

EVALUATOR _____	TEAM LEADER _____	DATE _____
SITE _____	ASSIGNMENT _____	PREVIOUS ARCA? Y N

**OBJECTIVE 6: FIELD RADIOLOGICAL MONITORING - AMBIENT RADIATION MONITORING**

Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.

NUREG REF                      POINTS OF REVIEW

• I.7.,8.,11.                      6.1. Did the field monitoring team have low-range survey instruments that read gamma radiation in milliroentgens per hour (mR/h) and beta plus gamma radiation in counts per minute?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) If yes, specify model and range of instrument(s) used.

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I.7.,8.,11.                      6.2. Did the team have high-range gamma survey instruments that cover the range from the maximum reading capacity of the low-range survey meters up to approximately 100 Roentgens per hour (R/h)?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) If yes, specify model and range of instrument(s) used.

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H.10.                              6.3. Did the team have an equipment inventory list?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

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NUREG REF      POINTS OF REVIEW

(a) Did the team check their equipment list prior to deployment to assure that none of it was missing?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(b) If equipment was missing, was replacement equipment obtained prior to deployment?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(c) Were spare batteries available?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

F.1.d.      6.4. Did the team perform a battery check on all equipment that requires  
H.10.      batteries for operation?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) Were radio communication checks demonstrated?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

H.10.      6.5. Did the team check for proper operational response of each survey instrument with a radioactive check source, where appropriate, or perform an internal operational check of the survey instrument?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

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NUREG REF      POINTS OF REVIEW

(a) Were low-range survey instruments checked for proper response to normal background radiation?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(b) If an instrument demonstrated improper operation, was backup equipment provided?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

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H.10.                      6.6. Was each survey instrument labeled with the following information?  
(Indicate YES, NO, N/A, or N/O in the space provided for each item.)

- \_\_\_\_\_ Date of most recent calibration or date that next calibration is due
- \_\_\_\_\_ For instruments with check sources, the appropriate reading (or range of readings) for the check source
- \_\_\_\_\_ Calibration curve or exposure rate correction factors

(a) Record calibration date from survey instrument for each instrument used. Provide either most recent date calibrated or calibration due date.

INSTRUMENT	MOST RECENT DATE CALIBRATED	CALIBRATION DUE DATE

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(b) Were the calibration dates, above, within 12 months of the exercise date?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.8.,  
J.10.a.

6.7. Did each team have a map(s) of the areas to be surveyed?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) If yes, were predetermined monitoring locations identified?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.11.

6.8. Was the team briefed on the following before deployment?

(a) Plant and meteorological conditions

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(b) Exposure control procedures, including use of potassium iodide (KI)

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(c) Survey procedures to be followed

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(d) Starting point for the radiation measurements

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

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NUREG REF      POINTS OF REVIEW

(e) Locations that were assigned to be monitored

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(f) Procedures for identifying the plume edge

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(g) Procedures for iodine sampling

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(h) Communication of radiological data

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.8.      6.9. Was the team provided with vehicles appropriate for local terrain and weather conditions in their deployment area?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.7.,8.,11.      6.10. Did the team consist of at least two members?  
J.10.a.

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) Were at least two teams consisting of two or more members involved in field monitoring? (This information should be secured from all evaluators assigned to this objective.)

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

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NUREG REF      POINTS OF REVIEW

I.7.,8.,11.  
J.10.a.      6.11. Did the monitoring team arrive at the assigned monitoring location without excessive delay?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.11  
J.10.a.      6.12. List the monitoring locations where radiation measurements were taken and the time when the measurements were taken. (If applicable, attach a list of additional monitoring locations and times.)

MONITORING LOCATION                      TIME OF MEASUREMENT

_____	_____
_____	_____
_____	_____

I.7.,8.,11.      6.13. If the plume was found, were the following readings taken at approximately waist level and near the ground (i.e., within two to three inches of the ground)? (Indicate YES, NO, N/A, or N/O in the space provided for each item).

