

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 118	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. Not Applicable	5. PROJECT NO. (If applicable)	
6. ISSUED BY Richland Operations Office U.S. Department of Energy Richland Operations Office P.O. Box 550, MSIN A7-80 Richland WA 99352	CODE 00601	7. ADMINISTERED BY (If other than Item 6) Richland Operations Office U.S. Department of Energy Richland Operations Office P.O. Box 550, MSIN A7-80 Richland WA 99352	CODE 00601	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) MISSION SUPPORT ALLIANCE, LLC Attn: Mr. J. Frank Armijo 2490 Garlick Boulevard RICHLAND WA 99354		(X) 9A. AMENDMENT OF SOLICITATION NO.		
		9B. DATED (SEE ITEM 11)		
		X 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC06-09RL14728		
		10B. DATED (SEE ITEM 13) 04/28/2009		
CODE 800095031	FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended. is not extended.
 Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Not applicable

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. I.103 FAR 52.243-2 Changes - Cost Reimbursement
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not. is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The contractor has demonstrated to DOE its readiness to assume responsibilities for the execution of the Public Safety and Resource Protection programs. The contractor shall assume full responsibility for the PSRP programs as described in Section C.2.1.8 Public Safety and Resource Protection on May 9, 2011.

This modification includes changes to Section C.2.1.8 to change the performing contractor from Pacific Northwest National Lab to the Mission Support Contractor. Section J.3 Items 26 through 31 are revised to change the performing contractor to the Mission Support Contractor. A revised Section C.2.1.8 and Section J.3 are attached as attachments 1 and 2.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Alan E. Hopko	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 05/06/2011

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-AC06-09RL14728/118

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NAME OF OFFEROR OR CONTRACTOR
MISSION SUPPORT ALLIANCE, LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>MSA is limited in this task by a not-to-exceed amount of \$1,000,000 for a total amount allocated to PSRP of \$1,700,000 from funds previously allotted to this contract in accordance with Clause B.3, Obligation and Availability of Funds prior to the definitization of this change order in accordance with the referenced clause.</p> <p>The schedule for definitizing this modification is as follows:</p> <p>Contractor submitted technical, cost, and fee proposal - April 11, 2011 Commence negotiations - July 215, 2011 Mutual agreement on definitization - July 27, 2011 days Contractor submits certificate of current cost or pricing data - July 28, 2011 Execute definitization contract modification - July 30, 2011</p> <p>*Date is specified as the number of calendar days after the contractor has authorization to proceed, which occurs after government execution of this modification.</p> <p>Period of Performance: 04/28/2009 to 04/28/2014</p>				

Enclosure 1

Amended Section C.2.1.8
Contract No. DE-AC06-09RL14728
Public Safety and Resource Protection

C.2.1.8 Public Safety and Resource Protection (PSRP)

PSRP is a Hanford Site service that was historically provided by the Pacific Northwest National Laboratory (PNNL). The PSRP program includes Hanford Environmental Oversight, Meteorological and Climatological Services, Environmental Surveillance, Ecological Monitoring and Compliance, Cultural and Historic Resource Program, and Seismic Monitoring. Effective May 9, 2011, the service will be provided by MSA.

Key Customers:

- The U.S. Department of Energy Richland Operations Office (RL)
- The U.S. Department of Energy Office of River Protection (ORP)

General Scope and Outcome:

The contractor shall:

- Obtain PSRP from PNNL for all contractor and subcontractor employees performing activities involving Hanford Environmental Oversight, Meteorological and Climatological Services, Environmental Surveillance, Ecological Monitoring and Compliance, Cultural and Historic Resource Program, and Seismic Monitoring until the program is transitioned to MSA.
- Develop a PSRP Business Case Analysis for direct Mission Support Contract (MSC) performance of the PSRP workscope as described in the detailed scope and requirements in the supplemental information for preparation of the PSRP Business Case Analysis.
- Upon the U.S. Department of Energy (DOE) review of the PSRP Business Case Analysis, the contractor may be authorized for direct MSC performance of all or part of the PSRP workscope. If the contractor is authorized for direct MSC performance of all or part of the PSRP workscope, DOE will provide a list of government furnished services and information and a list of required deliverables.
- Prepare PSRP Implementation plan, pending RL direction, and implement said plan.
- Based on a review of the readiness to perform the functions associated with the PSRP program, MSA will assume responsibility for the PSRP program effective May 9, 2011.

Detailed Scope and Requirements:

For PSRP identified in the background, the contractor shall:

- Prepare and submit to RL a PSRP Business Case Analysis for the most effective means to provide PSRP based on this assessment. The PSRP Business Case Analysis shall address the following:
 - For each of the components of the PSRP, the contractor shall assess the current and future needs over the life-cycle of the Hanford cleanup mission considering the following criteria:

- Availability of necessary facilities, equipment, instrumentation, and services.
- Availability of necessary technical expertise and experience.
- Maintenance of any required certifications and accreditations.
- Include commercial best practices, a transition and implementation plan with life-cycle resource estimate that includes all costs, and an approach for responding to emerging PSRP needs for which there is no established technical capability.
- The decision to approve all or part of the PSRP Business Case Analysis and authorize direct MSC performance of the PSRP workscope shall be made at the unilateral discretion of the DOE Contracting Officer (CO). DOE may, at the unilateral discretion of the CO, determine to not approve all or part of the PSRP Business Case Analysis, and not authorize direct MSC performance of the PSRP workscope. The contractor shall not be entitled to an equitable adjustment to Contract Cost and Contract Fee as a result of DOE's decision to approve all or part of the PSRP Business Case Analysis.

Boundaries, Constraints, and Interfaces:

Boundaries and constraints: None.

Contractor interfaces include PNNL and other Hanford Site contractors in gathering information and data necessary to prepare the PSRP Business Case Analysis for direct MSC performance of PSRP workscope.

C.2.1.8.1 Hanford Environmental Oversight (HEO)

HEO provides program management, coordination and integration of PSRP functions. HEO also provides technical and administrative support to DOE associated with the PSRP program including Natural Resource Trustee activities.

Key Customers:

- RL
- ORP
- Plateau Remediation Contract (PRC)
- Tank Operations Contract (TOC)
- River Corridor Closure Contract (RCCC)

General Scope and Outcome:

The contractor shall provide for Far-field Environmental Surveillance, Meteorological and Climatological Services, Ecological Monitoring and Compliance and Cultural and Historic Resources Management.

