

ATTACHMENT J.6

SMALL BUSINESS SUBCONTRACTING PLAN

SMALL BUSINESS SUBCONTRACTING PLAN

For

United States Department of Energy

Plateau Remediation Contract

Submitted by:

**CH2M HILL PLATEAU REMEDIATION COMPANY
Prime Contractor**

FISCAL YEARS 2009-2018

(Base and Option Period)

SOLICITATION # DE-RP06-07RL14788

SEPTEMBER 2007

SMALL BUSINESS SUBCONTRACTING PLAN

Contractor Name: CH2M HILL Plateau Remediation Company (CHPRC)

Contractor Address: 3190 George Washington Way, Suite B

City/State/Zip: Richland, WA 99354-1659

Company Phone: 509.420.3427

Fax: 720.286.9361

Point of Contact: Daniel B. Cartmell

POC Phone: 509.372.3982 509.373.1498 fax

POC E-mail: Dan.Cartmell@ch2m.com

Solicitation Number: DE-RP06-07RL14788

Item/Service: Plateau Remediation Contract

Total Amount of Contract (Including Options): Per Section B, Table B.4-1

Period of Contract Performance: Award thru September 2018 including option period.

Company Policy Statement

“It is the policy of the United States and CH2M HILL that small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small business concerns owned and controlled by socially and economically disadvantaged individuals, minority business concerns and woman-owned small business concerns shall have the maximum practical opportunity to participate in the performance of government and commercial subcontracts awarded by CH2M HILL. It is CHPRC’s intention to aggressively pursue, wherever possible, subcontracting opportunities with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged small business, minority business, and women-owned small business, as well as Historically Black Colleges and Universities and Minority Institutions in accordance with P.L. 99-66, Section 1207, and P.L. 100-180, Section 806.”

Vision

Diversity and commitment to small business subcontracting is a CH2M HILL management operating principle and a key element to our CHPRC strategy. Through diversity in our small business subcontracting, CH2M HILL provides vital links to the local/regional community, increases flexibility in meeting project goals and cost effectiveness, helps strengthen the local economy, creates new business opportunities, and supports best business practices. Per this Plan, CHPRC commits \$1.25 billion to small business concerns over the base and option period.

FISCAL YEAR 2009-18 SMALL BUSINESS SUBCONTRACTING PLAN

1.0 Purpose of Plan

This CHPRC Fiscal Year 2009-18 (5 Year base plus 5 Year Option) Small Business Subcontracting Plan (FAR 52.219-9 - Small Business Subcontracting Plan) promotes, develops, and implements, a progressive small business (SB), small disadvantaged business (SDB), small women-owned business (WOSB), HUBZone small business (HUBZone), veteran-owned small business (VOSB), and Service Disabled Veteran Owned business Program (collectively referred to herein as SB) subcontracting program. This Plan maximizes business opportunities for SB concerns to the extent practicable to meaningfully contribute to the plateau remediation scope and incentive objectives. The Plan also describes the approach in meeting the Request for Proposal (RFP) objectives of H.30 – Mentor-Protégé Program. The Plan is consistent with FAR 19.7 – Small Business Subcontract Program in that this subcontracting plan covers the entire contract period (including option period); applies to this specific Plateau Remediation Contract (PRC); includes goals that are based on the offeror’s planned subcontracting in support of this Contract; addresses indirect costs; addresses Master Plan integration into the Small Business Plan; and describes the good faith effort to support these committed goals. Additionally this Plan is consistent with FAR 52.219(c) in that the base contract is addressed separately from the option period.

2.0 Executive Summary

An objective of the U.S. Department of Energy (DOE) is to promote the use of small business in executing its mission activities, and providing to such concerns an opportunity to apply their expertise, in a meaningful way, to the work to be conducted under the contract resulting from this solicitation. Pursuant to this objective, it is a management philosophy and operating principle of CH2M HILL to be recognized as an industry leader in the incorporation and use of SB to gain overall project efficiency. This philosophy is a key element to our PRC proposal.

