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**Job Performance Measure  
Worksheet**

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Facility: Pilgrim

Task No.: 299-03-04-026

Task Title: Review Procedure Change to  
PNPS 8.M.1-20

Job Performance Measure No: Admin 7

K/A Reference: G 2.2.6, RO-2.3/SRO-3.3

Position: SRO

Examinee: \_\_\_\_\_

NRC Examiner: \_\_\_\_\_

Date: \_\_\_\_\_

**Method of Testing:**

Simulated Performance \_\_\_\_\_

Actual Performance \_\_\_\_\_ ✓

Classroom \_\_\_\_\_

Simulator \_\_\_\_\_ Plant \_\_\_\_\_ ✓

**Read to the Examinee:**

"I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied."

**Initial Conditions:** You are the OSS. The plant is operating at 100% power. It was just determined that the functional test of the SDIV High Level Bypass Switch Rod Block was not performed during the last outage per 8.M.1-20 Attachment 5. An I&C Supervisor has presented you with a procedure change which will allow performance of this test with the installation of jumpers in C905 which will simulate the Mode Switch in Shutdown or Refuel in the SDIV High Level Bypass Circuitry.

**Task Standard:** The candidate shall determine that the submitted change cannot be approved as a non-intent change, will determine the required type of change, and will complete the PCF through Section D.

**Required Materials:** Marked up PCF.

**General References:** PNPS 8.M.1-20, NOP98A1

**Initiating Cue:** (Operators name) Process the procedure change in accordance with NOP98A1 and inform the examiner when complete. (Present candidate with marked up PCF and 8.M.1-20).

**Time Critical Task:** NO

**Validation Time:** 20 minutes

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**PERFORMANCE INFORMATION**  
(Critical steps denoted with a check mark)

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\_\_\_\_\_ **Performance Step 1:** Locates and reviews appropriate procedures.

**Standard:** Candidate determines that NOP98A1 is the appropriate procedure, reviews NOP98A1.

**Comment:**

✓ \_\_\_\_\_ **Performance Step 2:** Determines that this change cannot be processed as a Non-Intent Change.

**Standard:** Candidate determines that this change is an intent change and does NOT continue processing as a non-intent change.

**Comment:**

**Cue:** Once the candidate determines that the change is an intent change, the examiner may need to cue him to determine the appropriate type change and process the change per the applicable requirements of NOP98A1.

\_\_\_\_\_ **Performance Step 3:** Candidate refers to section 6.1.4[5] and determines that this is an intent change and that 6.1.3 must be referenced. Refers to 6.1.3 and determines that since the revision is an intent change to a Safety Related Procedure, the change must be processed in accordance with section 6.1.3.2 of NOP98A1 as an "Intent Change Permanent Revision".

**Standard:** Candidate determines that the change must be processed as an "Intent Change Permanent Revision".

**Comment:**

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**PERFORMANCE INFORMATION**  
(Critical steps denoted with a check mark)

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**Performance Step 4:** Obtain a copy of Procedure Change Form (PCF) from the procedure work group, or an equivalent electronic copy.

**Standard:** Candidate obtains a PCF.

**Comment:** Once the candidate demonstrates ability to obtain PCF, supply him with a copy of a PCF. Candidate may also elect to simply mark up the PCF that was originally supplied.

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✓ **Performance Step 5:** Complete PCF sections A, B, C, and D.

**Standard:** PCF sections A, B, C, and D completed per attached PCF.

**Comment:** Critical portion is identifying change as an intent change, checking at least one box in Section C and checking at least one box in Section D.

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**Terminating Cue:** When PCF is complete through Section D, the examiner should inform the candidate that no further actions are required.

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## Information Provided to Candidate

**Initial Conditions:** You are the OSS. The plant is operating at 100% power. It was just determined that the functional test of the SDIV High Level Bypass Switch Rod Block was not performed during the last outage per 8.M.1-20 Attachment 5. An I&C Supervisor has presented you with a procedure change which will allow performance of this test with the installation of jumpers in C905 which will simulate the Mode Switch in Shutdown or Refuel in the SDIV High Level Bypass Circuitry.

**Initiating Cue:** Process the procedure change in accordance with NOP98A1 and inform the examiner when complete.

## **Fuel Handling Operations**

### **Admin Question #1:**

You are supervising fuel moves when the fuel bundle that is grappled to the refuel bridge mast becomes ungrappled and drops on top of the vessel. What immediate actions are required?

