

May. 27, 2002

Page 1 of 1

MANUAL HARD COPY DISTRIBUTION

DOCUMENT TRANSMITTAL 2002-26769

---

USER INFORMATION:

~~FLAIM\*LAUREL B~~ EMPL#: 23244 CA#: 0386

~~Address: NUCSA2~~

Phone#: 254-3658

TRANSMITTAL INFORMATION:

~~TO: FLAIM\*LAUREL B~~ 05/27/2002  
LOCATION: DOCUMENT CONTROL DESK  
FROM: NUCLEAR RECORDS DOCUMENT CONTROL CENTER  
(NUCSA-2)

THE FOLLOWING CHANGES HAVE OCCURRED TO THE HARDCOPY  
OR ELECTRONIC MANUAL ASSIGNED TO YOU:

106 - 106 - HEALTH PHYSICS SPECIALIST (DUTY  
FOREMAN): EMERGENCY PLAN-POSITION SPECIFIC  
PROCEDURE

REMOVE MANUAL TABLE OF CONTENTS DATE: 02/27/2002

ADD MANUAL TABLE OF CONTENTS DATE: 05/24/2002

CATEGORY: PROCEDURES TYPE: EP  
ID: EP-PS-106  
REMOVE: REV: 8

ADD: REV: 9

REMOVE: PCAF 2001-1945 REV: N/A

UPDATES FOR HARD COPY MANUALS WILL BE DISTRIBUTED  
WITHIN 5 DAYS IN ACCORDANCE WITH DEPARTMENT  
PROCEDURES. PLEASE MAKE ALL CHANGES AND  
ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX UPON  
RECEIPT OF HARD COPY. FOR ELECTRONIC MANUAL USERS,  
ELECTRONICALLY REVIEW THE APPROPRIATE DOCUMENTS AND  
ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX.

A045

## EP-PS-106, REV9

REMOVE  
ADD

EP-PS-106 REV8  
EP-PS-106 REV9

REMOVE  
ADD

TAB A, REV3  
TAB A, REV4

REMOVE  
ADD

TAB B, REV4  
TAB B, REV5

REMOVE  
ADD

TAB C, REV4  
TAB C, REV5

REMOVE  
ADD

TAB D, REV1  
TAB D, REV2

REMOVE  
ADD

TAB E, REV2  
TAB E, REV3

REMOVE  
ADD

TAB F, REV2  
TAB F, REV2

MS WORDCONVERSION

REMOVE  
ADD

TAB G, REV2  
TAB G, REV3

REMOVE  
ADD

TAB H, REV1  
TAB H, REV1

MS WORDCONVERSION

REMOVE  
ADD

TAB I, REV1  
TAB I, REV1

MS WORDCONVERSION

REMOVE  
ADD

TAB J, REV1  
TAB J, REV1

MS WORDCONVERSION

REMOVE  
ADD

TAB 9, REV2  
TAB 9, REV3

REMOVE  
ADD

TAB 10, N/A  
TAB 10, N/A

# PROCEDURE COVER SHEET

PPL SUSQUEHANNA, LLC		NUCLEAR DEPARTMENT PROCEDURE	
HEALTH PHYSICS SPECIALIST: Emergency-Plan-Position-Specific Instruction			EP-PS-106 Revision 9 Page 1 of 3
<u>QUALITY CLASSIFICATION:</u> ( ) QA Program    (X) Non-QA Program		<u>APPROVAL CLASSIFICATION:</u> ( ) Plant                      ( ) Non-Plant (X) Instruction	
EFFECTIVE DATE: <u>5-24-2002</u> PERIODIC REVIEW FREQUENCY: <u>2 Years</u> PERIODIC REVIEW DUE DATE: <u>5-24-2004</u>			
<u>RECOMMENDED REVIEWS:</u> ALL			
Procedure Owner: <u>Nuclear Emergency Planning</u> Responsible Supervisor: <u>Primary Radiation Protection Coordinator</u> Responsible FUM: <u>Supervisor-Nuclear Emergency Planning</u> Responsible Approver: <u>General Manager-Plant Support</u>			

**HEALTH PHYSICS SPECIALIST  
(DUTY FOREMAN):**

Emergency Plan-Position Specific Procedure

---

**WHEN:** Technical Support Center (TSC) is activated

**HOW NOTIFIED:** Paged, on- and off-hours

**REPORT TO:** Radiation Protection Coordinator (RPC) then  
Damage Control Team Coordinator (DCTC)

**WHERE TO REPORT:** TSC

**OVERALL DUTY:**

---

Assess rad conditions within the restricted area and provide radiological and ALARA guidance to in-plant (India) teams.