CHPRC has established a team member and preferred SBs with proven track records to support optimizing prime contract objectives and project delivery success including a) East Tennessee Materials & Energy Corporation, Inc., a wholly owned subsidiary of Perma-Fix

Benefits

- CHPRC self-perform commitment of 39.6 percent versus a less than 65 percent requirement;
- 27.6 percent (\$1.25 billion) of the total proposed Contract Price to SBs for the basic and option periods exceeding the 17 percent goal;
- All small business sub-goals will be exceeded including 49.3 percent of subcontracted dollars to small business;
- CHPRC Mentor-Protégé Agreements with Project Services Group (PSG), and AGVIQ, LLC;
- 8.2 percent of planned subcontracted dollars to SDB) exceeding 6.3 percent goal ;
- Established preferred SB subcontractors including East Tennessee Materials & Energy Corporation, Inc., a wholly owned subsidiary of Perma-Fix Environmental Services; ARES Corporation, Babcock Services, Inc., GEM Technology International Corporation, INTERA Incorporated., EnRep Inc., and Ascendent Engineering & Safety Solutions LLC;
- Includes SB subcontracting opportunities for currently self-performed scope, e.g. FFTF, Training, Procedures, Project Controls.

Environmental Services (M&EC/Perma-Fix) as a SB team member for waste support services, low-level and mixed-waste treatment, transuranic (TRU) waste certification, Plutonium Finishing Plant (PFP) solid waste disposal support, planning integration, T-Plant facility management support, and Central Waste Complex support; b) ARES Corporation (ARES) for nuclear/criticality and engineering expertise supporting engineering design and reviews, vendor drawing clarification, criticality analysis, deactivation plans, operational startup, risk assessments, facilities design and upgrades, integrity assessments, D&D support, and nuclear safety support; c) Babcock Services, Inc., (Babcock) for planning/scheduling/engineering and field management support to PFP Closure, solid/liquid waste treatment, groundwater, soil/facility remediation, fast flux test facility (FFTF) , and 100 K Area; d) GEM Technology International Corp. (GEM Technology)for safeguards, information, and personnel security support, and nuclear material control; e) INTERA Inc. (INTERA) for risk management support; f) EnRep, Inc. (EnRep) for training and procedure development and environmental regulation compliance support; and g) Ascendent Engineering & Safety Solutions, Inc. (Ascendent LLC) for nuclear safety, ISMS, and Environment, Safety, Health and Quality (EHS&Q) support.

Key attributes of the CHPRC PRC SB plan includes 1) committing 27.6 percent (\$1.25 billion) of the proposed Total Contract Price to SBs for the base and option periods exceeding the 17 percent requirement; 2) all SB sub-goals for the base and option periods will be exceeded including 49.3 percent of subcontracted dollars to small business; 3) a Mentor-Protégé Agreement has been established with Project Services Group (PSG) to perform cost and schedule project controls support to enhance project management capabilities; and with AGVIQ, LLC to enhance its business abilities in its market area of environmental consulting, testing, planning, and site remediation in the federal and commercial sectors including Environmental Engineering/Design, Design-Build, Investigations, Reporting, RCRA Closures, Facility Decontamination; 4) a proposed CHPRC Self Perform commitment including AREVA Federal Services, LLC (AREVA), and Fluor Federal Services, Inc. (Fluor) of 39.6 percent versus the less than 65 percent requirement; 5) committing 8.2 percent of planned subcontracted dollars to SDB Participation Program (Attachment L-1 of RFP) for the base and option periods exceeding 6.3 percent requirement; 6) utilizing the University of Washington for environmental risk analysis and modeling, ecological characterization, groundwater solutions, and ecological risk assessment; and the Colorado School of Mines for soil and groundwater modeling, risk assessment, and remediation; and 7) a Small Business Subcontracting Plan consistent with FAR 52.219-9, Small Business Subcontracting Plan requirements.

The CHPRC committed SB goals as a percent of planned subcontracting activity for the base contract and option periods combined, are as follows as contrasted with the RFP requirements:

Component	RFP Required Percent	CH2M HILL Commitment Percent
SB	41.3	49.3%
SDV	6.3	8.2%
WOSB	5.8	6.5%
HUBZone	2.2	3.2%
VOSB	1.3	2.0%
Service-Disabled Veteran-Owned SB	1.3	2.0%

3.0 Master Plan Incorporation

Pursuant to FAR 52.219-9(b) and (f), this Small Business Subcontracting Plan integrates and incorporates the attributes of a required Master Plan submittal defined as containing all the required elements of a subcontract plan, except goals.

