

Performance Work Statement

Decontamination Analytical and Technical Services (DATS) Contract

I. BACKGROUND

The Decontamination Analytical and Technical Services (DATS) Contract supports the United States Environmental Protection Agency's (USEPA) National Decontamination Team (NDT) based in Cincinnati, Ohio. DATS utilizes government and contractor-owned equipment and facilities in greater Cincinnati area to provide analytical, technical and information management support to the NDT in conducting Agency missions under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Superfund Amendments and Reauthorization Act (SARA), Oil Pollution Act (OPA), Resource Conservation and Recovery Act (RCRA), Toxic Substances Control Act (TSCA), Clean Water Act (CWA), Clean Air Act (CAA), National Contingency Plan (NCP), Presidential Decision Directives (PDD), the Federal Response Plan (FRP), the National Response Plan (NRP), Robert T. Stafford Natural Disaster Act and other legislative acts. NDT's services are provided in support of the Office of Solid Waste and Emergency Response (OSWER), EPA Regional On-Scene Coordinators (OSCs), Remedial Project Managers (RPMs) and other Agency groups. Technical support shall include a full-time support element in close proximity to the Cincinnati, Ohio, and Erlanger, KY facilities. This contract entails site-specific work in the event of an incident of national significance as well as participation on exercises. International support for NDT may also be required should the USEPA be tasked to participate in consequence management for allies and partners outside CONUS as well as for ongoing technical research and collaboration.

The contract is divided into four requirements: Personnel, Technical Information Services, Preparedness and Response Services, and Safety and Quality Assurance. The contractor shall provide scientific and operational support to NDT including technical issues surrounding the sampling and analyses with subsequent decontamination and disposal of buildings, building contents (including evidence), public infrastructure (including waste/drinking water plants, chemical plants, power plants, subways, etc.), indoor environments, agriculture, and the associated environmental media (air, soil and water) in the aftermath of a Weapons of Mass Destruction (WMD) event or other catastrophic incidents of national significance. The contractor shall provide services in the following areas including but not limited to terrorist events; pre-deploying for special security events; delivering of scientific, engineering, and health and safety field support for decontamination activities at terrorist events or other large scale natural or man-made disaster events; assist in designing and managing mission-driven research and development targeted to enhance the capability to provide Chemical Biological Radiological Nuclear Explosive (CBRNE) agent detection, decontamination response and disposal support services at terrorist events; disseminating new capabilities; enhancing planning and preparedness activities for terrorist events; staying informed of current technologies and methodologies for CBRNE agent detection, decontamination and disposal; assist in developing and conducting training and exercises related to CBRNE agent detection, decontamination and disposal, and working within the Incident Command System (ICS). The contractor may be required to perform any of these services during Agency related preparedness and prevention or response efforts. Under this contract, work will be issued through individual task orders.

II. STATEMENT OF WORK

The Project Officer (PO) and/or Task Order (TO) Manager will approve all deliverables. The contractor shall use EPA's SCRIBE or other Agency approved environmental data management system to document all environmental sampling performed under this contract and deliver the resultant files to the PO as a project deliverable. This requirement applies to analytical data produced by in-house and by contract laboratories. Technical requirements for importing data into the SCRIBE system will be provided by NDT. The contractor shall use the EPA OSC web resource provided by NDT as an information repository for all analytical data, deliverables, and related materials. Analytical data shall be submitted in a form suitable for import into SCRIBE, all other deliverables shall be submitted in Adobe PDF format. Access to the SCRIBE system and EPA OSC web resource and training will be provided by NDT. Individual websites will be created by NDT for each task order. Text-based reports shall be maintained in a searchable, indexed database; data shall be provided in Access data tables, Excel spreadsheets, or delimited text files; and images shall be provided as .JPG files. Other standard formats may be identified as necessary in addition to the above requirements.

The contractor shall provide sufficient personnel, equipment, and supplies in all categories necessary for support of NDT. All equipment must be compatible and interoperable. Equipment and supplies shall include, but are not limited to, vehicles, communication devices, information technology devices, health and safety equipment (e.g., personal protective equipment), etc.

A. *PERSONNEL*

The contractor shall provide staff including key personnel that have the ability to obtain Top Secret security clearance, have advanced degrees or certifications, have experience in field operations, and maintain technical expertise in the following disciplines:

- Clinical Microbiology and Infectious Diseases – Provide expertise in microbial pathophysiology, epidemiology, clinical recognition, differential diagnosis, infection control policies and procedures, and diagnostic testing for a wide variety of microbial agents. Have strong and detailed familiarity with the current militarized agents as well as potential agents, such as SARS, Ebola, Marburg, etc. He/She should be sufficiently competent in the area of molecular genetics to appreciate the potential for the modification and selection of existing agents and the risks that entails.
- Toxicology - Broad scientific training in the basic sciences relating to toxicology as well as specialized experience and competence in those areas that most directly affect decontamination issues.
- Engineer - General experience in heating ventilation and air-conditioning (HVAC) systems and specialized experience in using transport models to predict the movement of agents through an HVAC system and in buildings. The engineer should have experience with several different indoor transport models and be familiar with the data collection needed to verify dispersion models. In addition, the engineer should be able to run outdoor dispersion modeling and know how the outdoor and indoor models will interact to create a holistic picture.

