

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 198	3. EFFECTIVE DATE 12/21/2011	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue Idaho Falls ID 83415	CODE 00701	7. ADMINISTERED BY (If other than Item 6) Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue MS 1221 Idaho Falls ID 83415	CODE 00701
8. NAME AND ADDRESS OF CONTRACTOR (No, street, county, State and ZIP Code) CH2M WG IDAHO LLC Attn: Michael D. Ebben 151 NORTH RIDGE AVENUE SUITE 150 IDAHO FALLS ID 834024039		(X) 9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)
CODE 166527569	FACILITY CODE	X 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC07-05ID14516	10B. DATED (SEE ITEM 13) 03/23/2005

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)

See Schedule

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

CHECK ONE	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.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, 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:
X	D. OTHER (Specify type of modification and authority) Clause I.81 52.243-2 Changes - Cost Reimbursement (AUG 1987) & Alt I (APR 1984)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ 1 _____ copies to the issuing office.

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

Tax ID Number: 05-0607601

DUNS Number: 166527569

This modification incorporates administrative changes. Refer to the Continuation Pages incorporated as part of this modification.

Period of Performance: 03/23/2005 to 09/30/2012

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) Michael B. Brown, Sr Vice President & CFO	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Maria M. Mitchell
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 12-21-2011
16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 12/21/2011

This modification incorporates administrative changes as follows:

1. **SECTION C.2.8.2 HIGH LEVEL WASTE (HLW) CALCINE** is revised as follows:

Third paragraph, fourth line after “Assets, and the safety Documentation prescribed by” delete “DOE-STD-1180-2008, Program and Project Management for the Acquisition of Capital Assets,” and replace with “DOE-STD-1189-2008, Integration of Safety into the Design Process”. The remaining contract language in C.2.8.2 remains unchanged.

The contractor shall manage calcine disposition in compliance with existing regulatory and legal requirements. The further development of products and deliverables required by DOE Order 413.3B, Program and Project Management for the Acquisition of Capital Assets, and the safety documentation prescribed by DOE-STD-1189-2008, Integration of Safety into the Design Process, however, will not be continued. The long-term objective is transfer of calcine to compliant, interim storage in a waste-form suitable for eventual transport to and disposal in a geologic repository per repository acceptance criteria. For project planning purposes, the project will be considered complete when calcine has been packaged in its final compliant waste-form; and shipped from Idaho and/or placed in compliant, interim storage.

2. **SECTION H.2 PROGRAMMATIC RISKS AND UNCERTAINTIES, Table H-1** is modified as follows:

Table H-1, Item 1 is revised to remove language related to the off-site shipment of SBW. This revision should have been included with Modification 132, dated April 29, 2010, where all WIPP references were deleted in Section C.2.4.3 Sodium Bearing Waste.

Table H-1

Item	Uncertainty	Description
1	Disposal Pathway and Schedule for Liquid Sodium Bearing Waste (SBW) and Tank Farm Closure	The SOW assumes that the SBW can be treated and disposed at the Waste Isolation Pilot Plant (WIPP) as transuranic waste and that tank farm systems and soils can be managed as either transuranic or low level waste. Project scheduling requires planning for permitting and construction cycles to meet the December 31, 2012, Settlement Agreement milestone to complete treatment of SBW.
2	Using the New Waste Calcining Facility (NWCF) as Treatment Method for SBW	The Idaho Settlement Agreement requires DOE to complete calcination of SBW waste by December 31, 2012, but the Notice of Noncompliance/Consent Order requires a Resource Conservation and Recovery Act (RCRA) closure plan to be implemented for the NWCF. The NWCF is currently undergoing a RCRA partial closure that involves the flushing and isolation of process piping and the cutting and capping of utility piping entering the calciner cell.

