will be critiqued by observers from Federal agencies.

4.2.2 An integrated full-scale Exercise shall be conducted in accordance with 10 CFR 50, Appendix E. This Exercise will be designed to involve full participation by both State and local response organizations. The Exercise will be critiqued by observers from Federal agencies, as appropriate.

4.2.3 Communications

1. Communication drills are conducted monthly between Fermi 2 Emergency Response Facilities (ERFs) and the Michigan State Police and the Monroe County Sheriff; and quarterly with the Nuclear Regulatory Commission. Communications among all the ERFs and off-site organizations, including off-site monitoring teams, are also tested during the annual Exercise.
2. Communication drills shall test the applicable circuits; the ability of communicators to understand and transfer messages shall be evaluated during the annual Exercise.

4.2.4 Fire

Fire drills will be conducted quarterly. A fire drill involving the Frenchtown Volunteer Fire Department will be conducted annually.

4.2.5 Medical Emergency

Medical emergency drills, which simulate contaminated, injured individuals and provide for participation by local support agencies such as ambulance and hospital services, shall be conducted annually.

4.2.6 Radiological Monitoring

Radiological monitoring drills shall be conducted annually. These drills will include the collection and analysis of samples such as water, grass, soil, and air from the owner-controlled and nearby off-site areas.

4.2.7 Health Physics

Health physics drills, which involve analysis of simulated elevated airborne and liquid samples as well as direct radiation measurements in the environment, shall be conducted semi-annually. Analysis of in-plant liquid samples with simulated elevated radiation levels will be included in this drill annually.

4.3 Additional drills and exercises will be scheduled as necessary to provide adequate training of personnel to ensure an adequate level of emergency preparedness.

4.4 An actual emergency which meets the criteria of a required drill or exercise may be used to substitute for the required drill or exercise.

5.0 General Requirements for Drill and Exercise Scenarios

5.1 General Format

As a minimum, drill and Exercise scenarios shall contain the following:

5.1.1 Basic objective(s) of the drill or Exercise and appropriate evaluation criteria.

5.1.2 Time period, place(s) of the drill or Exercise, and the participating organizations.

- 5.1.3 Simulated events.
- 5.1.4 Time schedule of real and simulated initiating events.
- 5.1.5 Narrative summary which describes the conduct of the Exercise or drill and includes such items as simulated casualties, off-site fire department assistance, rescue of personnel, use of protective clothing, deployment of radiological emergency teams, and public information activities.
- 5.1.6 Assignments of qualified Drill or Exercise Controllers and Evaluators.
- 5.1.7 Messages and evaluation forms for use by the Drill or Exercise Controllers/Evaluators.
- 5.1.8 Observers from Federal, State, and local government agencies, as appropriate.

5.2 Exercise Scenarios

In addition to the requirements listed in Section 5.1, the following additional requirements are pertinent for Exercise scenarios:

- 5.2.1 Scenarios shall simulate an emergency that results in off-site radiological releases which require response by off-site authorities.
- 5.2.2 Scenarios will be varied from year to year so that over a five year period all major portions of the RERP and emergency response organization are tested.
- 5.2.3 Once every six years, the annual Exercise will be initiated between 6:00 p.m. and midnight and once between midnight and 6:00 a.m.
- 5.2.4 Exercises shall be conducted under various weather conditions.
- 5.2.5 Exercise scenarios will allow for free play and decision-making by participants. This may require optional flowpaths to be written into the scenario.
- 5.2.6 Annual Exercises will include an opportunity for mobilization of State and local agencies to verify their capability to respond to an accident involving an off-site radiological release. Periodic participation by Federal response organizations will be invited.

6.0 Master Drill/Exercise File

- 6.1 The Master File shall contain records for each drill or exercise conducted. Included will be a copy of the scenario used, the applicable completed Drill Exercise Record Form (Attachment 1), Drill Exercise Evaluation Forms (Attachments 2 and 3), Drill Exercise Critique Form (Attachment 4), drill participant lists and the formal written evaluation.
- 6.2 Maintenance of the Master File is the responsibility of the RERP Group. Access to the file shall be controlled to ensure that file material is not removed from the immediate vicinity. Copies of the material will be made when material is to be removed from the immediate vicinity.

7.0 Conducting Drills and Exercises

- 7.1 The Supervisor - RERP shall ensure the following are completed:
 - 7.1.1 Drill/Exercise Record Form (Attachment 1).
 - 7.1.2 Drill/Exercise Evaluation Forms (Attachments 2 and 3).
 - 7.1.3 Drill/Exercise Critique Form (Attachment 4).
 - 7.1.4 Formal written evaluation of the Drill/Exercise.
 - 7.1.5 Written notifications to off-site agencies in advance of the Drill/Exercise.
 - 7.1.6 A Pre-Drill/Exercise conference with Controllers, Evaluators, representatives of participating off-site organizations, and other drill staff personnel. A conference is not required for communication drills. The scenario shall be discussed, as well as the conduct of the drill, necessary precautions, and safety considerations.
 - 7.1.7 As soon as possible after the Drill/Exercise is completed, a Post-Drill/Exercise Critique (Attachment 4).
 - 7.1.8 Assignment of responsibilities for corrective actions to ensure that such corrective actions are made within the established deadlines.
- 7.2 If, during the conduct of a drill, the safety of personnel or equipment is jeopardized, the drill shall be terminated until a safe condition is reached.
- 7.3 For all Exercises, the written evaluation shall be forwarded to the RERP Committee and the Vice President - Nuclear Operations.

DRILL/EXERCISE RECORD FORM

(To be completed by the Supervisor of Radiological Emergency Response Preparedness)

1. Title of Drill/Exercise: _____
2. Scenario Number: _____
3. Other drills/exercises to be conducted simultaneously: _____
4. Scheduled date: _____
Start Time: _____
Estimate Completion Time: _____
5. Assigned Drill/Exercise Coordinator: _____
6. Controllers required:

<u>Location</u>	<u>Name</u>
7. Evaluators required:

<u>Location</u>	<u>Name</u>
8. Off-site organizations participating (advance materials should be forwarded to official observers from Federal, State and local government agencies):
9. Non-participating off-site organizations which should be notified:

Supervisor-Radiological (Date)
Emergency Response Preparedness

DRILL/EXERCISE EVALUATION FORM (FACILITY)

Facility or Group _____ (See Attached Attendance Record)

Time/Date _____

Evaluator _____

Subject: _____

Comments: _____

Activation

- ☐ Timeliness
- ☐ Organization
- ☐ Equipment

Use of Procedures

- ☐ Proper Procedures
- ☐ Following Steps
- ☐ Completing Procedure

Communication

- ☐ Use of Equipment
- ☐ Proper Communication
Procedures
- ☐ Accuracy
- ☐ Timeliness

Technical Advisors

- ☐ Technical Knowledge
- ☐ Use of Available
Resources
- ☐ Team Work

DRILL/EXERCISE EVALUATION FORM (FACILITY)
(Continued)

Subject: _____

Comments: _____

Radiological Advisors

- o Technical Knowledge
- o Use of Available
Resources
- o Team Work

Security Advisor

- o Coordination of
Security
- o Team Work

Facility Administration

- o Record Keeping
- o Filing System
- o Logistics Support

Operations

- o Overall Teamwork
- o Performance of Duties

Leadership

- o Taking Charge of the Facility
- o Coordination with Other
Organizations
- o Overall Control

Overall Comments

(Use back of sheet or
additional sheet if necessary)

DRILL/EXERCISE EVALUATION FORM (TEAM)

Facility or Group _____ (See Attached Attendance Record)

Time/Date _____

Evaluator _____

Subject: _____

Comments: _____

Activation

- ☐ Timeliness
- ☐ Organization
- ☐ Equipment

Use of Procedures

- ☐ Proper Procedures
- ☐ Following Steps
- ☐ Completing Procedure

Communication

- ☐ Use of Equipment
- ☐ Proper Communication
Procedures
- ☐ Accuracy
- ☐ Timeliness

Use of Equipment

- ☐ Radiological/Protective
Equipment
- ☐ Special Team Equipment
- ☐ Other Tools

DRILL/EXERCISE EVALUATION FORM (TEAM)
(Continued)

Subject: _____

Comments: _____

Technical Knowledge

- o Plant Knowledge
- o Health Physics
- o Team Related

Operations

- o Teamwork
- o Leadership
- o Performance of Duties

Overall Comments

(Use back of sheet or
additional sheet if necessary)

POST-DRILL/EXERCISE CRITIQUE FORM

1. Post-Drill Critique held:

(Date and Time)

(Location)

2. Personnel

a. Personnel deficiencies (ability to evaluate and respond to the emergency, ability to execute procedures, apparent adequacy of training, etc. Note that communications deficiencies are discussed in Section 5):

b. Recommended corrective actions (additional training, etc.):

c. Evaluation:

Excellent

Good

Satisfactory

Unsatisfactory

3. Procedures

a. Deficiencies in Emergency Plan or in procedures:

b. Recommended corrective actions (changes to procedures, etc.)

c. Evaluation:

Excellent

Good

Satisfactory

Unsatisfactory

4. Equipment

a. Equipment deficiencies (equipment failure, lack of emergency equipment, improper storage, inadequacy of equipment or tools, etc. Note that deficiencies in communications equipment are discussed in Section 5):

b. Recommended corrective actions:

c. Evaluation:

Excellent Good Satisfactory Unsatisfactory

5. Communications

a. Communications deficiencies (improper or unclear communications, inadequacy of communication equipment or systems, etc.):

b. Recommended corrective actions:

c. Evaluation:

Excellent Good Satisfactory Unsatisfactory

6. Scenario for Drill/Exercise

a. Changes to scenario required:

b. Deficiencies in the drill/exercise scenario, number or placement of monitors, monitoring or management of drill/ exercise, communications between monitors and Drill/Exercise Coordinator, etc.:

c. Recommended corrective actions:

d. Evaluation:

Excellent Good Satisfactory Unsatisfactory

7. Overall Evaluation

Excellent	Good	Satisfactory	Unsatisfactory
(Attach written evaluation)			

8. Corrective Action Follow Up:

Action

Assigned to

Completion Date

9. Corrective Action Assignments Input to Tracking Program: _____

Approved: _____
Supervisor, RERP

(To Be Filed In Master File)

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: EMERGENCY EQUIPMENT INVENTORY

Prepared by	K. Connell	5/04/83
		Date
Recommended by	Donald Smae Kenzie	5-31-83
	Communication System Division	Date
Recommended by	James L. Jones Jr.	6/24/83
	Community & Government Affairs	Date
Recommended by	James P. Cooper	6-22-83
	Insurance	Date
Recommended by	Larry E. Scherman	6/17/83
	Licensing	Date
Recommended by	Mahmud Syed M.D.	6/22/83
	Medical Staff	Date
Recommended by	James J. Lane	5/31/83
	Nuclear Administration	Date
Recommended by	Sherry R. Churlock	5-31-83
	Nuclear Production	Date
Recommended by	John B. Meredith Jr.	5/31/83
	Nuclear Training	Date
Recommended by	Bert Heffner / Adam Rogers	5/31/83
	Public Information	Date
Recommended by	John H. Leach	5-31-83
	Security	Date
Recommended by	Maurice L. Vermeulen	5/31/83
	Wayne-Monroe Division	Date
Approved by	Thomas Randazzo	5/31/83
	RERP Committee Chairperson	Date
Revision No.	RERP Committee Chairperson Approved	Date

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EMERGENCY EQUIPMENT INVENTORY

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List of Emergency Equipment - Fire Department.....Attachment 3
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1.0 Purpose

The purpose of this procedure is to provide for the periodic inventory of emergency equipment and documentation listed in this procedure to ensure availability and proper maintenance of the equipment.

2.0 Applicability

This procedure shall be used by personnel who are responsible to, or assigned to, maintain or inventory emergency equipment.

3.0 References

- 3.1 Enrico Fermi Atomic Power Plant Unit 2, Radiological Emergency Response Preparedness Plan, Section H (Emergency Facilities and Equipment)
- 3.2 On-Site Radiological Emergency Team: Functions (EP-201-2)
- 3.3 On-Site Personnel Monitoring Team: Functions (EP-202-2)
- 3.4 Fire Brigade: Fire Involving Radiological Hazards (EP-203-2)
- 3.5 Damage Control and Rescue Team: Activation (EP-204-1)
- 3.6 Off-Site Radiological Emergency Team: Activation (EP-210-1)
- 3.7 Technical Support Center: Activation (EP-301-1)
- 3.8 Operational Support Center: Activation (EP-302-1)
- 3.9 Emergency Operations Facility: Activation (EP-303-1)
- *3.10 Health Physics Emergency Kits (69.000.25)

4.0 Responsibilities

- 4.1 The Supervisor of Radiological Emergency Response Preparedness (Supervisor-RERP) shall have overall responsibility to ensure that emergency response facilities are properly inventoried and maintained in accordance with the RERP Plan and Procedures.
- 4.2 The General Supervisor, Health Physics, shall be responsible for ensuring that all Health Physics emergency equipment is properly inventoried and maintained.

- 4.3 The Superintendent-Nuclear Production shall be responsible for ensuring that all Technical Support Center equipment is properly inventoried and maintained.
- 4.4 The Maintenance Engineer shall be responsible for ensuring that all Operational Support Center equipment is properly inventoried and maintained.
- 4.5 The Director-Nuclear Administration, shall be responsible for ensuring that all required documentation in the Emergency Facilities is properly inventoried and maintained.
- 4.6 The Supervisor-RERP shall be responsible for ensuring all Emergency Operations Facilities' equipment is properly inventoried and maintained.
- 4.7 The General Supervisor-Nuclear Technology shall be responsible for ensuring that all changes to the radiological environmental monitoring program are transmitted to the Supervisor-RERP and shall be responsible for maintaining an inventory of all off-site sample locations and types.
- 4.8 The RERP Clerk shall maintain a file of all equipment lists and completed inventories.

5.0 Procedure

5.1 Inventory Interval

- 5.1.1 All emergency equipment and documentation listed in this procedure shall be inventoried at least semi-annually, unless otherwise stated herein.
- 5.1.2 Emergency equipment and documentation shall be inventoried immediately after its use in an emergency or for training purposes.
- 5.1.3 Emergency equipment shall be inventoried any time it is suspected that the emergency equipment has been tampered with, used for unauthorized purposes, or a kit is found unlocked or unsealed for an unknown reason.

5.2 Performing an Inventory

- 5.2.1 A complete inventory will consist of at least the following:
 - 1. A check for accountability and general condition of all listed items.

2. Operational check of all instruments.
3. Replacement of all calibrated instruments which will require calibration prior to the next scheduled inventory.
4. Replacement of all damaged, inoperable, or missing items.
5. Replacement of all non-rechargeable batteries every six months.
6. Documentation of all deficiencies and corrective actions.

- 5.2.2 If the emergency equipment has been kept in a sealed, locked kit since the last inventory, step 1 of 5.2.1 need not be conducted, except that a complete inventory must be conducted annually.
- 5.2.3 If an equipment kit is opened for inspection only, an inventory need not be conducted.
- 5.2.4 Health Physics emergency equipment will be inventoried and maintained in accordance with this procedure and Health Physics Procedure 69.000.25 (Health Physics Emergency Kits).

5.3 Documentation

- 5.3.1 The inventory will be documented on the applicable equipment list by the person assigned to conduct the inventory.
- 5.3.2 Equipment lists are included in Attachments 1 through 8 of this procedure.
- 5.3.3 All inventories shall be reviewed by the individual responsible for the inventory (see section 4.0) and the Supervisor-RERP, and forwarded to the RERP Clerk for filing.
- 5.3.4 All completed inventories shall be maintained on file for a minimum of two years.

EMERGENCY PLAN IMPLEMENTING PROCEDURES
CONTAINING EXAMPLES OF EMERGENCY EQUIPMENT LISTS

1. On-Site Radiological Emergency Team: Activation (EP-201-1)
2. On-Site Personnel Monitoring Team: Functions (EP-202-2)
3. Fire Brigade: Fire Involving Radiological Hazards (EP-203-2)
4. Damage Control and Rescue Team: Activation (EP-204-1)
5. Off-Site Radiological Emergency Team: Activation (EP-210-1)
6. Technical Support Center: Activation (EP-301-1)
7. Operational Support Center: Activation (EP-302-1)
8. Emergency Operations Facility: Activation (EP-303-1)

LIST OF EMERGENCY EQUIPMENT - AMBULANCE KIT

<u>ITEM</u>	<u>QUANTITY</u>	<u>QUANTITY AVAILABLE</u>
1. Set of Selected Procedures	1	_____
2. Battery Powered Air Sampler (Radeco H-809C)	1	_____
a) Extra sampler heads	1	_____
b) Particulate filters	10	_____
c) Silver Zeolite Cartridges	10	_____
3. Frisker (RM-14 or Ludlum 177)	1	_____
a) Extra probe and cable	1	_____
4. Dose Rate Meter (RO-2 or E-520)	1	_____
5. Rull face Respirators	4	_____
a) Sets of cartridges per respirator	2	_____
6. TLD's (Personnel)	6	_____
7. Personnel Dosimeters (200 or 500 mR range)	6	_____
8. Dosimeter Charger (With extra battery)	1	_____
9. Envelopes and/or Bags for Samples	App. 100	_____
10. Lables for Samples	App. 200	_____
11. Boxes of Smears	4	_____
12. Survey Forms	App. 25	_____
13. Log Book	1	_____
14. KI Tablets	1 Bot.	_____
15. Paper Clothing Sets (To include: hood, coveralls, cotton glove liners, plastic gloves, plastic shoe covers, surgeons cap)	6	_____
a) Extra plastic gloves	25 Pr.	_____
16. Rolls Poly Sheeting	1	_____

	<u>ITEM</u>	<u>QUANTITY</u>	<u>QUANTITY AVAILABLE</u>
17.	Flashlight	1	_____
	a) Extra Batteries	2	_____
18.	Check Source	1	_____