- Operations Analysis, Planning and Policies – Broad experience in the organization of complex and multi-organizational plans and policies; knowledge of the federal agencies, including DoD, including their missions and organizations; experience with operational control, communications, logistics, and budgets. Experience in federal, state, and local government coordination.
- Technical Writing – Strong technical writing skills, as well as sufficient scientific knowledge to accomplish tasks with a high degree of independence.
- Health Physics – Specialized experience in the process of decontamination and restoration. Broad background to respond to the wide variety of agents, expert knowledge in regard to the appropriate instrumentation for detection, analysis, identification of the specific isotopes involved in any and all of the exposures scenarios that may occur as a result of a terrorist attack. Strong hands-on capacity for instrumentation use as well as theoretical and general knowledge.
- Environmental Health, Sampling, and Monitoring – Strong laboratory and analytical skills in the areas of environmental testing, analysis, and interpretation. Provide both hands-on expertise sufficient to support field testing operations; be able to adapt sample specimen extraction and processing from a variety of matrices, as well as a strong general and theoretical background. Aware of national assets for testing and have a working knowledge of the agencies and facilities involved.
- Transportation and Disposal Specialist – Strong knowledge of transportation and disposal options for CBRNE and HAZMAT materials and decontamination effluence. Knowledge of U.S. Department of Transportation regulations for transportation through multiple states. Background on state landfill regulations and landfill acceptance criteria.
- Analytical Chemist – Broad experience in both laboratory and field sampling and analytical methods. Experienced with designing, implementing and documenting research projects. Lesson planning, development, and presentation experience.
- Certified Industrial Hygienist – This person should be experienced in the development and implementation of a health and safety program as required under 29 CFR 1910.120 and other applicable regulations. The person must proficient in personal air monitoring and air sampling and SOPs for providing personnel with proper Personal Protective Equipment (PPE) (Levels A, B, C, and D) as required to conduct field activities at an INS, uncontrolled hazardous waste sites and at emergency response operations involving spills of oil and hazardous substances. They must also be proficient at the preparation and review of written Health and Safety Plans and other associated reports. They should be able to provide safety oversight and conduct safety audits in the field. Familiarity with safety as related to CBRNE weapons is also required. They should also be knowledgeable in many areas and be able to apply the basic theories, practices, and principals from scientific fields including biology, chemistry, hydrology, and geology. The person should be familiar with the planning, design, and implementation of solutions for site cleanup and the alleviation of damage caused by hazardous substances.

The contractor shall assume up to six of the key personnel will be required to obtain Top Secret security clearance; specifically personnel specializing and working in the field of CBRN agents. The NDT assists various agencies and requires access to Top Secret information from within the EPA, the Department of Homeland Security, Federal Bureau of Investigation, Secret Service, and other Agencies and Departments.

B. TECHNICAL INFORMATION SERVICES

The contractor shall provide technical support and services in the following areas:

1. Information Management

The contractor shall collect, evaluate, compile, organize, and verify various types of technical and resource information existent in diverse formats and contexts and reformat as appropriate to ensure suitability for and subsequent input into a shared access database with EPA, Office of Environmental Management (OEM) and NDT members for both CBRNE and hazardous substances contamination analyses, decontamination planning and disposal arrangement purposes as well as for crisis management support. The following descriptions outline anticipated IT efforts to be performed under this contract either concurrently or consecutively as resources allow:

- a. Collaborate closely with and assist EPA Office of Environmental Information (OEI), OEM, and NDT personnel in the design and construction of an information portal and in the conceptualization, design, organization, and construction of a Decontamination Portfolio (Decon Portfolio) with associated databases, specialized information, and tools. The contractor shall provide all the information and research tasks that follow, unless otherwise directed, in a form suitable for efficient, convenient, reliable, and shared electronic access and use through the portal and Decon Portfolio. The Decon Portfolio will be a national response resource and will represent a capstone information management objective of this contract.
- b. Ongoing Decontamination Portfolio database management, input, and maintenance.
- c. Performing targeted technical literature searches including technical evaluations of new and existing methodologies, and techniques, tactics, and procedures (TTPs), related to extent of contamination analyses, decontamination sciences, disposal options and operations.
- d. Compilation and input of informational exchanges resulting from anticipated interactions with the research community (NHSRC).
- e. Collect, evaluate, compile, and organize specific information regarding threat agents of concern to EPA according to appropriate categorical venues including, but not limited to, risk assessment, health and safety, sampling, decontamination and disposal strategies.
- f. Arrange and implement inter-library loans.
- g. Collect, organize, format and input for distribution technical material such as reports, photos, slides, videotapes, audiotapes, CD-ROMs, CDs, DVDs, microfiche and other data for research and evaluation purposes.

