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THE FOLLOWING CHANGES HAVE OCCURRED TO THE HARDCOPY  
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106 - 106 - HEALTH PHYSICS SPECIALIST (DUTY  
FOREMAN): EMERGENCY PLAN-POSITION SPECIFIC  
PROCEDURE

REMOVE MANUAL TABLE OF CONTENTS DATE: 03/06/2003

ADD MANUAL TABLE OF CONTENTS DATE: 04/16/2003

CATEGORY: PROCEDURES TYPE: EP  
ID: EP-PS-106  
REMOVE: REV:9

ADD: REV: 10

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PROCEDURE COVER SHEET

PPL SUSQUEHANNA, LLC	NUCLEAR DEPARTMENT PROCEDURE	
HEALTH PHYSICS SPECIALIST: Emergency-Plan-Position-Specific Instruction		EP-PS-106 Revision 10 Page 1 of 3
<b>QUALITY CLASSIFICATION:</b> <input type="checkbox"/> QA Program <input checked="" type="checkbox"/> Non-QA Program	<b>APPROVAL CLASSIFICATION:</b> <input type="checkbox"/> Plant <input type="checkbox"/> Non-Plant <input checked="" type="checkbox"/> Instruction	
EFFECTIVE DATE: <u>4-16-2003</u> PERIODIC REVIEW FREQUENCY: <u>2 Years</u> PERIODIC REVIEW DUE DATE: <u>4-16-2005</u>		
<b>RECOMMENDED REVIEWS:</b> 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>Vice President-Nuclear Operations</u>		

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

Emergency Plan-Position Specific Procedure

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**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:**

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

<b><u>MAJOR TASKS:</u></b>	<b><u>TAB:</u></b>	<b><u>REVISION:</u></b>
Obtain briefing from the RPC and DCTC.	TAB A	5
Determine radiological conditions within the plant and restricted area.	TAB B	5
Assess onsite habitability - TSC, accountability areas, evacuation routes, and gatehouses.	TAB C	7
Brief the RPC and DCTC when there are significant changes in radiological conditions onsite.	TAB D	3
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:**

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**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 Accountability Areas, Assembly Areas and Evacuation Routes	TAB 6
PPL Emergency Personnel Dose Assessment and Protective Action Recommendation Guide	TAB 7
Personnel 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:**

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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:**

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Obtain briefing from the RPC and DCTC.

**SPECIFIC TASKS:**

**HOW:**

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1. Talk with RPC and DCTC or OSC Coordinator.

1a. Key questions to ask:

- (1) What is the current 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) Are additional HP Technicians needed?
- (6) Is there an effluent release and in what direction and magnitude?
- (7) What event(s) initiated the emergency?
- (8) Has an accountability been ordered?
- (9) Have any areas of the plant been evacuated?
- (10) Are damage control teams needed immediately?
- (11) Are sufficient Health Physics Technician qualified personnel available to support activities.

**NOTE:**

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

**MAJOR TASK:**

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

**SPECIFIC TASKS:**

**HOW:**

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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.

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**HELP**

**Personnel Accountability  
See TAB 8**

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**HELP**

**Habitability of Accountability Areas,  
Assembly Areas and Evacuation  
Routes  
See TAB 6**

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**SPECIFIC TASKS:**

**HOW:**

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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:**

