

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

May 14, 2003

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Serial No. 03-351
NAPS/MPW
Docket Nos. 50-338/339
License Nos. NPF-4/7


Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNITS 1 AND 2
REVISIONS TO EMERGENCY PLAN AND IMPLEMENTING PROCEDURES

Pursuant to 10 CFR 50.54(q), enclosed is a recent revision to a North Anna Power Station Emergency Plan Implementing Procedure. This revision does not implement actions that decrease the effectiveness of our Emergency Plan. The Emergency Plan and Implementing Procedures continue to meet the standards of 10 CFR 50.47(b).

Please update your manual by performing the actions described in Attachment 1, Tabulation of Changes.

Very truly yours,



D. A. Heacock
Site Vice President

Commitments Stated or Implied: None.

Enclosures

cc: U.S. Nuclear Regulatory Commission (2 copies)
Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
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Mr. M. J. Morgan
NRC Senior Resident Inspector
North Anna Power Station

A045

**ATTACHMENT 1
TABULATION OF CHANGES**

**VIRGINIA ELECTRIC AND POWER COMPANY
REVISIONS TO NORTH ANNA POWER STATION
EMERGENCY PLAN AND IMPLEMENTING PROCEDURES**

Enclosed is a recent revision to a North Anna Power Station Emergency Plan Implementing Procedure (EPIP). Please take the following actions in order to keep your manual updated.

REMOVE AND DESTROY	DATED	INSERT	EFFECTIVE DATE
EPIP - 4.02, Rev. 13	12/08/02	EPIP – 4.02, Rev. 14	05/12/03

Emergency Plan Privacy and Proprietary Material has been removed. Reference Generic Letter No. 81-27.

NORTH ANNA POWER STATION
LIST OF NAPS EMERGENCY PLAN IMPLEMENTATION PROCEDURES
CHECK DHIS FOR LATEST DOCUMENT INFORMATION

DOCUMENT NUMBER	REV	APPROVAL **DATE**	EFFECT** **DATE**	DOCUMENT TITLE
EPIP-4.02	014	05/12/03	05/12/03	RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE
EPIP-1.01	037	12/13/02	12/18/02	EMERGENCY MANAGER CONTROLLING PROCEDURE
EPIP-1.02	011	09/07/99	10/01/99	RESPONSE TO NOTIFICATION OF UNUSUAL EVENT
EPIP-1.03	014	09/07/99	10/01/99	RESPONSE TO ALERT
EPIP-1.04	014	09/07/99	10/01/99	RESPONSE TO SITE AREA EMERGENCY
EPIP-1.05	016	09/07/99	10/01/99	RESPONSE TO GENERAL EMERGENCY
EPIP-1.06	004	09/05/01	09/05/01	PROTECTIVE ACTION RECOMMENDATIONS
EPIP-2.01	025	08/13/02	08/28/02	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS
EPIP-2.02	015	08/13/02	08/28/02	NOTIFICATION OF NRC
EPIP-3.02	021	03/04/03	03/17/03	ACTIVATION OF TECHNICAL SUPPORT CENTER
EPIP-3.03	013	03/04/03	03/17/03	ACTIVATION OF OPERATIONAL SUPPORT CENTER
EPIP-3.04	015	07/14/98	07/20/98	ACTIVATION OF LOCAL EMERGENCY OPERATIONS FACILITY
EPIP-3.05	002	04/02/03	04/08/03	AUGMENTATION OF EMERGENCY RESPONSE ORGANIZATION
EPIP-4.01	019	04/02/03	04/08/03	RADIOLOGICAL ASSESSMENT DIRECTOR CONTROLLING PROCEDURE
EPIP-4.03	011	12/20/93	01/01/94	DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE
EPIP-4.04	009	11/21/94	11/28/94	EMERGENCY PERSONNEL RADIATION EXPOSURE
EPIP-4.05	009	01/28/00	02/04/00	RESPIRATORY PROTECTION AND KI ASSESSMENT
EPIP-4.06	009	12/21/95	12/28/95	PERSONNEL MONITORING AND DECONTAMINATION
EPIP-4.07	014	09/29/00	10/06/00	PROTECTIVE MEASURES
EPIP-4.08	014	05/10/02	06/19/02	INITIAL OFFSITE RELEASE ASSESSMENT
EPIP-4.09	013	05/10/02	06/19/02	SOURCE TERM ASSESSMENT
EPIP-4.10	011	08/13/02	08/28/02	DETERMINATION OF X/Q
EPIP-4.13	009	09/29/00	10/06/00	OFFSITE RELEASE ASSESSMENT WITH ENVIRONMENTAL DATA