<b>MAJOR TASKS:</b>	<b>TAB:</b>	<b>REVISION:</b>
Obtain briefing from the RPC and DCTC.	TAB A	4
Determine radiological conditions within the plant and restricted area.	TAB B	5
Assess onsite habitability - TSC, assembly areas, evacuation routes, and gatehouses.	TAB C	5
Brief the RPC and DCTC when there are significant changes in radiological conditions onsite.	TAB D	2
Prepare for team dispatch.	TAB E	3
Provide guidance and brief teams on radiological and ALARA considerations.	TAB F	2
Monitor in-plant (India) team activities, exposures, and reported survey measurements.	TAB G	3
Coordinate the packaging and transportation of accident samples for onsite and/or offsite analysis.	TAB H	1
Debrief team on radiological conditions encountered.	TAB I	1
Coordinate vehicle decontamination.	TAB J	1

---

**SUPPORTING INFORMATION:****TAB:**

---

Emergency Telephone Instructions	TAB 1
Emergency Organization	TAB 2
Logkeeping	TAB 3
SSES Contamination Plan	TAB 4
Emergency Facility Form Flow	TAB 5
Habitability of Assembly Areas and Evacuation Routes	TAB 6
PPL Emergency Personnel Dose Assessment and Protective Action Recommendation Guide	TAB 7
Personnel Assembly and Accountability	TAB 8
Preparation for India Team Dispatch	TAB 9
Emergency Forms	TAB 10
• Emergency Exposure Extension Request	
• Potassium Iodide (KI) Tracking Form	
• Emergency Plan Radiation Work Permit	
Accident Sample Packaging and Transportation	TAB 11

---

**REFERENCES:**

---

SSES Emergency Plan	
IE Notice 88-15	Approved Potassium Iodide for use in Emergency Involving Radioactive Iodine
NUREG-0654,	Planning Standards and Evaluation Criteria
NUREG-0731,	Guidelines for Utility Management Structure and Technical Resources, September 1980
HP-TP-801,	General Shipment of Radioactive Material

**MAJOR TASK:**

---

Obtain briefing from the RPC and DCTC.

**SPECIFIC TASKS:**

**HOW:**

---

1. Go to OSC and talk with the OSC Coordinator.

- 1a. Key questions to ask:

- (1) What is the current status of the affected unit?
- (2) Have DAMAGE CONTROL TEAMS been dispatched and if so where?
- (3) What information is available about radiological conditions in the plant?
- (4) Have any areas of the plant been evacuated?
- (5) Are additional Health Physics Technicians needed?

2. Go to TSC and talk with RPC and DCTC.

- 2a. Key questions to ask:

- (1) What is the reactor status of each unit?
- (2) Are there alarming ARM's?
- (3) Are there fire alarms or fire suppression alarms which indicate a steam leak?
- (4) Are there teams in the field and, if so, where?
- (5) Is there an effluent release and in what direction and magnitude?
- (6) What event(s) initiated the emergency?
- (7) Has an accountability been ordered?
- (8) Are damage control teams needed immediately?
- (9) Are sufficient Health Physics Technician qualified personnel available to support activities.

**NOTE:**

**Minimum staffing requirements are ten Health Physics Technician qualified personnel.**

**MAJOR TASK:**

---

Determine radiological conditions within the plant and Restricted Area.

**SPECIFIC TASKS:**

**HOW:**

---

1. Review ARM readings.

1a. Locate ARMS on plant maps located in the TSC.

1b. Group point print-outs of Reactor Buildings and Turbine Buildings are available on PICSY.

**NOTE:**

**High range ARM's contain sources which produce on-scale readings. Use low range ARM reading if available.**

2. Dispatch technicians to perform surveys of the affected area.

2a. Discuss:

- (1) Path of travel to affected area(s)-lowest dose.
- (2) Potential dose rates, airborne activity.
- (3) Alert or "drop back" dose rates.

3. Review CAM responses or alarms.

4. Determine if contamination monitors or friskers are alarming in the plant, at access points, or the gatehouses.

**MAJOR TASK:**

---

Assess onsite habitability - TSC, assembly areas, evacuation routes, and gatehouses.