Answer:

Terminate all fuel handling/refuel floor operations (0.5)

Evacuate the refuel floor (0.5)

Note: Another immediate operator action is to lower any grappled fuel bundle to the nearest location, however the question should indicate to the candidate that no fuel bundle is presently grappled.

Closed Reference

Reference: PNPS 5.4.3 Immediate Actions

K/A: 2.1.8, 3.8/3.6

## **Fuel Handling Operations**

### **Admin Question #2:**

You are ready to commence unloading the core at the beginning of a refueling outage. The first fuel bundle to be removed is in position 02-23. Which SRMs have to be operable to allow removing this fuel bundle and what requirements must be met to consider these SRMs operable?

Answer:

SRM D operable and either SRM A or C operable.(0.5)

The SRMs must be inserted to normal operating level (0.25) and have a minimum reading of 3 cps (0.25)

Note: Candidate may also say that special movable dunking type detector may be used during major core alterations provided this detector is connected to normal SRM circuitry. However, this is not required for full credit.

Open Reference

Reference: PNPS 4.3 page 44 of 44  
T.S. 3.10.B

K/A: 2.1.12, 2.9/4.0

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### Job Performance Measure Worksheet

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Facility: Pilgrim

Task No.: 200-05-01-006

Task Title: P&ID Trace

Job Performance Measure No: Admin 6

K/A Reference: G 2.1.24, RO-2.8/SRO-3.1

Position: RO/SRO

Examinee: \_\_\_\_\_

NRC Examiner: \_\_\_\_\_

Date: \_\_\_\_\_

Method of Testing:

Simulated Performance \_\_\_\_\_

Actual Performance \_\_\_\_\_ ✓

Classroom \_\_\_\_\_

Simulator \_\_\_\_\_ Plant \_\_\_\_\_ ✓

#### Read to Examinee:

"I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied."

**Initial Conditions:** In accordance with EOP-01 FireWater is required to be cross-tied with RHR.

**Task Standard:** The candidate successfully traces the flowpath from the 'A' Fire Water Storage Tank to the RPV via the 'A' RHR Loop. Steps may be performed in any order.

**Required Materials:** Highlighter

**General References:** P&ID M-218 Sheets 1 and 2, M-241 Sheet 1

**Initiating Cue:** "(Operator's name), using the P&ID's and a highlighter, trace the FireWater flowpath from the 'A' Fire Water Storage Tank to the RPV using the 'A' RHR Loop and inform the examiner when complete."

**Time Critical Task:** NO

**Validation Time:** 20 minutes

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**PERFORMANCE INFORMATION**  
(Critical steps denoted with a check mark)

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**Performance Step 1:** Identify correct P&IDs to trace the flowpath.

**Standard:** Candidate identifies and locates P&ID's M-218 Sheets 1 and 2, and M-241 Sheet 1.

**Comment:** Candidate will highlight flowpaths listed below.

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✓ **Performance Step 2:** Using P&ID M218 Sheet 2 (H-6) locate FireWater Storage Tank 107A.

**Standard:** Using P&ID M218 Sheet 2 candidate locates FireWater Storage Tank 107A (H-6).

**Comment:**

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✓ **Performance Step 3:** Using P&ID M218 Sheet 2 (D-5) locate Motor Driven Fire Pump P-135.

**Standard:** Using P&ID M218 Sheet 2 candidate locates Motor Driven Fire Pump P-135 (D-5).

**Comment:**

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**Performance Step 4:** Transition from P&ID M218 Sheet 2 (D-2) to P&ID M218 Sheet 1 (G-8).

**Standard:** Candidate transitions from P&ID M218 Sheet 2 (D-2) to P&ID M218 Sheet 1 (G-8).

**Comment:**

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**PERFORMANCE INFORMATION**  
(Critical steps denoted with a check mark)

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✓ **Performance Step 5:** Using P&ID M218 Sheet 1 locate the removable spool piece (G-6).

**Standard:** Using P&ID M218 Sheet 1 candidate locates the removable spool piece (G-6).

**Comment:**

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**Performance Step 6:** Transition from P&ID M218 Sheet 1 (G-6) to P&ID M241 Sheet 1 (B-3).

**Standard:** Candidate transitions from P&ID M218 Sheet 1 (G-6) to P&ID M241 Sheet 1 (B-3).

**Comment:**

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✓ **Performance Step 7:** Using P&ID M241 Sheet 1 (B-3) trace flowpath to RPV.