Item	Uncertainty	Description
3	Disposal of High Level Waste Solids (Calcine)	The SOW assumes that the calcine will be disposed at the geologic repository despite the current exclusion of RCRA-regulated waste. The ability to demonstrate that the calcine meets the Waste Acceptance System Requirements Document http://www.ocrwm.doe.gov/wat/wat.shtml in its current form, i.e., without treatment, is uncertain. A suitable canister to transport the calcine to the repository has not yet been established.
4	WAG 7 Unresolved Issues	The SOW does not require the contractor to disposition facilities constructed and owned by Lockheed Martin Advanced Environmental Services (LMAES). Until such time as the litigation to adjudicate claims made by LMAES is completed, the ultimate disposition for these buildings cannot be specified. The SOW assumes that the LMAES facilities will not impede remediation of WAG 7.
5	End States for CERCLA Records of Decision (RODs)	Because the RODs for Operable Units 3-14, 7-13/14 and 10-08 have not yet been approved, the end states are not defined and detailed work plans under the FFA/CO cannot be finalized or executed.
6	Condition of the CPP-603 Dry Spent Nuclear Fuel (SNF) Storage Facility and Aging of Installed Equipment	The aggressive schedule for moving SNF into dry storage at CPP-603 may be impacted by the single point of entry for access and egress into the Irradiated Fuel Storage Facility and reliability of installed equipment, including the transfer cart, overhead cranes, and manipulators.
7	Remediation of Soils Under Buildings	As buildings are demolished, an indeterminate amount of soil under the buildings are likely to contain constituents that cause the soils to be managed as mixed, high-level or remote-handled TRU waste.
8	Method to Dispose of Decommissioned Nuclear Reactors and Confinement Buildings	The method for remediating the Materials Test Reactor (MTR), the Engineering Test Reactor, the Power Burst Facility, and those portions of the Loss of Fluid Test (LOFT) Facility, not involved in the Specific Manufacturing Capability (SMC) Program, is yet to be determined.
9	Disposition Method for Spent Nuclear Fuel (SNF) Wet Basins and Canals	The method for deactivating or demolishing the SNF basins located in CPP-603 and TAN-607 and the SNF Canals located in TRA-603 (MTR Canal), TRA-642 (ETR Canal), and PBF-620 (PBF Canal) has not yet been determined.
10	Waste With no Path for Disposal	Some waste has no commercial or government treatment options because of radiation levels, chemical composition, physical matrix or combinations of each. Similarly, irradiated beryllium blocks from reactor internals have no known disposal path.

The remaining contract language in Section H.2 remains unchanged.

3. SECTION H.21 WORKFORCE TRANSITION AND HUMAN RESOURCES MANAGEMENT.

As part of Contracting Officer direction provided on November 28, 2011, (AS-IR&A12-015), the following language is incorporated:

Section H.21(b)(5):

Individual compensation actions for the top contractor official (e.g., laboratory director/plant manager or equivalent and key personnel not included in the CIP) must be approved by the Contracting Officer. For those key personnel included in the CIP, DOE will approve salaries in accordance with guidance provided in Acquisition Letter AL 2007-02, upon the initial contract award and when key personnel are replaced during the life of the contract. DOE will have access to all individual salary reimbursements that are funded by DOE. This access is provided for transparency; DOE will not approve individual salary actions (except as previously indicated).

The Contracting Officer's approval of individual compensation actions will be required only for the top contractor official (e.g., laboratory director/plant manager or equivalent) and key personnel as indicated above. The base salary reimbursement level for the top contractor official establishes the maximum allowable salary reimbursement under the contract. Unusual circumstances may require a deviation for an individual on a case-by-case basis. Any such deviations must be approved by the Contracting Officer.

4. SECTION J, ATTACHMENT B, *List of Applicable DOE Directives (List B)*, is modified as follows.

Directives Added

DOE O 458.1 Chg 2, Radiation Protection of the Public and the Environment
DOE Order 232.2, Occurrence Reporting and Processing of Operations Information

Directives Deleted

DOE Order 5400.5 Chg 2, Radiation Protection of the Public and the Environment
DOE Manual 232.1-2, Occurrence Reporting and Processing of Operations Information

Attachment B is attached.

5. SECTION J – ATTACHMENT F, *List of Key Personnel*, is revised.

Attachment F is attached.

All other contract terms and conditions remain unchanged.

LIST OF APPLICABLE DOE DIRECTIVES (LIST B)

The DOE directives listed in the table below contain requirements relevant to the scope of work under this contract. In most cases, the requirements applicable to the contractor are contained in a Contractor Requirements Document (CRD) attached to the DOE directive. The contractor is encouraged to continuously evaluate the work scope and contract requirements for opportunities to improve efficiency or creativity and propose alternative methods to those specified in the DOE directives.