**SPECIFIC TASKS:**

**HOW:**

---

1. Establish contamination controls and surveys of the TSC.

- 1a. Direct the performance of routine smears and air samples.
- 1b. Direct the placement of step off pads and friskers at doorways during releases or if plant status warrants.

**NOTE:**

Frisking pads should be set up at the stairwell door, north end of the TSC, with the frisker located appropriately. Access to the TSC from the elevator should be prevented by placing signs in the elevator.

Hang "FRISKING REQUIREMENTS" signs at each end of the TSC. Update the signs as radiological conditions warrant

2. Assess habitability of accountability areas and evacuation routes.

- 1c. Direct HP personnel located on elevation 676' of the control structure to ensure personnel reporting to the TSC from the tunnel access use the contamination monitors if release conditions warrant.
- 1d. Direct the decontamination of the TSC or arriving personnel as necessary.

**HELP**

---

**Personnel Assembly and  
Accountability  
See TAB 8**

---



**SPECIFIC TASKS:**

**HOW:**

---

3. Assess habitability of gatehouse or other facilities on site.

- 3a. If the gatehouses or Security Control Center is in the plume pathway, instruct the Security Coordinator to place the ventilation systems in recirculation, isolating the intake.
- 3b. If dose rates warrant, contact the Security Coordinator to evacuate structure(s).

**MAJOR TASK:**

---

Brief the RPC and DCTC when there are changes in radiological conditions onsite.

**SPECIFIC TASKS:**

**HOW:**

---

- |    |                                             |     |                                                                                                                                                                                                |
|----|---------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Brief RPC routinely and when changes occur. | 1a. | Characterize trends in radiological conditions seen from CAMs, ARMs, and surveys.                                                                                                              |
|    |                                             | 1b. | Status the teams, exposures, and habitability of areas.                                                                                                                                        |
|    |                                             | 1c. | Immediately update the RPC when significant changes occur and describe the possible impacts on radiological protection of personnel onsite and the possibility of affecting effluent releases. |
| 2  | Brief DCTC when significant changes occur.  | 2a  | Describe impacts on INDIA teams preparing for dispatch.                                                                                                                                        |
|    |                                             | 2b. | Status teams, exposures and radiological conditions of the areas.                                                                                                                              |
|    |                                             | 2c. | Immediately update the DCTC when significant changes occur which impact teams.                                                                                                                 |
|    |                                             | 2d. | Recommend actions to be taken by teams as a result of changing radiological conditions.                                                                                                        |

**MAJOR TASK:**

---

Prepare for team dispatch.

**SPECIFIC TASKS:**

**HOW:**

---

1. Assess radiological conditions and activities to be performed.

**HELP**

---

**Preparation for India Team Dispatch  
See TAB 9**

---

2. Process emergency exposure extensions if estimated exposures of team members require additional available exposure beyond 4 rem TEDE.

**HELP**

---

**PPL Emergency Personnel Dose  
Assessment and Protective Action  
Recommendation Guide  
See TAB 7**

---

**HELP**

---

**Emergency Forms  
See TAB 10**

---

3. Consider use of potassium iodide (KI) if actual or anticipated exposures to the thyroid are greater than 25 rem. Issue KI when approval is given.

- 3.a KI tablets are stored in the HP Instruments Shop.

**HELP**

---

**PPL Emergency Personnel Dose  
Assessment and Protective Action  
Recommendation Guide  
See TAB 7**

---

**MAJOR TASK:**

---

Provide guidance and brief teams on radiological and ALARA considerations.

**SPECIFIC TASKS:**

**HOW:**

---

1. If conditions permit, perform an ALARA review and brief team on the RWP.

- 1a. Use "PPL Emergency Personnel Dose Assessment and Protective Action Recommendation Guide" on "HP-AL-400-1" as time permits.

---

**HELP**

---

**PPL Emergency Personnel Dose  
Assessment and Protective Action  
Recommendation Guide  
See TAB 7**

---

---

**HELP**

---

**Emergency Forms  
See TAB 10**

---

2. Assign health Physics Technician to the team.

**MAJOR TASK:**

---

Monitor in-plant (India) team activities, exposures, and reported survey measurements.