**Standard:** Candidate traces flowpath to RPV using P&ID M241 Sheet 1 (B-3) to (G-5).

**Comment:**

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**Terminating Cue:** When the flowpath has been traced and highlighted, the candidate should inform the examiner that the task is complete.

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### Information Provided to Candidate

**Initial Conditions:** In accordance with EOP-01 FireWater is required to be cross-tied with RHR.

**Initiating Cue:** Using the P&ID's and a highlighter, trace the FireWater flowpath from the 'A Fire Water Storage Tank to the RPV using the 'A' RHR Loop and inform the examiner when complete.

## **Radiation Work Permits**

### **Admin Question #1:**

Using the attached survey, identify the radiological postings required at the entrance to the 'A' RHR Valve Room, if any.

Answer:

Caution (or Danger), High Radiation Area (0.33)

Caution, Contaminated Area (0.33)

RWP Required For Entry (0.33)

Open Reference

Reference: PNPS 6.1-025 Rev 7 Section 3.0 Definition of Contaminated Area and High Radiation Area, Section 8.2 and 8.8

K/A: 2.3.10 2.9/3.3

# RADIOLOGICAL SURVEY FORM

Survey By: R.P. Teesh (Print)

Signature: RP Teesh

MAP # 33

Dose Rate Inst.: RO-2

Cont. Inst.: BUN-14

Alpha Contamination inst.: SAC

Date: 5/7/00

Serial No.: 836

Serial No.: 3317

Serial No.: 14

Time: 1140

Cal Due: 8/19/00

Cal Due: 7/27/00

Cal Due: 1/1/00

Rx Power: 100 %

Routine / Specific RWP 00-101

Probe No.: 921

Collimated Probe # A

H2 Level: 32 SCFM

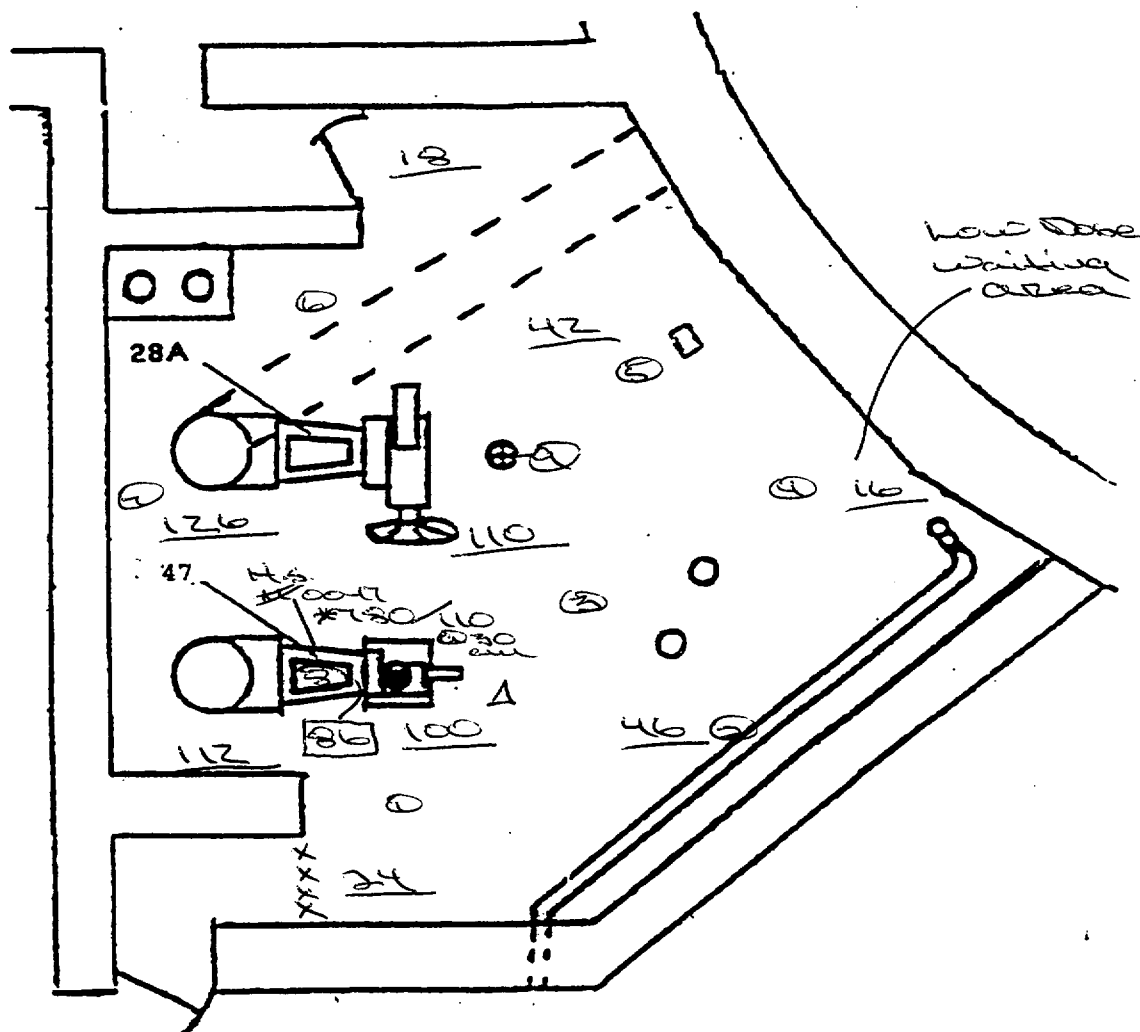
Surveyor's Dose: 2.6 mR

Cal Due: 8/11/00

Cal Due: 1/1/00

Status Map Updated Initial: RP

## A VALVE RM



### Contamination

| #  | Beta | Location |
|----|------|----------|
| 1  | 6K   | floor    |
| 2  | 6K   | pipe     |
| 3  | 2K   | floor    |
| 4  | 6K   | floor    |
| 5  | 1K   | floor    |
| 6  | 1K   | floor    |
| 7  | 1K   | wall     |
| 8  | 2K   | 47 tank  |
| 9  | 4K   | ceiling  |
| 10 |      |          |
| 11 |      |          |
| 12 |      |          |
| 13 |      |          |
| 14 |      |          |
| 15 |      |          |
| 16 |      |          |
| 17 |      |          |
| 18 |      |          |
| 19 |      |          |
| 20 |      |          |
| 21 |      |          |
| 22 |      |          |
| 23 |      |          |
| 24 |      |          |
| 25 |      |          |
| 26 |      |          |
| 27 |      |          |