Directive No.	Directive Title
DOE O 110.3A	Conference Management
DOE O 130.1	Budget Formulation Process
DOE M 140.1-1B	Interface with the Defense Nuclear Facilities Safety Board
DOE O 142.1	Classified Visits Involving Foreign Nationals
DOE O 142.3 Chg 1	Unclassified Foreign Visits and Assignments Program
DOE O 144.1 Admin Chg 1	Department of Energy American Indian Tribal Government Interactions and Policy
DOE O 150.1	Continuity Programs
DOE O 151.1C	<p>Comprehensive Emergency Management System</p> <p><i>Clarification for DOE O 151.1C</i> <i>Building evacuation exercises at the Idaho National Laboratory (INL) are defined as evacuation drills. The term exercise implies having specific objectives and full documentation (e.g., a scenario package that includes objectives, scope, timelines, injects, controller instructions, and evaluation criteria). Drills have specific objectives and documentation but are not formally evaluated using the demonstration criteria and points of review. Drills provide supervised, “hands-on” training and are documented informally.</i></p> <p><i>Since the INL site is comprised of multiple facilities, the facility-specific requirement for annual exercises will be implemented on a site-wide basis. One site-wide exercise will be conducted annually with a specific facility identified and rotated such that each facility will be the initiating facility once every six years. Operational circumstances will be used to determine the initiating facility.</i></p> <p><i>The facility-specific requirement that all facilities must prepare an Emergency Public Information Plan and that the same plan can cover multiple facilities will be interpreted as including a site-wide plan and implemented on that basis.</i></p>
DOE O 153.1	Departmental Radiological Emergency Response Assets

Directive No.	Directive Title
DOE O 200.1A	Information Technology Management
DOE O 205.1A	Department of Energy Cyber Security Management Program
DOE M 205.1-4	National Security System Manual
DOE M 205.1-5 Admin Chg 2	Cyber Security Process Requirements Manual
DOE M 205.1-6 Admin Chg 2	Media Sanitization Manual
DOE M 205.1-7 Admin Chg 2	Security Controls for Unclassified Information Systems Manual
DOE M 205.1-8 Admin Chg 2	Cyber Security Incident Management Manual
DOE O 206.1	Department of Energy Privacy Program
DOE N 206.4	Personal Identity Verification
DOE O 210.2	DOE Corporate Operating Experience Program
DOE O 221.1A	Reporting Fraud, Waste, and Abuse to the Office of Inspector General
DOE O 221.2A	Cooperation with the Office of Inspector General
DOE O 225.1A	Accident Investigations
DOE O 226.1A	Implementation of Department of Energy Oversight Policy
DOE M 231.1-1A Chg 2	Environment, Safety, and Health Reporting Manual
DOE O 232.2	<p>Occurrence Reporting and Processing of Operations Information</p> <p><i>DOE Delegation Order No. 10 CFR 72.512.1, dated October 31, 1996, and signed by the Secretary of Energy, delegated authority to the Manager, DOE Idaho Operations Office, to act on behalf of the Secretary of Energy for licenses issued by the Nuclear Regulatory Commission (NRC) for the Three Mile Island Interim Storage System (NRC Docket #72-20) and Fort St. Vrain Independent Spent Fuel Storage Installation (NRC Docket #72-9) under 10 CFR Part 72. DOE Delegation Order No. 10 CFR 72.512.1 states, “The Nuclear Regulatory Commission is recognized as the legal regulatory authority with respect to the possession and management of materials under the subject licenses. Therefore in instances where Department of Energy orders, requirements, and/or guidelines overlap or duplicate requirements of the Nuclear Regulatory Commission related to radiation protection, nuclear safety (including quality assurance), and safeguards and security of nuclear material(s), the Nuclear Regulatory Commission requirements will apply to the design, construction, operations, and decommissioning of these Nuclear Regulatory Commission licensed facilities and activities. Department of Energy</i></p>

Directive No.	Directive Title
	<p><i>orders, regulations, and/or guidelines will apply where the Nuclear Regulatory Commission defers to the Department of Energy or does not exercise regulatory authority.”</i></p> <p><i>NRC reporting criteria and requirements codified in 10 CFR 20 and 10 CFR 72, will be used in place of similar DOE O 232.2 criteria as applicable.</i></p>
DOE O 231.1A Chg 1	Environment, Safety, and Health Reporting
DOE N 234.1	Reporting of Radioactive Sealed Sources
DOE O 241.1A Chg 1	Scientific and Technical Information Management
DOE O 243.1	Records Management Program
DOE O 243.2	Vital Records
DOE O 350.1 Chg 3	Contractor Human Resource Management Programs
DOE O 413.1A	Management Control Program
DOE O 413.3B	Program and Project Management for the Acquisition of Capital Assets
DOE O 414.1C	Quality Assurance
DOE O 420.1B Chg 1	<p>Facility Safety</p> <p><i>Clarification for DOE O 420.1B</i> <i>DOE Order 420.1B, Facility Safety, requires compliance with ANSI standards that have been replaced by updated versions. CWI is released from compliance with the outdated versions of the required ANSI standards. It is agreed that compliance will be the most current version of the required ANSI standards cited.</i></p>
DOE O 422.1	Conduct of Operations
DOE O 425.1C	Startup and Restart of Nuclear Facilities
DOE O 430.1B Chg 1	Real Property Asset Management
DOE O 430.2B	Departmental Energy, Renewable Energy and Transportation Management
DOE O 433.1A	Maintenance Management Program for DOE Nuclear Facilities
DOE O 435.1 Chg 1	Radioactive Waste Management