- h. Evaluate and make recommendations for improvements to the IT and communications capabilities existent within EPA for suitability to modification and specialization to the NDT and OEM mission, as well as to enhance inter-agency coordination.
- i. Make evaluations and recommendations to EPA OEM/NDT and OEI regarding the development or incorporation of collaborative planning tools both within the Agency as well as for inter-agency use.
- j. Provide technical assistance to ensure that EPA OEM/NDT IT tools include a single Current Operational Picture web page that will serve as the Agency focal point for all crisis management. This web site should have robust real-time updating capabilities by field personnel from various EPA components and other government agencies. The tool should also act as an IT platform for displaying all related information in a fully integrated manner.

2. Technical Media Documentation and Development Support

The contractor shall edit and/or prepare technical bulletins, reports, documents (e.g., technical papers and site-related deliverables), and presentations to support reporting of the NDT mission and activities. Anticipated efforts under this requirement may include the following:

- a. Providing photo documentation of planning, preparedness and field operations including multi-format location and studio photography, processing and the production of color and/or black and white prints, slides, copy negatives and enlargements.
- b. Operation of multi-media presentation equipment including slide projectors, video camera recorders, satellite downlinks, and other media presentation equipment.
- c. Provide video documentation of planning, preparedness and field operations including multi-format location and studio videography, concept and storyboard development, script preparation, editing, post-production work, and duplication of completed products.
- d. Provide real-time videography for common access in support of event coordination and management.

3. Technical Analysis Support

The contractor shall provide technical data gathering, processing, analyses, and management tools and services to support OEM/NDT program and field activities. The following descriptions outline the anticipated tools and services that may be tasked under this requirement as resources permit:

- a. Provide technical data processing and analyses including statistical analyses in support of emergency response actions, field projects, reports, and technical assessments.
- b. Provide technical drafting of field site plans, computer aided design drawings, and/or maps, including integration of geographical information system data where appropriate, etc.

(utilizing EPA standard software such as ARC Info/ARC View, various commercially available software and task specified software).

- c. Consolidate gathered data, input the data and run transport models to predict contaminant dispersion in buildings through HVAC systems and do the same with other models for outdoor dispersion in the environment.
- d. Consolidate gathered data, input the data and run data processing programs for CBRNE sensing systems or networks designed for remote detection and location. (Currently the principal OEM/NDT remote sensing system produces infrared imagery and infrared spectrometer data collected from an airborne platform and processed using internally developed software and the Research Systems, Inc., ENVI® software package).
- e. Assist with the development and application of technical evaluation criteria for review of research plans and proposals.
- f. Review and evaluate technical research proposals for determinations of the adequacy and efficacy of the experimental design to provide accurate and statistically reliable validation of the test method.
- g. Assist in the development of criteria for the evaluation of decontamination methods, metrics and endpoint selection, and progress tracking as appropriate for agent specific scenarios.
- h. Assess needs, identify gaps, and make recommendations on the existing TTPs for decontamination.

C. PREPAREDNESS AND RESPONSE SERVICES

The contractor shall provide technical support and services for the following OEM/NDT programmatic activities:

1. Preparedness Activities Support

The contractor shall provide technical support for the development and updating of plans, operations, technologies, and assistance agreements focused on OEM/NDT program preparations for responses to CBRNE events and exercises. This work includes the gathering, evaluating and comparing of existing EPA and other federal, state, city and key local agencies or authorities concepts of operations, TTPs, and methodologies with respect to contamination sampling, assessment, mitigation, control, decontamination, restoration, re-occupancy criteria, and waste disposal. These planning reviews shall be considered as an end-to-end sequence of essential operations. The following descriptions outline in more detail various tasks anticipated under this requirement, subject to funding and resource availability:

- a. Developing decontamination and disposal plans (Concepts of Decontamination Operations including necessary TTPs) for classes of agents and including scaling factors for readily identifiable variables, i.e., population densities, and meteorological conditions. These plans should include the development of appropriate and relevant; management tools, decontamination debris sampling and analytical methods, pre-disposal criteria and approval checklists, quality control processes, and documentation procedures. The initial general class plan shall be designed as a template that can be easily modified to address specific agent response planning.
- b. Identify and evaluate existing and alternative decontamination technologies, techniques, tactics, and procedures for CBRN contaminants.
- c. Develop and implement methods to monitor and track the progress of decontamination operations, waste characterization, and disposal activities.
- d. Identify, compile, and update a prioritized list of high-risk agents.
- e. Capable to work under an ICS structure and Unified Command (IC). ICS training should be no less than at the 400 Level.
- f. Develop plans to support ICS/Incident Management Team (IMT) staffing needs during a large and prolonged decontamination response.
- g. Develop guidelines for safe and effective analysis, treatment, collection, neutralization, and disposal of decontaminated materials and decontamination waste by-products.
- h. Develop, enhance, and support guidance and training for sampling kits, devices, or other tools used to identify, measure, or neutralize, agents of concern in all media.
- i. Provide technical support and training on decontamination of equipment, buildings, outdoor areas, and agricultural sites.
- j. Develop and implement preparedness activities for transportation systems (i.e., airports, subways, bus terminals).
- k. Design bench scale decontamination testing methods in cooperation with Office of Research and Development (ORD), other agency research and development organizations and the National Homeland Security Research Center (NHSRC).
- l. Determine performance efficiencies/efficacies for treatment technologies in accordance with EPA Treatability Study Guidelines to include estimation of final achievable concentrations and percent removals given varying initial concentrations.
- m. Research potential partnerships and/or agreements and share information with Federal, state and local organizations as directed. This includes developing active liaisons with key

state and city or other local partners who may be active in the development and implementation of such concepts of operations, regulatory disposal approvals, and TTPs.

- n. Provide appropriate and EPA-compatible levels of protection to all personnel.
- o. Assist in the development and implementation of EPA/contractor Level A training exercises, including classroom and field components designed to reinforce basic emergency response skills and to enhance interactions as part of an integrated team.
- p. Develop a training course on how to decontaminate people to train emergency responders.
- q. Assist with the design and review of response plans related to terrorist incidents, natural and industrial CBRNE disasters, and hazardous waste sites including procedures, for containment and clean up, decontamination of equipment and buildings, personnel safety and monitoring, and final disposal.
- r. Develop recommendations for contingencies involving high mass/ high volume disposal requirements, including a comparative assessment such of such alternative methods of disposal as chipping, grinding, incineration, or burial in landfills.
- s. Evaluate and provide critical comparison of indoor and outdoor transport models and remote sensing techniques for use in emergency response and decontamination scenarios.

2. Risk Assessment and Risk Communications

- a. The contractor shall perform pre-planned Risk Assessments in accordance with the following guidance: EPA's Ecological Risk Assessment for Superfund: Process for Designing and Conducting Ecological Risk Assessments and the most current version of the Risk Assessment Guidance (RAG) for Superfund, Volume 1 – Human Health Manual (Part D, Standardized Planning, Reporting, and Review of Superfund Risk Assessment).
- a. The contractor shall gather and evaluate appropriate incident specific variables, toxicological, human health and ecological threat information and data to assist in developing quick turnaround, event specific risk assessments.
- b. The contractor shall assist in the development and implementation of risk communication plans and tools.
- c. The contractor shall provide support and services, as needed for presentation of risk assessments to the public through various communication media.
- d. Design and implement technical options for conducting and evaluating risk assessment, environmental assessment and multi-media extent of contamination assessment to include environmental impact and bioavailability of contaminants.

3. Response Activities

The contractor shall provide technical and logistical support and services for field deployments required under the OEM/NDT mission and its various authorities. The primary field activities anticipated under this contract are; response to an agent release event, exercises, drills, and field studies performed under one of the above requirements. The following are detailed descriptions of anticipated response support activities under this requirement that may be tasked as funding and resources permit:

- a. Arrange for and/or conduct engineering studies related to decontamination operations and methods during emergency response activities and at hazardous waste sites.
- b. Arrange for and/or conduct site mapping and surveying, which may include: soil gas surveys, groundwater flow modeling, x-ray fluorescence surveys, surface geophysical surveys, and down-hole camera studies.
- c. Assist with the design and review of response plans related to terrorist incidents, natural and industrial CBRNE disasters, and hazardous waste sites including procedures for containment and clean up, decontamination of equipment and buildings, personnel safety and monitoring, and final disposal.
- d. Develop recommendations for contingencies involving high mass/ high volume disposal requirements, including a comparative assessment such of such alternative methods of disposal as chipping, grinding, incineration, or burial in landfills.
- e. Arrange for and/or perform multi-media environmental sampling, indoor air investigation, and forensic evidence collection in coordination with OSC and other Federal, State and local agencies.
- f. Arrange for and/or perform CBRNE sampling and analyses for verification of decontamination methods employed at a response to an event or as a component of a field study.
- g. Compile and present data to NDT personnel or Environmental Clearance Committee
- h. Arrange for and/or conduct building engineering studies and evaluations, such as heating, ventilation and air conditioning (HVAC) systems, structural integrity, indoor dispersion modeling, and materials.
- i. Perform emergency response functions at CBRNE or hazardous substance releases; maintain 24-hour, 7-days/week emergency response capabilities for mobilization of equipment and personnel within six hours of notification.
- j. Maintain capability to respond to Level A contingencies and all other levels as required.