NORTH ANNA POWER STATION
LIST OF NAPS EMERGENCY PLAN IMPLEMENTATION PROCEDURES
CHECK THIS FOR LATEST DOCUMENT INFORMATION

DOCUMENT NUMBER	REV	APPROVAL **DATE**	EFFECT** **DATE**	DOCUMENT TITLE
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EPIP-4.14	007	12/20/93	01/01/94	INPLANT MONITORING
EPIP-4.15	011	02/18/00	02/28/00	ONSITE MONITORING
EPIP-4.16	015	12/13/02	12/18/02	OFFSITE MONITORING
EPIP-4.17	016	12/13/02	12/18/02	MONITORING OF EMERGENCY RESPONSE FACILITIES
EPIP-4.18	013	12/13/02	12/18/02	MONITORING OF LEOF
EPIP-4.21	008	12/20/93	01/01/94	EVACUATION AND REMOTE ASSEMBLY AREA MONITORING
EPIP-4.22	014	04/05/02	04/09/02	POST ACCIDENT SAMPLING OF CONTAINMENT AIR
EPIP-4.23	014	04/05/02	04/09/02	POST ACCIDENT SAMPLING OF REACTOR COOLANT
EPIP-4.24	013	04/02/03	04/08/03	GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY
EPIP-4.25	008	07/23/93	07/23/93	LIQUID EFFLUENT SAMPLING DURING AN EMERGENCY
EPIP-4.26	011	07/26/01	09/13/01	HIGH LEVEL ACTIVITY SAMPLE ANALYSIS
EPIP-4.28	007	01/09/97	01/14/97	TSC/LEOF RADIATION MONITORING SYSTEM
EPIP-4.30	005	04/05/02	04/09/02	USE OF MIDAS CLASS A MODEL
EPIP-4.31	003	06/20/94	06/20/94	USE OF MIDAS CLASS B MODEL
EPIP-4.33	003	11/28/00	11/30/00	HEALTH PHYSICS NETWORK COMMUNICATIONS
EPIP-4.34	003	12/13/02	12/18/02	FIELD TEAM RADIO OPERATOR INSTRUCTIONS
EPIP-5.01	011	12/11/96	12/17/96	TRANSPORTATION OF CONTAMINATED INJURED PERSONNEL
EPIP-5.03	016	02/18/00	02/28/00	PERSONNEL ACCOUNTABILITY
EPIP-5.04	010	03/04/03	03/17/03	ACCESS CONTROL
EPIP-5.05	013	06/25/96	07/02/96	SITE EVACUATION
EPIP-5.07	011	07/25/00	08/02/00	ADMINISTRATION OF RADIOPROTECTIVE DRUGS
EPIP-5.08	008	04/02/03	04/08/03	DAMAGE CONTROL GUIDELINE
EPIP-5.09	004	08/02/02	08/15/02	SECURITY TEAM LEADER CONTROLLING PROCEDURE

DATE: 2003-05-12

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NORTH ANNA POWER STATION
LIST OF NAPS EMERGENCY PLAN IMPLEMENTATION PROCEDURES
CHECK DHIS FOR LATEST DOCUMENT INFORMATION

DOCUMENT NUMBER	REV	APPROVAL **DATE**	EFFECT** **DATE**	DOCUMENT TITLE
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EPIP-6.01	007	05/12/99	05/17/99	RE-ENTRY/RECOVERY GUIDELINE

VIRGINIA POWER
NORTH ANNA POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE (With No Attachments)	REVISION 14
		PAGE 1 of 13

PURPOSE

To assist Radiological Assessment Director in establishing the radiation protection program during an emergency.