Directive No.	Directive Title
DOE M 435.1-1 Chg 1	<p>Radioactive Waste Management Manual</p> <p><i>Exemption has been granted for requirements specific to the Calcined Solids Storage Facilities (CSSFs) located at the Idaho Nuclear Technology and Engineering Center (INTEC) including the requirements specific to Contingency Storage and Transfer Equipment.</i></p> <p><i>Exemption has been granted for CWI to use a non-DOE facility to treat and dispose of low-level waste (LLW) and mixed low-level waste (MLLW) in support of cleanup commitments specified in the Idaho Cleanup Project Contract DE-AC07-05ID14516, Section C.1.8.3.</i></p>
DOE M 440.1-1A	DOE Explosives Safety Manual
DOE O 440.2B Chg 1	Aviation Management and Safety
DOE M 441.1-1	Nuclear Material Packaging Manual
DOE O 442.1A	Department of Energy Employee Concerns Program
DOE M 442.1-1	Differing Professional Opinions Manual for Technical Issues Involving Environment, Safety and Health
DOE O 450.1A	Environmental Protection Program
DOE M 450.4-1	Integrated Safety Management System Manual
DOE O 460.1B	Packaging and Transportation Safety
DOE M 460.2-1A	Radioactive Material Transportation Practices Manual
DOE O 460.2A	Departmental Materials Transportation and Packaging Management
DOE O 470.2B	Independent Oversight and Performance Assurance Program
DOE O 470.3B	Graded Security Protection (GSP) Policy
DOE M 470.4-1 Chg 1	<p>Safeguards and Security Program Planning and Management</p> <p><i>Nuclear Regulatory Commission reporting/investigation criteria and requirements codified in 10 CFR 73 will be used in place of similar DOE M 470.4-1 Chg 1 criteria, as applicable. DOE M 470.4-1 Chg 1 reporting/investigation criteria will be used when similar NRC reporting does not exist.</i></p>
DOE M 470.4-2A	Physical Protection
DOE M 470.4-3 Chg 1	Protective Force
DOE M 470.4-4A	Information Security Manual
DOE M 470.4-5	Personnel Security
DOE M 470.4-6 Chg. 1	Nuclear Material Control and Accountability

Directive No.	Directive Title
DOE O 471.1B	Identification and Protection of Unclassified Controlled Nuclear Information
DOE O 471.3	Identifying and Protecting Official Use Only Information
DOE M 471.3-1	Manual for Identifying and Protecting Official Use Only Information
DOE O 475.1	Counterintelligence Program
DOE M 475.1-1B	Manual for Identifying Classified Information
DOE O 475.2	Identifying Classified Information
DOE O 522.1	Pricing of Departmental Materials and Services
DOE O 534.1B	Accounting
DOE O 551.1C	Official Foreign Travel
DOE O 1450.4	Consensual Listening-In to or Recording Telephone/Radio Conversations
DOE O 5400.5 Chg 2	Radiation Protection of the Public and the Environment
DOE O 5480.20A Chg 1	Personnel Selection, Qualification, and Training Requirements for DOE Nuclear Facilities
DOE O 5610.2 Chg 1	Control of Weapon Data
DOE O 5660.1B	Management of Nuclear Materials
DOE O 5670.1A	Management and Control of Foreign Intelligence

LIST OF KEY PERSONNEL

<u>Title</u>	<u>Name</u>
Project Manager	Thomas J. Dieter
ESH&Q (ISMS Program) Director	Kevin W. Daniels
INTEC Area Manager	James P. Floerke
IWTU Manager	William E. Lloyd, Jr.
RWMC Area Manager	Maurice E. Brown