\_\_\_\_\_ Waist level -- closed window

\_\_\_\_\_ Waist level -- open window

\_\_\_\_\_ Near-ground level -- open window

\_\_\_\_\_ Near-ground level -- closed window

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(a) If open-window readings were taken, was the open window pointed down for the near-ground-level reading?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(b) Were near-simultaneous exposure rate measurements taken by two or more teams to verify the edges of the plume?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.11. 6.14. Were measurements taken to determine the peak gamma exposure rate near or at the downwind boundary of the evacuation area?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.11. 6.15. Were plume traverse measurements taken to determine peak exposure rates in the downwind direction?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) Were arrangements made with the licensee monitoring teams to collect these data?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.8. 6.16. Were all readings logged in accordance with a predetermined format?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_



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NUREG REF      POINTS OF REVIEW

I.7.,8.,11.      6.17. Did the team keep probes (detectors) enclosed in thin plastic?  
YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

H.12.  
I.7.,8.,11.      6.18. At what time did the team report exposure rate measurements to the Field Team Coordinator?

\_\_\_\_\_  
(a) What mode(s) of communication was used?

\_\_\_ Radio  
\_\_\_ Telephone  
\_\_\_ Other (Specify) \_\_\_\_\_

N.1.a.      6.19. In the implementation of the activities associated with this objective, did the organization follow its plans and procedures?  
YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

F.1.d.,  
H.10.,12.  
I.7.,8.,11.  
J.10.a.  
N.1.a      6.20. Specify whether or not the following demonstration criteria were successfully demonstrated during this exercise using YES, NO, N/A, or N/O.  
\_\_\_ 1. Each team had the equipment to perform field radiation measurements. (H.10., I.7.,8.,11.; PORs 6.1-6.3)  
\_\_\_ 2. Each team performed appropriate operational response checks of their equipment and instruments before deployment. The survey instruments were calibrated within 12 months of the exercise date. (H.10.; PORs 6.4-6.6)

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- \_\_\_\_\_ 3. Each team demonstrated proper deployment capability and procedures and promptly arrived at assigned monitoring locations. (I.7.,8.,11., J.10.a.; PORs 6.7-6.11)
- \_\_\_\_\_ 4. Each team demonstrated proper field radiological monitoring procedures. (I.7.,8.,11.; PORs 6.12-6.17)
- \_\_\_\_\_ 5. Each team demonstrated the capability to promptly report the radiological data collected to the Field Team Coordinator. (H.12.,I.7.,8.,11.; POR 6.18.)
- \_\_\_\_\_ 6. All activities described in the demonstration criteria for this objective were carried out in accordance with the plan, unless deviations were provided for in the extent-of-play agreement. (N.1.a.; POR 6.19)

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**OBJECTIVE 7: PLUME DOSE PROJECTION**

Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.

<u>NUREG REF</u>	<u>POINTS OF REVIEW</u>
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I.10. 7.1. Was the area(s) recommended for evacuation and sheltering plotted on a map on the basis of the following?

Initial licensee recommendations

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

Dose projections

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) Were protective action recommendations (PAR) made on the basis of these data?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(b) To whom were the PARs made? \_\_\_\_\_

(c) At what time were the PARs made? \_\_\_\_\_

I.10. 7.2. Were source term release projections and meteorological data provided by the licensee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

\_\_\_\_\_ Source term release projections

\_\_\_\_\_ Meteorological data

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(a) If yes, did the dose assessment group make dose projections on the basis of these data?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(b) What method(s) did the dose assessment group use to make the initial dose projections? (Check method(s) used.)

- \_\_\_ Manual calculations
- \_\_\_ Computer calculations
- \_\_\_ Other (Specify) \_\_\_\_\_

(c) If a computer was used as the primary means for calculating projected dose, was a backup method demonstrated?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(d) For what exposure pathway(s) were dose projections made? (Check projection(s) made.)

- \_\_\_ Whole body gamma
- \_\_\_ Iodine inhalation
- \_\_\_ Other (Specify) \_\_\_\_\_

I.10.      7.3. Were there any significant differences (i.e., differences greater than 10-fold) between dose projections by the organization and the initial projections of the licensee?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

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**NUREG REF      POINTS OF REVIEW**

(a) If yes, were steps taken to resolve these differences?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.10.

7.4. Were there any changes to PARs based on dose projections by the organization?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) If yes, to whom were these PARs made? \_\_\_\_\_

(b) At what time were these PARs made? \_\_\_\_\_

(c) Was the plot(s) of the area(s) for evacuation and sheltering changed on maps or displays to show these revised PARs?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.8.,10.,11.

7.5. Were monitoring data made available to the dose assessment group(s) regarding the boundaries of the plume?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) If yes, when were the first data received by the dose assessment group(s)?  
\_\_\_\_\_

I.10.,11.