LEVEL 2 DISTRIBUTION
This Document Should Be Verified
And Annotated To A Controlled Source
As Required to Perform Work

ENTRY CONDITIONS

Any one of the following:

1. ALERT or higher emergency classification has been declared.
2. Activation by EPIP-4.01, RADIOLOGICAL ASSESSMENT DIRECTOR CONTROLLING PROCEDURE.
3. As deemed necessary by the Radiological Assessment Director.

Approvals on File

Effective Date 5/12/2003

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	REVISION 14 PAGE 2 of 13
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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: A sequence of events (e.g., data transmission, team dispatch) should be recorded as accurately as time allows. Event times and your initials should be included.

____ 1 INITIATE PROCEDURE:

- By: _____
- Date: _____
- Time: _____

____ 2 ESTABLISH RADIATION PROTECTION SUPERVISOR OFFICE:

a) Evaluate HP area radiation levels:

- 1) Do surveys and sampling
- 2) Use frisker, personnel contamination monitors and Count Room analysis equipment to check for abnormal indications

b) Verify HP area - HABITABLE:

b) IF HP area NOT habitable, THEN do the following:

- 1) Establish RPS office in a habitable area (e.g., OSC, Emergency Switchgear Room).
- 2) Notify Exposure Control of new work area.
- 3) GO TO Step 2.d.

c) Establish RPS Office in HP Shift Supervisor area

d) Establish continuous monitoring (e.g., ratemeter, DAD)

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	REVISION 14 PAGE 3 of 13
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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

___ 3 ESTABLISH COMMUNICATIONS WITH TSC:

a) Establish telephonic
communication (e.g., RAD, Dose
Assessment)

b) Establish radio communications:

1) Set radio call group to "EPA"

2) Verify capability to contact
TSC using radio

2) Notify RAD of radio
inoperability.

NOTE: The Emergency Plan has an augmentation goal of 14 HP personnel for
Alert or higher classification.

___ 4 NOTIFY RAD OF NUMBER OF HP
PERSONNEL AVAILABLE

___ 5 ASK RAD FOR BRIEFING:

- Emergency Classification
- Plant Status
- Assistance required

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	REVISION 14 <hr/> PAGE 4 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
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_____ 6 ESTABLISH EXPOSURE CONTROL:

- a) Ensure an individual is available to staff the Exposure Control station
- b) Verify Exposure Control area - HABITABLE
- b) Evaluate relocation to OSC.
- c) Have Exposure Control do the following:
 - 1) Ensure a supply of TLDs is available for issue
 - 2) Maintain exposure records
 - 3) Assign dosimetry in accordance with normal HP procedures

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	REVISION 14 <hr/> PAGE 5 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
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- NOTE:**
- The following step lists response actions coordinated by the RPS. These actions are not listed in order of priority.
 - A minimum of 2 (two) Offsite Monitoring Teams must be dispatched (i.e., sent into the field) upon a Site Area Emergency or higher emergency class.

7 REVIEW HP RESPONSE ACTIONS AND
INITIATE RESPONSES ON A PRIORITY
BASIS:

IF HP response action(s) needed,	THEN do the following:
Implant Monitoring	GO TO Step 8.
Onsite Monitoring	GO TO Step 9.
Offsite Monitoring	GO TO Step 10.
Control Room/TSC/OSC/LEOF Monitoring	GO TO Step 11.
Personnel injury/contamination	GO TO Step 12.
Evacuation Monitoring	GO TO Step 13.
Post Accident Sample Monitoring	GO TO Step 14.
Gaseous effluent sampling	Initiate EPIP-4.24, GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY.
Access Control Limits - EXCEEDED: • Airborne contamination exceeds 0.30 DAC • Contamination \geq 1000 dpm per 100 cm ² • Survey indicates \geq 1000 mR/hr	Establish access control(s): • HP notification prior to entry. • Use of RWPs. • Roping/posting affected areas.
Sample analysis results - AVAILABLE	Give results to RAD.
HP area habitability problem - IDENTIFIED	RETURN TO Step 2.
Relief shift or additional staff - NEEDED	GO TO Step 15.
Turnover duties to relief	GO TO Step 16.
Emergency - TERMINATED	GO TO Step 17.