**SPECIFIC TASKS:**

**HOW:**

---

- |                         |                                                                              |
|-------------------------|------------------------------------------------------------------------------|
| 1. Monitor activities.  | 1a. Listen to radio communications between teams and TSC.                    |
| 2. Monitor exposures.   | 2a. Monitor or track exposures against team exposure limits.                 |
|                         | 2b. Request TSC Radio Communicator to request exposure data from teams.      |
| 3. Monitor survey data. | 3a. Monitor survey results reported via radio to the TSC.                    |
|                         | 3b. Request TSC Radio Communicator to request survey data from teams.        |
|                         | 3c. Based on survey data, consider the need to change radiological controls. |

**MAJOR TASK:**

---

Coordinate the packaging and transportation of accident samples for onsite and/or offsite analysis.

**SPECIFIC TASKS:**

**HOW:**

---

1. Prepare and ship samples.

1a. Contact Effluents-Shipping to ship samples in accordance with HP-TP-801.

**HELP**

---

**Accident Sample Packaging and  
Transport.  
See TAB 11**

---

**MAJOR TASK:**

---

Debrief team on radiological conditions encountered.

**SPECIFIC TASKS:**

**HOW:**

---

- |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Debrief when team returns to TSC. | 1a. Key questions to ask: <ul style="list-style-type: none"><li>(1) What are the dose rates at the job location and on the routes traveled to the location?</li><li>(2) Did you observe CAM alarms or readings and, if so, what were they?</li><li>(3) Did you observe steam leaks, smoke or fire, leaking or standing water, resins, or equipment damages?</li><li>(4) Did you perform an air sample and, if so, what was the activity/DAC and Radionuclide make-up?</li><li>(5) What was the total exposure received by each member of the team?</li><li>(6) Was anyone contaminated?</li></ul> |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**MAJOR TASK:**

---

Coordinate vehicle decontamination.

**SPECIFIC TASKS:**

**HOW:**

---

1. Decontaminate vehicle(s) which are outside the Restricted Area.

- 1a. Establish access/egress controls using Security.
- 1b. Perform a preliminary survey of affected vehicles. As applicable, check the hood, driver's seat, door handles, tires and wells, and air cleaner.
- 1c. Select an appropriate method of decontamination. Examples are:  
1) Hand wiping of exposed surfaces.  
2) Rinsing with water.  
3) Washing with soap and water.  
4) Use of a high pressure washer (hydro-laser).
- 1d. Select an appropriate location to perform decontamination.

**NOTE:**

**If water is used, waste water must be collected/contained. The vehicle inspection pit at the unaffected gatehouse can be used providing all the drains are blocked.**

- 1) Hand wiping can be performed in a convenient location such as the unaffected unit parking lot, Training Center parking lot, or Information Center parking lot, etc.

- 1e. Survey all vehicles requiring egress. Survey locations to consider are hood, driver's seat, door handles, tires and wells, air cleaner etc.
- 1f. Record all survey results and license or identification number.



**SPECIFIC TASKS:**

**HOW:**

2. Decontaminate vehicle(s) which are within the restricted area.

- 1g Review results with RPC.
- 1h. Coordinate with Security the release of vehicles.
- 2a. Establish access/egress controls using Security.
- 2b. Perform a preliminary survey of affected vehicles. As applicable, check the hood, driver's seat, door handles, tires and wells, and air cleaner.
- 2c. Select an appropriate method of decontamination. Examples are:
  - 1) Hand wiping of exposed surfaces.
  - 2) Rinsing with water.
  - 3) Washing with soap and water.
  - 4) Use of a high pressure washer (hydro-laser).
- 2d. Select an appropriate location to perform decontamination.

**NOTE:**

**If water is used, waste water must be collected/contained. The Radwaste truck bay, common area truck bay, or other indoor facility which can collect the waste water can be utilized.**

- 2e. Survey all vehicles after decontamination. Survey locations to consider are hood, driver's seat, door handles, tires and wells, air cleaner, etc.
- 2f. Record all survey results and license or identification number.
- 2g. Review results with the RPC.
- 2h. Coordinate with Security the release of vehicles.

