

**DRAFT**

**Proposed EM Headquarters Authorized Limit and Independent Verification  
Business Plan**

**Office of Engineering and Technology Office  
Office of D&D and Facility Engineering  
February 2007**

**I. Purpose:**

To establish an EM Headquarters (HQ) Oversight Program for the approval of authorized limits and the independent verification of cleanup completion to ensure:

- Control and release of property programs are consistent with DOE requirements, approved authorized limits, and procedures; and
- Management, control, and release of property are addressed early on in the planning phase of site operations, remediation, and restoration.

**II. Background:**

DOE has several radiation protection requirements relating to the radiological release of property. These requirements include 10 CFR 835, "Occupational Radiation Protection" and DOE Order 5400.5, "Radiation Protection of the Public and the Environment." However, there has not been a systematic EM Headquarters program to implement these requirements or to evaluate field and contractor performance with these requirements. The EM Program needs a more predictable and standardized approach to approving authorized limits and independently verifying cleanup completion at its sites:

- Identify improvements needed in EM's procedures, programs and controls;
- Promote the development of scientifically based authorized limits (radiological release criteria) for real and personal property;
- Prepare appropriate approval documentation for authorized limits for real property;
- Provide comments and assistance to sites in gaining approval from the Office of Health, Safety, and Security (HS) for authorized limits for personal property;
- Confirm that site radiological survey and evaluation processes are in place and being properly implemented for both real and personal property; and
- Independently verify that property released from DOE radiological control meets authorized limits.

### III. Delegation of Authority:

See attached memorandum to Mark Gilbertson dated October 23, 2006, "Delegation of Authority for Department of Energy Order 5400.5 Change 2, 1-7-93, Radiation Protection of the Public and the Environment", signed by Assistant Secretary Jim Rispoli (EM-1).

### IV. Applicability:

The provisions of the program will apply to all of EM HQ and the Filed organizations responsible for execution of the EM Program.

V. **Contact:** Alexander Williams, Office of Engineering and Technology (EM-20, Office of D&D and Facility Engineering (EM-23), (301)-903-8149, [Alexander.williams@em.doe.gov](mailto:Alexander.williams@em.doe.gov)

### VI. Definitions:

**Independent Verification:** systematic evaluation of radiological release practices by an organization separate from the immediate line management responsible for the radiological release. It is an independent check or review or evaluation pursuant to DOE O 450.1, DOE O 226.1, and 10 CFR 830.

**Authorized Limits Approval:** authorized limits govern the releases of personal and real property. They are radionuclide concentration or activity levels approved by DOE to permit the release of property from DOE control, consistent with DOE's radiation protection framework and standards for workers, the general public, and the environment.

DOE Order 5400.5: Radiation Protection of the Public and the Environment. DOE, 1990.

DOE G 441.1-XX: Implementation Guide for the Control and release of Property with Residual Radioactive Material for Use with DOE 5400.5, Radiation Protection of the Public and the Environment. DOE, 2002.

### VII. Program Objectives:

#### *Subprogram on Authorized Limits and Radiological Release Issues-*

- Identify the appropriate program elements within HQ for the approval of authorized limits;
- Ensure that site personnel and contractors comply with DOE requirements for radiological release of real and personal property;
- Ensure that the development and approval of authorized limits (radiological release criteria) meet DOE requirements;

- Work in conjunction with other organizations in developing radiological survey guidance, manuals, and assistance;
- Manage strategically Argonne's planning and workload in conjunction with DOE/HS and other funding sources;
- Ensure that technical rigor is built into the total process: radiological survey and evaluation by contractors; and
- Treat the field sites as customers.

*Subprogram on Independent Verification of Radiological Release-*

- Develop and manage a program for independent verification of radiological release of real and personal property from EM facilities;
- Ensure technical rigor is built into the total process, including independent verification protocols and procedures;
- Ensure that evaluation of final site conditions and validation of contractor's final status survey procedures, results, and documentation are conducted independently of operating contractor managing the cleanup of the property and DOE personnel;
- Manage strategically ORISE's planning and workload for EM-complex;
- Treat the field sites as customers; and
- Enhance public credibility.