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	REVISION 14 PAGE 6 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
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8 INITIATE INPLANT MONITORING:

- a) Ask RAD for the following:
 - Required monitoring locations (consider ERFs, Security and Chemistry)
 - Type of surveys required
- b) Evaluate possible radiological hazards in survey area(s)
- c) Assign Inplant Monitoring Team Leader and Member (only one must be an HP Technician)
- d) Initiate EPIP-4.14, INPLANT MONITORING
- e) Notify Inplant Monitoring Team Leader of the location and surveys required
- f) Ensure protective gear and monitoring equipment is provided, as necessary:
 - Respirators
 - Protective Clothing
 - Dosimetry
 - Monitoring Equipment
 - Air Sampling Equipment
- g) Identify routes of entry that may reduce exposure
- h) Assign portable radios and Radio Call Group (Radio use restricted in Radio Frequency Interference (RFI) areas. Gai-Tronics may also be used.)
- i) Send out team(s)
- j) Notify RAD of survey information, when received
- k) RETURN TO Step 7

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING- PROCEDURE	REVISION 14 <hr/> PAGE 7 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
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NOTE: Onsite monitoring teams should be dispatched upon an Alert classification, or as specified by Radiological Assessment Director.

9 INITIATE ONSITE MONITORING:

a) Ask RAD for the following:

- Monitor location
- Surveys required
- Radiological Hazards

b) Coordinate transportation (if required):

- Health Physics truck
- Site Vice President's Vehicle
- Station Manager's Vehicle

c) Assign On-site Monitoring Team Leader and Member (only one must be an HP Technician)

d) Initiate EPIP-4.15, ONSITE MONITORING

e) Notify Onsite Team leader of location and surveys required

f) Ensure protective gear and monitoring equipment is provided, as necessary:

- Respirators
- Protective Clothing
- Dosimetry
- Monitoring Equipment
- Air Sampling Equipment

g) Assign Radio Call Group

h) Send out monitoring team(s)

i) Establish radio contact with monitoring team(s)

j) Notify RAD of survey information, when received

k) RETURN TO Step 7

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING- PROCEDURE	REVISION 14 <hr/> PAGE 8 of 13
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STEP
ACTION/EXPECTED RESPONSE
RESPONSE NOT OBTAINED

NOTE: Two Offsite Monitoring Kits, one Onsite Monitoring Kit and one Remote Assembly Area Monitoring Kit are located in the Exposure Control Facility.

10 INITIATE OFFSITE MONITORING:

- a) Ask RAD for the following:
 - 1) Offsite monitoring locations
 - 2) Number of offsite teams
 - 3) Assessment of offsite radiological hazards
 - 4) Assessment of need to issue radioprotective drugs to monitoring teams
- b) Assign Offsite Monitoring Team Leader and Member (only 1 need be an HP Technician)
- c) Initiate EPIP-4.16, OFFSITE MONITORING
- d) Assist in obtaining vehicle:
 - Health Physics truck
 - Site Vice President's Vehicle
 - Station Manager's Vehicle
- e) Assign emergency kit/equipment:
 - Battery powered air sampler
 - RM-14 with H.P. 210 probe
 - Record number of Emergency Kits issued
- f) Give team briefing (include initial reporting location)
- g) Review protective gear required:
 - Respirator and/or radioprotective drugs
 - Protective clothing
 - Dosimetry
- h) Assign Radio Call Group
- i) Send out Monitoring Team(s)
- j) RETURN TO Step 7

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	REVISION 14 <hr/> PAGE 9 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
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NOTE: Monitoring of emergency response facilities (ERFs) should begin within 60 minutes following an ALERT classification.