The desired outcome of HEO is a program that produces integrated, compliant, and credible information which directly supports the demonstration of Hanford's effect on public safety and the environment, documented with monthly reports to the DOE Subject Matter Experts.

Detailed Scope and Requirements:

The contractor shall:

- Develop a plan to optimize the PSRP program through performance assessments, design reviews and value engineering. The plan shall include an analysis of the minimum functions and requirements necessary for a compliant program, the resources necessary to perform the functions and actions the contractor shall take to optimize the PSRP. An implementation schedule shall be included in the plan.
- Provide assistance to DOE in responding to public and media concerns regarding doses to the public and environment from Hanford contaminants, review and comment on draft regulations or guides, consultation on Hanford Site policies, and responses to external surveillance and audits.
- Provide stewardship of long-term historical environmental, ecological, climatological, and cultural resource databases. This includes the identification and development of data packages, models, and meta-data needed for timely and responsive action in support of cleanup activities, site environmental and ecological assessment activities, and ongoing and potential future litigation activities.
- Support natural resources damage assessment projects for the Hanford Site.
- Provide technical and administrative support to DOE to meet its Hanford Natural Resources Trustee obligations, including performing studies and assessments, attending meetings, coordinating scientific information, retrieving document(s), and providing meeting summaries, when requested.
- Assure that the PSRP elements operate in a manner that capture, preserve, and perpetuate the institutional knowledge obtained through 40+ years of environmental monitoring at the Hanford Site.
- Submit a plan to develop a data system, within one year of Mission Support Alliance, LLC assumption of PSRP responsibility, which will allow for the storage and user-friendly retrieval of current and past information from all activities within the PSRP, with primary emphasis on environmental surveillance data. This system shall have the appropriate security and management controls. In addition to DOE, users may include other Hanford Site contractors integrate the PSRP environmental monitoring with land use planning, human health and ecological assessments, long-term stewardship, and ongoing projects and programs, as appropriate.
- Provide updates of the Hanford Site National Environmental Policy Act (NEPA) Characterization Report not to exceed every three years.
- Provide and interpret technical environmental data for the public, as directed by DOE.

Boundaries, Constraints and Interfaces:

Boundaries and constraints:

- The contractor PSRP point of contact shall be the primary focus for information requests from DOE and other Hanford Site Contractors. Special requests requiring a commitment of additional resources shall be approved by DOE prior to fulfilling the request.
- The contractor may be requested to work with Natural Resource Trustee Council members and their organizational staff and contractors.

Contractor interfaces include contractor personnel and Natural Resource Trustee Council members for the purpose of providing and collecting environmental data.

C.2.1.8.2 Meteorological and Climatological Services

Background:

Accurate and timely meteorological and climatological information is required by DOE and Hanford Site Contractors for emergency response, work scheduling, and general site safety. The system is particularly needed in the event of a release of hazardous material to the environment (atmosphere) from a site facility. The Hanford Meteorological Monitoring System currently includes 30 monitoring stations on and adjacent to the Hanford Site, a Meteorological and Climatological Services computer network system, data display system, and interactive transport and diffusion computer model. In addition to routine weather reports, the system produces several specialized, mission, environmental, and safety-related reports.

Key Customers:

- RL
- ORP
- All Hanford Site Contractors

General Scope and Outcome:

The contractor shall maintain and operate the Hanford Meteorological Monitoring System and shall provide detailed around-the-clock, easily retrieved and understood, real time meteorological data for DOE and Hanford Site Contractors.

The desired outcome of the Meteorological and Climatological Services function is a reliable monitoring system producing sufficiently accurate and timely weather forecasts that enable safe conduct of routine activities and emergency response.

Detailed Scope and Requirements:

The contractor shall:

- Provide up to 24/7 operation of the meteorological monitoring system as recommended in the PSRP optimization plan described in Section C.2.1.8.1.
- Maintain the meteorological monitoring system, including appropriate quality assurance and quality controls.
- Support emergency response activities with up to date meteorological data and forecasts in the event of an accidental radiological or chemical release.
- Operate and maintain the Meteorological and Climatological Services computer network.
- Provide weather forecasts in support of routine and special site operations to include general weather, production, tank farm, telemetry, adverse weather, and special forecasts, as required.
- Detect adverse weather that may affect safety of site workers (strong winds, thunderstorms, extreme cold, and snow events) and provide timely communication of this information to site contractors and DOE.
- Monitor/report heat stress data and provide this information to site contractors in support of site cleanup activities.
- Provide heat stress information to requesting Hanford Site Contractors within 30 minutes of the request.
- Operate the Met Viewer data display system and Air Pollutant Graphical Environmental Modeling System interactive transport and diffusion computer model.
- Provide specialized meteorological information to site contractors in support of cleanup and operations (e.g., building demolition, reactor compartment transport, special construction projects, and tank vapors studies).
- Produce data for annual potential radiological exposure assessment.
- Produce data for interactive atmospheric models in support of emergency response activities.
- Assure that data are available for the annual estimation of potential public radiation exposure.
- Assure that the comprehensive climatological data records are maintained for use in a variety of other applications, such as post-accident analysis, dose reconstruction, building design, and environmental impact assessment.
- Maintain historical climatological data base to respond to special requests in support of site activities, such as:
 - Dose reconstruction projects;
 - Environmental assessments and environmental impact assessments;
 - Defense Nuclear Facilities Safety Board composite analysis;
 - Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) human health and ecological risk assessments;

- Natural resource damage assessment;
 - System assessment capability assessments;
 - Waste site cleanup air monitoring network design; and
 - Litigation.
- Provide Hanford Site climatological data for inclusion in the annual Hanford Site Environmental Report, as recommended in the PSRP optimization plan described in Section C.2.1.8.1.

Boundaries, Constraints and Interfaces:

Boundaries and constraints:

- Regional and national organizations outside the Hanford Site may request meteorological and climatological information or support from MSC. In this event, the contractor shall contact the DOE for guidance.

Contractor interfaces include the National Weather Service, as necessary, to share meteorological information and provide a complete forecast.

C.2.1.8.3 Environmental Surveillance

Background:

Environmental Surveillance is a service provided to DOE, which provides far-field multimedia environmental monitoring to measure the concentration of radionuclides and chemicals in environmental media and assess the integrated effects of these materials on the environment and the public. Samples collected by environmental surveillance are analyzed for very low environmental concentrations of radionuclides and chemicals, including metals, anions, and volatile organic compounds. This function focuses on routine releases from DOE facilities on the Hanford Site, but also responds to unplanned releases and releases from non-DOE operations on or near the site. The information produced by this activity is published in an annual public report, and is also integrated with the environmental cleanup mission assessment activities. This information may also be used by DOE in fulfilling its Natural Resource Trustee responsibilities.