4.0 Utilization of Small Business Concerns

Pursuant to FAR 19.702 – Statutory Requirements and FAR 52.219-8 - Utilization of Small Business Concerns, CHPRC is committed to ensure that SB concerns shall have the maximum practicable opportunity to participate in performing PRC subcontracts for subsystems, assemblies, components, and related services as outlined in this plan. CHPRC is also committed to establishing procedures to ensure the timely payment of amounts due pursuant to the terms of subcontracts with SB concerns. The CHPRC will carry out this plan in the awarding of subcontracts to the fullest extent consistent with efficient contract performance. CHPRC further agrees to cooperate in any studies or surveys as may be conducted by the United States Small Business Administration (SBA) or the awarding agency of the United States as may be necessary to determine the extent of the Contractor's compliance with this clause. See the Small Business Outreach and Equitable Opportunity to Compete Section for further discussion.

5.0 Strategy for Small Business Involvement

A management philosophy of CH2M HILL is to be recognized as an industry leader in the incorporation and use of SB to gain overall project efficiency. Through various award-winning and well-recognized small business achievements, CH2M HILL has demonstrated an understanding of the valued aspects of an integral SB involvement strategy. Consistent with the DOE's vision and goals, diversity and commitment to SB subcontracting is a CH2M HILL management operating principle and a key element to our PRC strategy. Through diversity in our SB subcontracting, CH2M HILL provides vital links to the local/regional community, supports strategy for workforce transition, increases flexibility in meeting project goals and cost effectiveness, helps strengthen the local economy, creates new business opportunities, and supports best business practices. For example, one proposed work force transition approach is to identify specific self-perform scopes of work which are possible candidates for competitive awards (e.g. FTF Surveillance and Maintenance, Training and Procedures) and use innovative motivated SBs to perform including hiring of current Hanford workers with all current benefits. This will also give the SBs an opportunity to grow into non-Hanford work areas. SBs also are a source for leading edge technology to help PRC accomplish planned work scope.

Corporately, CH2M HILL Inc., has received SBA's and the Defense Contract Management Association's (DCMA's) top rating of outstanding for its Small Business Program for the last 7 years in a row. Since 2002, CH2M HILL has subcontracted more than 70 percent of its corporate subcontracting dollars to SBs totaling more than \$355 million in Fiscal Year (FY) 2006 alone. In the area of SDB, CH2M HILL corporate goal is 9.7 percent with actual performance in 2002 of 11.2percent, 2003 of 13.8 Percent, 2004 of 16.1 percent, 2005 of 17.2 percent and 2006 of 17.4 percent. Recently in our efforts to respond to Hurricane Katrina, CH2M HILL subcontracted \$261 million of available dollars to SBs (81.1 percent) with more than 23.1 percent actual performance for SDB on this effort. CH2M HILL received the 2005 award from the U.S.

Department of State Office of Small and Disadvantaged Business Utilization; Black Enterprise Magazine July 2006 award for Top 10 Best Companies for Supplier Diversity, the Minority Enterprise and Education Departments Corporation of the Year Award in September 2005, the Martin Luther King, Jr., Business Social Responsibility Award in 2003, and others.

A key element of our SB strategy is project management involvement. Each Project Manager is personally accountable for using SBs within their area of responsibility. This is accomplished by integrating SB goals and targets into project planning and execution. Project Managers will be responsible for the successful execution of SB contracts and providing technical oversight and appropriate assistance, as required, ensuring a successful contractual relationship with our SB subcontractors. The goals depicted in this subcontracting plan have been developed with the Project Manager, Procurement, and supported by our estimating process. Additionally, the Project Manager and his/her team will ensure that robust subcontractor safety oversight is performed per the proposed Attachment I – Proposed Subcontractor Integrated Safety Management System (ISMS) Safety Requirements.