| 28 |      |          |
| 29 |      |          |
| 30 |      |          |

AIRBORNE = 0.03 DAC

1. Circled number indicates smear location
2. Smears in dpm/100cm<sup>2</sup> unless indicated
3. Triangles indicate air sample locations
4. Underlined numbers are gamma dose in mR
5. Squares indicate Beta dose rates in mrad/hr
6. \*Indicate contact dose rates in mR/hr /mrad
7. Contamination in KDPM unless noted

### COMMENTS:

head removed from 47 valve  
updated hot spot label 00-17

ROS Review: \_\_\_\_\_

FOR TRAINING USE ONLY!!

**Radiation Work Permits**  
**Admin Question #2:**

Under what conditions may a General RWP be used for access to a High Radiation Area?

Answer:

Operator Rounds (operator assigned to Radwaste inclusive) or inspections (0.5)

Radiation Protection entries and surveys (0.5)

Open Reference

Reference: 6.1-031 Rev Page 8

K/A: 2.3.10 2.9/3.3

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## Job Performance Measure Worksheet

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Facility: Pilgrim

Task No.: 015-05-02-013

Task Title: Classify GE Due to ATWS

Job Performance Measure No: Admin 5

K/A Reference: G 2.2.6, RO-2.3/SRO-3.3

Position: SRO

Examinee: \_\_\_\_\_

NRC Examiner: \_\_\_\_\_

Date: \_\_\_\_\_

Method of Testing:

Simulated Performance ✓

Actual Performance \_\_\_\_\_

Classroom \_\_\_\_\_

Simulator \_\_\_\_\_

Plant ✓

### Read to the Examinee:

"I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied."

**Initial Conditions:** The plant has experienced an ATWS with the following conditions: All efforts to insert control rods have been unsuccessful.

- The Main Condenser is not available
- SRVs are being used to control pressure in a band of 1000-1050 psig
- Reactor power is 30% and is lowering due to termination of injection to the RPV
- Torus water temperature is 120°F and rising
- Torus water level is 129 inches and stable
- Drywell pressure is 15 psig
- Torus bottom pressure is 19 psig
- No release is in progress
- Wind is from 90 degrees at 5 mph
- All efforts to inject boron have been unsuccessful

**Task Standard:** A general emergency shall be declared due to exceeding EAL 2.3.1.4. The Initial Notification Form shall be completed and given to the Operations Assistant within 15 minutes. The E-Plan shall be completed up to, and including Step 5.2.4 of EP-IP-100. Steps may be performed in any order provided critical time frames are met.