7.6. Was it possible for the dose assessment group(s) to identify the plume location on the basis of field monitoring data?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

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(a) If yes, was the plume location plotted on a map on the basis of these monitoring data?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.10. 7.7. Were PARs revised on the basis of field radiation measurements?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) If yes, at what time were these revisions transmitted to decision makers?

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I.10. 7.8. Was the dose assessment group(s) provided with radiological data regarding maximum gamma exposure rates in unevacuated areas?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) If yes, when was this done and when were the first field readings (background or greater) available to the dose assessment group(s)?

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(b) Were these measurements used as a basis for additional dose projections?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(c) If yes, were earlier PARs changed on the basis of these dose projections?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

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(d) If yes, at what time were these revised PARs transmitted to the decision makers?

\_\_\_\_\_

I.10.,11.

7.9. Was the dose assessment group(s) provided with radiological data regarding maximum gamma exposure rates from plume crossings by field teams in areas previously designated for evacuation?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) If yes, were these data from licensee or State teams?

\_\_\_ Licensee

\_\_\_ State

(b) Were these measurements used as a basis for additional dose projections?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(c) If yes, were earlier PARs changed on the basis of these dose projections?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

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(d) If yes, at what time were these revised PARs transmitted to the decision makers?

TIME	PROTECTIVE ACTION RECOMMENDATION (PAR)

I.10.                      7.10. Was the dose assessment group(s) provided with monitoring data regarding radioiodine and corresponding gamma exposure rate measurements in the plume?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) If yes, when were these data received by the dose assessment group(s)?

\_\_\_\_\_

(b) From how many locations was this information received?

\_\_\_\_\_

(c) Was this information used as a basis for dose projections?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_



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(d) If yes, were earlier PARs changed on the basis of these dose projections?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(e) If yes, at what time were these revised PARs transmitted to the decision makers?

\_\_\_\_\_

I.10.      7.11. Did the dose projection group(s) calculate a conversion factor to translate the gamma exposure rate measurements from the plume into corresponding radioiodine concentrations?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) Were additional conversion factors calculated whenever new data became available?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

N.1.a.      7.12. In the implementation of the activities associated with this objective, did the organization follow its plans and procedures?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.8.,10.,11.      7.13. Specify whether or not the following demonstration criteria were successfully demonstrated during this exercise using YES, NO, N/A, or N/O.  
N.1.a.

\_\_\_ 1. Plume location and dose were projected through use of models, data from the field, and data supplied by the licensee and appropriate protective action recommendations were developed. (I.8.,10.,11.; PORs 7.1-7.11)

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- \_\_\_\_\_ 2. All activities described in the demonstration criteria for this objective were carried out in accordance with the plan, unless deviations were provided for in the extent-of-play agreement. (N.1.a.; POR 7.12)

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**OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING**

Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as  $10^{-7}$  (0.0000001) microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume.

NUREG REF      POINTS OF REVIEW

H.10.      8.1. Which of the following were available to the field team to monitor airborne  
I.9.      radioiodine and particulate activity. (Indicate YES, NO, N/A, or N/O in the  
spaces provided for each item.)

NOTE: This equipment is in addition to the equipment needed in Objective 6.

- \_\_\_\_\_ (a) Air sampler with flow rate indicator
- \_\_\_\_\_ (b) Adsorbent filter media cartridges, either silver zeolite, silver alumina, or silver silica gel
- \_\_\_\_\_ (c) Particulate filters
- \_\_\_\_\_ (d) Power supply capable of operating the air sampler pump
- \_\_\_\_\_ (e) Count rate instrumentation
  - \_\_\_\_\_ Portable Geiger-Mueller counter with a thin window (e.g., 1.4 to 2.0 mg/cm<sup>2</sup>) pancake-type detector
  - \_\_\_\_\_ Portable sodium iodide (NaI) scintillation counter
  - \_\_\_\_\_ Access to a mobile laboratory with appropriate counting equipment
  - \_\_\_\_\_ Other (Specify) \_\_\_\_\_

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H.10.                    8.2. Were the air sampler and its power supply checked for operability prior to deployment?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

H.10.                    8.3. If portable instrumentation [POR 8.1.(e)] was available for field radiation measurement of airborne radioiodine, was the instrument accompanied by a check source?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) Was the instrument the same type provided for in the plan?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(b) Was the instrument checked for proper operation, including radiation response from the check source?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

H.10.                    8.4. Was each item of equipment labeled with the following information? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

\_\_\_\_\_ Date of most recent calibration or date that next calibration is due

\_\_\_\_\_ For instruments with check sources, the appropriate reading (or range of readings) for the check source

\_\_\_\_\_ Calibration curve or exposure rate correction factors, if needed

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(a) Record calibration date for each item of equipment used, as appropriate. Provide either most recent date calibrated or calibration due date.