**VIII. Proposed Program Requirements:**

Subprogram on Authorized Limits and Radiological Release Issues:

1. *Calculation of Radiation Dose, Risk, and Cleanup Criteria (RESRAD Codes):* EM-20, in conjunction with other DOE organizations and NRC, funds the development of the RESidual RADioactivity (RESRAD) computer codes at Argonne National Laboratory. EM-20 provides technical direction to Argonne concerning funded activities, in coordination with other funding sources. These codes serve as a scientific basis for demonstrating that authorized limits meet DOE requirements.

2. *Authorization Limits Approval.* DOE field offices develop authorized limits for approval by DOE HQ. EM-20 is responsible for the approval of authorized limits for real property. DOE/HS is responsible for the approval of authorized limits for personal property. EM-20 provides assistance to field sites in developing authorized limits for both real and personal property.

3. *Radiological Survey Approaches for Implementation of Authorized Limits.* In conjunction with other DOE and non-DOE organizations, EM-20 develops and/or distributes implementation guides for radiological surveys. Guides include approaches acceptable for meeting DOE

radiological release requirements, such as those assumed by DOE Order 5400.5 or presented in the interagency MARSSIM (DOE/EH-0624, Rev.1).

4. *Site Radiological Survey and Evaluation Plan Development.* Cleanup contractors prepare and execute radiological survey plans during site operations. These radiological survey plans and procedures must demonstrate that the subject property meets the authorized limits and other radiological release criteria. Radiological survey plans are approved by DOE field offices and may be subject to approval by States, EPA, or other organizations, depending on the circumstances.

*Subprogram on Independent Verification of Radiological Release:*

1. *Independent Verification of Radiological Survey Procedures.* Upon designation by EM-20 of its verification tasks, the independent verification contractor will obtain the site's (or cleanup contractor's) radiological survey plans and procedures. Independent verification begins with a review of the site's (or contractor's) radiological survey plans and procedures. The results of the review and the resolution of any concerns or issues will be documented.

2. *Independent Verification Planning for Sites.* DOE HQ has identified the Oak Ridge Institute for Science and Education (ORISE) as a contractor to perform independent verification activities at specific sites. Other qualified contractors might also be identified. The independent verification contractor's scope must include the independent verification of the radiological status of any real property which will be released to other organizations. The scope may also include the independent verification of the radiological status of personal property and/or other real property. EM-20 will monitor the current and anticipated workload for ORISE and any other organization performing independent verification activities to resolve any schedule or timing issues that might adversely affect site completion.

3. *Independent Verification Implementation and Operation.* When appropriate, the Federal Project Director will request the designation by EM-20 of an independent verification contractor. The independent verification contractor will obtain copies of: 1) the approved authorized limits (or other radiological release criteria); and 2) the radiological survey procedures. The independent verification contractor will review the radiological survey procedures and provide comments to EM-20, the DOE field office, and the site cleanup contractor. DOE field offices and/or cleanup contractors may (at their discretion) modify radiological survey plans based on these comments.

When the cleanup contractor completes major work segments, the cleanup contractor will deliver to the DOE field office a statement certifying that the segment meets the authorized limits, with radiological data demonstrating the adequacy of the statement.

The independent verification contractor will prepare an independent verification plan for each major work segment to be verified. The plan will be forwarded to EM-20 (with a copy to the DOE field Office) for review and approval after resolution of any comments that might be identified. The plan will be executed within two weeks of the cleanup contractor delivering the certification of completion of the cleanup segment. The plan must include a review of radiological survey procedures and may include field measurements of radiological conditions. Further, the independent verification contractor may review the procedures by which the cleanup contractor avoids recontamination of the remediated segment, if there are ongoing radiological activities nearby.