Key Customers:

- RL
- ORP
- All Hanford Site Contractors

General Scope and Outcome:

The contractor shall provide a far-field environmental surveillance program that includes sample collection and analysis; containment assessments and exposure/impact analysis, and reporting.

The desired outcome of Environmental Surveillance is a service that provides environmental data that is credible, accurately characterized and documented, and provides assurance to the public that the dose and risk from Hanford contaminants is well understood.

Detailed Scope and Requirements:

The contractor shall:

- Conduct environmental surveillance and assess contaminant levels in the Hanford environs and nearby communities. The monitoring program shall include sampling of air, surface water, sediment, soil, native vegetation, agricultural products, fish, and wildlife.
- Notify RL within one working day of any anomalous result, as specified by DOE O 5400.5, Radiation Protection of the Public and the Environment. Levels for reporting to DOE have been established and are listed in the Records Management and Reporting subsection of the Environmental Monitoring Plan (DOE/RL-91-50, Revision 4).
- Perform cumulative assessments of onsite and offsite environmental impacts and offsite human health exposures from Hanford Site operations.
 - Characterize the pathways of exposure to members of the public.
 - Characterize the exposures and doses to individuals and to the nearby population.
 - Estimate contaminant dispersal patterns in the environment.
- Measure the ambient external radiation levels in the environment.
- Detect and characterize releases from Hanford Site activities.
- Assess impacts and risks of Hanford contaminants on human health and the environment for the Annual Environmental Report and in support of Hanford cleanup activities as requested. Data and analysis shall be made available for Hanford risk assessment activities.
- Review annually the environmental surveillance program design and implementation, sample collection, sample analysis, database management, data review and evaluation, exposure assessment, and reporting requirements.
- Accurately calculate the potential radiation dose to humans, aquatic organisms, terrestrial biota, hazard quotient for the evaluation of risk to biota, and the carcinogenic and noncarcinogenic risks to humans.
- Ensure that environmental surveillance data is made available for use in dose reconstruction efforts, site characterizations performed in conjunction with ongoing site environmental restoration activities, surveillance of biological impact, contaminant transport model verification, and support of groundwater/vadose zone integration initiatives.
- Align the program with current operations and missions (including near-field monitoring), focused on those contaminants having the greatest contribution to the potential offsite dose, as recommended in the PSRP optimization plan described in Section C.2.1.8.1.
- Conduct environmental monitoring programs, including near-field monitoring, in an integrated fashion to preclude collection of duplicative environmental data, as recommended in the PSRP optimization plan described in Section C.2.1.8.1.

- Ensure analytical capabilities include the measurement of radionuclides at very low environmental concentrations, as well as an extensive list of non-radiological chemicals.
- Evaluate potential impacts to the biota in vicinity of DOE activities.
- Ensure early identification of, and support response to, potential adverse environmental impacts associated with DOE operations (such an impact may be the uncontrolled release of radioactive material by air dispersion).
- Prepare the annual Hanford Site Environmental Report that documents Hanford Site environmental compliance status, environmental conditions on and around the Hanford Site, and the potential offsite public radiological exposure resulting from Hanford operations.
- Prepare and coordinate the Hanford Site Environmental Surveillance Master Sampling Schedule.
- Ensure PSRP-related methods of sample collection, analysis, interpretation, and reporting are consistent across the Hanford Site as appropriate to assure usability, consistency and comparability of the data with other DOE Hanford projects and Hanford Site contractors.
- Determine if sampling locations and analytics could contain proprietary or sensitive information and work closely with DOE to determine appropriate controls for the information.
- Align the surface environmental surveillance with the needs of the environmental cleanup, restoration, and assessment activities at the Hanford Site since the information generated by the program is extensively used by site contractors.

Boundaries, Constraints and Interfaces:

Boundaries and constraints: None

Contractor interfaces include regulators, stakeholders, State of Washington Department of Health and the Tribal Nations to share and interpret environmental surveillance data.

C.2.1.8.4 Ecological Monitoring and Compliance

Background:

The scope of the Ecological Monitoring and Compliance function is defined by the DOE need to achieve compliance with ecological resource-related legal and regulatory requirements. Biota is monitored to assess the abundance, vigor or condition, and distribution on the Hanford Site. The associated data is used by DOE and Hanford Site Contractors to support environmental cleanup and restoration activities, mitigation actions, and land use planning, and to maintain compliance with ecological resource laws. State and Federally listed species are specifically monitored to assure that DOE operations are not adversely impacting those species.

Key Customers:

- RL

- ORP
- Hanford Site Contractors

General Scope and Outcome:

The contractor shall conduct and document ecological monitoring and compliance reviews for all Hanford Site related actions that have the potential for impacting the biological environment.

The desired outcome of the Ecological Monitoring and Compliance function is the identification and documentation of actual and potential impacts of Hanford operations on biota. Additionally, state and federally listed species are protected, and that the Hanford Site promoted long-term stewardship of its natural resources.

Detailed Scope and Requirements:

The contractor shall:

- Assess impacts to biological resources from Hanford Site operations and legacy contaminants in the environment. Monitor the abundance, vigor, and distribution of plant and animal populations on the Hanford Site and evaluate the cumulative impacts of site operations on these resources. If analysis indicates that impacts to biological resources may have occurred due to Hanford operations, which have not been previously reported, provide DOE a written summary of those impacts within five working days.
- Conduct ecological compliance reviews for Hanford related operations and cleanup activities, and identify and quantify ecological impacts for Hanford projects to the extent practicable in compliance with Federal and applicable state wildlife protection laws and regulations.
- Characterize and define changes or trends in the condition of Hanford biological resources that may result from causes external to the Hanford Site.
- Define and map significant habitats and species distribution for use in land use planning, ecological risk assessment, and mitigation action planning.
- Perform baseline surveys and monitor compliance with applicable requirements during the appropriate times of the year to document any changes to protected biological resources, species, and habitats within key areas of the Hanford Site where the majority of routine operations and cleanup are conducted.
- Develop sample and characterization methods and apply these methods to determine individual organism health in species with high potentials for exposure and uptake of contaminants in coordination with contaminate monitoring activities conducted through the Surface Environmental Surveillance function, as recommended in the PSRP optimization plan described in Section C.2.1.8.1.
- Maintain a database on the regulatory status and distribution of species and habitats of concern on the Hanford Site. The database will include information necessary for tracking reviews, as well as the field data necessary to evaluate impacts and compliance needs.