The CHPRC strategic approach for affording SB maximum practical opportunity (FAR 19.702) to participate in PRC subcontracts within SB demonstrated capabilities are: 1) established team member and preferred small businesses to perform specific PRC scopes of work including a) M&EC/Perma-Fix as a SB team member for waste support services, low-level and mixed-waste treatment, TRU waste certification, PFP solid waste disposal support, planning integration, T-Plant facility management support, and Central Waste Complex support; b) ARES, for nuclear/criticality and engineering expertise supporting engineering design and reviews, vendor drawing clarification, criticality analysis, deactivation plans, operational startup, risk assessments, facilities design and upgrades, integrity assessments, D&D support, and nuclear safety support; c) Babcock for planning/scheduling/engineering and field management support to PFP Closure, solid/liquid waste treatment, groundwater, soil/facility remediation, FFTF, and 100 K Area; d) GEM Technology, for safeguards, information, and personnel security support, and nuclear material control; e) INTERA. for risk management support; f) EnRep. for training and procedure development and environmental regulation compliance support.; and g) Ascendent LLC for nuclear safety, ISMS, and ESH&Q support. (Capabilities Overviews for preferred SBs are included as Attachments); 2) identifying specific self-perform scopes of work that are possible candidates for competitive SB awards, such as FFTF Surveillance and Maintenance and Safe Deactivation, Training and Procedures, Property Management, Project Controls, Emergency Planning Interface, and Radiological Engineering. (The plan for outsourcing would encompass the SBs becoming a signatory to the Collective Bargaining Agreement, as applicable and the Hanford Employee Welfare Trust (HEWT) benefits program to ensure incumbent “inside” employees are not impacted from a pension/benefit perspective); 3) performing thorough evaluations of SB capabilities against subcontracting plans and seek out equitable bidding opportunities to compete meaningful, varied, and complex PRC work scope and incorporate a large share of SB PRC work into baseline execution in areas (not inclusive) such as PFP engineering, planning, work control, nuclear safety, waste characterization, and ESH support; waste treatment and disposal; hazardous material shipping and transportation; training and procedure development; waste support services; waste treatment program management; facilities management support to T-Plant and other facilities; waste receipt and packaging facilities and equipment; radiography; NDE facility infrastructure support; engineering readiness for sludge receipt; groundwater/vadose zone sampling; well drilling and maintenance; reporting;

geophysical surveying and borehole logging; and decommissioning; facility/waste site surveillance and maintenance site structure support; 100 K Area K-East (KE) and K-West (KW) Basin demolition, cold vacuum drying facility modifications; 618 burial ground remediation; cesium/strontium capsules and components for dry storage support; spent nuclear fuel (SNF) hot cell facility design; integrated disposal facility (IDF) readiness to serve maintenance; fire protection analysis; seismic analysis, barrier installation management and utility relocations; and structures demolition and dismantlement; 4) targeted utilization of specific SB set-aside subcontracts for goods and services consistent with FAR 52.219-6 – Notice of Total Small Business Set-aside, such as engineering, design, and remediation services; planner/schedulers; staff augmentation; startup and testing; operational readiness; and risk assessments; 5) using the University of Washington for environmental risk analysis and modeling, ecological characterization, groundwater solutions, and ecological risk assessment; and the Colorado School of Mines for soil and groundwater modeling, risk assessment, and remediation; 6) utilization of El Camino Nuclear Inc., a SDB, to provide trained temporary bargaining unit Radiation Control Technicians (RCT); 7) utilization of a commercial approach to subcontracting to the extent practical per FAR 52.219-9(g); 8) to compile, maintain, and share SB source data with other Hanford contractors and with other CHPRC subcontractors to enhance increased opportunities for known, qualified firms; and 9) where practical, combine project requirements and create other bidding opportunities for SBs.

6.0 Self Performed Work Requirements

Pursuant to PRC RFP Contract Clause H.20 – Self Performed Work, the percentage of work planned to be self performed by the large business CHPRC including AREVA, and Fluor. (as described in FAR 9.6, Contracting Team Arrangements), is 39.6 percent versus the 65 percent of the Total Contract Price RFP requirement. The remaining contractor team member M&EC/Perma-Fix), is a SB member. SB support will be via standard subcontracting arrangements and/or will be performed through competitive procurements to maximum extent possible. In addition, CHPRC is committing 27.6 percent (\$1.25 billion) of the proposed Total Contract Price to be performed by small business subcontracts exceeding the 17 percent requirement.