Within two weeks of completion of all field work, the independent verification contractor will provide a letter to EM-20 indicating whether the segment: (1) meets the authorized limits; (2) does not meet the authorized limits; or (3) requires additional measurements to determine the compliance status. In the event that the independent verification contractor has identified discrepancies or possibly non-compliant areas to the cleanup contractor during the course of verification activities, the cleanup contractor may address these areas without formal notification and the verification contractor may note that the discrepancies or possible non-compliant areas had been resolved.

#### *4. Independent Verification Oversight and Correction.*

EM-20 will exercise oversight (procedures, programs, controls) and correction of independent verification activities. EM-20 will review and approve independent verification schedules and activities in order to use resources efficiently and avoid adverse budget and schedule impacts on cleanup projects. EM-20 will exercise control over verification activities with the expectation that the DOE field organization is the customer. Any changes or correction in independent verification activities will be directed after management review. Changes or correction involving environmental, health, or safety issues will be immediately implemented with subsequent management notification. To avoid any potential conflict of interest, no independent verification contractor may (directly or indirectly) offer, bid for, or compete for any other radiological survey services at any DOE site, either as a prime contractor or as a subcontractor.

*5. Management Review.* Management and/or programmatic reviews will be conducted periodically for all independent verification contractors. These reviews will occur annually and preferably more frequently. These

reviews will include (but not be limited to) the following areas: budget, schedule, technical, and procedural.

6. *Site Documentation and Record Keeping.* Independent verification contractors will have and maintain standard procedures for the conduct of radiological surveys, including a survey procedures, laboratory procedures, and quality control procedures. All letters, reports, and other documents prepared by the independent verification contractor will be furnished to the following: (1) the appointed point of contact in EM-20; (2) the Federal project director or other appointed point of contact in the DOE field organization; (3) the appointed point of contact in the cleanup contractor's organization; and (4) the designated custodian of the official site docket, public record, or similar compendium of site documents. All records for a particular verification task will be maintained and stored using the record retention procedures applicable to a particular cleanup site. Samples collected for analysis will be disposed after 90 days.

7. *Lessons Learned/Best Practices and Training.* Independent verification contractors will produce lessons learned and best practice documentation when warranted, and furnish the documentation to EM-20. The EM-20 point of contact will ensure that documentation is entered into the DOE Corporate Lessons Learned Database and the EM-20 LIVELINK repository for lessons learned and best practices. Employees of independent verification contractors will maintain training appropriate for their positions. Personnel performing field or laboratory work will take training appropriate for hazardous waste sites, radiation protection activities, and site operations.

**IX. Roles and Responsibilities:**

See Templates Attached

**X. ORISE Strategy and Plan:**

ORISE will be the initial contractor providing independent verification services. When charged and funded by EM-20, ORISE will obtain the authorized limits for each EM site and review the radiological survey procedures for each site. The line of inquiry is whether or not the radiological survey procedures are capable of demonstrating compliance with the authorized limits, for both real and personal property. In short, the strategy is to perform independent verification where there is the most benefit and greatest concern regarding radiological release of property.

The priority for the review of radiological survey plans and procedures will be as follows: 1) Property being released to public access without restrictions or DOE ownership; 2) Property being released for restricted

use or non-radiological disposal; 3) Property not believed to have been affected by radiological activities; and 4) Property being transferred to or disposed at another DOE or licensed nuclear facility. After ORISE has reviewed and reported its findings on the subject document, the DOE field office and operating contractor will respond to the comments by either making changes in procedures or by rejecting the comment. EM-20 will monitor the resolution of the comments, with the potential assistance of other DOE Headquarters elements.