- Manage the Ecological Resources Working Group meetings by coordinating schedules and agendas, and taking meeting minutes.
- Assist the Hanford fire and emergency response activities by providing information on sensitive species and habitat.
- Monitor and document the status of Federal and state sensitive species found or potentially found on the Hanford Site including the Hanford Reach National Monument for potential listing.
- Notify DOE within five working days and provide in writing within 10 working days recommendations on actions DOE should take to be in compliance with the *Endangered Species Act*, for potential listing if a species is found or potentially found on the Hanford Site.
- The contractor shall focus efforts on those lands where DOE projects are being conducted, i.e., 200 Areas, 100 Area, 300 Area, 400 Area and 600 Area. Work will be conducted on the buffer lands as necessary which are currently managed by the U.S. Fish and Wildlife Service (USFWS).
- Support efforts to determine if injuries have occurred to Hanford natural resources including threatened and endangered species or populations on the Hanford Site and the Columbia River. Injuries are defined by the CERCLA Natural Resource Damage Regulations and Guidance.

Boundaries, Constraints and Interfaces:

Boundaries and constraints: None

Contractor interfaces include the USFWS, The Nature Conservancy, Washington State Natural Heritage Project and universities to share ecological information associated with the Hanford Site when appropriate or beneficial to the PSRP program and the DOE mission.

C.2.1.8.5 Cultural and Historic Resource Program

Background:

The Cultural and Historic Resource Program directly, and in conjunction with other Hanford Site contractors, assures compliance with associated laws, DOE directives, and legally-binding agreements. The Hanford Site currently has numerous archeological sites, historical/potentially historical sites, traditional cultural properties and associated collections and artifacts.

Key Customers:

- RL
- ORP
- Hanford Site Contractors

General Scope and Outcome:

The contractor shall coordinate, integrate and maintain the Cultural and Historic Resource Program. The contractor shall protect Hanford Site cultural and historic resources, document potential impacts and address any real or potential impacts. The contractor shall coordinate associated reviews of all Federal undertakings conducted on the Hanford Site, monitor site conditions to protect important cultural resources, and maintain records and archaeological and historical collections.

The desired outcome of the Cultural and Historic Resource Program is that cultural and historical sites on the Hanford Site are preserved and protected in accordance with applicable laws and regulations.

Detailed Scope and Requirements:

The contractor shall:

- Conduct National Historic Preservation Act (NHPA) Section 106 Reviews for the Hanford Site Contractors.
- Meet professional standards under regulations developed by the Secretary of Interior Standards and Guidelines (36 CFR Part 61).
- Develop, implement and maintain procedures to comply with the requirements of NHPA, AIRFA, Archaeological Resources Protection Act (ARPA) and NAGPRA and other applicable cultural resources, laws, regulations, and DOE directives.
- Develop criteria and guidance for determining when NHPA Section 106 reviews are necessary.
- Comply with NHPA Section 106 memorandum of agreements, programmatic agreements, and cultural management plans.
- Establish and maintain a long-term monitoring program at National Register and National Register-Eligible sites; archaeological sites with human remains (Locke Island, F Island, dunes area); cemeteries; high risk archaeological areas.
- Process and analyze artifacts collected as a result of field work and surveys.
- In accordance with the applicable requirements (i.e., 36 CFR 79), manage and maintain a repository of files and artifacts that are collected as a result of archaeological field work and surveys.
- Monitor and support the historic and cultural resource protection activities of Hanford Site Contractors; coordinate surveys performed to document the occurrence of protected resources; evaluate and document impacts to protected resources, as required by the *National Historic Preservation Act*, *American Indian Religious Freedom Act*, the *Archaeological Resources Protection Act*, *Native American Graves Protection and Repatriation Act*, and Executive Order 13007, *Indian Sacred Sites*, by implementing procedures described in the Cultural and Historic Resource Program.

- Minimize impacts to National Register Eligible sites, archaeological sites with human remains (Locke Island, F Island, dunes area), cemeteries, and high risk archaeological areas by Hanford Site activities.
- Assist the Hanford fire and emergency response activities by providing information on sensitive cultural areas. If cultural sites/areas have been impacted by fire activities (e.g., disking, bull dozing), the contractor shall work with DOE to assess any damage and take mitigation measures.
- Maintain the Cultural and Historic Resource Program reference library and database.
- Maintain and manage Hanford Site cultural and historic resource site files (hard copy and electronic) and associated compliance project files for all such work that occurs at the Hanford Site.
- Propose an approach for archiving and managing past, present and future cultural and historical resources files which is user-friendly, provides for quick retrievability, is safe and secure, and is cost efficient.
- Establish records management procedures and coordinate with other Hanford Site Contractors to obtain essential documents to be included in Hanford Site cultural and historic program files.
- Maintain the Cultural and Historic Resource Program webpage.
- Transition and administer the subcontract with the Wanapum for oral history knowledge of the Hanford Site.
- Make cultural and historic resource documentation available to support NEPA determinations of the potential impacts of planned Hanford Site activities prior to initiating operations.
- Coordinate fieldwork and surveys with other Hanford Site contractors, Tribal Nations cultural representatives, and as needed, stakeholders and interested parties.
- Support cultural issues meetings.
- At CO direction, maintain and operate visitor center(s) and/or historic sites.

Boundaries, Constraints and Interfaces:

Boundaries and constraints: None

Contractor interfaces include the Tribal Nations, State Historic Preservation Office, Advisory Council on Historic Preservation, USFWS; HQ Federal Preservation Office, and other government agencies to ensure that cultural and historic resources are protected in accordance with applicable laws and regulations.

The MSC does not perform Section 106 Reviews for the RCCC projects. However, the RCCC may utilize the MSC records and files for background and literature research/review. Upon completion of a project, the RCCC will provide to the MSC, complete files which will be

included in the MSC files. In addition, artifacts, if collected, will be transferred to the MSC for inclusion in the Hanford Site collections.

C.2.1.8.6 Seismic Monitoring

Background:

Seismic Monitoring ensures compliance with CRD O 420.1B, *Facility Safety* and DOE Guide 420.1-1, Section 4.7, *Emergency Preparedness and Emergency Communications*. CRD O 420.1B establishes facility safety requirements related to nuclear safety design, criticality safety, fire protection, and natural phenomena hazards mitigation. For earthquake monitoring, the Order requires that *facilities or sites with hazardous materials shall have instrumentation or other means to detect and record the occurrence and severity of seismic events*.