- k. Provide appropriate level of personal protective equipment and decontamination methods; provide expert guidance and recommendations on CBRNE response equipment, technologies, and protocols; and, assist in coordinating with key federal partners.
- l. Arrange for and/or perform predictive modeling (meteorological and hydrographical) for short and long-term fate, transport, and migration impacts.
- m. Arrange for and/or perform surveys of meteorological conditions at appropriate points within and adjacent to affected areas and outdoor dispersion modeling.
- n. Arrange for and/or perform field data collections to assist with assessment of risk and environmental impact due to by-products generated during agent decontamination.
- o. Arrange for and/or provide for necessary on-site and off-site analytical support.
- p. Prepare and ship dangerous goods packages containing samples or swipes with small amounts of CBRNE materials.
- q. The offeror will be evaluated on its demonstrated ability to provide technical support when determining whether sites require additional site assessment activities by collecting, recording, and analyzing detailed information about the site, and perform site discovery activities.

D. SAFETY & QUALITY ASSURANCE

1. Health and Safety

Contractor personnel shall satisfy all OSHA requirements for laboratory and field activity work during an NDT contractor deployment or task order. Services shall be provided in the following areas:

- a. Ensure that all activities performed meet NDTs health and safety requirements as outlined in applicable regulations and guidance documents such as 29 CFR 1910.120, EPA Standard Operating Safety Guides, U.S. EPA 1440 Series for Occupational Health and Safety, OSWER Policy, OSWER Integrated H&S Practices: For Field Personnel.
- b. Assist in preparing and implementing a health and safety program for contractor personnel involved in work at uncontrolled hazardous waste sites per 29 CFR 1910.120/126 and EPA Standard Operating Safety Guides and Occupational Health and Safety 1440 series.
- c. Provide all individual health, safety, and protective equipment for contractor personnel required to conduct field activities as outlined in Exhibit C.
- d. Maintain records as required by 29 CFT 1910.120 for contractor and sub-contractor personnel during an NDT deployment.

- e. Provide necessary background information, content review, and recommendations for the development of Occupational Health and Safety Standard Operating Procedures (SOPs) in accordance with 29 CFR 1910.120 response activities and for site-specific health and safety plans, decontamination of equipment, personnel safety, and monitoring.
- f. Arrange for and/or perform on-site assessments of operational health and safety site conditions regarding CBRNE during response and recovery operations.

2. Quality Assurance/Quality Control

The contractor shall be required to evaluate each tasking for the applicability of environmental data collection quality assurance and quality control requirements. For those activities that apply the contractor shall follow the appropriate guidance as follows in section a. below. Further details on additional QA/QC activities anticipated to be assigned can be found in the sections following a.:

- a. Develop and maintain quality assurance measures, including SOP's, for field activities consistent with Agency requirements as stated in EPA QA/R-5 and OSWER Directive #9360.4-01.
- b. Provide technical options and recommendations to support development of QA Technical Bulletins.
- c. Improve existing QA/QC methods for ensuring the progress of decontamination activities.
- d. Develop a QA/QC plan that will ensure satisfactory performance of all decontamination related operations and end-points.

For the contract, the contractor shall provide monthly progress reports depicting all activities performed the current month, activities planned for the next month and a financial statement depicting current month's expenditures, cumulative expenditures and budget. The report shall be delivered to the Project Officer and Contracting Officer in .PDF format via email.

Additional deliverables will be specified in individual work orders. They include but are not limited to the following:

1. Bi-Weekly Progress Updates
2. Decontamination Technology Research Reports
3. Preliminary and Final Data Analyses Reports
4. Technology Review and Assessment Reports
5. Preparedness and Response Plans
6. Concept of Operations Plans
7. Data Summaries
8. Risk Analyses and Communications Plans
9. Engineering Reports, Drawings, Surveys and Maps

10. Cost Analyses Documents
11. Technical Bulletins and/or Pamphlets
12. Public Communication Bulletins and/or Pamphlets

**STATUTORY and REGULATORY FRAMEWORK
SUPERFUND – GENERAL**

This list is a representative sample and is not intended to be all-inclusive.