When directed and funded by EM-20, ORISE will perform radiological activities at field sites to independently verify the radiological status of property. Since this activity involves costs well in excess of \$20,000 per site per visit, EM-20 will prioritize sites based upon the following factors: 1) adequacy of radiological survey procedures; 2) whether property is being released to the public; 3) presence or absence of other radiation protection issues; and 4) results of previous verification activities at the field site. When EM-20 desires this activity, it will direct ORISE to prepare a radiological survey plan for its proposed activities. EM-20 will review and approve the plan, with the assistance of the DOE field office. Upon approval by EM-20, ORISE will execute the planned verification activities and prepare a draft report. EM-20 will review and provide comments on the draft verification report, with the optional assistance of the DOE field office and the cleanup contractor.

Funding for independent verification activities needs to be implemented. Options could range from charging each site that receives the services, charging a general tax imposed on all EM activities, or developing a specific annual budget item.

## **XI. Sensitivities:**

- Some EPA personnel resent the development of the RESRAD codes. They believe that DOE (and everyone else) should defer to EPA's modeling approach and methodology. EPA's modeling activities are several years behind those of DOE.
- Project and program managers sometimes do not understand the radiological release requirements and the implications of those requirements on radiological survey needs. These personnel might be upset to learn that their authorized limits or other cleanup criteria have aspects with no value added or require major radiological survey costs.
- Several sites have used inadequate radiological survey procedures, which do not adequately demonstrate compliance with the authorized limits (or other release criteria). Project and program managers, as

well as health physics personnel, could resent an "outside" independent verification contractor identifying this deficiency.

- Local citizens, elected officials, and public interest groups will likely welcome independent verification as a worthwhile activity.

Approval:

Date:

Disapproval:

Date:

1. DEVELOP Authorized Limits & Radiological Survey Procedures				
Driver	Responsibility	Lead Role	Support Role	Comments
5400.5	Develop RESRAD Code	Argonne Lab	EM-20, HS-20	Funds and direction from HS & EM
5400.5	Obtain RESRAD and Training for Developing Authorized limits	Field Offices	Argonne Lab, HS-20, EM-20, Cleanup Contractors	Field offices may use cleanup contractors for this activity
5400.5	Develop Authorized Limits	Field Offices	EM-20, HS-20, Cleanup Contractors	Field offices develop authorized limits and furnish package to HQ (EM or HS); can use cleanup contractors for this activity
5400.5 10 CFR 835	Develop & Execute Radiological Survey Procedures	Cleanup Contractors	Field Offices	DOE field office approves procedures
5400.5	Develop Independent Verification (IV) Survey Plan, Execute the Plan, Prepare Survey Report	ORISE	Field Office, EM-20	DOE approval (EM-20)

**2. APPROVE Authorized Limits & Radiological Survey Procedures**

<b>Driver</b>	<b>Responsibility</b>	<b>Lead Role</b>	<b>Support Role</b>	<b>Comments</b>
5400.5	Approve Authorized Limits for Real Property	EM-20	HS-20, Argonne Lab	Support as needed
5400.5	Approve Authorized Limits for Personal Property	HS-20	EM-20, Argonne Lab	Support as needed
5400.5 10 CFR 835	Approve Cleanup Contractor Survey Procedures and Direct Execution of the Approved Plan	Field Offices	EM-20, HS-20, ORISE, Cleanup Contractors	Support as needed
5400.5	Review /Approve IV Plan for Property	EM-20	Field Offices, HS-20, ORISE	

3. REVIEW Practices, Resolve Issues, & PERFORM Oversight				
Driver	Responsibility	Lead Role	Support Role	Comments
5400.5 10 CFR 835	Radiological Release Oversight	EM-20	ORISE, Facility Reps & Field Offices	
5400.5	Resolve Issues in Radiological Survey and Property Release	Field Offices	EM-20, Cleanup Contractor, ORISE	
5400.5	IV of Cleanup Contractor Radiological Survey Procedures and Practices	ORISE	EM-20, HS-20, Field Offices, Cleanup Contractors	Not all supporting organizations will need to participate
5400.5 others	Resolve Issues from IV Activities	EM-20, EM Management	Field Offices, other DOE Offices, Cleanup Contractors, ORISE	Some stakeholder interest likely; not all supporting organizations will be involved