11 INITIATE CONTROL ROOM/TSC/OSC/LEOF MONITORING:

- a) Evaluate the following when determining monitoring frequency:
 - Spread of contamination from service buildings
 - Status of effluent release
 - Increase in emergency classification
 - Change in plume direction
- b) Assign the following EPIP(s):
 - EPIP-4.17, MONITORING OF EMERGENCY RESPONSE FACILITIES
 - EPIP-4.18, MONITORING OF LEOF
 - EPIP-4.28, TSC/LEOF RADIATION MONITORING SYSTEM
- c) Notify RAD about ERF habitability and survey results
- d) RETURN TO Step 7

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	REVISION 14 <hr/> PAGE 10 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
_____ 12	CHECK PERSONNEL - CONTAMINATED: a) Check personnel - INJURED b) Initiate normal station HP procedure for responding to contaminated injured personnel c) Assign EPIP-4.06, PERSONNEL MONITORING AND DECONTAMINATION d) Update RAD on status e) RETURN TO Step 7	RETURN TO Step 7. a) GO TO Step 12.c.
	NOTE: EPIP-4.21, EVACUATION AND REMOTE ASSEMBLY AREA MONITORING, contains instructions for surveying parking areas to determine contamination levels prior to evacuation if a radiological release occurred and time is available.	
_____ 13	INITIATE EVACUATION MONITORING: a) Initiate EPIP-4.21, EVACUATION AND REMOTE ASSEMBLY AREA MONITORING b) Notify RAD when team is dispatched c) RETURN TO Step 7	

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	REVISION 14 <hr/> PAGE 11 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
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14 INITIATE POST ACCIDENT SAMPLING:

- a) Verify post accident containment and/or reactor coolant sample - REQUIRED (verify with RAD)
- b) Assign in-plant survey to determine dose rate at sample station
- c) Notify RAD of survey results
- d) Initiate RWP (if required)
- e) Initiate the following (as necessary):
 - EPIP-4.22, POST ACCIDENT SAMPLING OF CONTAINMENT AIR
 - EPIP-4.23, POST ACCIDENT SAMPLING OF REACTOR COOLANT
 - EPIP-4.24, GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY
 - EPIP-4.25, LIQUID EFFLUENT SAMPLING DURING AN EMERGENCY
- f) Ensure HP coverage available during sampling and sample preparation
- g) RETURN TO Step 7

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	REVISION 14 <hr/> PAGE 12 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
15	<p>EVALUATE NEED FOR ADDITIONAL PERSONNEL:</p> <ul style="list-style-type: none"> a) Ask RAD about projected duration of emergency b) Check relief shift and/or additional personnel - NEEDED c) Prepare relief schedule and/or increased staffing schedule d) Give schedule to RAD for approval e) Initiate callout of scheduled personnel (if needed) f) Notify RAD when callout complete g) RETURN TO Step 7 	b) RETURN TO Step 7.
16	<p>CHECK TURNOVER - REQUIRED (due to arrival of a more senior HP representative or relief):</p> <ul style="list-style-type: none"> a) Provide successor briefing on plant conditions and HP actions underway b) Notify RAD of position change c) Stay with relief for approximately 30 minutes d) RETURN TO Step 7 	

NUMBER EPIP-4.02	PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	REVISION 14 PAGE 13 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p>_____ 17 TERMINATE EMERGENCY RESPONSE:</p> <ul style="list-style-type: none"> a) Notify HP staff when emergency is terminated b) Review recovery actions with RAD c) Maintain access control as required d) Initiate replacement of procedures and equipment used during the emergency <p>_____ 18 TERMINATE EPIP-4.02:</p> <ul style="list-style-type: none"> a) Give completed EPIP-4.02, all other applicable EIPs, forms and records to the Radiological Assessment Director b) Completed By: _____ <li style="margin-left: 40px;">Date: _____ <li style="margin-left: 40px;">Time: _____ 		

-END-