1. Laws - Statutes
 - Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) (1980), (42 U.S.C. s/s 9601 et. seq.), as amended
 - Superfund Amendments and Reauthorization Act (SARA) (1986)
 - Community Environmental Response Facilitation Act (CERFA) (1992)
 - Asset Conservation, Lender Liability, and Deposit Insurance Protection Act of 1996 (1996)
 - The Small Business Liability Relief and Brownfields Revitalization Act (2002)
 - Clean Water Act (CWA) (1972), (33 U.S.C. s/s 1251 et. seq.) - particularly Section 311
 - Oil Pollution Act (OPA) (1990)
 - Resource Conservation and Recovery Act (RCRA), particularly Subtitle I
 - Emergency Preparedness and Community Right-to-Know Act (EPCRA)
 - Robert T. Stafford Natural Disaster Act (Stafford Act), (42 USC 5121, et. seq.), as amended
 - Homeland Security Act, Public Law 107-296
 - Clean Air Act, (42 USC 85), as amended
2. Code of Federal Regulations (CFR)
 - National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300
3. Federal Registers (significant notices)
 - 50 FR 47912; November 20, 1985 - NCP Final Rule (revisions added by CERCLA)
 - 55 FR 8666; March 8, 1990 - NCP Final Rule (revisions added by SARA)
 - 59 FR 47384; September 15, 1994 - NCP Final Rule (revisions added by OPA)
4. Presidential Decision Directives (PDD)
 - PDD - 39, U.S. Policy on Counter terrorism, June 21, 1995
 - PDD - 62, Protection Against Unconventional Threats to the Homeland and Americans Overseas, 22 May 1998
 - PDD - 63, Critical Infrastructure Protection, 22 May 1998
5. National Response Plan (NRP), December 2004, Supersedes Federal Response Plan (FRP), 9230.1-PL, Supersedes FEMA 229 (April 1999), January 2003

6. Policies and Guidance

- CERCLA/Superfund Orientation Manual, EPA Document Number: 542-R-92-005, URL: <http://www.epa.gov/superfund/action/guidance/remedy/remedies/principles.htm>

7. Other References and Resources

- Superfund Home Page, URL: <http://www.epa.gov/superfund>
- Superfund 20th Anniversary Report, URL: <http://www.epa.gov/superfund/action/20years/index.htm>

DISCOVERY & NOTIFICATION

1. Laws - Statutes

- Section 103 of CERCLA as amended
- Section 304 of the Emergency Planning and Community Right-to-Know Act (EPCRA)
- (1986)
- Section 311 of CWA, as amended by the OPA

2. CFR

- 40 CFR Part 302 - Designation, Reportable Quantities, and Notification
- 40 CFR Part 355 - Emergency Planning and Notification
- 40 CFR Part 110 - Discharge of Oil
- 40 CFR 300.405 - Discovery and Notification (Hazardous Substances)
- 40 CFR 300.300 - Phase 1 - Discovery or notification (Oil)

3. Federal Registers (significant notices)

- 46 FR 22144 - April 15, 1981 - Hazardous Substances Notification of Treatment, Storage and Disposal Facilities
- 50 FR 13456 - April 4, 1985 - Release Notification Requirements for CERCLA
- 52 FR 13378 - April 22, 1987 - Release Notification Requirements for EPCRA
- 55 FR 45039 - August 25, 1993 - Oil Discharge Regulations
- 61 FR 7421 - February 28, 1996 - Oil discharge Regulations

4. Other Resources

- Emergency Response Program Reporting Triggers URL: <http://www.epa.gov/superfund/programs/er/triggers/index.htm>.

REMOVAL PROCESS

1. Laws - Statutes

- Sections 101 and 104 of CERCLA (definition of and authority for removal response)
 - Section 113 of CERCLA (documentation requirements)
 - Section 311 of the CWA, as amended by the OPA
2. CFR
- 40CFR 300.410 - Removal Site Evaluation (Hazardous Substances)
 - 40 CFR 300.415 - Removal Action (Hazardous Substances)
 - 40 CFR Part 300 Subpart D - Operational Response Phases for Oil Removal
3. Federal Registers (significant notices)
- 55 FR 8666: March 8, 1990 - NCP Final Rule (revisions added by SARA)
 - 59 FR 47384: September 15, 1994 - NCP Final Rule (revisions added by OPA)
4. Policies and Guidance
- Superfund Removal Procedures OSWER, Directive Number: 9360.0-03B
 - Guidance on Conducting Non-Time Critical Removal Actions under CERCLA, Document Number: EPA 540-R-93-057, OSWER Directive Number: 9360.0-32
 - Guide to Developing Action Memorandums, OSWER Directive Number: 9360.3-01FS
 - Model Program for Removal Site File Management, OSWER Directive Number: 9360.2-01
 - Superfund Fact Sheet: The Removal Program, OSWER Directive Number: 9320.0-05FSg
 - Consideration of ARARs during Removal Actions, OSWER Directive Number: 9360.3-02 FS
5. Other Resources
- Superfund Office of Emergency and Remedial Response, <http://www.epa.gov/superfund/partners/oerr/index.htm>

COMMUNITY INVOLVEMENT

1. Laws - Statutes
- Section 113 of CERCLA
2. CFR
- 40 CFR 300.415(n) - Community Relations in Removal Actions
 - 40 CFR 300.430(c) - Community Relations in Remedial Actions
 - 40 CFR 300.430(e)(2)(iv) - Technical Assistance for Communities
 - 40CFR 300.800 - Administrative Record