ITEM OF EQUIPMENT	MOST RECENT DATE CALIBRATED	CALIBRATION DUE DATE

(b) Were the calibration dates above within 12 months of the exercise date?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

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I.8.                      8.5. At what times and to what locations were field teams dispatched by the Field Team Coordinator to collect air and particulate samples? (If applicable, attach a list of additional sample locations and times.)

TIME	LOCATION
_____	_____
_____	_____
_____	_____
_____	_____

I.9.                      8.6. Did the field team search for a location with sufficient gamma exposure rate to take each air sample?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) What gamma exposure rate did the field team indicate would be sufficient?

Gamma exposure rate \_\_\_\_\_

(b) Were open and closed window exposure rate measurements made to confirm presence of the plume at each sample location?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.9.                      8.7. What flow rates were used in taking the air samples?

\_\_\_\_\_

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(a) How long was the sampling time?

\_\_\_\_\_ minutes

(b) What was the volume of the air sample(s) taken?

\_\_\_\_\_ cubic feet

(c) Were gamma exposure rate measurements made at the beginning, near the middle, and at the completion of taking each air sample?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.9.

8.8. Was the air sample media removed from the plume and taken to a low-background area for measurement?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) Was the air sample media purged of noble gases?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(b) Was a field measurement of the gross beta-gamma activity made on the particulate filter?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(c) Was a field measurement made of the radioactivity on the adsorbent filter cartridge?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

EVALUATOR \_\_\_\_\_ TEAM LEADER \_\_\_\_\_ DATE \_\_\_\_\_

SITE \_\_\_\_\_ ASSIGNMENT \_\_\_\_\_ PREVIOUS ARCA Y N

**OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING**

NUREG REF      POINTS OF REVIEW

(d) Did field team personnel deviate from established procedures?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

I.8.,11.

8.9. Were gamma radiation exposure rate readings at the sampling locations, iodine and particulate sample count rate data promptly and accurately transmitted in accordance with the organizations plan?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) If the data were not promptly or adequately transmitted in accordance with the organizations plan, explain.

\_\_\_\_\_  
\_\_\_\_\_

I.7.,9.

8.10. Were iodine cartridges and particulate filters bagged and labeled with time, date, location taken, identification of the individual who took them, gamma radiation exposure rate reading at the sampling location, and the field sample count rate data for particulates and radioiodines?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) For iodine cartridges and particulate filters not bagged and labeled, describe procedures used.

\_\_\_\_\_  
\_\_\_\_\_



EVALUATOR _____	TEAM LEADER _____	DATE _____
SITE _____	ASSIGNMENT _____	PREVIOUS ARCA Y N _____

**OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING**

NUREG REF                      POINTS OF REVIEW

I.8.                                      8.11. Were the iodine cartridges and particulate filters taken to an intermediate location for transport to a designated laboratory?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) If yes, identify this intermediate location/facility and the time of arrival.

Location \_\_\_\_\_

Time \_\_\_\_\_

N.1.a.                                      8.12. In the implementation of the activities associated with this objective, did the organization follow its plans and procedures?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

H.10.  
I.7.,8.,9.  
N.1.a.                                      8.13. Specify whether or not the following demonstration criteria were successfully demonstrated during this exercise using YES, NO, N/A or N/O.

