

RADIOLOGICAL MONITORING AND SURVEYS

1.0 Objective

The objective of this surveillance is to verify that the laboratory has established and implemented an effective program to identify and monitor radiological hazards in the workplace. The surveillance activities provide a basis for verifying that the laboratory's surveys are comprehensive, accurate, timely, and that data from surveys is used appropriately. The surveillance activities also provide a basis for evaluating the laboratory's compliance with DOE requirements regarding radiological monitoring and surveys.

2.0 References

- 2.1 10 CFR 835, *Occupational Radiation Protection*
- 2.2 G-10 CFR 835/E2, *Implementation Guide-Workplace Air Monitoring*
- 2.3 DOE/EH-0256T, *U.S. Department of Energy Radiological Control Manual, Rev. 1*
- 2.4 DOE P441.1, *Department of Energy Radiological Health and Safety Policy*

3.0 Surveillance Activities

The following activities are performed to evaluate the effectiveness of the laboratory's program for conducting radiological monitoring and surveys.

- 1) The Facility Representative or Environmental, Safety, and Health Support Specialist observes a routine radiation survey conducted by the laboratory's radiological control technicians.
- 2) The Facility Representative or Environmental, Safety, and Health Support Specialist conducts a walkthrough to examine area radiation monitors and continuous air monitors.
- 3) The Facility Representative or Environmental, Safety, and Health Support Specialist observes a contamination survey.

Surveillance Guideline
RADIOLOGICAL MONITORING AND SURVEYS

Surveillance No.: _____

Facility: _____

Date Completed: _____

Activity 1 - Observation of Routine Survey

	<u>YES</u>	<u>NO</u>	<u>N/A</u>
1. Do training records for the individuals conducting the survey demonstrate that these individuals have the required training and qualifications to perform the survey?	_____	_____	_____
2. Are the instruments used to perform the survey routinely calibrated?	_____	_____	_____
3. Are the calibrations for the instruments used to conduct the survey current?	_____	_____	_____
4. Were the instruments checked to verify proper performance before the survey was performed?	_____	_____	_____
5. Did the survey include a sufficient number of survey points to characterize radiological hazards and to define or verify boundaries?	_____	_____	_____
6. Did personnel conducting the survey appropriately document results as readings were taken?	_____	_____	_____
7. Is the required frequency for this survey consistent with the actual or potential radiological conditions, probability of changes in conditions, and area occupancy factors?	_____	_____	_____
8. Did the radiological supervisor perform an effective and timely review of survey results to ensure that the documentation was accurate and complete?	_____	_____	_____

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	<u>YES</u>	<u>NO</u>	<u>N/A</u>
9. Were results from the survey conspicuously posted in a timely manner to inform personnel of radiological conditions?	_____	_____	_____
Activity 2 - Walkthrough to Examine Area Radiation Monitors and Continuous Air Monitors			
10. Are area radiation monitors installed in frequently occupied areas with the potential for unexpected increases in dose rates?	_____	_____	_____
11. Are the locations for the Area Radiation Monitors effective for detecting changes in radiological conditions that could adversely affect personnel safety?	_____	_____	_____
12. Are area radiation monitors and alarms in service, and is operability checked routinely?	_____	_____	_____
13. Are area radiation monitors calibrated?	_____	_____	_____
14. If an area radiation monitor is out of service, has adequate compensatory action been taken?	_____	_____	_____
15. Are continuous air monitors operable and is operability checked daily?	_____	_____	_____
16. Are continuous air monitors calibrated to ensure that their detection capability is maintained?	_____	_____	_____
17. Are alarm operability and setpoints verified periodically for continuous air monitors?	_____	_____	_____
18. Are sample points for air sampling located such that the instruments are monitoring air concentrations to which personnel are exposed?	_____	_____	_____
19. Are sample points located well away from ventilation system supply intakes and exhaust discharges?	_____	_____	_____

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	<u>YES</u>	<u>NO</u>	<u>N/A</u>
Activity 3 - Observation of Contamination Survey			
20. Do training records for personnel performing the survey substantiate that the personnel have the required training and qualifications?	_____	_____	_____
21. Are the instruments used to perform the survey within current calibration?	_____	_____	_____
22. Are the survey techniques appropriate to detect both removable and fixed contamination?	_____	_____	_____
23. Are large area wipes used to supplement standard swipe techniques in areas generally assumed not to be contaminated?	_____	_____	_____
OTHER:			

_____	_____	_____	_____

_____	_____	_____	_____

Surveillance Guideline
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NOTES/COMMENTS:

PERSONNEL CONTACTED: _____

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**IF MORE SPACE IS NEEDED FOR FINDINGS, OBSERVATIONS, AND FOLLOWUP
ITEMS - USE ADDITIONAL SHEETS**

FINDINGS:

Finding No.: _____

Description: _____

Finding No.: _____

Description: _____

Finding No.: _____

Description: _____

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OBSERVATIONS:

Observation No.: _____

Description: _____

Observation No.: _____

Description: _____

Observation No.: _____

Description: _____

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FOLLOWUP ITEMS:

Followup Item No.: _____

Description: _____

Followup Item No.: _____

Description: _____

Followup Item No.: _____

Description: _____

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RADIOLOGICAL MONITORING AND SURVEYS (cont.)

LABORATORY MANAGEMENT DEBRIEFED AND RESULTS: _____

Signature: _____ Date: _____

Facility Representative or
Environmental, Safety, and Health Support Specialist