REMARKS: _____

Performed By: _____ Date _____

Reviewed By: _____ Date _____

LIST OF EMERGENCY EQUIPMENT - HOSPITAL

<u>ITEM</u>	<u>QUANTITY</u>	<u>QUANTITY AVAILABLE</u>
1. Frisker (RM-14 or Ludlum 177)	2	_____
a) Extra probe and cable	1	_____
2. Portable Air Sampler (High Volume)	1	_____
a) Extra sampler heads	1	_____
3. Portable Air Sampler (Low Volume)	1	_____
a) Extra Air sampler heads	1	_____
b) Particulate filters	App. 50	_____
c) Silver Zeolite cartridges	20	_____
4. Dose Rate Meter (E-520 or equivalent)	2	_____
5. Boses of Smears	6	_____
6. Envelopes and/or Bags for Samples	App. 100	_____
7. KI Tablets	6 Bot.	_____
8. Personnel Dosimeters (200 or 500 mR Range)	6	_____
9. TLD's (personnel)	6	_____
10. Dosimeter Charger (With extra battery)	1	_____
11. Assorted Radiation Signs	10	_____
12. Cylindrical Lead Shield	1	_____
13. Partial Sets of Protective Clothing (to include: cotton glove liners, plastic liners, plastic gloves, plastic shoe covers)	50	_____
14. Paper Clothing Sets (Hospital type)	12	_____
15. Herculite (or equivalent)	Sufficient Amount to Cover Emergency Area	_____
16. Radiation Barrier	App. 100 ft.	_____

<u>ITEM</u>	<u>QUANTITY</u>	<u>QUANTITY AVAILABLE</u>
17. Labels for Samples	App. 100	_____
18. Decontamination Kit (For contaminated personnel)	1	_____
19. Wound Monitor Adapter	1	_____
20 Check Source	1	_____

REMARKS: _____

Performed By: _____ Date _____
Reviewed By: _____ Date _____

LIST OF EMERGENCY EQUIPMENT - FIRE DEPARTMENT

<u>ITEM</u>	<u>QUANTITY REQUIRED</u>	<u>QUANTITY AVAILABLE</u>
1. Personnel Dosimeters (1 R range)	5	_____
2. Personnel Dosimeters (5 R range)	5	_____
3. TLD's (Personnel)	10	_____
4. Dose Rate Meter (R0-2 or Equivalent)	1	_____
5. Frisker (RM-124 or Ludlum 177)	1	_____

REMARKS: _____

Performed By: _____ Date _____

Reviewed By: _____ Date _____

LIST OF EMERGENCY EQUIPMENT DECONTAMINATION KIT

<u>ITEM</u>	<u>QUANTITY</u>	<u>QUANTITY AVAILABLE</u>
1. Set of Decontamination Procedures (see POM Index)	1	
2. Frisker Eberline RM14 or Ludlum 77	4	
3. Radiation survey meter (RO-2)	1	
4. Large waste receptacles	3	
a. Plastic liners	100	
5. Portable sink (draining to a 35 gallon poly. bottle)	1	
a. Spare bottles	6	
6. Roll of 4 mil. plastic sheeting	1	
7. Quart bottles of Phisoderm	6	
8. Case of Scott paper towels	1	
9. Electric razor	1	
10. Hair clippers	1	
11. 150 foot rolls of barrier rope	1	
12. Boxes of pairs of surgical gloves	6	
13. Cotton swabs	1000	
14. Scrub brushes	2	
15. Masking tape, 3/4" (rolls)	3	
16. Assorted plastic bags	Assortment	

REMARKS: _____

Performed by: _____ Date: _____

Reviewed by: _____ Date: _____

LIST OF EMERGENCY EQUIPMENT - OFF-SITE RET KITS

<u>ITEM</u>	<u>QUANTITY</u>	<u>QUANTITY AVAILABLE</u>
1. Set of Procedures for Obtaining Environmental Samples	1	_____
2. Radeco H809C Battery Powered Air Sampler	1	_____
a) Extra Air Sampler Heads	2	_____
b) Particulate Filters	20	_____
c) Silver Zeolite cartridges	20	_____
3. Frisker (RM-14 or Ludlum 177)	1	_____
4. Dose Rate Meter (RO-2 or Equivalent)	1	_____
5. TLD's (Personnel)	4	_____
6. TLD's (Environmental)	20	_____
7. Personnel Dosimeters (200 or 500 mR range)	4	_____
8. Dosimeter Charger (With extra Battery)	1	_____
9. Envelopes and Bags for Samples	App. 100	_____
10. Labels for Samples	App. 200	_____
11. Boxes of Smears	4	_____
12. Micro R-Meter (12S or Equivalent)	1	_____
1) Serial # _____ Cal. Due Date _____		
13. Survey Forms	App. 100	_____
14. Log Book	1	_____
15. Paper Clothing Sets (To Include: Hood, Coveralls, Plastic Shoe Covers, Cloth Glove Liners, Plastic Gloves, Surgeons Cap)	6	_____

ITEM	QUANTITY	QUANTITY AVAILABLE
16. KI Tablets	1 Bot.	_____
17. Assorted Wriring Implements	12	_____
18. Rolls of Masking Tape	1	_____
19. Baggies (Zip lock)	App. 1 Box	_____
20. Timer or Watch	2	_____
21. Plastic Sample Bottles	2	_____
22. Plastic Bags (Clear - 5 Gallon)	12	_____
23. Flashlight	2	_____
a) Extra Batteries	2	_____
24. Check Source	1	_____
25. Change	\$1	_____
26. EOF Radio Operator	1 Copy	_____
Phone# _____		

REMARKS _____

Performed by: _____ Date: _____

Reviewed by: _____ Date: _____

LIST OF EMERGENCY EQUIPMENT - TECHNICAL SUPPORT CENTER

	<u>ITEM</u>	<u>QUANTITY</u>	<u>QUANTITY AVAILABLE</u>
1.	Frisker (RM-14 or Ludlum 177)	2	_____
2.	Portable Air Sampler (High Volume)	1	_____
	a) Extra Air Sampler Heads	2	_____
3.	Portable Air Sampler (Low Volume)	1	_____
	a) Extra Air Sampler Heads	2	_____
	b) Particulate Filters	App. 50	_____
	c) Silver Zeolite Cartridges	20	_____
4.	Dose Rate Meter (RO-2 or Equivalent)	1	_____
5.	Dosimeter Charger (With Extra Battery)	1	_____
6.	Personnel Dosimeters (200 or 500 mR Range)	25	_____
7.	Personnel Dosimeters (5 R Range)	10	_____
8.	Portable Area Radiation Monitors (May Be W ll Mounted)	1	_____
9.	Full Sets of Protective Clothing (To include: Coveralls, Cloth Hoods, Plastic Shoe Covers, Rubber Shoe Covers, Cloth Glove Liners, Plastic Gloves, Rubber Gloves, Surgeons Cap)	30	_____
10.	Full Face Respirators	6	_____
	a) Sets of Cartridges per Respirator	3	_____
11.	Rolls of Masking Tape	5	_____
12.	Bags For Samples	App. 50	_____
13.	KI Tablets	6 Bot.	_____
14.	Plastic Bags (Clear - 5 Gallon)	12	_____
15.	Flashlight	6	_____
	a) Extra Batteries	12	_____

	<u>ITEM</u>	<u>QUANTITY</u>	<u>QUANTITY AVAILABLE</u>
	Check Source	1	_____
16.	Scott Air Paks	30	_____
	a. Extra Bottles	60	_____

REMARKS: _____

Performed By: _____ Date: _____

Reviewed By: _____ Date: _____

LIST OF EMERGENCY EQUIPMENT - OPERATIONAL SUPPORT CENTER

Check that the following equipment is available and functional:

<u>ITEM</u>	<u>QUANTITY</u>	<u>QUANTITY AVAILABLE</u>
1. Set of Emergency Plan Implementing Procedures	1	_____
2. Frisker (RM-14 or Ludlum 177)	6	_____
3. Plastic Bags (Clear - 5 Gallon)	App. 50	_____
4. Dose Rate Meters (RO-2 or Equivlent)	6	_____
5. Dosimeter Charger (With extra battery)	2	_____
6. Personnel Dosimeters (500 or 1000 mR range)	20	_____
7. Portable Air Sampler and Sample Head	5	_____
a) Extra air sampler heads	5	_____
b) Particulate filters	200	_____
c) Silver Zeolite cartridges	50	_____
d) Bags and labels for air samples	App. 50	_____
8. Portable area radiation monitors	1	_____
9. Survey Forms	App. 200	_____
10. Log Books	10	_____
11. Clip Boards	10	_____
12. Boxes of Black Pens	12	_____
13. Boxes of Grease Pencils	12	_____
14. 150 Foot Rolls of Radiation Barrier	10	_____
15. Caution Signs and Assorted Inserts	20	_____
16. Full Sets of Protective Clothing (To include: Coveralls, Cloth Hoods, Plastic Shoe Covers, Rubber Shoe Covers, Cloth Glove Liners, Plastic Gloves, Rubber Gloves, Surgeons Cap.	30	_____