To quantify the requirements pursuant to PRC RFP Contract Clause L.17, the following table identifies the dollar amount and percentage of the proposed Total Contract Price (per H.20 - Self-Performed Work), that will be self performed by the large business CHPRC Contractor team arrangement including AREVA Federal Services, LLC, and Fluor (FAR 9.6); as contrasted with work planned to be performed by subcontracted businesses:

Category	FY09-13 Base Dollars	FY09-13 Base Percent	FY14-18 Option Dollars	FY14-18 Option Percent
Self Performed by CHPRC	\$1,006,705,011	40.66	\$781,178,143	38.30
Performed by Subcontracted SBs	\$738,328,748	29.82	\$507,283,308	24.87
Total Contract Price	\$2,476,072,261		\$2,039,484,150	

7.0 Mentor-Protégé Agreements

Pursuant to PRC RFP Contract Clause H.30 – Mentor-Protégé Program and consistent with DEAR Subpart 919.70 - The DOE Mentor-Protégé Program and SBA Mentor-Protégé regulations, CHPRC has established a mentor-protégé agreement with Project Services Group (PSG) (DUNS 146380576) to perform cost and schedule project controls support as a designated small disadvantaged, 8a certified small business, to enhance its business abilities in the area of project management; and with AGVIQ, LLC (DUNS 142450134) to perform environmental consulting and site remediation as a designated minority owned (Native American Alaskan Native), and small disadvantaged small business through the small business administration’s 8(a) program, to enhance its business abilities in the area(s) of AGVIQ’s market of environmental consulting, testing, planning, and site remediation in the federal and commercial sectors including Environmental Engineering/Design, Design-Build, Investigations, Reporting, RCRA Closures, Facility Decontamination.

In addition, a CHPRC major large business subcontractor, AREVA, has established a mentor-protégé agreement with Cavanagh Services Group Inc. (Cavanagh) (DUNS 093616915) to perform remediation services, hazardous waste support, and transportation support as a designated small disadvantaged, women owned, HUBZone, 8a certified small business. Fluor, a CHPRC major large business subcontractor, has established a mentor-protégé agreement with Randolph Construction Services, Inc. (Randolph) (DUNS 063864623), to perform green field construction services and expand expertise in nuclear construction applications such as fabricating equipment and barrier construction and demolition; as a small disadvantaged women-owned 8a certified small business. Finally, the CHPRC SB team member (M&EC/Perma-Fix) has established a mentor-protégé agreement with GEM Technologies Inc. (DUNS 928300623) to perform environmental remediation and compliance support as a designated small disadvantaged, 8a certified small business.

CHPRC commits to maintain at least one active mentor-protégé agreement throughout the base and option contract periods through the DOE and/or SBA Mentor-Protégé Programs. Mentor-protégé firms will develop and submit “lessons learned” evaluations to DOE at the conclusion of their specific subcontract agreement. Attachment H includes the mentor-protégé abstracts.

8.0 Methods Used to Develop Small Business Goals

Pursuant to FAR 52.219-9 (d) (4) - SB Subcontracting Plan, the method used to establish the subcontracting goals began with the CHPRC reviewing the detailed work scope requirements of the PRC RFP and developing a detailed technical/cost and schedule baseline forecast for the PRC base and option periods. The proposed technical/cost baseline includes forecasted subcontracting activities for the PRC scope outlined in the overall Strategy for Small Business Involvement section of this Plan. Subcontracted baseline activities were then reviewed for potential SB opportunities and denoted accordingly in baseline for planning purposes. See Volume III – Cost and Fee Proposal for planning basis. The planning outcome of this methodology is quantified in the proposed Goals – Percentages and Dollars, Small Disadvantaged Business Program Targets, and Rationale for Small Business Forecast sections of this Plan. CHPRC believes the goals outlined in this Plan are both realistic and attainable.

9.0 Methods Used to Identify Sources for Solicitation

CH2M HILL has won national recognition for its Small Business Program as delineated in the Strategy for Small Business Involvement Section of this Plan. As described in this Plan, and pursuant to FAR 52.219-9 (d) (5), CHPRC will employ a Small Business Advocate who will actively manage the program and will assist employees in developing new sources of suppliers. Below are some of the key methods and resources we will use:

- Existing CHPRC subcontractor source lists
- Existing relationships with local firms
- CHPRC and DOE-sponsored trade fairs and conferences designed to attract additional small businesses
- Strengthened relationships with the local SBA office and business development offices, resulting in the identification of the best local sources available
- Local Chamber, SB, and Economic Development Office supplier lists
- Procurement Technical Assistance Center (PTAC)
- Central Contractor Registration (CCR) database
- PassPort Vendor Database
- National Contract Management Association (NCMA)
- National Association of Purchasing Management (NAPM)

10.0 Potential Subcontracting Opportunities for Small Business

Pursuant to FAR 52.219-9 (d) (3), the below table identifies a general description of the principal types of supplies and services that may be subcontracted, and an identification of the SBs that may be considered for subcontracting opportunities if or as opportunities arise. These opportunities supplement other planned SB activities noted throughout this Plan. The categories are for general work groupings only.