## PREPARATION FOR INDIA TEAM DISPATCH

1. Upon identification of the need to assemble and dispatch teams during an emergency condition, the Health Physics Specialist will:
  - a. Assemble and evaluate existing and potential radiological conditions that will relate to the team's activities.
  - b. Consider how teams will access areas where elevated dose rates exist; in addition, consider a low dose approach where possible.
  - c. Consult with appropriate TSC Coordinators on the activities to be performed and the radiological conditions present to arrive at an estimated exposure for team members.
  - d. Obtain current YTD dose information for team members and evaluate the need for an exposure extension for emergency exposures.
    - (1) INDIA team members are permitted to accumulate doses up to 4 rem once entry into the Emergency Plan occurs.
  - e. Contact the Radiation Protection Coordinator when exposure extensions for emergency exposure in excess of 4 rem authorizations are required.
  - f. Review (or prepare) the Emergency Plan RWP for the activity to be performed.
    - (1) Description of task.
    - (2) Protective clothing and respiratory requirements.
    - (3) Dosimetry requirements (specify Alarm set points for PADs).
    - (4) Any special precautions.
  - g. Utilize the Emergency Plan RWP (YYYY-8000) to track team members and their exposure.
    - (1) Use the RWP REMARKS LOG to specify and document:
      - PAD Settings, Dress Requirements, Dosimetry, Engineering Controls, or other requirements.
  - h. Verify respirator qualifications, as necessary.

DATE      /      /           TIME           TEAM     

☐ Extend to Rem

Approved by/date (RPC/DASU): \_\_\_\_\_/\_\_\_\_\_

Approved by/date (ED/RM): \_\_\_\_\_/\_\_\_\_\_

Signature of volunteer denotes an understanding and an awareness of the risks involved, including the numerical levels of dose at which acute effects of radiation will be incurred and numerical estimates of the risk of delayed effects.

## ALARA REVIEW

Check ☒

### A. PERSON-REM ESTIMATION

- |                                                                                                                                                           |                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>_____ 1. Assess the number of workers required.</p> <p>2. Evaluate the use of fewer workers.</p> <p>3. Investigate experience of workers selected.</p> | <p>4. Assure all workers have essential, productive tasks.</p> <p>5. Assure workers have available exposure.</p> <p>6. Evaluate criteria for emergency exposure.</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### B. PLANNING

- |                                                                                                                                                                                                      |                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>_____ 1. Preplanning meeting with supervisors and/or workers required.</p> <p>2. Access to and exit from work are planned.</p> <p>3. Evaluate staging/setup in accessible low dose rate area.</p> | <p>4. Prefabrication considered.</p> <p>5. Evaluate use of remote handling devices or other special tools.</p> <p>6. Cold equipment "mockups", rehearsals, or other practical exercise.</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### C. EXPOSURE REDUCTION CONTROLS

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>_____ 1. Evaluate need for timekeeping.</p> <p>2. Consider use of water bucket shielding for carrying hot parts.</p> <p>3. Consider use of shielded drums or lead "pigs" for carrying hot parts.</p> <p>4. Consider use of temporary shielding such as lead wool blankets, lead sheets, or lead bricks.</p> <p>5. Consider use of shadow shields utilizing a portable curtain shield.</p> <p>6. System or equipment to be filled with water.</p> | <p>7. System or equipment to be drained and flushed.</p> <p>8. Assess exposure reduction by permitting decay of radiation sources during reactor shutdown or system isolation.</p> <p>9. Assess the need of communication devices such as head sets, TV cameras, others.</p> <p>10. Assess practicality of removing component from radiation area.</p> <p>11. Evaluate use of photographs of "as installed equipment" to aid in worker briefings.</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### D. AIRBORNE/CONTAMINATION CONTROL

- |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>_____ 1. Assess need for respiratory protection usage against effectiveness of engineering controls.</p> <p>2. Assess individual's history of internal DAC-Hr exposure to airborne contamination.</p> | <p>3. Assess necessity of area decon before commencement of work.</p> <p>4. Containment structure (tent) required.</p> <p>5. Portable ventilation system required.</p> <p>6. Assess need for flooding or draining rooms.</p> <p>7. Assess hot particle or fuel fragment migration.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Performed by \_\_\_\_\_

Provided below are the instructions on how to retrieve an individual's occupational exposure information.

1. Log into NIMS, go to RPDPERX screen.
2. Query the individual.
3. Click on DOSE SUMMARIES button.
4. The screen in Figure 1 will appear.
5. The individual's YEAR-TO-DATE (YTD) dose will be provided as 'NRC PERIOD EXPOSURE' for the current calendar year.