<u>ITEM</u>	<u>QUANTITY</u>	<u>QUANTITY AVAILABLE</u>
17. Partial Set of Protective Clothing (To include: Cotton Glove Liners, Plastic Gloves, Plastic Shoe Covers)	50	_____
18. Rolls of Masking Tape	50	_____
19. Boxes of Smears	40	_____
20. Step-Off Pads	10	_____
21. Large Plastic Gags	App. 50	_____
22. Full Face Respirators (With extra Filters)	10	_____
23. Flashlights	5	_____
a) Extra batteries	10	_____
24. Check Source	1	_____

REMARKS: _____

Performed By: _____ Date _____

Reviewed By: _____ Date _____

LIST OF EMERGENCY EQUIPMENT - EMERGENCY OPERATIONS FACILITY

	<u>ITEM</u>	<u>QUANTITY</u>	<u>QUANTITY AVAILABLE</u>
1.	Frisker (RM-14 or Ludlum 177)	1	_____
2.	Portable Air Sampler	1	_____
	a. Extra heads	2	_____
	b. Particulate filters	App. 50	_____
	c. Silver Zeolite cartridges	20	_____
3.	Dose Rate Meter (RO-2 or Equivlent)	1	_____
4.	Dosimeter Charger (With extra battery)	1	_____
5.	Personnel Dosimeters (200 or 500 mR range)	15	_____
6.	Smear Envelopes	App. 100	_____
7.	Sample Bags	App. 50	_____
8.	Boxes of Smears	6	_____
9.	Micro R-Meter (12S or equivalent)	1	_____
10.	KI Tablets	1 Bot.	_____
11.	Plastic Bags (Clear - 5 Gallon)	12	_____
12.	Flashlight	1	_____
	a. Extra batteries	2	_____
13.	TLD's (Personnel)	15	_____
14.	Full sets of Protective Clothing (To include: Coveralls, Cloth Hoods, Plastic Shoe Covers, Rubber Shoe Covers, Cloth Glove Liners, Plastic Gloves, Rubber Gloves, Surgeons Cap.)	30	_____
15.	Check Source	1	_____

LIST OF EMERGENCY EQUIPMENT - EMERGENCY OPERATIONS FACILITY
(Cont'd)

REMARKS: _____

Performed by: _____ Date: _____

Reviewed by: _____ Date: _____

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: RERP TELEPHONE DIRECTORY: REVIEW AND UPDATE

RECORD OF APPROVAL AND CHANGES

Prepared by Michael J. Cooley June 8, 1983
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E H Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by DILT 8/23/83
OSRO Chairman/Alternate Date
Approved by DILT 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1								
2								
3								
4								
5								
6								
7								
8								



CONTROLLED

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: RERP TELEPHONE DIRECTORY: REVIEW AND UPDATE

Prepared by	Michael J. Cooley	June 8, 1983
		Date
Recommended by	Donald J. MacKenzie	6-30-83
	Communication System Division	Date
Recommended by	James L. Jones	7-7-83
	Community & Government Affairs	Date
Recommended by	J.P. Cooper	6-30-83
	Insurance	Date
Recommended by	Larry E. Schuyman	6/30/83
	Licensing	Date
Recommended by	Mahmoud Ezzed, M.D.	6/30/83
	Medical Staff	Date
Recommended by	James J. Scavia	6/30/83
	Nuclear Administration	Date
Recommended by	Steve R. Chabot	6-30-83
	Nuclear Production	Date
Recommended by	Edward J. Dwyer	6-30-83
	Nuclear Training	Date
Recommended by	Bartholomew A. H. Rogers	6-30-83
	Public Information	Date
Recommended by	Stuart H. Zeech	6-30-83
	Security	Date
Recommended by	Maria L. Lickert	6/30/83
	Wayne-Monroe Division	Date
Approved by	Thomas Randazzo	6/30/83
	RERP Committee Chairperson	Date

Revision
No.

REPP Committee
Chairperson Approved

Date

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Attachments

RERP Telephone Directory Review Checklist. . . .Attachment 1

1.0 Purpose

To provide guidelines for the quarterly review and update of the RERP Telephone Directory.

2.0 Applicability

This procedure shall be used by the Rerp Clerk to maintain, review, and amend the RERP Telephone Directory.

3.0 References

- 3.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan.
- 3.2 Emergency Notifications from the Control Room, Technical Support Center or Emergency Operations Facility (EP-290).
- 3.3 Drills and Exercises (EPA-4).

4.0 Directory Review and Revision

4.1 Review Interval

- 4.1.1 The RERP Telephone Directory shall be reviewed and updated at least quarterly.
- 4.1.2 Revision of the RERP Telephone Directory will occur as changes are made in the internal telephone network.

4.2 Directory Location and Accountability

- 4.2.2 Directories are stored as detailed in Attachment 1.
- 4.2.3 Following the quarterly review, the Rerp Clerk will verify that each directory listed in Attachment 1 is at its assigned location.

4.3 Review Methodology

- 4.3.1 Telephone numbers of all off-site organizations and agencies will be verified as operational via direct dial process. The Rerp Clerk will dial each number and verify that it is functional.
- 4.3.2 Intrafacility telephone numbers need to be reviewed only when lines are added to or deleted from the system.

- 4.3.3 Agencies and/or telephone numbers will be added to the directory as deemed necessary by the Supervisor, Radiological Emergency Response Preparedness.
- 4.3.4 Changes in the directory will be made on additional pages which will subsequently be delivered to each location and inserted there in order to ensure uninterrupted availability of the directory.

5.0 Review Verification and Records

- 5.1 Each reviewed and/or amended directory shall be stamped "Reviewed" and "(date)."
- 5.2 As directories are updated, the Emergency Planner will mark the date of review for each directory on the checklist provided in Attachment 1.

RERP TELEPHONE DIRECTORY REVIEW CHECKLIST

<u>LOCATION</u>	<u>NUMBER</u>	<u>REVIEW DATE</u>
Control Room	8	_____
Operational Support Center	2	_____
Alternate Operational Support Center	2	_____
Technical Support Center	20	_____
Emergency Operations Facility	20	_____
Joint Public Information Center	10	_____
Emergency Employee Communication Center	2	_____
Newport Warehouse	2	_____

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: EMERGENCY CALL-OUT LIST: REVIEW AND UPDATE

RECORD OF APPROVAL AND CHANGES

Prepared by Michael J. Cooley June 10, 1983
Date
Approved by Thomas Randazzo 8/22/83
Responsible Section Head Date
Recommended by E H Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

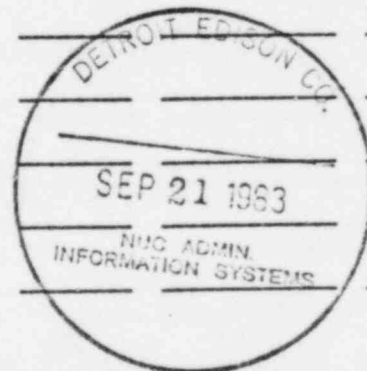
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by D/LT 8/23/83
OSRO Chairman/Alternate Date
Approved by D/LT 8/23/83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
2					*			
3					*			
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7					*			
8					*			

CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: EMERGENCY CALL-OUT LIST: REVIEW AND UPDATE

Prepared by	<u>Michael J. Cooley</u>	<u>June 10, 1983</u>
		Date
Recommended by	<u>Donald Ince Kenzie</u>	<u>6-30-83</u>
	Communication System Division	Date
Recommended by	<u>James L Jones</u>	<u>7-7-83</u>
	Community & Government Affairs	Date
Recommended by	<u>J.P. Cooper</u>	<u>6-30-83</u>
	Insurance	Date
Recommended by	<u>Larry E. Scherman</u>	<u>6/30/83</u>
	Licensing	Date
Recommended by	<u>Mahmud Syed, M.D.</u>	<u>6/30/83</u>
	Medical Staff	Date
Recommended by	<u>James J. O'Leary</u>	<u>6/30/83</u>
	Nuclear Administration	Date
Recommended by	<u>Steve A. Schubert</u>	<u>6-30-83</u>
	Nuclear Production	Date
Recommended by	<u>Edward J. Kennedy</u>	<u>6-30-83</u>
	Nuclear Training	Date
Recommended by	<u>John A. Rogers</u>	<u>6-30-83</u>
	Public Information	Date
Recommended by	<u>Robert H. Zisch</u>	<u>6-30-83</u>
	Security	Date
Recommended by	<u>William H. Morrison</u>	<u>6/30/83</u>
	Wayne-Monroe Division	Date
Approved by	<u>Thomas Randazzo</u>	<u>6/30/83</u>
	RERP Committee Chairperson	Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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1.0 Purpose

To provide timely review, update, and availability of emergency call-out lists.

2.0 Applicability

This procedure shall be used by personnel who are assigned to maintain and provide emergency call-out lists.