\_\_\_\_\_ 1. Each field team had equipment for field monitoring of airborne particulates and radioiodines in the presence of noble gases. (H.10., I.9.; PORs 8.1-8.2)

\_\_\_\_\_ 2. Each field team performed appropriate operational checks of their equipment and instruments before deployment. The survey instruments were calibrated within 12 months of the exercise date. (H.10.; PORs 8.3-8.4)

\_\_\_\_\_ 3. Airborne radioiodine and particulate sampling procedures were followed and samples obtained. (I.8.,9.; PORs 8.5-8.7)

EVALUATOR \_\_\_\_\_ TEAM LEADER \_\_\_\_\_ DATE \_\_\_\_\_

SITE \_\_\_\_\_ ASSIGNMENT \_\_\_\_\_ PREVIOUS ARCA Y N

**OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING**

NUREG REF      POINTS OF REVIEW

- \_\_\_\_\_ 4. Procedures for the field measurement of the airborne radioiodine and particulate activity were followed. (I.9.; POR 8.8)
- \_\_\_\_\_ 5. Data pertaining to the field measurements of radioiodine in air were promptly and accurately transmitted in accordance with the organizations plan. (I.8.,11.; POR 8.9)
- \_\_\_\_\_ 6. Particulate filter and iodine cartridge samples were properly bagged and labeled and promptly delivered to a designated location. (I.7.,8.,9; PORs 8.10-8.11)
- \_\_\_\_\_ 7. All activities described in the demonstration criteria for this objective were carried out in accordance with the plan, unless deviations were provided for in the extent-of-play agreement. (N.1.a.; POR 8.12)

EVALUATOR _____	TEAM LEADER _____	DATE _____	
SITE _____	ASSIGNMENT _____	PREVIOUS ARCA? Y N	

**OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING**

Demonstrate the capability to make timely and appropriate protective action decisions (PAD).

NUREG REF      POINTS OF REVIEW

J.9.                      9.1. Identify (by title) the official(s) at your assigned location who made PADs.

\_\_\_\_\_

(a) Did the decision maker consult with other staff or organizations?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

J.9.                      9.2. What PADs were made and when were they made? (Types of plume PADs to be addressed include: shelter, evacuation, and use of potassium iodide (KI).

PAD#	TYPE OF PROTECTIVE ACTION	TIME	ECL
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

J.9.                      9.3. Indicate the bases for initial PADs. (Check as appropriate.)

- \_\_\_ Plant status
- \_\_\_ Licensee protective action recommendations (PAR)
- \_\_\_ Other (Specify) \_\_\_\_\_

EVALUATOR _____	TEAM LEADER _____	DATE _____
SITE _____	ASSIGNMENT _____	PREVIOUS ARCA? Y N

**OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING**

NUREG REF                      POINTS OF REVIEW

J.9.                      9.4. Were these **initial PADs** automatically made (i.e., with little or no discussion) by offsite authorities in accordance with licensee PARs for a fast-breaking emergency?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

J.9.,10.m.              9.5. Which of the following factors were considered in **subsequent PADs**? (Please indicate YES, NO, N/A, or N/O in the space provided for each item.)

- \_\_\_ Plant conditions and emergency classification level
- \_\_\_ Projected dose based on release estimates and meteorological conditions
- \_\_\_ Projected dose based on plant conditions and emergency action levels
- \_\_\_ Projected dose based on simulated field measurements and meteorological conditions
- \_\_\_ Protective action guides incorporated in the organization's plan
- \_\_\_ Shelter availability
- \_\_\_ Evacuation time estimates
- \_\_\_ Relative dose savings between evacuation and sheltering
- \_\_\_ Risk from evacuation
- \_\_\_ Weather conditions
- \_\_\_ Other (Specify) \_\_\_\_\_

J.9.                      9.6. Was coordination with other plume emergency planning zone jurisdictions part of the protective action decision making process?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

N.1.a.                      9.7. In the implementation of the activities associated with this objective, did the organization follow its plans and procedures?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

EVALUATOR _____	TEAM LEADER _____	DATE _____
SITE _____	ASSIGNMENT _____	PREVIOUS ARCA? Y N

**OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING**

NUREG REF                      POINTS OF REVIEW

J.9.,10.m.  
N.1.a.                      9.8. Specify whether or not the following demonstration criteria were successfully demonstrated during this exercise using YES, NO, N/A, or N/O.

- \_\_\_\_\_ 1. A decision making process involving consideration of all relevant factors and all necessary coordination was utilized. (J.9.,10.m.; PORs 9.1-9.6)
  
- \_\_\_\_\_ 2. All activities described in the demonstration criteria for this objective were carried out in accordance with the plan, unless deviations were provided for in the extent-of-play agreement. (N.1.a.; POR 9.7)

EVALUATOR _____	TEAM LEADER _____	DATE _____
SITE _____	ASSIGNMENT _____	PREVIOUS ARCA? Y N

**OBJECTIVE 10: ALERT AND NOTIFICATION**

Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate State or local officials.