Subcontracting Items	Large Business	Small Business	SDB	SWOB	HUB Zone	Veteran	Dis. Vet
Office Supplies		X	X	X	X	X	X
Technical Services	X	X	X	X	X	X	X
Surv. and Maint.		X	X	X		X	
Construct Services	X	X	X	X			X
Temp. Empl. Svcs.		X	X	X	X	X	X
A/E Services	X	X				X	
Lab Services		X	X				
Safety Equipment		X	X	X			X
Engineer Services		X	X	X	X	X	X
Materials	X	X	X	X	X	X	X
Train & Procedures		X					
Planning/Scheduling		X					
Safeguards and Secur.		X	X	X			
Transportation		X	X	X			
Waste Services	X	X					
Remediation Service		X	X	X	X	X	X

11.0 Goals – Percentages and Dollars

Pursuant to FAR 52.219-9 (d) (1) & (2), CHPRC is committed to provide all materials, services, and supplies necessary to perform the statement of work as a prime contractor to the DOE Richland Operations Office (DOE-RL). The following outlines the CHPRC FY09-13 base and FY14-18 option period SB procurement volume forecast expressed as total SB dollars planned to be subcontracted and proposed percentage goals expressed in terms of percentages of total planned subcontracting dollars:

Base Contract Period FY09-13

Total amount of planned subcontracting:	\$1,357,949,467
Total planned for SB concerns:	\$738,328,748
Percentage of total amount subcontracted	54.4
Total planned for SDB concerns:	\$106,956,283
Percentage of total amount subcontracted	7.9
Total planned for WOSB concerns:	\$88,513,870
Percentage of total amount subcontracted	6.5
Total planned for HUBZone concerns:	\$45,614,451
Percentage of total amount subcontracted	3.4
Total planned for VOSB concerns:	\$35,303,793
Percentage of total amount subcontracted	2.6
Total planned for Service Disabled Veteran –Owned	\$34,344,643
Percentage of total amount subcontracted	2.5

Option Period FY14-18

Total amount of planned subcontracting:	\$1,166,533,728
Total planned for SB concerns:	\$507,283,308
Percentage of total amount subcontracted	43.5
Total planned for SDB concerns:	\$98,866,381
Percentage of total amount subcontracted	8.5
Total planned for WOSB concerns:	\$76,704,463
Percentage of total amount subcontracted	6.6
Total planned for HUBZone concerns:	\$35,921,297
Percentage of total amount subcontracted	3.1
Total planned for VOSB concerns:	\$15,211,342
Percentage of total amount subcontracted	1.3
Total planned for Service Disabled Veteran –Owned	\$16,108,247
Percentage of total amount subcontracted	1.4

12.0 Small Disadvantaged Business Participation Program Targets

Pursuant to FAR 52.219-24, Small Disadvantaged Business Participation Program - Targets, and FAR 52.219-25 - Small Disadvantaged Business Participation Program - Disadvantaged Status and Reporting, below is the CHPRC planned written Small Disadvantaged Business Participation Program Targets for the base and option period. The planned SDB goals are consistent with the North American Industry Classification System (NAICS) subsectors as determined by the U.S. Department of Commerce. These targets are also submitted with the CHPRC proposal as Attachment L-1. The SDB targets will become part of the Contract under Section J.7 - Small Disadvantaged Business Participation Program Targets.

(a) OFFEROR - CH2M HILL Plateau Remediation Company - Prime: AREVA Federal Services, LLC; Fluor Federal Services, Inc.; East Tennessee Materials & Energy Corporation, Inc., a wholly owned subsidiary of Perma-Fix Environmental Services (M&EC/Perma-Fix) as a SB team member. No member of the Offeror's team is a SDB, therefore, below table is left blank.