The seismic network on the Hanford Site consists of two designs of equipment and 41 sites (seismometer sites and strong motion accelerometer sites). Seismometer sites are designed to locate earthquakes and determine the magnitude and hypocenter location. Strong motion accelerometer sites are designed to measure ground motion.

Key Customers:

- RL
- ORP
- All Hanford Site Contractors

General Scope and Outcome:

The contractor shall provide a Hanford Site Seismic Monitoring function consisting of an uninterrupted collection of high-quality raw and processed seismic data from the Hanford Seismic Network for DOE and Hanford Site Contractors. This function shall have the capability to locate and identify sources of seismic activity and monitor changes in the historical pattern of seismic activity at the Hanford Site. The contractor shall compile, archive and publish the data for use by Hanford Site contractors involved in waste management, natural phenomena hazards assessments, and engineering design and construction.

The desired outcome of the Hanford Site Seismic Monitoring is a service that provides an uninterrupted collection of high-quality raw seismic data from the Hanford Seismic Network located on and around the Hanford Site, and the Eastern Washington Regional Network.

Detailed Scope and Requirements:

The contractor shall:

- Issue quarterly reports of local activity, an annual catalog of earthquake activity on and near the Hanford Site, and special-interest bulletins on local seismic events. The annual catalog shall include the fourth quarter report for the fiscal year. The quarterly reports shall cover

seismic activity on and near the Hanford Site and include earthquake activity that occurred during the preceding quarter and the geologic interpretation of the sources of the earthquakes.

- Provide interpretations of seismic events from the Hanford Site and vicinity. Locate and identify sources of seismic activity, monitor changes in the historical pattern of seismic activity at the Hanford Site, and build a "local" earthquake database (processed data) that is permanently archived.
- Maintain an archive of all seismic data from the Hanford Seismic Network and records for the seismic sensor and relay sites and make readily accessible to all Hanford Site Contractors.
- Provide assistance to the Hanford Site Emergency Operations function and Hanford Site facilities in the event of a significant earthquake on the Hanford Site.
- Operate and maintain the seismic network (sites and equipment).

Boundaries, Constraints, and Interfaces:

Boundaries and constraints: None

Contractor interfaces include the University of Washington Geophysics Program and U.S. Geological Survey for the purposes of sharing data and information. An existing contract is in place with the University of Washington to maintain land agreements for seismic network sites, provide data analysis, update software and provide seismologist support.

C.2.1.8.7 Curation Services

Background:

The "Hanford Collection" is the term for articles collected under the historic preservation laws and regulations which have been recovered in connection with the Federal Government's activities at the Hanford Site, located near Richland, Washington.

Key Customers:

- RL
- ORP
- All Hanford Site Contractors

General Scope and Outcome:

The contractor shall provide curation services for the Hanford Collection. The desired outcome of curation services is evaluation, collection, tracking, cleaning, storing, inventory, preservation, security and display of all current and newly acquired Hanford Collection artifacts related to the Hanford sites' Manhattan Project and Cold War Era in accordance with applicable laws and regulations.

Detailed Scope and Requirements:

The contractor shall perform curation tasks consistent with 36 CFR 79 regulations including the following:

1. Evaluate previously unprocessed artifacts and physically review new items for possible inclusion in the collection in accordance with criteria established in the DOE report DOE-RL-97-71.
 - Perform walkthrough survey assessments of Hanford as requested by the CO's Representative (COR) (approximately one day every other month) to assist in the identification and physical removal of items to add to the collection.
 - Document the process and results of walkthrough survey assessments of Hanford buildings and provide a synopsis of the event to the COR.
 - Maintain a map or detailed description identifying the location of items tagged during the walkthrough process.
 - Digitally photograph larger items as a method of preservation (approximately 30 items photographed per year) and maintain a digital archive of the photograph collection consistent with the above mentioned DOE report. The digital collection must be available to the COR online or by a transferable electronic media source such as a CD.
 - Assist DOE in the identification of original source documents by segregating and preparing suspected documents for shipment to DOE facilities.
2. Provide a 36 CFR 79 compliant collection service and a storage facility. Issue a letter to each of the other primary site contractors informing them of MSC's provision of an artifact pick-up service for items.
3. Track collection information by labeling, photographing, and adding a detailed description to the museum collection management system.
 - Label, photograph, and catalog all unprocessed physical items in the collection by the end of Fiscal Year 2011. Apply durable/removable labels and a bar code hangtag to connect the items to the database records. Maintain a digital archive of the physical item collection.
 - Process new items into the collection as requested by the COR (approximately 10 new additions per month).
 - Maintain a complete and detailed catalog and description of the collection.
 - Process archival collection by appraising, arranging, boxing and creating a relational database (index).
 - Label, catalog and assign subject categories to all unprocessed photographs in the collection (approximately 100 photographs per year).

4. Clean and stabilize objects in the Hanford Site collections using preventative conservation techniques. Some objects need extra attention to prevent further deterioration or to prevent deterioration of adjacent objects.
 - Clean & stabilize various objects as required.
 - Provide for minor repair capabilities to artifacts to assist in the stabilization process.
5. Store the Hanford Site collections using appropriate methods and containers in a climate-controlled, secure building as required in 36 CFR 79.9(3) and in DOE-RL-97-71, section 5.2 Artifact Protection or in another facility as provided by DOE. The display building must also comply with local city and state ordinances for a public access building. The collection is currently estimated at approximately 4,000 items covering 12,000 square feet of storage space.
 - The contractor will be responsible for providing 2,000 square feet display space for the collection and display. The contractor will work with the COR to use storage space at various sites across Hanford to provide the remaining 10,000 of storage space. Existing government storage will remain on a space available basis.
 - Process new additions to the collection (approximately 10 per month).
 - Provide storage for objects using containers and materials that are consistent with archival standards. Small items are often placed in plastic bags and odd-shaped items sometimes may need custom-fitted foam supports. Documents and records are placed in document boxes.
 - Maintain environmental conditions within the limitations of the government facility HVAC system. This shall include monitoring data logger recordings of temperature and humidity and performing integrated pest management tasks.
 - The contractor will be responsible for providing all required materials and supplies used to meet the curation standards.
6. Inventory the Hanford Site collection according to the inventory methods specified in the National Parks Service Museum Handbook, Part II, Chapter 4, Inventory which can be found online at: <http://www.nps.gov/history/museum/publications/MHII/mh2ch4.pdf>
7. Safeguard the part of the collection on display and stored at the contractor's facility.
 - Protect the collection against loss or damage from theft, vandalism, fire or detrimental environmental conditions.
 - Provide an electronic security service and oversee its testing and maintenance.
 - Provide a fire suppression system and oversee its testing and maintenance.
 - Maintain a security plan approved by the COR.