<u>NUREG REF</u>	<u>POINTS OF REVIEW</u>
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E.6.	10.1. Did the organization alert and notify the public?
------	---

YES \_\_\_\_ NO \_\_\_\_ N/A \_\_\_\_ N/O \_\_\_\_

(a) Specify the alerting and notification methods demonstrated. (Indicate YES, NO, N/A, or N/O.)

**ALERT**

- \_\_\_\_ Fixed siren system
- \_\_\_\_ Tone-alert radios
- \_\_\_\_ Primary route alerting
- \_\_\_\_ Backup route alerting
- \_\_\_\_ Mobile alerting units and vehicles
- \_\_\_\_ Supplementary route alerting
- \_\_\_\_ Telephone calls to individuals and institutions
- \_\_\_\_ Telecommunication devices for the deaf (TDD)
- \_\_\_\_ Other (Specify) \_\_\_\_\_

EVALUATOR \_\_\_\_\_ TEAM LEADER \_\_\_\_\_ DATE \_\_\_\_\_

SITE \_\_\_\_\_ ASSIGNMENT \_\_\_\_\_ PREVIOUS ARCA? Y N

**OBJECTIVE 10: ALERT AND NOTIFICATION**

NUREG REF      POINTS OF REVIEW

NOTIFICATION

- \_\_\_ Emergency Broadcast System (EBS) station
- \_\_\_ Direct broadcast to/over EBS station(s) from emergency operations center
- \_\_\_ Siren system with Public Address (PA) system capability
- \_\_\_ Mobile PA system
- \_\_\_ National Oceanic and Atmospheric Administration (NOAA) weather radio
- \_\_\_ Tone-alert radios
- \_\_\_ Primary route notification
- \_\_\_ Backup route notification
- \_\_\_ Supplementary route notification
- \_\_\_ Telephone calls to individuals and institutions
- \_\_\_ TDD
- \_\_\_ Other (Specify) \_\_\_\_\_

PRIMARY ALERTING AND NOTIFICATION

E.6.      10.2. In the table that follows on page 10-3, provide the data requested for each 15-minute alert and notification sequence for the actions specified in items (a) through (h).

- (a) the emergency classification level (ECL) type [Notification of Unusual Event (NOUE), Alert, Site Area Emergency (SAE), and General Emergency (GE)] and time an ECL was declared by the licensee and
- (b)-(h) the corresponding times for the other steps. (Indicate N/A for steps not required to be demonstrated.)

(If more than four sequences are timed, duplicate the chart provided on page 10-3.)

<b>EVALUATOR</b> _____	<b>TEAM LEADER</b> _____	<b>DATE</b> _____
<b>SITE</b> _____	<b>ASSIGNMENT</b> _____	<b>PREVIOUS ARCA? Y N</b>

**OBJECTIVE 10: ALERT AND NOTIFICATION**

**PRIMARY ALERTING AND NOTIFICATION**

ACTION	SEQUENCE #1		SEQUENCE #2		SEQUENCE #3		SEQUENCE #4	
	ECL	TIME	ECL	TIME	ECL	TIME	ECL	TIME
(a) ECL/time declared by licensee								
(b) Time ORO received notification of ECL from licensee								
(c) Time decision made by offsite officials (start clock)								
(d) Time EBS message selected or prepared								
(e) Time of coordination with other jurisdictions								
(f) Time of activation of alert system								
(g) Time of completion of all coordination with EBS station(s)								
(h) Time EBS message broadcast initiated (stop clock)								



EVALUATOR \_\_\_\_\_ TEAM LEADER \_\_\_\_\_ DATE \_\_\_\_\_

SITE \_\_\_\_\_ ASSIGNMENT \_\_\_\_\_ PREVIOUS ARCA? Y N

**OBJECTIVE 10: ALERT AND NOTIFICATION**

NUREG REF      POINTS OF REVIEW

E.6.      10.3. Specify the time required to complete the initial (first) alert and notification sequence.

\_\_\_\_\_

(a) Was the initial alert and notification sequence completed within 15 minutes of the decision by offsite officials to alert and notify the public?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

E.6.      10.4. Who authorized the alert and notification sequences to commence? [Identify organization(s) and official(s) by title/organization.]

E.5.,7.      10.5. How were EBS messages broadcast? (Check as appropriate.)