3.0 References

3.1 Detroit Division Dispatch and Report Center: Emergency Notifications (EP-292).

3.2 Subsequent Notifications (EP-293).

4.0 General Information

Nuclear Administration maintains current information on all individuals assigned to Nuclear Operations. All Nuclear Operations employee phone changes are reported to Nuclear Administration on a weekly basis.

5.0 Procedure

5.1 Review Interval

5.1.1 Emergency call-out lists will be updated on a weekly basis.

5.1.2 The Emergency Planner is responsible for ensuring that emergency call-out lists are updated and supplied as required by this procedure.

5.2 Nuclear Administration shall provide on a weekly basis:

5.2.1 Twelve (12) copies of the current emergency call-out list to Detroit Division Dispatch and Report Center.

5.2.2 Four (4) copies of the current emergency call-out list to the Emergency Planner.

5.3 The Emergency Planner shall:

5.3.1 Ensure that current copies of the emergency call-out list are available in the Control Room, Technical

Support Center and Emergency Operations Facility, and supplied to the Supervisor, Radiological Emergency Response Preparedness.

- 5.3.2 Maintain a file of completed emergency call-out lists returned by Detroit Division Dispatch and Report Center.

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: RADIOLOGICAL EMERGENCY RESPONSE PREPAREDNESS TRAINING PROGRAM

RECORD OF APPROVAL AND CHANGES

Prepared by K. Thompson 6/24/83
Date
Approved by Thomas Randalay 8/22/83
Responsible Section Head Date
Recommended by E H Newton 8-23-83
Supervisor - Operational Date
Assurance/Delegate

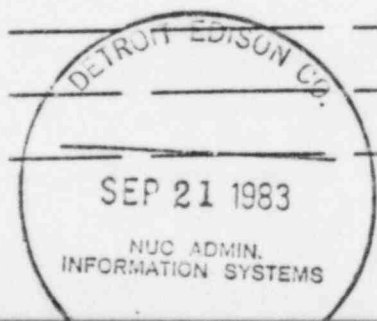
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by [Signature] 8-23-83
OSRO Chairman/Alternate Date
Approved by [Signature] 8-23-83
Superintendent-Nuclear Date
Production/Delegate

Revision No.	Responsible Section Head Approved	Date	Supervisor-Operational Assurance Recommended	Date	OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
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3					*			
4					*			
5					*			
6					*			
7					*			
8					*			

CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: RADIOLOGICAL EMERGENCY RESPONSE PREPAREDNESS TRAINING PROGRAM

Prepared by	K. Thompson	6/24/83
		Date
Recommended by	<i>Donald E. MacKenzie</i>	7-14-83
	Communication System Division	Date
Recommended by	<i>James L. Jones</i>	7-14-83
	Community & Government Affairs	Date
Recommended by	N/A (T. Randazzo)	7-18-83
	Insurance	Date
Recommended by	<i>Levy E. Scherman</i>	7-19-83
	Licensing	Date
Recommended by	<i>Mahmud Syed, M.D.</i>	7/14/83
	Medical Staff	Date
Recommended by	<i>James S. Davis</i>	7/14/83
	Nuclear Administration	Date
Recommended by	<i>Greg A. Smith</i>	7-14-83
	Nuclear Production	Date
Recommended by	<i>Edward J. Dwyer</i>	7-14-83
	Nuclear Training	Date
Recommended by	<i>Barry H. Haffner</i>	7-14-83
	Public Information	Date
Recommended by	<i>Robert G. Smith</i>	7/14/83
	Security	Date
Recommended by	<i>Maurice L. Vermilion</i>	7/14/83
	Wayne-Monroe Division	Date
Approved by	<i>Thomas Randazzo</i>	7/14/83
	RERP Committee Chairperson	Date
Revision No.	RERP Committee Chairperson Approved	Date

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Enclosure

Training Matrix	Enclosure 1
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1.0 Purpose

The purpose of this procedure is to describe the Radiological Emergency Response Preparedness (RERP) Training Program including responsibilities, qualification requirements, requalification requirements, and administrative guidelines.

2.0 Applicability and Definitions

2.1 Applicability

This procedure shall be used by personnel in the Nuclear Operations - Training Department, the Radiological Emergency Response Preparedness group, and personnel in the Emergency Response Organization.

2.2 Definitions

2.2.1 Training Program Description

A document which details all training requirements for qualification for a specified position, e.g., Emergency Director. The Training Matrix (Enclosure 1) is a graphic display of the requirements for each position.

3.0 References

3.1 10 CFR 50, Appendix E, Section IV.F

3.2 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG-0654, Rev. 1)

*3.3 Enrico Fermi Atomic Power Plant Unit 2, Radiological Emergency Response Preparedness Plan, Section 0

3.4 Nuclear Operations - Training Procedures

*3.5 Exercises and Drills (EPA-4)

3.6 Radiological Emergency Response Preparedness Training Administrative Guide

4.0 Procedure

4.1 Responsibilities

4.1.1 The Supervisor-Training and Qualification, Contingency and Security (Supervisor - TQCS) is responsible for the

*Denotes "Use" Reference

design, development, and implementation of the approved Radiological Emergency Response Preparedness Training Program, as described in this procedure.

- 4.1.2 The Supervisor of Radiological Emergency Response Preparedness is responsible for ensuring that all training requirements specified in References 3.1 and 3.2 are satisfied, and that the Training Program is kept current.
- 4.1.3 Each individual in the Emergency Response Organization is responsible for completing and maintaining their qualification as prescribed by this procedure.

4.2 Conduct of Training

- 4.2.1 All training activities required by this procedure shall be conducted and documented in accordance with Reference 3.4.

5.0 Qualification

5.1 Initial Qualification

- 5.1.1 The qualifications of persons who perform a function in the emergency response organization shall be determined by the Supervisor, RERP, according to the requirements outlined in Enclosure 1.
- 5.1.2 A person may be required to have more than one qualification.

5.2 Maintenance of Qualification and Requalification

- 5.2.1 Qualified emergency response personnel shall maintain their qualification by regular participation in emergency drills and exercises as specified in Reference 3.5. Personnel will satisfactorily participate in at least one drill or exercise annually.
- 5.2.2 Emergency response personnel will participate in retraining such as required reading, training sessions, or drills as determined by the Supervisor, RERP.
- 5.2.3 Emergency response personnel will be requalified annually in accordance with Reference 3.3.
- 5.2.4 Disqualified personnel may be requalified upon completion of a retraining program approved by the Supervisor-TQCS and the Supervisor, RERP.

5.3 Non-Detroit Edison Personnel

- 5.3.1 Training is made available to personnel of State and local organizations which support the Detroit Edison Emergency Response Organization. Training is to be scheduled, as a minimum, on an annual basis.
1. Training for State and local government organizations consists of at a minimum an RERP orientation and a site tour including the emergency response facilities.
 2. Training will be made available for Frenchtown Volunteer Fire Department personnel.
 3. Training will be made available for EMTS Ambulance Service personnel.
 4. Training will be made available for Seaway Hospital emergency personnel.

RERP TRAINING UNIT

1. EMERGENCY PLAN ORIENTATION
2. EMERGENCY RADIOLOGICAL EXPOSURE CONTROL
3. COMMUNICATIONS
4. NOTIFICATION PROCEDURES
5. EMERGENCY CLASSIFICATION
6. REENTRY & RECOVERY
7. EMERGENCY RESPONSE ORGANIZATION & FACILITIES
8. ON-SITE ACCIDENT ASSESSMENT & PROTECTIVE RESPONSE
9. RADIOLOGICAL ASSESSMENT & PROTECTIVE ACTION RECOMMENDATIONS
10. OFF-SITE DOSE ASSESSMENT METHODOLOGY
11. ON-SITE RADIOLOGICAL EMERGENCY TEAM (RET)
12. ON-SITE PERSONNEL MONITORING TEAM (PMT)
13. DAMAGE CONTROL & RESCUE
14. OFF-SITE RET
15. RADIATION MANAGEMENT CORPORATION
MEDICAL MANAGEMENT
16. BWR SYSTEMS ORIENTATION (OPTIONAL)
17. EMERGENCY CLASSIFICATION AND PROTECTIVE ACTION RECOMMENDATIONS
(COMBINED UNITS 5 AND 9)
18. FIRE BRIGADE
19. SECURITY
20. OFF-SITE PMT

RERP TRAINING MATRIX

POSITION TITLE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EOF																				
EMERGENCY OFFICER	X	X	X				X	X										X		
EOF COORDINATOR	X	X	X	X			X	X								0	X			
EOF ADMINISTRATOR	X	X	X	X			X	X								0				
EOF ASST. ADMIN.	X	X	X	X			X	X								0				
RAD. PROTECTION COORD.	X	X	X			X	X	X	X	X				X						
EVN. ASSESSMENT TEAM	X	X	X				X			X						0	X			
ENERG. LAB. TECH.	X	X	X				X	X												
NUCLEAR OPS. ADVISOR	X	X	X	X	X		X													
SECURITY ADVISOR	X	X	X				X								X					
PUBLIC INFO. COORD.	X	X	X				X									0	X			
COMMUNICATORS	X	X	X	X			X													
RAD. PROT. COMM.	X	X	X	X			X													
CLERKS/STATUS BOARD	X	X	X				X													
STATE LIAISON	X	X	X		X		X		X											
COUNTY LIAISON	X	X	X				X										X			
SECRETARY	X	X	X				X													
RET COORD.	X	X	X				X		X					X						
TYPIST	X	X	X				X													
COURIER	X	X	X				X													
TSC																				
EMERGENCY DIRECTOR	X	X	X		X	X	X	X	X											
TECH. ENGINEER	X	X	X		X	X	X	X	X											