4. DOCUMENT Lessons Learned, Best Practices, and CONDUCT Training				
Driver	Responsibility	Lead Role	Support Role	Comments
5400.5 & 10 CFR 835	Training in Radiological Survey Methods	ORISE, Other Suppliers	EM-20, HS-20	Federal and contractor personnel are training customers
5400.5	RESRAD Training	Argonne Lab	EM-20, HS-20, Others	Federal and contractor personnel are training customers
5400.5 10 CFR 835 others	Identify Lessons Learned and Best Practices	All		Writeups are furnished to EM-20
5400.5 10 CFR 835 others	Enter Lessons Learned & Best Practices into DOE Corporate Lessons Learned Database and EM LIVELINK Repository	EM-20 (coordinate w/ EM-50)	Field Offices, Other DOE Offices, Cleanup Contractors, ORISE, Argonne Lab	

1. EM-HQ Roles and Responsibilities for Radiological Release Issues					
Driver	Responsibility	Lead Role	Support Role	Comments	
5400.5	Approve Authorized Limits for Real Property	EM-20	HS-20, Argonne Lab	Support as needed	
5400.5	Review /Approve IV Plan for Property	EM-20	Field Offices, HS-20, ORISE		
5400.5 10 CFR 835	Radiological Release Oversight	EM-20	ORISE, Facility Reps & Field Offices		
5400.5 others	Resolve Issues from IV Activities	EM-20, EM Management	Field Offices, Other DOE Offices, Cleanup Contractors, ORISE	Some stakeholder interest likely; not all supporting organizations will be involved	
5400.5 10 CFR 835 others	Identify Lessons Learned and Best Practices	All		Write-ups are furnished to EM-20	
5400.5 10 CFR 835 others	Enter Lessons Learned & Best Practices into DOE Corporate Lessons Learned Database and EM LIVELINK Repository	EM-20 (coordinate w/ EM-50)	Field Offices, Other DOE Offices, Cleanup Contractors, ORISE, Argonne Lab		
5400.5	Develop RESRAD Code	Argonne Lab	EM-20, HS-20	Funds & direction from HS & EM	
5400.5	Obtain RESRAD and Training for Developing Authorized Limits	Field Offices	Argonne Lab, HS-20, EM-20	Field offices may use cleanup contractors for this activity	
5400.5	Develop Authorized Limits	Field Offices	EM-20, HS-20	Field offices develop authorized limits & send package to HQ (EM or HS); can use cleanup contractors	
5400.5	Develop IV Survey Plan, Execute the Plan, Prepare Survey Report	ORISE	Field Office, EM-20	DOE Approval (EM-20)	
5400.5	Approve Authorized Limits for Personal Property	HS-20	EM-20, Argonne Lab	Support as needed	
5400.5 10 CFR 835	Approve Survey Procedures and Direct Execution of the Approved Plan	Field Offices	EM-20, HS-20, ORISE	Support as needed	
5400.5	Resolve Issues in Radiological Survey and Property Release	Field Offices	EM-20, Cleanup Contractor, ORISE		
5400.5	IV of Cleanup Contractor Radiological Survey Procedures and Practices	ORISE	EM-20, HS-20, Field Offices	Not all supporting organizations will need to participate	
5400.5 10 CFR 835	Training in Radiological Survey Methods	ORISE, Other Suppliers	EM-20, HS-20	Federal and contractor personnel are training customers	
5400.5	RESRAD Training	Argonne Lab	EM-20, HS-20, Others	Federal & contractor personnel are training customers	
5400.5 10 CFR 835 others	Identify Lessons Learned and Best Practices	All		Writeups are furnished to EM-20	