NAICS Code	Description of NAICS Major Group	SDB Dollars	Percentage*
N/A	Subtotal	N/A	N/A

(b) Subcontractors

NAICS Code	Description of NAICS Major Group	SDB Dollars	Percentage*
237990	Other Heavy and Civil Engineering Construction	\$118,954,419	2.63
484230	Specialized Freight Trucking, Long Distance	\$31,968,345	.71
541990	All Other Professional Services	\$28,186,525	.62
561210	Facilities Support Services	\$5,688,078	.13
561611	Investigation Services	\$8,719,118	.19
562910	Remediation Services	\$12,306,179	.27
	Subtotal	\$205,822,664	4.56

(c) Total (A+B)

NAICS Code	Description of NAICS Major Group	SDB Dollars	Percentage*
237990	Other Heavy and Civil Engineering Construction	\$118,954,419	2.63
484230	Specialized Freight Trucking, Long Distance	\$31,968,345	.71
541990	All Other Professional Services	\$28,186,525	.62
561210	Facilities Support Services	\$5,688,078	.13
561611	Investigation Services	\$8,719,118	.19
562910	Remediation Services	\$12,306,179	.27
	Subtotal	\$205,822,664	4.56

* All percentages shown as a percent of the Total Contract Price of \$4,515,556,411. The \$205,822,664 planned for SDB Businesses equates to 8.2% of planned subcontracted volume as depicted in Sections 2.0 and 11.0 of this Plan.

13.0 Rationale for Small Business Forecast

The proposed goals represent PRC procurement strategies and recognition of SB opportunities in the Pacific Northwest, while considering year-to-year procurement dynamics. The overall CHPRC procurement strategy is delineated in the Strategy for Small Business Involvement section of this Plan.

As recognized in FAR 19.705-4, each plan is evaluated based on similar acquisitions, proven methods of involving SB concerns, and relative success of methods. CHPRC believes the base and option years committed goals represent a challenging yet successfully achievable plan, given the work scope delineated in the RFP. This Plan strikes an optimum balance of self-perform versus subcontracted work expertise to exceed the PRC RFP requirements.

As CHPRC embarks on this PRC mission, the focus is representative of an environment of continued safe base operations, using directed Tank Operations Contract (TOC)/ Mission Support Contract (MSC)/ Pacific Northwest National Laboratory (PNNL) Hanford Prime contractors that are historically large businesses, identifying qualified businesses to execute planned construction activities, and maximizing use of SBs to successfully execute PRC mission objectives.

A review was conducted of known current service providers and new possible sources, with an emphasis on SB/SDB. An assessment was also conducted of the likely time frame for each respective subcontract to be implemented. In general many of the staff augmentation type contracts will occur during the transition period, especially those with our preferred SBs and protégés. Existing service and supply contracts may be renewed or replaced during the transition period. Other more complicated subcontracts will be awarded after detailed scopes are developed and when the actual need arises. Prior to actual solicitations each respective “bid list” will include SB/SDBs as applicable.

CHPRC has a focused targeted success path in achieving each SB sub-goal delineated in Section 11.0. Highlights of targeted SBs that have the capabilities to perform meaningful work in executing the PRC mission include:

Small Disadvantaged Businesses

As delineated in this Plan, CHPRC has identified preferred SDBs to support scope execution. This includes a) GEM Technology for safeguards, information, and personnel security support, and nuclear material control; b) EnRep for training and procedure development and environmental regulation compliance support; c) PSG to perform cost and schedule project controls support to enhance its business abilities in the area of project management; d) AGVIQ to perform environmental consulting and site remediation to enhance its business abilities in the area(s) of environmental consulting, testing, planning, and site remediation in the federal and commercial sectors including Environmental Engineering/Design, Design-Build, Investigations, Reporting, RCRA Closures, Facility Decontamination; e) Cavanagh to perform remediation services, hazardous waste support, and transportation support; f) Randolph to perform green field construction services and expand expertise in nuclear construction applications such as fabricating equipment and barrier construction and demolition; and g) GEM Technologies Inc. to perform environmental remediation and compliance support. In addition, CHPRC has identified

other SDB possibilities including Tradewind Services, Westech International, YASHGS, Parallax, North Wind, Navarro, TechnoGeneral, E2 Consulting, PM Tech, Portage, Global Technologies, and Integrated Environmental Services that could provide engineering, environmental remediation, and nuclear safety support. In addition HPM Corporation provides health and safety support, Empyrean Services provides startup support, El Camino Nuclear Inc., provides trained temporary bargaining unit RCT, and Advanced Technologies and Laboratories (ATL) provides lab sample analysis.