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

**SPECIFIC TASKS:**

**HOW:**

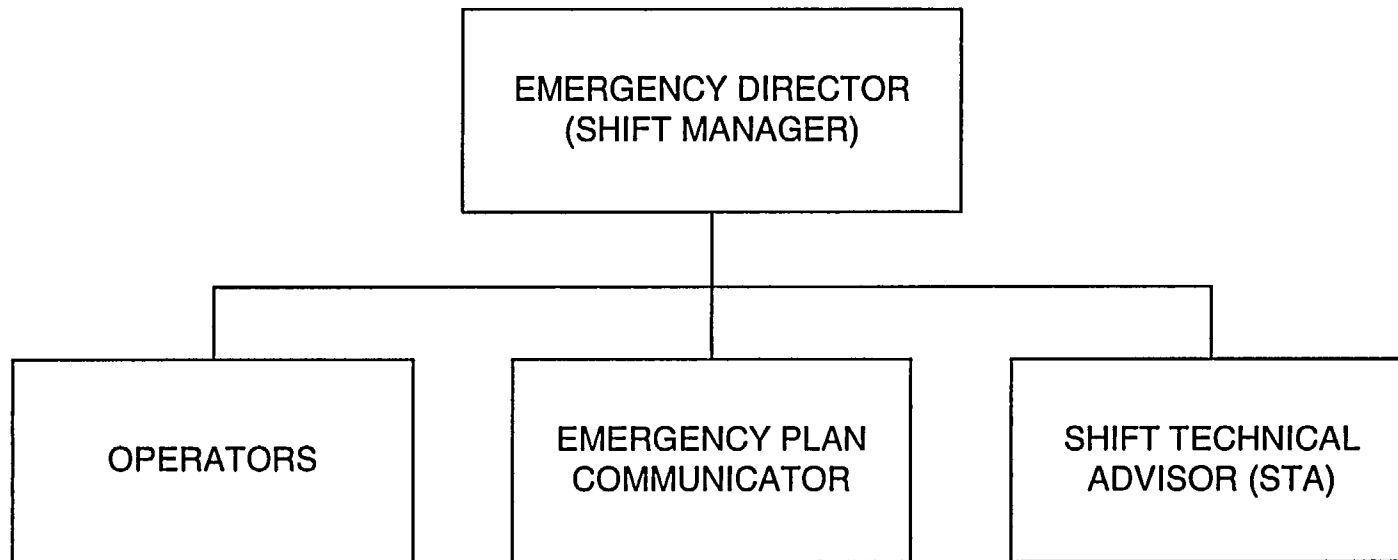
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- |    |  |     |  |
|----|--|-----|--|
| 1. | Brief RPC routinely and when changes occur.                    | 1a. | Characterize trends in radiological conditions seen from CAMs, ARMs, and surveys.  |
|    |  | 1b. | Status the teams, exposures, 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 and OSC Coordinator 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.  |