2. DOE Field Office Roles and Responsibilities for Radiological Release Issues				
Driver	Responsibility	Lead Role	Support Role	Comments
5400.5	Obtain RESRAD and Training for Developing Authorized Limits	Field Offices	Argonne Lab, HS-20, EM-20	Field offices may use cleanup contractors for this activity
5400.5	Develop Authorized Limits	Field Offices	EM-20, HS-20	Field offices develop authorized limits and furnish package to HQ (EM or HS); can use contractors
5400.5 10 CFR 835	Approve Cleanup Contractor Survey Procedures and Direct Execution of Approved Plan	Field Offices	EM-20, HS-20, ORISE	Support as needed
5400.5	Resolve Issues in Radiological Survey and Property Release	Field Offices	EM-20, Cleanup Contractors, ORISE	
5400.5 10 CFR 835	Develop & Execute Radiological Survey Procedures	Cleanup Contractors	Field Offices	DOE field office approval of procedures
5400.5	Develop IV Survey Plan, Execute the Plan, Prepare Survey report	ORISE	Field Office, EM-20	DOE Approval (EM-20)
5400.5	Review /Approve IV Plan for Property	EM-20	Field Offices, HS-20, ORISE	
5400.5 10 CFR 835	Radiological Release Oversight	EM-20	ORISE, Facility Reps & Field Offices	
5400.5	IV of Cleanup Contractor Radiological Survey Procedures and Practices	ORISE	EM-20, HS-20, Field Offices	Not all supporting organizations will need to participate
5400.5 others	Resolve Issues from IV Activities	EM-20, EM Management	Field Offices, Other DOE Offices, Cleanup Contractors, ORISE	Some stakeholder interest likely; not all supporting organizations will be involved
5400.5 10 CFR 835 others	Identify Lessons Learned and Best Practices	All		Writeups are furnished to EM-20
5400.5 10 CFR 835, others	Enter Lessons Learned and Best Practices into DOE Corporate Lessons Learned Database and EM LIVELINK Repository	EM-20 (coordinate w/ EM-50)	Field Offices, Other DOE Offices, Cleanup Contractors, ORISE, Argonne Lab	

3. ORISE Roles and Responsibilities for Radiological Release Issues					
Driver	Responsibility	Lead Role	Support Role	Comments	
5400.5	Develop IV Survey Plan, Execute the Plan, Prepare Survey report	ORISE	Field Office, EM-20	DOE approval (EM-20)	
5400.5	IV of Cleanup Contractor Radiological Survey Procedures and Practices	ORISE	EM-20, HS-20, Field Offices	Not all supporting organizations will need to participate	
5400.5 10 CFR 835	Training in Radiological Survey Methods	ORISE, Other Suppliers	EM-20, HS-20	Federal and contractor personnel are training customers	
5400.5 10 CFR 835	Approve Cleanup Contractor Survey Procedures and Direct Execution of Approved Plan	Field Offices	EM-20, HS-20, ORISE	Support as needed	
5400.5	Review /Approve IV Plan for Property	EM-20	Field Offices, HS-20, ORISE		
5400.5 10 CFR 835	Radiological Release Oversight	EM-20	ORISE, Facility Reps & Field Offices		
5400.5	Resolve Issues in Radiological Survey and Property Release	Field Offices	EM-20, Cleanup Contractor, ORISE		
5400.5 others	Resolve Issues from IV Activities	EM-20, EM Management	Field Offices, Other DOE Offices, Cleanup Contractors, ORISE	Some stakeholder interest likely; not all supporting organizations will be involved	
5400.5 10 CFR 835, others	Identify Lessons Learned and Best Practices	All		Writeups are furnished to EM-20	
5400.5, 10 CFR 835, others	Enter Lessons Learned and Best Practices into DOE corporate Lessons Learned Database and EM LIVELINK Repository	EM-20	Field Offices, Other DOE Offices, Cleanup Contractors, ORISE, Argonne Lab		