8. Provide access to the Hanford Site collections for the general public and students, through exhibits in the contractor's facility and as an information resource. The curator shall act as DOE's Docent and provide access for researchers and institutions through archives, photo archives, and collection loans.
 - The "Hanford Collection" will be available for study, analysis, loan or exhibition and available for public viewing no less than four hours per day for 250 days per year.
 - The display location will be within Richland, Washington, and have a minimum display area of 2,000 square feet which is provided and maintained by the contractor.
 - Handle information, research and photo archive requests.
 - Provide general museum support to accommodate public access requirements.
 - Work with researchers and exhibit designers/builders to develop new exhibits for the collection and perform exhibit maintenance as requested by DOE. This is a separately priced line item and the contractor will provide DOE with price estimates for these services as required.
 - Arrange for outgoing artifact loans (for exhibit and research) and incoming artifact loans (for exhibit) as requested by DOE. Tasks include object retrieval, writing condition reports, photographing, packing and unpacking. "Satellite" exhibits may be requested by the Federal Agency official to be displayed at Richland Federal Building, the Consolidated Information Center (CIC) or other sites. The amount of time to complete such exhibit requests will vary depending on the request.
9. Program Administration includes attending required meetings, preparing reports, printing, copying, equipment repair and replacement, and direct property expenses.
 - Report preparation, meeting attendance and other duties requested by the COR.
 - Postage and shipping.
 - Equipment repair and replacement.
 - Miscellaneous printing and copying of papers and photographs.
 - Miscellaneous direct property expenses.
 - The contractor also agrees to abide by the software licensing agreements in effect on all loaned software, and agrees to return such software upon any declaration of excess and permanent turnover of the loaned personal property, as requested by the CO.
10. Staff Training and Development – The contractor shall provide all training required to keep its staff current with Hanford Site requirements and with museum standards.
11. Inventory – The contractor shall maintain a catalogued inventory of all items contained in the "Hanford Collection" and other government owned property in possession of the contractor. These reports shall be available electronically to the COR by March 31 annually.
12. Quarterly Reports – The contractor will submit reports to the COR and CO on a quarterly basis detailing: Inventory results, the physical status of the storage structures, additions or

removal of items from the collection, ongoing or anticipated loans and future work anticipated.

13. The preservation and access to the “Hanford Collection” shall be in accordance with the laws, regulations, directives and documents listed in Section J in addition to the documents listed below:

- DOE report (DOE-97-71) Hanford Curation Strategy: Manhattan Project and Cold War Era Artifacts and Records, Document Number: DOE/RL-97-71 (Rev 0). Available online at: <http://www.hanford.gov/doe/history/docs/rl-97-71/>
- The Secretary of the Interior’s Standards and Guidelines for Federal Agency Historic Preservation Programs Pursuant to the National Historic Preservation Act, 1998, found online at: <http://fpi.historicpreservation.gov/%7Bdyn.file%7D/c6c6433f882740c986b22415b546c6db/Secretary%20of%20the%20Interior's%20Standards%20and%20Guidelines%20for%20Federal%20Agency%20Historic%20Preservation%20Programs.pdf>
- 32 CFR Part 229 – Archeological Resource Protection Act (ARPA) Regulations
- 36 CFR 60 – National Register of Historic Places
- 36 CFR Part 61 – Archeology and Historic Preservation: Secretary of the Interior’s Guidelines
- 36 CFR 63 – Determinations of Eligibility for Inclusion in the National Historic Register
- 36 CFR – National Historic Landmarks Program
- 36 CFR Part 79 – Curation of Federally–Owned and Administered Archeological Collections. Available online at http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&tpl=/ecfrbrowse/Title36/36cfr79_main_02.tpl
- 36 CFR 805 – Procedures for Implementation of the National Environmental Policy Act
- 36 CFR 800 – Protection of Historic and Cultural Properties
- 36 CFR 810 – Freedom of Information Act Regulations
- 36 CFR 1220 – Disposition of Federal Records
- 41 CFR 101 – Public Contracts and Property Management
- 43 CFR 7 – Protection of Archeological Properties
- 43 CFR 10 – Native American Graves Protection and Repatriation Act: Final Rule
- 43 CFR 3 – Preservation of American Antiquities
- CRD M 470.4-4, Chg 1 – Information Security
- CRD M 471.3-1 – Manual for Identifying and Protecting Official Use Only Information
- CRD O 471.3 – Identifying and Protecting Official Use Only Information
- CRD O 471.1A – Identification and Protection of Unclassified Controlled Nuclear Information
- 18 U.S. Code Title 2071 – Concealment, Removal, or Mutilation

- All applicable Washington State historic preservation laws
<http://www.dahp.wa.gov/pages/EnvironmentalReview/Laws.htm>

14. Special Property Requirements

- Overview of the Property - The Hanford Collection will be considered “on loan” to the contractor. The contractor recognizes the Federal Government’s continued ownership and control over the Hanford Collection and the Federal Government’s responsibility to ensure that the Hanford Collection is suitably managed and preserved for the public good. The government reserves the right to approve all additions to the collection as well as removing any and all items from the collection at the discretion of the COR or the DOE CO.
- Inclusion of New Items and Special Requirements for the Current Collection–
 - Contractor curatorial duties include evaluation of items chosen for the Hanford Collection. Items recommended for inclusion in the collection are cataloged and photographed. Listing of items cataloged is provided to the CO annually (by March 31 for the previous calendar year). Depending on the number of items to report, listings are provided more frequently.
 - The contractor shall put in place a system or standard operating procedure by which all possible additions to the collection (either from DOE, their contractors, or a private party) are reviewed by the COR to ensure they are appropriate and lawfully obtained. The contractor will notify the COR within 15 days of any new items that are donated to the collection by DOE employees, DOE contractors or private parties to request approval to add the item to the collection.
 - If a third party donates/loans the contractor unlawfully obtained Federal Government property or artifacts they will immediately notify the COR requesting a review for disposition and possible transfer back to DOE.
 - “Alienation” is defined as the unlawful removal of federal records from federal custody. If the contractor finds “alienated” documents already in the collection or donated/loaned to the contractor by a third party they will immediately notify the COR requesting a review for disposition and possible transfer back to the DOE.
 - The contractor may only possess “unclassified” or “declassified” documents that have been released for public viewing and is required to immediately notify the COR if they encounter for Official Use Only or “Sensitive” documents as well as documents that have not been otherwise approved for public release. DOE reserves the right to have immediate access to and to repossess all documents and photographs that are “Sensitive” or suspected to be “Sensitive” regardless of where they were obtained.
- Excess Property - Both Government–owned property not included in the Hanford Collection and all or parts of the Hanford Collection may at some time be considered “excess”. The contractor may make recommendations concerning, excessing, or excluding or removing property. A determination will be made by the Contracting Officer through the DOE excess property program. Until a declaration of excess is processed, the contractor agrees to maintain the Hanford Collection in accordance with 36 CFR 79.9, 79.10 and 79.11 and to maintain other U.S. Government property as

