

EMISSIONS MONITORING

1.0 Objective

The objective of this surveillance is to verify that the laboratory is monitoring emissions of radioactive materials and chemicals. The Facility Representative or Environmental, Safety, and Health Support Specialist will verify operability of equipment and examine implementation of procedures and processes for collecting, analyzing and recording data. The Facility Representative or Environmental, Safety, and Health Support Specialist evaluates compliance with applicable requirements from DOE and implementation of appropriate codes and standards.

2.0 References

2.1 DOE 5400.5, *Radiation Protection of the Public and the Environment*

3.0 Surveillance Activities

In performing this surveillance, the Facility Representative or Environmental, Safety and Health Support Specialist performs the following activities:

Activity 1 - Walkdown of systems used to monitor gaseous or liquid radioactive effluents or releases of chemicals.

Activity 2 - Review records of effluent-monitoring and/or chemical release monitoring system testing.

Activity 3 - Review records of radioactive or chemical effluent releases.

Activity 4 - Observe collection of liquid grab samples.

**Surveillance Guideline
 EMISSIONS MONITORING**

Surveillance No.: _____

Facility: _____

Date Completed: _____

YES NO N/A

Activity 1 - Walkdown of Effluent-Monitoring System

- | | | | | |
|----|---|-------|-------|-------|
| 1. | Are all components of the system operable? | _____ | _____ | _____ |
| 2. | Is the system correctly aligned to ensure proper operation? | _____ | _____ | _____ |
| 3. | Are calibrations current on system instruments? | _____ | _____ | _____ |
| 4. | Are support systems that are essential for effluent-monitoring systems operable? | _____ | _____ | _____ |
| 5. | Are sample points located at positions shown on design drawings? | _____ | _____ | _____ |
| 6. | Is the as-installed configuration of effluent-monitoring systems correctly described in safety basis documents? | _____ | _____ | _____ |

Activity 2 - Review Records of System Testing

- | | | | | |
|-----|---|-------|-------|-------|
| 7. | Has the effluent-monitoring system been tested to verify operability within required time intervals? | _____ | _____ | _____ |
| 8. | Did the testing involve verifying detector response to simulated releases of chemicals or radioactive gases or liquids? | _____ | _____ | _____ |
| 9. | Did testing fully demonstrate operability of the entire effluent-monitoring system? | _____ | _____ | _____ |
| 10. | Was all data obtained and recorded on the test data sheets as required by procedures? | _____ | _____ | _____ |

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OTHER (cont.)

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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LABORATORY MANAGEMENT DEBRIEFED AND RESULTS: _____

Signature: _____ Date: _____

Facility Representative or
Environmental, Safety, and Health Support Specialist