The screenshot shows the 'Radiation Protection Management {PPL TATS}' application window. The 'Person Related Information' section is active, displaying fields for Name, ID, and Type (SSN). Below this, the 'Dose Summaries' tab is selected, showing a table of exposure data. The table includes columns for MP, Type, DDE (mrem), LDE (mrem), SDE.WB (mrem), SDE.ME (mrem), CEDE (mrem), CDE (mrem), TEDE (mrem), and TOD (mrem). The data rows show lifetime and 2002 NRC period exposure levels and available doses.

MP	Type	DDE (mrem)	LDE (mrem)	SDE.WB (mrem)	SDE.ME (mrem)	CEDE (mrem)	CDE (mrem)	TEDE (mrem)	TOD (mrem)
	Lifetime Exposure	52	52	62	62	0	0	52	52
	Lifetime Level							45000	
2002	NRC Period Available	2000	12000	40000	40000			2000	2000
2002	NRC Period Exposure	0	0	0	0	0	0	0	0
2002	NRC Period Level	2000	12000	40000	40000			2000	2000
2002	non SSES Exposure								
2002	SSES Exposure	0	0	0	0	0	0	0	0

Figure 1

## POTASSIUM IODIDE (KI) TRACKING FORM

**(Recommended dose: 1 tablet/day = 130 mg)**

[illegible]

Approved by: \_\_\_\_\_  
Emergency Director - or - Recovery Manager

Date \_\_\_\_\_

**SUSQUEHANNA STEAM ELECTRIC STATION  
EMERGENCY PLAN RADIATION WORK PERMIT**

INDIA TEAM# \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Time: \_\_\_\_\_  
☐ Unit 1    ☐ Reactor    ☐ Turbine    Room: \_\_\_\_\_  
☐ Unit 2    ☐ Other    ☐ Radwaste    Elevation: \_\_\_\_\_

Task Description: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

<i>Protective Clothing:</i>	<input type="checkbox"/> None	<input type="checkbox"/> Booties/Gloves	<input type="checkbox"/> Full PCs
	<input type="checkbox"/> Papers	<input type="checkbox"/> Plastics	<input type="checkbox"/> Double PCs
<i>Respiratory Protection:</i>	<input type="checkbox"/> None	<input type="checkbox"/> Filter	<input type="checkbox"/> Iodine
	<input type="checkbox"/> PAPR	<input type="checkbox"/> SCBA	
<i>Special Dosimetry:</i>	<input type="checkbox"/> None	<input type="checkbox"/> Extremity	<input type="checkbox"/> Multi-Badge <input type="checkbox"/> Neutron
<b>PAD Settings:</b>			
Dose _____	Dose Rate _____		

Fall Back Dose Rates

Special Instructions to HP: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Required Surveys:    ☐ Dose Rate    ☐ Neutron    ☐ Beta    ☐ Contamination  
 Required Air Samples:    ☐ Particulate    ☐ Iodine    ☐ Noble Gas    ☐ BZA

Issued by: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Time: \_\_\_\_\_  
 Title: \_\_\_\_\_

Name	Slot#	Avail Dose	Time In	PAD In	Time Out	PAD Out	Net Dose

## **RWP/ALARA REVIEW**

### **A. PERSON-REM ESTIMATION**

1. Assess the number of workers required.
2. Evaluate the use of fewer workers.
3. Investigate experience of workers selected.
4. Assure all workers have essential, productive tasks.
5. Assure workers have available exposure.
6. Evaluate criteria for emergency exposure.

### **B. PLANNING**

1. Access to and exit from work area.
2. Evaluate staging/setup in accessible low dose rate area.
3. Prefabrication considered.
4. Evaluate use of remote handling devices or other special tools.

### **C. EXPOSURE REDUCTION CONTROLS**

1. Evaluate the need for timekeeping.
2. Consider use of water bucket shielding, shielded drums, or lead pigs for carrying hot parts.
3. Consider use of temporary shielding.
4. Assess the uses of communication devices such as head sets, video cameras, etc.

### **D. AIRBORNE/CONTAMINATION CONTROL**

1. Assess need for respiratory protection usage against effectiveness of engineering controls.
2. Assess exposure to Noble Gases.
3. Assess need for flooding or draining rooms.
4. Assess hot particle or fuel fragment migration.

### **E. SPECIAL CONSIDERATIONS**

1. Assess the need for special dosimetry
2. Assess the need for exposure extensions.