X = Attendance required. Exam
A = Attendance required. No exam.
O = Optional

KERP TRAINING MATRIX

POSITION TITLE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
NUCLEAR SAFETY ADVISOR	X	X	X		X	X	X		X											
ENGINEERING STAFF	X	X	X		X		X													
RAD. PROTECTION ADVISOR	X	X	X		X	X	X	X	X	X	X	X								
ASST. RAD. PROTECTION ADV.	X	X	X		X	X	X	X	X	X	X	X								
ENV. ASSESSMENT TEAM	X	X	X				X			X						O	X			
RAD/CHEM ADVISOR	X	X	X		X	X	X	X	X	X										
SECURITY ADVISOR	X	X	X				X													
ADMIN-SUPPORT COORD	X	X	X	X			X									O				
COMMUNICATORS	X	X	X	X			X													
TECH, RAD/CHEM COMM.	X	X	X	X			X													
QA ADVISOR	X	X	X			X	X													
CLERK/STATUS BOARD	X	X	X				X													
TYPIST	X	X	X				X													
COURIER	X	X	X				X													

CR

NSS	X	X	X	X	X		X	X	X	X	A	A								
NASS	X	X	X	X	X		X	X	X	X	A	A								
STA	X	X	X	X	X		X	X	X	X	A	A								
COMMUNICATOR	X	X	X	X			X													
EMERG. OPS. LIAISON	X	X	X		X		X													
NSO	X	X	X		X		X													
REACTOR ENGINEER	X	X	X		X		X													

X = Attendance required. Exam.
A = Attendance required. No exam.
O = Optional

RERP TRAINING MATRIX

POSITION TITLE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
OSC																				
OSC COORDINATOR	X	X	X				X	X			X	X	X							
ASST. OSC COORDINATOR	X	X	X				X	X			X	X	X							
NON-LICENSED OPS.	X	X	X				X													
HEALTH PHYSICS TECHS.	X	X	X				X	X			X	X	X							
RAD/CHEM TECHS.	A	X	X				X	X												
DAMAGE/RESCUE/FIRST AID	X	X	X				X						X							
FIRE BRIGADE	X	X	X				X											X		
ON-SITE PMT	X	X	X				X				X	X								
ON-SITE RET	X	X	X				X				X	X								
SECURITY	X	X	X																X	
OFF-SITE																				
OFF-SITE RET	X	X	X											X						X
OFF-SITE PMT	X	X	X											X						
RET SUPV/EQUIP. COORD.	X	X	X											X						
JPIC SPOKESPERSON	X	X	X	X			X									O	X			
JPIC STAFF	X	X	X																	
CORPORATE OFFICERS	A	A	A				O		O											
RECOVERY ORGAN. HEADS	X	X	X			X														
DETROIT DISPATCH	A			A																
ON-CALL DUTY OFFICER	X	X	X	X	X		X													
AMBULANCE															A					
MEDICAL															A					
FIRE BRIGADE	A	A																		
VOLUNTEERS	A	A																		

X = Attendance required. Exam.
A = Attendance required. No exam.
O = Optional

END

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: PUBLIC AFFAIRS: EMERGENCY COMMUNICATION PLAN OVERVIEW

RECORD OF APPROVAL AND CHANGES

Prepared by	<u>John Rogers</u>	<u>06-29-83</u>	
		Date	
Approved by	<u><i>MM Chubb for T.P.</i></u>	<u>9-6-83</u>	
	Responsible Section Head	Date	
Recommended by	<u><i>E H Newton</i></u>	<u>9-6-83</u>	
	Supervisor - Operational Assurance/Delegate	Date	

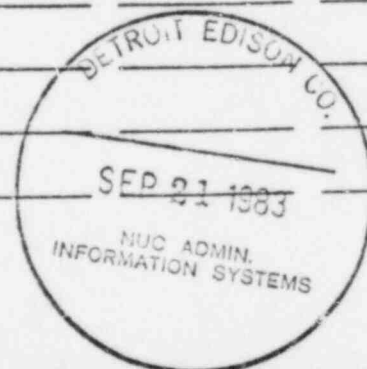
IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by	<u><i>R/L</i></u>	<u>9/6/83</u>	
	OSRO Chairman/Alternate	Date	
Approved by	<u><i>R/L</i></u>	<u>9/6/83</u>	
	Superintendent-Nuclear Production/Delegate	Date	

Revision No.	Responsible Section Head Approved	Date	Supervisor - Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1	_____	_____	_____	_____	*	_____	_____	_____
2	_____	_____	_____	_____	*	_____	_____	_____
3	_____	_____	_____	_____	*	_____	_____	_____
4	_____	_____	_____	_____	*	_____	_____	_____
5	_____	_____	_____	_____	*	_____	_____	_____
6	_____	_____	_____	_____	*	_____	_____	_____
7	_____	_____	_____	_____	*	_____	_____	_____
8	_____	_____	_____	_____	*	_____	_____	_____

CONTROLLED



ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: PUBLIC AFFAIRS: EMERGENCY COMMUNICATION PLAN OVERVIEW

Prepared by	J. Rogers	06-29-83 Date
Recommended by	Walter H. Zambelli / DSM Communication System Division	7-29-83 Date
Recommended by	James L. Jones Community & Government Affairs	7-29-83 Date
Recommended by	Larry E. Scherman Licensing	8/2/83 Date
Recommended by	[Signature] Medical Staff	7/29/83 Date
Recommended by	James J. Davis Nuclear Administration	7/29/83 Date
Recommended by	E.R. Overbeck / E. Preston Nuclear Production	7/29/83 Date
Recommended by	[Signature] Nuclear Training	7/29/83 Date
Recommended by	Bert Heffner Public Information	7-29-83 Date
Recommended by	[Signature] Security	7-29-83 Date
Recommended by	M. J. [Signature] by [Signature] Wayne-Monroe Division	7-29-83 Date
Approved by	T. [Signature] by [Signature] RERP Committee Chairperson	8/1/83 Date

Revision
No.

RERP Committee
Chairperson Approved

Date

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Enclosures

List of Local and Regional Media Conatacts	Enclosure 1
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1.0 Purpose

A principal requirement at the time of a nuclear emergency is to ensure and maintain a steady flow of accurate, reliable and credible information, both externally to the various publics and internally to employees to avoid misinformation, misunderstanding and/or exaggeration.

To provide such an information flow requires close and continuous cooperation between the Emergency Director, the Emergency Operations Facility Coordinator and the Public Information staff assigned emergency duties.

2.0 References

- *2.1 Public Affairs: Emergency Communication (EP-601)
- *2.2 Public Affairs: Unusual Event/Alert (EP-602)
- *2.3 Public Affairs: Site Area Emergency/General Emergency (EP-603)
- *2.4 Joint Public Information Center Activation (EP-604)
- *2.5 Emergency Employee Communication Center (EP-605)
- *2.6 Media Relations (EP-606)
- *2.7 Media Pool Operation (EP-607)
- *2.8 Operation of the Joint Public Information Center (EP-608)
- *2.9 On-Site News Center: Security Force Responsibilities (EP-610)

3.0 Policy

Detroit Edison's public information policy is described below and will guide the Company during a nuclear plant emergency:

- 3.1.1 The Company has established a policy of full disclosure and will maintain honest and open communications with public officials, the public and its employees at all times.
- 3.1.2 The Company will provide the public with prompt and accurate information through established news and information channels.
- 3.1.3 The Company will make every effort to meet the information needs of its customers and employees while communicating promptly with appropriate local, State and national officials during the period of the emergency.

*Denotes "Use" Reference

- 3.1.4. Company statements to the media and employees concerning Fermi 2, its operation and any emergency will be made only with the knowledge and guidance of the Public Affairs Department and the Management of the Nuclear Operations Organization.
- 3.1.5 See Public Information EP-601 for details of the company's public information and education activities.