\_\_\_\_\_ Broadcast originated from an emergency operations center (EOC)  
\_\_\_\_\_ Broadcast originated from the radio station  
\_\_\_\_\_ Other (Specify) \_\_\_\_\_

(a) If EBS messages were broadcast from the radio station(s), were the broadcasts simulated or actually transmitted to the public? (Check as appropriate.)

\_\_\_\_\_ Simulated  
\_\_\_\_\_ Actually transmitted to the public

(b) Did station(s) personnel verify prior to broadcast that the messages received were from the ORO?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

EVALUATOR _____	TEAM LEADER _____	DATE _____
SITE _____	ASSIGNMENT _____	PREVIOUS ARCA? Y N

**OBJECTIVE 10: ALERT AND NOTIFICATION**

NUREG REF      POINTS OF REVIEW

(c) Did the station personnel verify that they had received the correct message?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(d) Did the station personnel broadcast the correct message?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

PRIMARY ROUTE ALERTING AND NOTIFICATION

NOTE: Route alerting and notification is used in lieu of other primary alerting methods (e.g., sirens) and notification methods (e.g., EBS). Provide the information and data requested below in PORs 10.6.-10.7.

E.6. 10.6. In the table that follows on page 10-6, provide the data requested for one 15-minute **initial primary route alerting and notification** sequence in items (a) through (g).

(a) the ECL type (NOUE, Alert, SAE, and GE) and time an ECL was declared by the licensee and

(b)-(g) the corresponding times for the other steps. (Indicate N/A for steps not required to be demonstrated.)

(Only one initial primary route alerting and notification sequence needs to be demonstrated and evaluated.)

EVALUATOR _____	TEAM LEADER _____	DATE _____	
SITE _____	ASSIGNMENT _____	PREVIOUS ARCA? Y N	

**OBJECTIVE 10: ALERT AND NOTIFICATION**

**PRIMARY ROUTE ALERTING AND NOTIFICATION**

	ACTION	SEQUENCE #	
		ECL	TIME
(a)	ECL/time declared by licensee		
(b)	Time ORO received notification of ECL from licensee		
(c)	Time decision made by offsite officials (start clock)		
(d)	Time emergency message selected or prepared		
(e)	Time of coordination with other jurisdictions		
(f)	Time alerting and notification initiated		
(g)	Time of completion of primary route alerting and notification (stop clock)		

EVALUATOR \_\_\_\_\_ TEAM LEADER \_\_\_\_\_ DATE \_\_\_\_\_

SITE \_\_\_\_\_ ASSIGNMENT \_\_\_\_\_ PREVIOUS ARCA? Y N

**OBJECTIVE 10: ALERT AND NOTIFICATION**

NUREG REF      POINTS OF REVIEW

E.6.      10.7. How and when was the primary route alerting and notification team(s) instructed to initiate this function?

How? \_\_\_\_\_

When? \_\_\_\_\_

(a) What route alerting and notification vehicle(s) [e.g., police car(s)] did you observe?

\_\_\_\_\_

(b) For the designated route evaluated, provide the following data.

TIME INITIATED      TIME COMPLETED      ELAPSED TIME

\_\_\_\_\_

(c) Was the primary route alerting and notification completed within 15 minutes of the decision by offsite officials to alert and notify the public?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(d) Did the team(s) have any difficulties in following the designated route?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(e) Did the team(s) have route maps?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

EVALUATOR \_\_\_\_\_ TEAM LEADER \_\_\_\_\_ DATE \_\_\_\_\_  
SITE \_\_\_\_\_ ASSIGNMENT \_\_\_\_\_ PREVIOUS ARCA? Y N

**OBJECTIVE 10: ALERT AND NOTIFICATION**

**NUREG REF      POINTS OF REVIEW**

(f) Was a PA system actually demonstrated?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

**BACKUP ROUTE ALERTING AND NOTIFICATION**

NOTE: Backup route alerting and notification is used when primary alerting methods (e.g., sirens) fail. Only one backup route alerting and notification sequence needs to be demonstrated and evaluated. Provide the information and data requested below in POR 10.8.

E.5.      10.8. Was backup route alerting and notification demonstrated?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(a) How and when was the route alerting and notification team(s) instructed to initiate this backup function?

How? \_\_\_\_\_

When? \_\_\_\_\_

(b) What route alerting and notification vehicle(s) [e.g., police car(s)] was observed?