appropriate. Items may be recommended for exclusion or removal from the Hanford Collection on the basis of the following factors:

- Duplicate item may already be in the collection.
 - Item in better condition or with a history more related to the Hanford Site may have been received.
 - Item may have deteriorated to the point where it has lost its integrity.
 - Item may be hazardous to humans or to other items in the collection.
 - Item may be a fake or not as originally represented.
 - Item may be too large to care for.
- If the item does not fit the collection guidelines established in *Hanford Curation Strategy: Manhattan Project and Cold War Era Artifacts and Records*, DOE-RL-97-71, revision 0, December 1997, Page 5.2 “Selection Criteria” (also page D.6 “Attachment 1 – Screening Criteria for Manhattan Project and Cold War Era Hanford Artifacts”) then the contractor must obtain the CO or COR’s approval to maintain the item in the DOE collection.
 - Regulations - The contractor shall provide for the professional care and management of the Hanford Collection in accordance with 36 CFR 79.9, 79.10, and 79.11 and all of the regulations listed in Section J. Any use that would alter, damage, or destroy any object in the Hanford Collection shall not be allowed except as in accordance with 36 CFR 79.10. The contractor shall be responsible, if negligent, for the costs for repair, restoration, and possible replacement, or compensation to the government.
 - Loans - The COR may, from time to time, request access or loan of Hanford Collection items, giving the contractor a minimum notice of 10 days for loan actions, subject to completion of the appropriate loan documents. The contractor agrees to grant the government’s requests for access or loan of Hanford Collection materials, unless access or loan creates significant hardship to the contractor. Costs associated with the loan or outside use of government-owned property, such as transportation, packing, unpacking, etc., will be paid by the government. The contractor shall review and approve or deny requests for access to or short-term loan of the Hanford Collection (or a part thereof) for scientific, educational or religious uses in accordance with 36 CFR 79.10. The contractor shall maintain administrative records that document approved scientific, educational, and religious uses of the Hanford Collection. The Contractor’s Repository Official shall provide the contractor’s loan policy and associated loan agreements to the COR for approval.
 - Contractor Responsibility for the Collection - The contractor shall not mortgage, pledge, assign, repatriate, transfer, exchange, give, sublet, discard or part with possession of any of the Hanford Collection in any manner to any third party either directly or indirectly without the prior written permission of the CO. In addition, the contractor shall not take any action whereby any of the Hanford Collection shall or may be encumbered, seized, taken in execution, sold, attached, lost, stolen, destroyed or damaged.

Boundaries, Constraints, and Interfaces:

Boundaries and constraints: None

Contractor interfaces include the Tribal Nations, State Historic Preservation Office, Advisory Council on Historic Preservation, USFWS; HQ Federal Preservation Office, and other government agencies to ensure that cultural and historic resources are protected in accordance with applicable laws and regulations.

ATTACHMENT J.3
HANFORD SITE SERVICES AND INTERFACE REQUIREMENTS MATRIX
Changes

Services listed in the *Hanford Site Services and Interface Requirements Matrix* (Matrix) shall be performed in accordance with the Section H Clause entitled, *Hanford Site Services and Interface Requirements Matrix*.

Legend for Matrix – The Legend for the primary Matrix users/providers is as follows:

MSC	Mission Support Contract
PRC	Plateau Remediation Contract
TOC	Tank Operations Contract
WTP	Waste Treatment and Immobilization Plant Contract
RCCC	River Corridor Closure Contract
Other Site Users	Examples include: AdvanceMed Hanford (AMH), Analytical Services Production Contractor (ASPC), Del Sol, Johnson Controls, Pacific Northwest National Laboratory (PNNL) [activities located on the Hanford Site], Metal Benders, Tri-City & Olympia Rail, Unitech Services Group, Westech, DOE, etc.
Hanford Site Contractors	General term used to collectively refer to all the above users/providers.

Types of Interfaces –

1. Information (I): knowledge (data, facts, etc) gathered or supplied
2. Physical (P): systems in tangible contact (i.e., 'pipe-to-pipe'), or a physical exchange of product or materials
3. Service (S): provision of work for another contractor

Interface Number	Type of Interface	Activity (Service - Mandatory)	MSC (Service Provider)	PNNL	PRC	TOC	WTP	RCCC	Other Site Users	Requirements	Cost Allocations
26	S	Seismic Monitoring Services	Provide service to Site contractors	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	CRD O 420.1, <i>Facility Safety</i> DOE Guide 420.1-1, <i>Section 4.7</i> , <i>“Emergency Preparedness and Emergency Communications</i>	Funding provided by DOE –EM to MSC; provided at no cost to Hanford Site contractors
<p>Seismic Monitoring Services are required to operate the Hanford Site seismic network and provide report activities as needed. This information is utilized for operational facilities, to support new facility design and for emergency operations activities.</p> <ul style="list-style-type: none"> MSC shall maintain seismic sensors and systems, monitor seismic activity and report seismic activities on the Hanford Site. MSC shall provide seismic information to Hanford Site contractors upon request. Hanford Site contractors shall request and provide requirements for services when necessary. 											
Interface Number	Type of Interface	Activity (Interface)	MSC (Service Provider)	PNNL	PRC	TOC	WTP	RCCC	Other Site Users	Requirements	Cost Allocations
27	I	Hanford Environmental Oversight (HEO)	Provide service to Site contractors	Deliver input to MSC	DOE O 5400.5, <i>Radiation Protection of the Public and the Environment</i> CRD O 450.1A, <i>General Environmental Protection</i>	Funding provided by DOE –EM to MSC for program administration; Hanford Site contractors bear internal implementation costs					
<p>HEO provides program management, coordination and integration of Public Safety and Resource Protection (PSRP) functions. HEO also provides technical and administrative support to DOE associated with the PSRP program including Natural Resource Trustee activities.</p> <ul style="list-style-type: none"> MSC shall provide annual updates of the <i>Hanford Site National Environmental Policy Act (NEPA) Characterization Report</i>. Hanford Site contractors shall provide to MSC appropriate environmental data for its facility and operable units to support Hanford Site assessments and preparation of the <i>Hanford Site NEPA Characterization Report</i>. 											