4.0 Public Information Plan for the Unusual Event

- 4.1 During regular working hours, the On-Call Plant Supervisor contacts the Media Relations Supervisor by calling 878850 with the status of the emergency and the interpretation of the event in non-technical language. The Media Relations Supervisor contacts the Director-Public Information and the Emergency Communication Planner. The Director-Public Information informs the Vice President-Public Affairs of the event and the Emergency Communication Planner informs the Vice President, and the Manager, State and Local Government, Community and Governmental Affairs and the Public Information emergency organization (See EP-602). The Media Relations Supervisor is responsible for releasing information on the event, as appropriate, to the local media (See Enclosure 1) in a timely manner and keeping them informed on the status of the plant. Information on Unusual Events and at the Alert level shared with the media will be cleared with the Vice President of Nuclear Operations, if time permits in the judgment of the Director-Public Information, or the Vice President-Public Affairs.
- 4.2 During after hours or on weekends, the On-Call Plant Supervisor contacts the Media Relations Representative at the top of the regularly published After Hours list by calling 878850. This contact must take place as soon as possible and no later than immediately after calling the County or the State officials.
- 4.3 The On-Call Plant Supervisor tells the Media Relations Representative the exact status of the emergency and develops the interpretation of the event in nontechnical language so it can be communicated to the media and understood by the general public. The Media Relations Representative is responsible for informing the Media Relations Supervisor or alternate who alerts the Public Information emergency organization (see EP-602). As appropriate, the Media Relations Representative calls the local media with the information in a timely manner and keeps them informed on the status of the plant.
- 4.4 The Director-Public Information decides whether to open the On-Site News Center, the General Office News Center or to continue regular, established news handling operations by Media

Relations from the G.O. The On-Site News Center should be opened if media are at the site boundry and/or if media are ahead of communications from the plant on the emergency and/or if the corporate interests are best served through an authoritative spokesperson on-site. The decision will also reflect the Emergency Director's classification and prognosis of the event and/or the level of general news interest of the emergency. The General Office News Center may be opened when the On-Site News Center becomes inoperable, when major corporate announcements not related to the emergency need to be made or when no media are interested in going on site.

- 4.5 If a decision is made to open the On-Site News Center or the G.O. News Center, the Director-Public Information informs the Media Relations Supervisor and both move to the designated News Center. Prior to the move, the Media Relations Supervisor alerts the Senior Media Relations Representative, the Security Secondary Alarm Station (See EP-610) and the Emergency Communication Planner. The Senior Media Representative takes all media calls and receives plant status updates at the G.O. The Media Relations Supervisor at the designated News Center will be kept informed by the Senior Media Representative who is in contact with the Emergency Director or his/her alternate.
- 4.6 At the designated News Center the Director-Public Information receives the media and arranges for the Emergency Director or the Company Spokesperson or designated alternate to brief the press as often as necessary. When the Unusual Event is closed out, this is reported to the media already contacted. Again, the close-out wording is in non-technical language readily understood by the general public. The designated News Center staff may continue to handle media requests within the guidelines established by the NRC regarding visitors on site and Company policy on employee statements being cleared by Public Affairs. All appropriate Security procedures are, of course, observed at all times.
- 4.7 See EP-602 for detailed procedures.

5.0 Public Information Plan for the Alert

- 5.1 At the Alert stage of the incident the Emergency Director's function transfers to the Technical Support Center (TSC) (See EP-301-1).
- 5.2 The Senior Media Representative at the G.O. continues to direct the flow of information from the Emergency Director or designated alternate to the designated News Center for distribution to the media. Information from the TSC will be translated into readily understood non-technical language.

5.3 These emergency communications activities remain in operation until the Alert is closed out with continuing media contact throughout.

5.4 See Public Information EP-602 for detailed procedures.

6.0 Public Information Plan for the Site Area Emergency

6.1 Should the incident be classified as a Site Area Emergency, the Emergency Operations Facility (EOF) is activated (See EP-303-1). At this time any designated News Center is closed and the Media Relations Supervisor moves to the EOF to act as the Public Information Coordinator until one of the individuals designated for that function reports to the EOF (See EP-606). The Joint Public Information Center (JPIC) at the Monroe County Community College is opened at this time (See EP-604). The JPIC is staffed by the Emergency Public Information Team.

NOTE: The JPIC may be opened at earlier emergency levels at the direction of the Governor of the State of Michigan should he/she declare a "State of Disaster".

6.2 The Director-Public Information, becomes the JPIC Administrator and moves from the designated News Center to the College. He administers the Joint Public Information Team (JPIT) consisting of representatives from the state, Monroe and Wayne Counties and the utility (See EP-604). The Media Relations Supervisor moves from the EOF to the JPIC to serve as the JPIC Media Relations Supervisor when relieved by the EOF Public Information Coordinator. The JPIT issues all media announcements on the emergency until the Governor lifts the "State of Disaster" declaration.

6.3 If no News Center has been actuated, the Director, Public Information and the Media Relations Supervisor go directly to the JPIC.

6.4 Employee Communication

A Senior Journalist and a Journalist or appropriate alternate go to the General Offices to activate the Public Affairs Emergency Employee Communication Center (EECC) (See EP-605). The EECC processes and transmits information on the event to employees, Community and Governmental Affairs, Media Relations Team at the General Offices and Senior Management.

6.5 See EP-603, 604, 605, 606, 607 and 608 for detailed procedures.

7.0 Public Information Plan for the General Emergency

- 7.1 All Company Public Information and Joint Public Information Center emergency response activities established at the Site Area Emergency level, or earlier remain in operation at the General Emergency level until the Governor lifts the "State of Disaster" declaration (see Public Information EP-602, 603, 604, 605, 606, 607 and 608 for detailed procedures).

NOTE: Should an emergency be classified immediately as a General Emergency, Step 6.0 should be followed.

8.0 Public Information Plan for Recovery

- 8.1 The Public Information representative on the Recovery Organization function is the Director, Public Information, or appropriate delegate. This person attends all meetings of the Recovery Organization for informational purposes and maintains close contact with the Recovery Manager and the Technical Liaison and Advisory group.
- 8.2 Information for possible release is cleared with the Recovery Manager and the Vice President-Public Affairs and given to the media through normal Media Relations procedures.
- 8.3 All released information is made available to federal and state authorities, the utility industry, the public and Company employees through established channels of communication.
- 8.3.1 For credibility purposes, the Company informs all audiences of the same information at the same time.
- 8.4 Whenever possible, advance notice will be given to the public through the media of any Company action that will or may affect the health and safety of the Emergency Planning Zone (EPZ) residents.
- 8.4.1 Information of this type is followed up with a news release as soon as the results of any such action are known.

9.0 Public Interest Items

- 9.1 During normal, day-to-day operations, Public Interest items are communicated by the appropriate members of Nuclear Operations Plant Supervision to Detroit Edison Media Relations as swiftly and completely as possible by calling 878850. Communications to the media on these items are cleared by Media Relations with the Vice President of Nuclear Operations if time permits, and may be limited to local or area distribution depending on their significance.

- 9.2 On weekends or after hours, the Media Relations Representative on duty is contacted by calling 878850. It is the responsibility of the Nuclear Production Superintendent, Nuclear Operations, or the Nuclear Shift Supervisor to promptly contact the Media Representative on duty and to provide information about any public interest item. The Director-Nuclear Security (or designee) is consulted prior to releasing information that could be detrimental to an investigation or could significantly reduce the security of the plant.

LIST OF LOCAL AND REGIONAL MEDIA CONTACTS

NEWSPAPERS

Monroe Evening News, Monroe, Michigan	241-6300
Carleton Messenger, Carleton, Michigan	654-2161
Petersburg Sun, Petersburg, Michigan	1-279-1515
Dundee Reporter, Dundee, Michigan	1-529-2296
Bedford Courier, Temperance, Michigan	1-847-3802
Bedford Journal Herald, Lambertville, Michigan	1-856-4142
Toledo Blade, Toledo, Ohio (News/City Desk)	1-419-245-6050
Detroit News, Detroit, Michigan	1-222-2000
(News Desk)	(1-222-2300)
Detroit Free Press, Detroit, Michigan	1-222-6400
Windsor Star, Windsor, Ontario, Canada	1-519-255-5711

RADIO STATIONS

WVMO, Monroe, Michigan	242-6600
WHND, Monroe, Michigan	241-5550
WJR, Detroit, Michigan	1-875-4440
WSPD, Toledo, Ohio	1-419-244-8321
WOHO, Toledo, Ohio	1-419-255-1470
(News Hotline)	(1-419-693-2229)
WWJ, Detroit, Michigan (News Department)	1-222-2695
WXYZ, Southfield, Michigan	827-9037
CKLW, Windsor, Ontario, Canada (Newsroom)	965-6555 or 961-6397

TELEVISION STATIONS

Monroe Cablevision, Monroe, Michigan	241-2225
WTOL-Channel 11, Toledo, Ohio	1-419-248-1111
(News Department)	(1-419-248-1100)
WTVG Channel 13, Toledo, Ohio	1-419-255-1313
WDHO Channel 24, Toledo, Ohio	1-419-535-0024
WJBK Channel 2, Southfield, Michigan	
(News Department)	1-557-6775
WDIV Channel 4, Detroit, Michigan (News Department)	1-222-0500
(News Hotline)	(1-222-0440)
CBEZ Channel 7, Southfield, Michigan	827-9407
CKCT Channel 9, Windsor, Ontario, Canada	961-7200
CKCO-TV, Channel 42, Kitchener, Canada	1-519-944-8813

ENRICO FERMI ATOMIC POWER PLANT
UNIT NO. 2

Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: TECHNICAL SUPPORT CENTER: ACCESS CONTROL AND EMERGENCY
CONFIGURATION