\_\_\_\_\_

<b>EVALUATOR</b> _____	<b>TEAM LEADER</b> _____	<b>DATE</b> _____
<b>SITE</b> _____	<b>ASSIGNMENT</b> _____	<b>PREVIOUS ARCA? Y N</b>

**OBJECTIVE 10: ALERT AND NOTIFICATION**

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(c) For the designated route evaluated, provide the following data.

<b>TIME INITIATED</b>	<b>TIME COMPLETED</b>	<b>ELAPSED TIME</b>
_____	_____	_____

(d) Was backup route alerting and notification completed within approximately 45 minutes of the decision by officials to alert and notify the public?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(e) Did the team(s) have any difficulties in following the designated routes?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(f) Did the team(s) have route maps?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

(g) Was a PA system actually demonstrated?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

**SUPPLEMENTARY ROUTE ALERTING AND NOTIFICATION**

**NOTE:** Supplementary route alerting and notification is used to complement primary route alerting and/or notification methods (e.g., sirens and/or EBS messages). Provide the information and data requested below in POR 10.9.

E.6.      10.9. Was supplementary route alerting and notification demonstrated?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

EVALUATOR \_\_\_\_\_ TEAM LEADER \_\_\_\_\_ DATE \_\_\_\_\_

SITE \_\_\_\_\_ ASSIGNMENT \_\_\_\_\_ PREVIOUS ARCA? Y N

**OBJECTIVE 10: ALERT AND NOTIFICATION**

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(a) How and when was the route alerting and notification team(s) instructed to initiate this function?

How? \_\_\_\_\_

When? \_\_\_\_\_

(b) What supplementary route alerting and notification vehicle(s) [e.g., police car(s)] was observed?

\_\_\_\_\_

(c) Over what period of time did supplementary route alerting and notification occur?

TIME INITIATED      TIME COMPLETED      ELAPSED TIME

\_\_\_\_\_

ALERTING AND NOTIFICATION IN EXCEPTION AREAS

NOTE: Alerting and notification in exception areas is used in rural, low population, and recreational areas, and other areas 5 to 10 miles from nuclear power plants. Provide the information and data requested below in POR 10.10.

E.6. 10.10. Did involved organizations demonstrate the capability to disseminate an alert signal and initiate instructional messages to and exception areas within 45 minutes for the sequence specified in the pre-exercise agreement?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

EVALUATOR _____	TEAM LEADER _____	DATE _____
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**OBJECTIVE 10: ALERT AND NOTIFICATION**

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(a) Over what period of time did this process occur?

Start \_\_\_\_\_ End \_\_\_\_\_ Elapsed time \_\_\_\_\_

N.1.a.      10.11. In the implementation of the activities associated with this objective, did the organization follow its plans and procedures?

YES \_\_\_ NO \_\_\_ N/A \_\_\_ N/O \_\_\_

E.5.,6.,7.  
N.1.a.      10.12. Specify whether or not the following demonstration criteria were successfully demonstrated during this exercise using YES, NO, N/A, or N/O.

- \_\_\_\_\_ 1. Activities associated with primary alerting and notification sequences were completed within 15 minutes of the initial decision by authorized offsite emergency officials. (E.5.,6.,7.; PORs 10.1-10.7.)
- \_\_\_\_\_ 2. Backup route alerting and notification was completed within approximately 45 minutes. (E.6.; POR 10.8.)
- \_\_\_\_\_ 3. Responsible organizations used supplementary route alerting to complement primary route alerting and/or notification methods. (E.6.; POR 10.9.)
- \_\_\_\_\_ 4. Responsible organizations provided an alert signal and began broadcasting an initial instructional message to exception area populations located 5 to 10 miles from the nuclear power plant within 45 minutes of the initial alert and notification decision. (If there was no exception area, this criterion does not apply.) (E.6.; POR 10.10.)



<b>EVALUATOR</b> _____	<b>TEAM LEADER</b> _____	<b>DATE</b> _____
<b>SITE</b> _____	<b>ASSIGNMENT</b> _____	<b>PREVIOUS ARCA? Y N</b>

**OBJECTIVE 10: ALERT AND NOTIFICATION**

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\_\_\_\_\_ 5. All activities described in the demonstration criteria for this objective were carried out in accordance with the plan, unless deviations were provided for in the extent-of-play agreement. (N.1.a.; POR 10.11.)