4. DOE/HS Roles and Responsibilities for Radiological Release Issues					
Driver	Responsibility	Lead Role	Support Role	Comments	
5400.5	Approve Authorized Limits for Personal Property	HS-20	EM-20, Argonne Lab	Support as needed	
5400.5 10 CFR 835 Others	Identify Lessons Learned and Best Practices	All		Writeups are furnished to EM-20	
5400.5	Develop RESRAD Code	Argonne Lab	EM-20, HS-20	Funds & direction from HS & EM	
5400.5	Obtain RESRAD and Training for Developing Authorized Limits	Field Offices	Argonne Lab, HS-20, EM-20	Field offices may use cleanup contractors for this activity	
5400.5	Develop Authorized Limits	Field Offices	EM-20, HS-20	Field offices develop authorized limits and furnish package to HQ (EM or HS); can use cleanup contractors	
5400.5	Approve Authorized Limits for Real Property	EM-20	HS-20, Argonne lab	Support as needed	
5400.5 10 CFR 835	Approve Cleanup Contractor Survey Procedures and Direct Execution of Approved Plan	Field Offices	EM-20, HS-20, ORISE	Support as needed	
5400.5	Review /Approve IV Plan for Property	EM-20	Field Offices, HS-20, ORISE		
5400.5	IV of Cleanup Contractor Radiological Survey Procedures and Practices	ORISE	EM-20, HS-20, Field Offices	Not all supporting organizations will need to participate	
5400.5 10 CFR 835	Training in Radiological Survey Methods	ORISE, Other Suppliers	EM-20, HS-20	Federal and contractor personnel are training customers	
5400.5	RESRAD Training	Argonne Lab	EM-20, HS-20, Others	Federal and contractor personnel are training customers	
5400.5 10 CFR 835 others	Enter Lessons Learned and Best Practices into DOE Corporate Lessons Learned Database and EM LIVELINK Repository	EM-20 (coordinate w/ EM-50)	Field Offices, Other DOE Offices, Cleanup Contractors, ORISE, Argonne Lab		

5. Cleanup Contractor Roles and Responsibilities for Radiological Release Issues				
Driver	Responsibility	Lead Role	Support Role	Comments
5400.5 10 CFR 835	Develop & Execute Radiological Survey Procedures	Cleanup Contractors	Field Offices	DOE field office approval of procedures
5400.5	Obtain RESRAD and Training for Developing Authorized Limits	Field Offices	Argonne Lab, HS-20, EM-20, Cleanup Contractors	Field offices may use cleanup contractors for this activity
5400.5	Develop Authorized Limits	Field Offices	EM-20, HS-20, Cleanup Contractors	Field offices develop authorized limits and furnish package to HQ (EM or HS); can use cleanup contractors
5400.5 10 CFR 835	Approve Cleanup Contractor Survey Procedures and Direct Execution of the Approved Plan	Field Offices	EM-20, HS-20, ORISE, Cleanup Contractors	Support as needed
5400.5	Resolve Issues in Radiological Survey and Property Release	Field Offices	EM-20, Cleanup Contractor, ORISE	
5400.5	IV of Cleanup Contractor Radiological Survey Procedures and Practice	ORISE	EM-20, HS-20, Field Offices, Cleanup Contractors	Not all supporting organizations will need to participate
5400.5 others	Resolve Issues from IV Activities	EM-20, EM Management	Field Offices, Other DOE Offices, Cleanup Contractors, ORISE	Some stakeholder interest likely; not all supporting organizations will be involved
5400.5, 10 CFR 835 others	Identify Lessons Learned and Best Practices	All		Write-ups are furnished to EM-20
5400.5 10 CFR 835 others	Enter Lessons Learned and Best Practices into DOE Corporate Lessons Learned Database and EM LIVELINK Repository	EM-20	Field Offices, Other DOE Offices, Cleanup Contractors, ORISE, Argonne Lab	
5400.5 & 10 CFR 835	Training in Radiological Survey Methods	ORISE, Other Suppliers	EM-20, HS-20	Federal and contractor personnel are training customers
5400.5	RESRAD Training	Argonne Lab	EM-20, HS-20, Others	Federal and contractor personnel are training customers