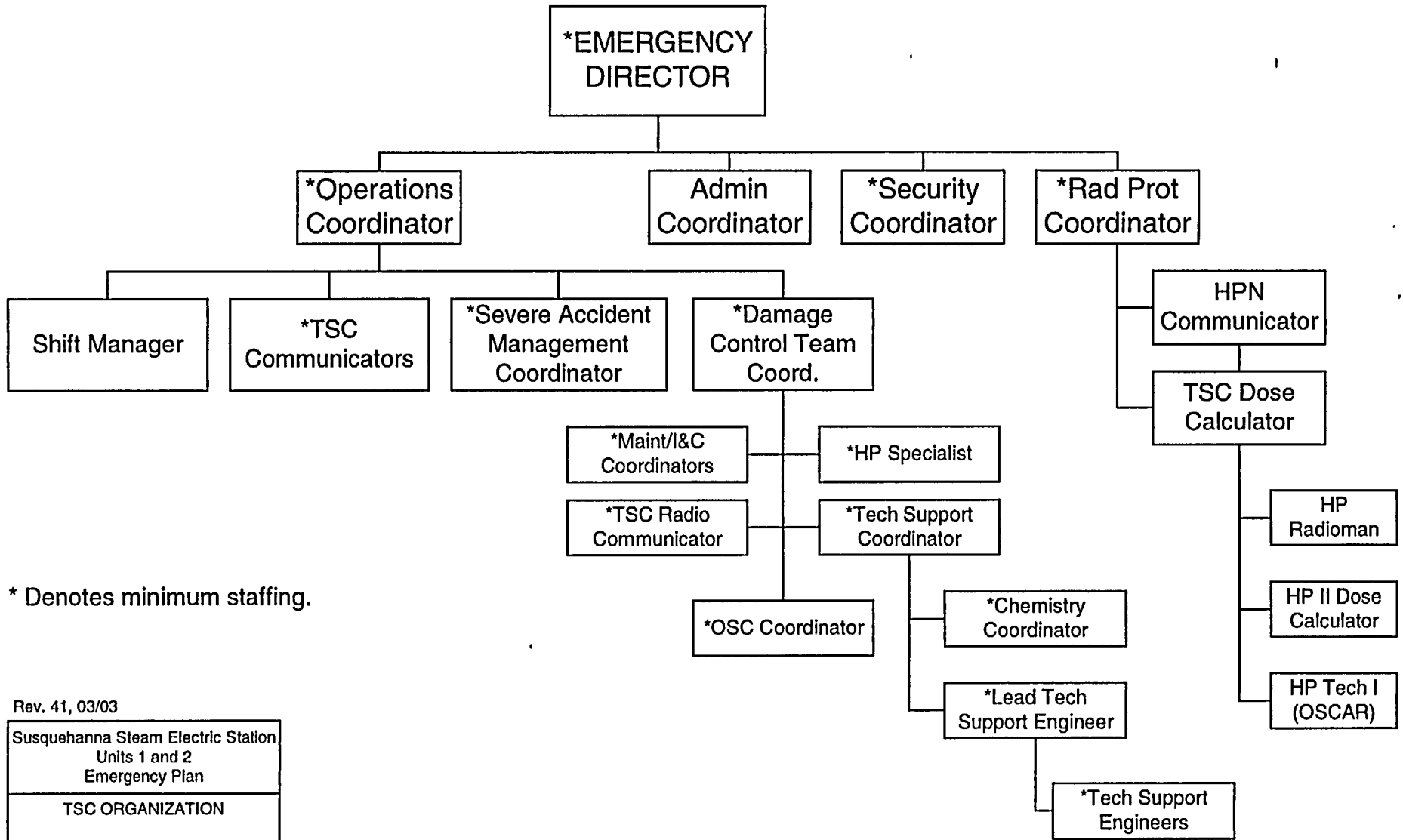


**EMERGENCY ORGANIZATION  
CONTROL ROOM**

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## TSC ORGANIZATION



\* Denotes minimum staffing.

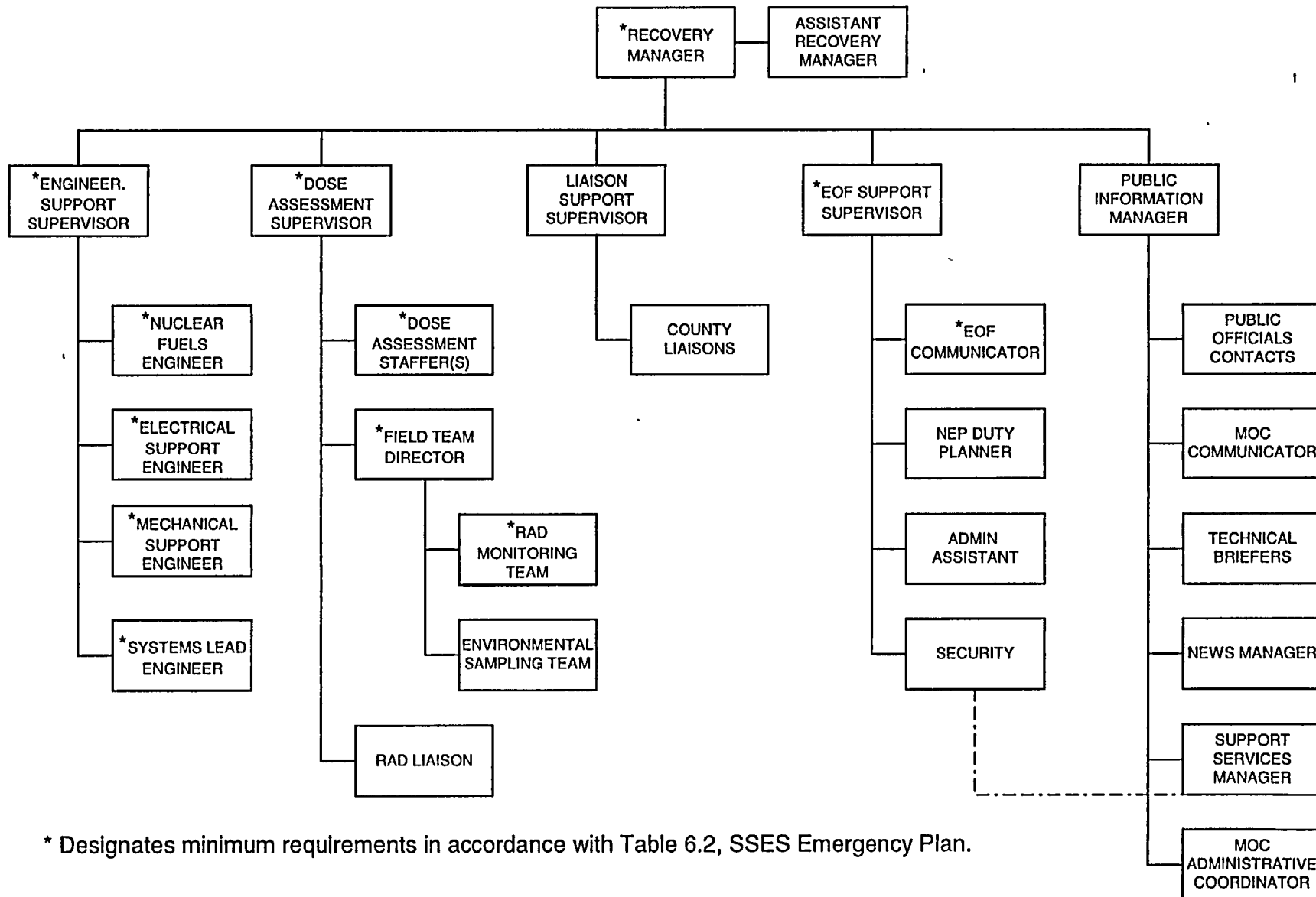
Rev. 41, 03/03

Susquehanna Steam Electric Station  
Units 1 and 2  
Emergency Plan

TSC ORGANIZATION

FIGURE 6 2

# EOF ORGANIZATION



\* Designates minimum requirements in accordance with Table 6.2, SSES Emergency Plan.