RECORD OF APPROVAL AND CHANGES

Prepared by D. Polsgrove 7/29/83
Date

Approved by Responsible Section Head
Date

Recommended by Supervisor - Operational
Assurance/Delegate Date

IF NON-SAFETY RELATED, STOP HERE

IF SAFETY-RELATED, PLEASE CONTINUE

Recommended by OSRO Chairman/Alternate
Date

Approved by Superintendent-Nuclear
Production/Delegate Date

Revision No.	Responsible Section Head Approved	Date	Supervisor- Operational Assurance Recommended	Date	* OSRO Recommended	Date	Supt. - Nuc. Prod. Approved	Date
1					*			
2					*			
3					*			
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Typed by: Lisa Cousino (RERP 9)
Revised by: Lisa Crummel

ENRICO FERMI ATOMIC POWER PLANT
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Type: EMERGENCY PLAN ADMINISTRATIVE PROCEDURE

Title: TECHNICAL SUPPORT CENTER: ACCESS CONTROL AND EMERGENCY
CONFIGURATION

Prepared by	<u>D. Polsgrove</u>	<u>7/29/83</u> Date
Recommended by	<u>Donald J MacKenzie</u> Communication System Division	<u>8-25-83</u> Date
Recommended by	<u>James L Jones</u> Community & Government Affairs	<u>8-25-83</u> Date
Recommended by	<u>Larry E. Skurman</u> Licensing	<u>9-7-83</u> Date
Recommended by	<u>William H. Hume</u> Medical Staff	<u>8-25-83</u> Date
Recommended by	<u>James M. Ruben</u> Nuclear Administration	<u>8-25-83</u> Date
Recommended by	<u>W. M. Schubert</u> Nuclear Production	<u>9-6-83</u> Date
Recommended by	<u>Karen K. Thompson</u> Nuclear Training	<u>8-25-83</u> Date
Recommended by	<u>Bert Keffner</u> Public Information	<u>8-25-83</u> Date
Recommended by	<u>David H. Zech</u> Security	<u>8-25-83</u> Date
Recommended by	<u>W. K. Knevelen by P. Prager</u> Wayne-Monroe Division	<u>8-25-83</u> Date
Approved by	<u>Thomas Randazzo</u> RERP Committee Chairperson	<u>8/25/83</u> Date

Revision No. RERP Committee
Chairperson Approved

Date

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Enclosures

TSC Emergency Configuration	Enclosure 1
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1.0 Purpose

This procedure provides guidelines governing the use of the Technical Support Center (TSC). It establishes control of access and of furniture configuration and ensures the security of equipment and supplies.

2.0 Applicability

This procedure shall be followed by all personnel entering the TSC.

3.0 References

- 3.1 Enrico Fermi Atomic Power Plant Unit 2 Radiological Emergency Response Preparedness Plan Section H (Emergency Facilities and Equipment)
- 3.2 Technical Support Center: Activation (EP-301-1)
- 3.3 Emergency Equipment Inventory (EPA-5)
- 3.4 Control of Operation Section Locks (POM Procedure 21.000.05)

4.0 Procedure

4.1 Access and Configuration Control

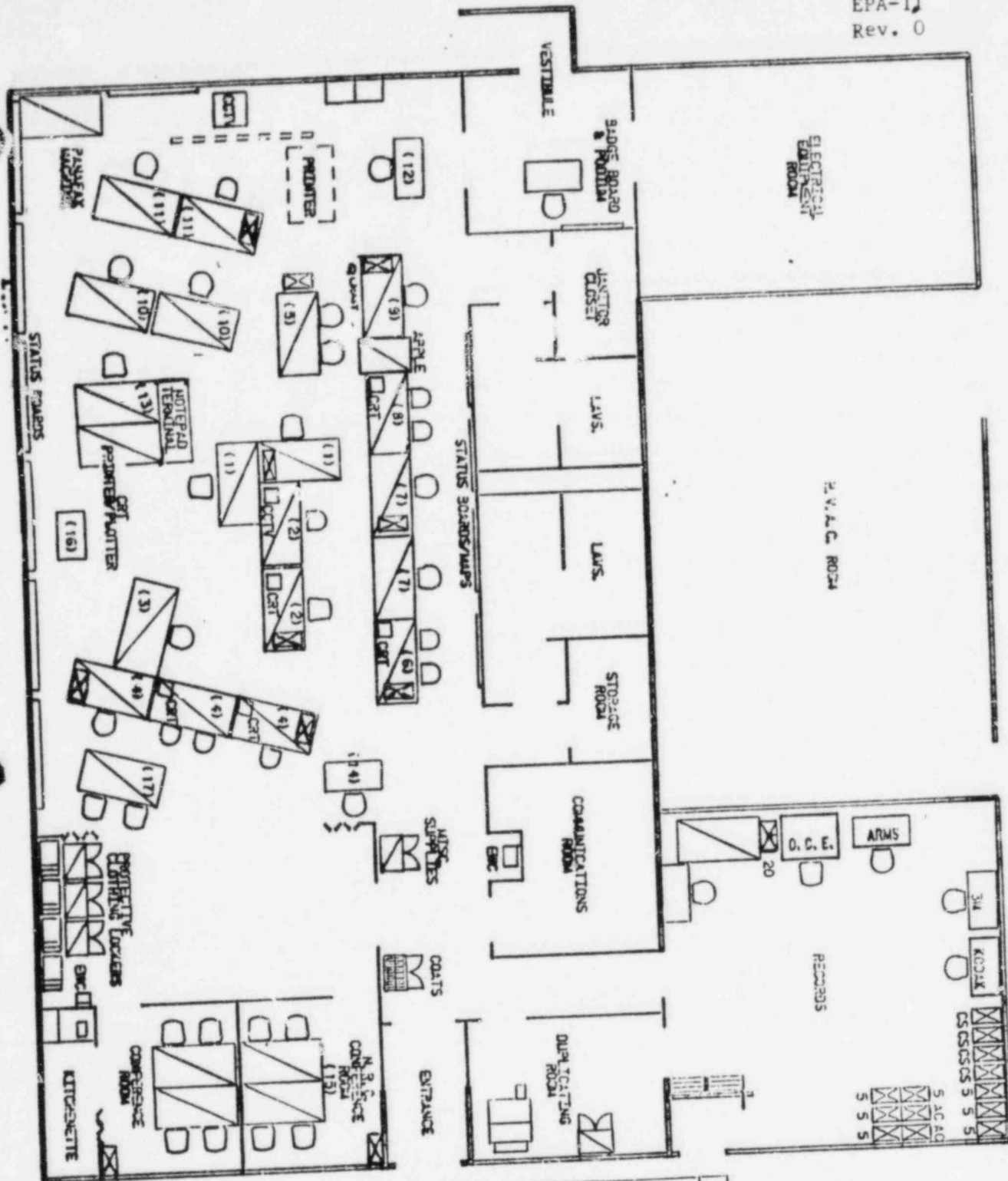
- 4.1.1 Personnel will be permanently assigned to the TSC to maintain the status boards and perform other duties as assigned. It is the responsibility of these persons to lock the TSC at the close of each regular work day.
- 4.1.2 Personnel requiring access to the TSC during hours outside of the conventional work day or week must obtain the key from the Nuclear Shift Supervisor.
- 4.1.3 The TSC furnishings will customarily be arranged in the established RERP configuration (see Enclosure 1).

4.2 Equipment and Supplies

- 4.2.1 Equipment and supplies, as required by EP-301-1 (TSC: Activation), will be regularly inventoried and maintained in accordance with EPA-5 (Emergency Equipment Inventory).
- 4.2.2 Key control for equipment and supply cabinets is established as follows:

1. To limit the number of keys needed, storage areas and files will be locked with similar cores whenever possible.
2. Keys for equipment/supply access will be kept by the OSE furniture and telephone coordinator and by the Nuclear Shift Supervisor.

4.2.3 Equipment or supplies may not be removed from the TSC without the authorization of the Administrator - Personnel and Union Relations, or Nuclear Shift Supervisor on backshift or Radiological Emergency Response Preparedness Supervisor.



TECHNICAL
SUPPORT
CENTER

Enclosure 1
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SEATING KEY	
	DEMANDY DIRECTOR & SECRETARY
1	TECHNICAL ADVISOR
2	NUCLEAR SAFETY ADVISOR
3	SUPPORT ENGINEER
4	ADMINISTRATIVE & LOGISTICS SUPPORT
5	POLLUTION CHEMICAL ADVISOR
6	RADIATION PROTECTION ADVISOR
7	ENVIRONMENTAL ASSESSMENT TEAM
8	(E.A.T.) (DOSE)
9	ENVIRONMENTAL ASSESSMENT TEAM
	(E.A.T.) (METEOROLOGIST)
10	COMMUNICATORS
11	CLERK / TYPIST / COURIER
12	SECURITY LIAISON
13	STATUS BOARD UPDATER
14	QUALITY ASSURANCE
15	NRC OBSERVER
16	P. A. SYSTEM
17	CONSULTANTS

END