3. Federal Registers (significant notices)
 - 55 FR 8666; March 8, 1990 - NCP Final Rule (revisions added by SARA)
4. Policies and Guidance
 - Superfund Community Involvement Handbook, Document Number: 540-K-01-003
 - Superfund Removal Procedures: Public Participation Guidance for On-Scene
 - Coordinators: Community Relations and the AR, OSWER Directive Number 9360.3-05
 - Risk Assessment Guidance for Superfund: Volume 1, Human Health Evaluation Manual,
 - Part A: Community involvement in Superfund Risk Assessments, Document Number:
 - EPA 540-R-98-042
 - Superfund Technical Assistance Grants, OSWER Directive Number: 9230.1-05FSA
5. Other Resources
 - Superfund Community Involvement Home Page URL:
<http://www.epa.gov/superfund/action/community/index.htm>

HUMAN HEALTH/ECOLOGICAL RISK ASSESSMENT

For Baseline Human Health Risk Assessments:

Risk Assessment Guidance for Superfund (RAGS), Volume I: Human Health Evaluation Manual: Part A, Baseline Risk Assessment. Interim Final. December 1989. EPA 540/1-89/002. NTIS PB90-155581.

Supplement to Part A: Community Involvement in Superfund Risk Assessments. March 1999. EPA 540-R-98-042. OSWER Directive 9285.7-01E-P. NTIS PB99-963303.

Part B, Development of Risk-Based Preliminary Remediation Goals. December, 1991. EPA 540/R-92/003. OSWER Directive 9285.7-01B. NTIS PB92-963333.

Part C, Risk Evaluation of Remedial Alternatives. December 1991. EPA/540/R-92/004. OSWER Directive 9285.7-01C. NTIS PB92-963334.

Part D, Standardized Planning, Reporting and Review of Superfund Risk Assessments. January 1998. EPA 540-R-97-033. OSWER Directive 9285.7-01D. NTIS PB97-963305.

Risk Assessment Guidance for Superfund, Volume III - Part A, Process for Conducting Probabilistic Risk Assessment. December 2001. EPA 540-R-02-002. OSWER

Directive 9285.7-45. NTIS PB2002 963302.

Supplemental Guidance to RAGS: Calculating the Concentration Term. June 22, 1992. OSWER Directive 9285.7-08I.

Standard Default Exposure Factors. Interim Final. OSWER Directive 9285.6-03. March 25, 1991.

Final Guidance Data Usability in Risk Assessment (Part A). April 1992. OSWER Directive 9285.7-09A. NTIS PB92-963356.

Guidance for Data Usability in Risk Assessment (Part B). May 1992. OSWER Directive 9285.7-09B. NTIS PB92-963362.

Dermal Exposure Assessment: Principles and Applications. January 1992. EPA 600/8-91/011B.

Exposure Factors Handbook, Volume 1. 1997. EPA/600/P-95/002Fa.

Exposure Factors Handbook, Volume 2. 1997. EPA/600/P-95/002Fb.

Exposure Factors Handbook, Volume 3. 1997. EPA/600/P-95/002Fc.

Air/Superfund National Technical Guidance Study Series, Volumes I, II, III, and IV. 1989. EPA 450/1-89-001,002,003,004.

Final Soil Screening Guidance, May 17, 1996. Soil Screening Guidance User's Guide. Office of Solid Waste and Emergency Response. EPA/540/R-96/018.

Soil Screening Guidance: Technical Background Document. EPA 540/R-94/126.

EPA Risk Characterization Program. Memorandum from Administrator Carol Browner. Office of the Administrator, Washington, DC. March 21, 1995.

Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons. Office of Research and Development, Washington, DC. EPA/600/R-93/C89.

PCBs: Cancer Dose-Response Assessment and Application to Environmental Mixtures. Office of Research and Development, Washington, DC. EPA/600/P-96/001A.

Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. July 14, 1994. OSWER Directive 9355.4-12.

Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous

Waste Sites. December 2002. OSWER Directive 9285.6-10.

For Baseline Ecological Risk Assessments:

Guidelines for Ecological Risk Assessment, Final. April 1998. EPA/630/R-95-002F.

Ecological Risk Assessment Guidance for Superfund, Process for Designing and Conducting Ecological Risk Assessments. June 1997. EPA/540-R-97-006.
OSWER Directive 9285.7-006. NTIS PB97-963211.

Ecological Risk Assessment / Management Principles. October 1999. OSWER Directive 9285.7-28P.

Ecological Assessment of Hazardous Waste Sites: A Field and Laboratory Reference Document. EPA 600/3-89/013. March 1989.

EcoUpdate: Intermittent Bulletins, Supplemental Guidance to RAGS, Vol. II. EPA Publications 9345.0-051.