**Required Materials:** Initial Notification Form, EAL chart

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**Job Performance Measure  
Worksheet**

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**General References:** EP-IP-100 Rev. 12

**Initiating Cue:** (Operator's name), you are the OSS. Implement the Emergency Plan as appropriate up to and including notifying the NRC (simulated). Inform the examiner when this task is complete.

**Time Critical Task:** YES – 15 minutes from the declaration to notify State and Local authorities and 1 hour, but as soon as practical, from the declaration to notify the NRC.

**Validation Time:** 20 minutes

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**PERFORMANCE INFORMATION**  
(Critical steps denoted with a check mark)

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\_\_\_\_\_ **Performance Step 1:** Operator verifies the plant conditions.

**Standard:** Operator verifies the plant conditions which may require entry into a classifiable event.

**Comment:**

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\_\_\_\_\_ **Performance Step 2:** Operator compares plant indications against EALs.

**Standard:** Operator references EALs.

**Comment:** Successful completion of this step will be verified by the correct EAL number being recorded on the Initial Notification Form.

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\_\_\_\_\_ **Performance Step 3:** Operator announces to the control room the declared emergency.

**Standard:** Operator announces that a General Emergency has been declared, EAL 2.3.1.4 and announces that he is the director.

**Comment:** CRITICAL TIME START: \_\_\_\_\_

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✓ \_\_\_\_\_ **Performance Step 4:** Operator designates appropriate assembly area based on wind direction.

**Standard:** Operator designates that the Support Building cafeteria as the assembly area.

**Comment:**

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**PERFORMANCE INFORMATION**  
(Critical steps denoted with a check mark)

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**Performance Step 5:** Operator notifies security.

**Standard:** Operator contacts security by Gaitronix, telephone, or other means and informs/directs them of the following:

- Designated assembly area.
- The time of the declaration.
- To ensure that personnel in the support building are sent to the assembly area.
- To initiate personnel accountability.
- Evacuate/verify evacuated public access areas.

**Comment:** Examiner should acknowledge this information as security.

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✓ **Performance Step 6:** Operator evacuates protected area.

**Standard:** Operator states the following from EP-IP-100 twice:

"Attention all personnel; attention all personnel: A General Emergency has been declared due to ["Synopsis of ATWS conditions"]. All on-call members of the Emergency Response Organization report to your designated emergency response facility. All other personnel evacuate to the Support Building cafeteria. There will be no eating, drinking or smoking until further notice."

**Comment:**

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**PERFORMANCE INFORMATION**  
(Critical steps denoted with a check mark)

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✓ **Performance Step 7:** Operator evacuates shorefront and recreation areas.

**Standard:** Operator turns on outside speakers and states the following:

"Attention please! Attention please! This is Pilgrim Station. Please leave the recreation areas without delay." (Turn **off** the outside speakers.)

**Comment:**

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**Performance Step 8:** Operator notifies or directs notification of ERO.

**Standard:** Operator directs the OA to standby for Emergency Response Organization Notification.

**Comment:** If told as OA to activate the ERO, cue the candidate that "I will activate the ERO."

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✓ **Performance Step 9:** Operator completes the Initial Notification Form.

**Standard:** Operator completes the Initial Notification Form.

**Comment:** Refer to Attachment 1 of this JPM to verify accuracy on the Initial Notification Form. Critical portions have an asterisk (\*) on Attachment 1.

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**PERFORMANCE INFORMATION**  
(Critical steps denoted with a check mark)

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- ✓ **Performance step 10:** Operator directs the Initial Notification Form to be transmitted to State and Local Authorities.

**Standard:** Operator directs the OA to transmit the Initial Notification Form over the DNN.

**Comment:** Cue the Candidate that "I will transmit the form over the DNN."

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- ✓ **Performance step 11:** Operator informs the NRC.

**Standard:** Operator contacts the NRC via the ENS line and notifies them that a 10CFR notification is being made, Section 50.72(a) (3), a General Emergency has been declared.

**Comment:** Cue the Candidate that "The NRC understands you are declaring a General Emergency, and notifying the NRC that of a 10CFR50.72(a) (3) notification."

Cue the candidate as Security that "accountability is complete."

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**Terminating Cue:** After notifications are made to State/Local authorities and NRC, the candidate should inform the examiner that this completes the task.