**EMERGENCY EXPOSURE EXTENSION REQUEST**

DATE \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ TIME \_\_\_\_\_ TEAM \_\_\_\_\_

**TYPE OF DOSE EXTENSION (✓):**

Extend to 25 Rem

Extend to \_\_\_\_\_ Rem

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

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

Name	Soc Sec #	Signature	Current year, dose, mrem	Lifetime dose, mrem	E-plan Function

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

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

### B. PLANNING

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

### C. EXPOSURE REDUCTION CONTROLS

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

### D. AIRBORNE/CONTAMINATION CONTROL

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

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.

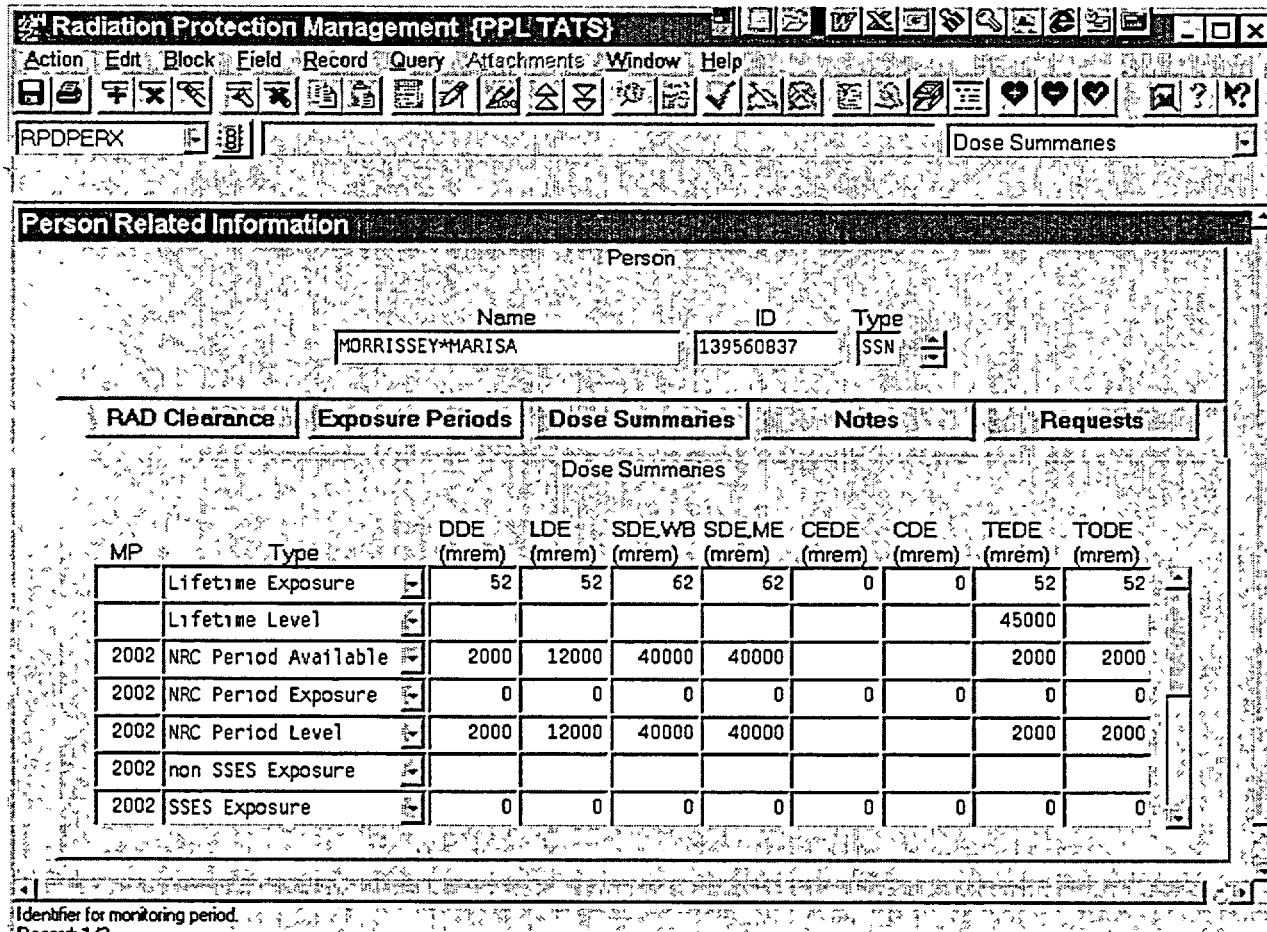


Figure 1