ACRONYMS

- ARARs Applicable or Relevant and Appropriate Requirements
- CAA Clean Air Act
- CBRNE Chemical, Biological, Radiological, Nuclear, and Explosive
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CERCLIS Comprehensive, Environmental Response, Compensation & Liability System
- CFR Code of Federal Regulations
- CLP Contract Laboratory Program
- CO Contracting Officer
- COR Contracting Officer's Representative
- CWA Clean Water Act
- EOC Emergency Operation Center
- EPA Environmental Protection Agency
- ERNS Emergency Response Notification System
- FRP Federal Response Plan
- GIS Geographical Information System
- HVAC Heating, Ventilation, and Air-Conditioning
- ICS Incident Command System
- IMT Incident Management Team
- NCP National Oil and Hazardous Substances Pollution Contingency Plan
- NDT National Decontamination Team
- NRP National Response Plan
- NTA Non-Traditional Agent
- OEI Office of Environmental Information
- OEM Office of Environmental Management
- OPA Oil Pollution Act
- OPP Oil Pollution Prevention
- OSC On-Scene Coordinator
- OSHA Office of Safety and Health Administration
- OSWER Office of Solid Waste and Emergency Response
- PPE Personal Protection Equipment
- PDD Presidential Decision Directives
- PO Project Officer
- QA Quality Assurance
- QAPP Quality Assurance Project Plan
- QC Quality Control
- RPM Remedial Project Manager
- RCRA Resource Conservation and Recovery Act
- SARA Superfund Amendments and Re-authorization Act
- SPCC Spill Prevention Controls and Countermeasures

- TSCA Toxic Substances Control Act
- TTP Techniques, Tactics, and Procedures
- UC Unified Command
- WMD Weapons of Mass Destruction

PERSONAL PROTECTIVE EQUIPMENT TYPES BY LEVELS

Personal Protection Equipment requirements are determined by the *NIOSH/OSHA USCG/and the EPA Occupational-Safety and Health Guidance Manual for Hazardous Waste Site Activities*, issued in October 1985. Additional guidance is given in EPA Standard Operating Safety Guides, Publication 9285.1-03, dated June 1992. These guidance documents or their updated versions will be the final determination for personal protection guidance in this contract. All equipment associated with a particular level of protection, or modified level of protection, is to be supplied by the contractor for each site. Details of the appropriate level of protection will be covered in the HASP.

In an explosive atmosphere, intrinsically safe equipment is a requirement. Optional equipment must be available, depending upon site exigencies.

1. LEVEL A ^{1,2}

- Pressure-demand, 4500 psi self contained breathing apparatus (MSHA/NIOSH approved)
- Fully encapsulating chemical-resistant suit
- Coveralls*
- Underwear, long cotton underwear*
- Gloves (outer), chemical-resistant
- Gloves (inner), chemical-resistant
- Boots, chemical-resistant, steel toe and shank (Depending on suit boot, worn over or under suit boot)
- Hard hat* (under suit)
- 2-way radio communications (intrinsically safe)
- Disposable protective suit, disposable gloves, and disposable boots* (Worn over fully Encapsulating suit)

2. LEVEL B

- Pressure-demand, self-contained breathing apparatus (MSHA/NIOSH approved)
- Chemical-resistant clothing (overalls and long sleeve jacket; coveralls; hooded, one or two-piece chemical-splash suit; disposable chemical-resistant coveralls)
- Coveralls*
- Gloves (outer) chemical-resistant
- Gloves (inner) chemical-resistant
- Boots (outer) chemical-resistant, steel toe and shank
- Boots (outer) chemical-resistant (disposable)*
- Hard hat (face shield*)
- 2-way radio communication (intrinsically safe)

3. LEVEL C

- Full-face, air purifying respirator (MSHA/NIOSH) approved)

- Chemical-resistant clothing (one piece coverall; hooded, two piece chemical splash suit; chemical resistant hood and apron; disposable chemical resistant coveralls)
- Coveralls*
- Gloves (outer) chemical-resistant
- Gloves (inner) chemical-resistant
- Boots, steel toe and shank, chemical-resistant
- Boots (outer) chemical-resistant (disposable)*
- Hard hat (face shield*)
- Escape mask*
- 2-way radio communications (intrinsically safe)

4. LEVEL D

- Coveralls
- Gloves
- Boots/shoes, safety or chemical-resistant steel toe and shank
- Boots (outer) chemical-resistant disposable*
- Safety glasses or chemical splash goggles*
- Hard hat (face shield*)
- Escape mask*

Notes:

1. Must also meet the NFPA Standard 1991 as amended in 1994 (and as subsequently updated).
 2. Offerors shall maintain an adequate supply of Level A protective gear for both industrial chemical and chemical and biological warfare agent responses.
- * Optional at the discretion of the OSC or RPM.