Interface Number	Type of Interface	Activity (Service - Mandatory)	MSC (Service Provider)	PNNL	PRC	TOC	WTP	RCCC	Other Site Users	Requirements	Cost Allocations
28	I/S	Meteorological and Climatological Services	Provide service to Site contractors	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC		Funding provided by DOE –EM to MSC for the cost of services, except for special-use information requested by Site contractors
<p>The Hanford Meteorological Monitoring System includes 30 monitoring stations on the Hanford Site and provides accurate and timely weather information that enable safe conduct of activities and emergency response.</p> <ul style="list-style-type: none"> • MSC shall provide all standard, weather-related information for Hanford Site contractors, providing detailed around-the-clock, easily retrieved and understood, real time meteorological data. This includes forecasts, heat indices, historical information, etc. • MSC shall maintain and operate the Hanford Meteorological Monitoring system. MSC may be requested to provide special-use information by Site contractors. • Hanford Site contractors shall request and provide requirements for service. 											

Interface Number	Type of Interface	Activity (Interface)	MSC (Service Provider)	PNNL	PRC	TOC	WTP	RCCC	Other Site Users	Requirements	Cost Allocations
29	I	Environmental Surveillance	Receive input from and provide information to Site contractors	Receive information from and provide input to MSC	Receive information from and provide input to MSC	Receive information from and provide input to MSC	Receive information from and provide input to MSC	Receive information from and provide input to MSC	Receive information from and provide input to MSC as applicable	DOE O 5400.5 CRD O 450.1A <i>Clean Water Act</i> <i>Clean Air Act</i>	Funding provided by DOE –EM to MSC for program administration; Hanford Site contractors bear internal implementation and request for services costs.
			<p>Environmental Surveillance consists of far-field multimedia environmental monitoring to measure the concentration of radionuclides and chemicals in environmental media and assess the integrated effects of these materials on the environment and the public.</p> <ul style="list-style-type: none"> MSC shall assess impacts and risks of contaminants on human health in order to prepare the annual <i>Hanford Site Environmental Report</i> and the <i>Hanford Site Environmental Surveillance Master Sampling Schedule</i>; and align the surface environmental surveillance with the needs of the environmental clean-up, restoration, and assessment activities at the Hanford Site. MSC shall assess impacts and risks of Hanford contaminants on human health and the environment in support of Hanford cleanup activities as requested. Data and analysis shall be made available to the Hanford risk assessment activities. Hanford Site contractors shall provide appropriate input to support MSC preparation of the annual <i>Hanford Site Environmental Report</i> and <i>Hanford Site Environmental Surveillance Master Sampling Schedule</i> 								

Interface Number	Type of Interface	Activity (Interface & Service - Mandatory)	MSC (Service Provider)	PNNL	PRC	TOC	WTP	RCCC	Other Site Users	Requirements	Cost Allocations
30	I/S	Ecological Monitoring and Compliance – Site Wide	Provide service to Site contractors	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC as applicable	<i>Endangered Species Act</i> <i>Migratory Bird Treaty Act</i> Hanford Site Resource Management Plan	Funding provided by DOE –EM to MSC for program administration; Hanford Site contractors bear internal implementation costs
<p>Ecological Monitoring and Compliance is to achieve compliance with ecological resource-related legal and regulatory requirements; Biota is monitored to assess the abundance, vigor, or condition, and distribution on the Hanford Site.</p> <p>MSC shall:</p> <ul style="list-style-type: none"> Assess the impacts to biological resources from Hanford Site operations and legacy contaminants to the environment and monitor the abundance, vigor, and distribution of plant and animal populations on the Hanford Site. This includes baseline surveys of protected biological resources, species, and habitats within key areas of the Hanford Site where the majority of routine operations and clean-up are conducted. Conduct ecological compliance reviews for Hanford Site contractors. <p>Hanford Site contractors shall:</p> <ul style="list-style-type: none"> Allow access to the Ecological Monitoring and Compliance activity for the purpose of collecting information and samples. Provide ecological information to the MSC from their sampling activities such as CERCLA/RCRA risk assessments 											

Interface Number	Type of Interface	Activity (Service - Mandatory)	MSC (Service Provider)	PNNL	PRC	TOC	WTP	RCCC	Other Site Users	Requirements	Cost Allocations
31	I/S	Cultural and Historic Resource Program	Provide service to Site contractors	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Receive service from and provide input to MSC	Provide input to MSC	Receive service from and provide input to MSC as applicable	<i>National Historic Preservation Act (NHPA), American Indian Religious Freedom Act Archaeological Resources Protection Act Native American Graves Protection and Repatriation Act</i>	Funding provided by DOE –EM to MSC for program administration; Hanford Site contractors bear internal implementation and request-for-services costs
<p>The Cultural and Historic Resource Program administers the program for protecting Hanford Site cultural and historic resources, and documents and addresses any real or potential Site-wide issues and their impacts; and assures compliance with associated laws, DOE directives, and legally-binding agreements.</p> <ul style="list-style-type: none"> MSC shall monitor and support the resource protection activities of Hanford Site contractors; coordinate surveys performed to document the occurrence of protected resources; evaluate and document impacts to protected resources; perform NHPA Section 106 Reviews for Hanford Site contractors; maintain, establish procedures for and manage Hanford Site cultural and historic resource site files (hard copy and electronic) and associated compliance project files for all such work that occurs at the Hanford Site; and curate files and artifacts in accordance with 36 CFR 79. Hanford Site contractors shall provide information to the MSC necessary to perform NHPA Section 106 Reviews for their scope of work, and provide to MSC information and materials to support MSC execution of the <i>Comprehensive Land Use Plan's (CLUP) Cultural & Historic Resource Program Plan</i>. In particular, mission contractors (who meet 36 CFR 61 standards and guidelines) shall utilize the MSC project records and files for background research. 											