Women-Owned Businesses

As delineated in this Plan, CHPRC has identified preferred women-owned small businesses (WOSBs) to support scope execution. This includes a) GEM Technology International for safeguards, information, and personnel security support, and nuclear material control; b) EnRep. for training and procedure development and environmental regulation compliance support; c) Cavanagh. to perform remediation services, hazardous waste support, and transportation support; and d) Randolph to perform green field construction services and expand expertise in nuclear construction applications, such as fabricating equipment and barrier construction and demolition. In addition, CHPRC has identified other women-owned business possibilities including KT Services, BNL Technical Services, YASHGS, Navarro, Engineering & Technical Associates, North Wind, HPM Corporation, Parallax, and Westech International who could provide engineering, environmental remediation and nuclear safety, safety and health, operational readiness and facilities support. In addition Devary Communications can provide communications support and Advanced Technologies and Laboratories (ATL) provides lab sample analysis.

HUBZone Small Businesses

As delineated in this Plan, CHPRC has identified a preferred HUBZone (Cavanagh) to perform remediation services, hazardous waste support, and transportation support. In addition, CHPRC has identified other HUBZone business possibilities including Architectural & Environmental Associates, Columbia Geotechnical Associates, and Redhawk Technical Services that could provide engineering and environmental remediation support. In addition Cedar Mountain Supply and Fast Pipe and Supply can provide material needs. Finally Container Technologies Industries is a component fabricator.

Veteran Owned Small Businesses

As delineated in this Plan, CHPRC has identified a preferred veteran-owned small businesses (VOSB) to support scope execution. This includes a) ARES for nuclear/criticality and engineering expertise supporting engineering design and reviews, vendor drawing clarification, criticality analysis, deactivation plans, operational startup, risk assessments, facilities design and upgrades, integrity assessments, D&D support, and nuclear safety support; and b) Ascendent LLC for nuclear safety, ISMS, and ESH&Q support. In addition, CHPRC has identified other VOSB possibilities including Polestar, Tradewind Services, D3 Technical Services, RB Systems Engineering, and Energx who could provide engineering, remediation, hazardous waste, facility, administration, consulting, and environmental support. Additionally ABW Technologies provides manufacturing support.

Service Disabled Veteran Small Businesses

CHPRC will target Service Disabled Veteran small businesses in the execution of the PRC mission. Possible Disabled Veteran businesses include ELR, HMG LLC, KT Services, Los Alamos Technical Associates (LATA), Matrix Consulting, and Operations Maintenance Excellence (OME). These businesses could provide engineering, remediation services, facilities support, environmental support, and consulting. Additionally, Industrial Safety and Supply could provide material requirements.

Small Businesses

As delineated in this Plan, CHPRC has identified team member and preferred small businesses to support scope execution. This includes a) M&EC/Perma-Fix as a SB team member for waste support services, low-level and mixed-waste treatment, TRU waste certification, PFP solid waste disposal support, planning integration, T-Plant facility management support, and Central Waste Complex support; b) Babcock -for planning/scheduling/engineering and field management support to PFP Closure, solid/liquid waste treatment, groundwater, soil/facility remediation, FFTF, and 100 K Area; and c) INTERA = for risk management support. In addition, CHPRC has identified other SB possibilities including Federal Engineers and Constructors (FEC), Grant Construction, and SEC Federal Services corporation for construction support, including structures demolition and dismantlement; Meier, Mid-Columbia Engineering, Lucas Engineering, Vista Engineering, Columbia Engineering and Environmental Services (CEES), and G-Force Engineering to support engineering, remediation, facility administration, and environmental support; Fowler for project controls and field management; and Blue Star Enterprises for well-drilling support.

Overall, the proposed goals represent challenging targets. CHPRC believes the proposed goals including preferred SBs represent a strong commitment to a successful SB program. CHPRC stands committed to meet/exceed the committed goals.

14.0 Subcontractor ISMS Safety Oversight

Subcontractor safety oversight by the project management team is a key variable in successfully executing the PRC work scope to ensure safe work behaviors, adherence to processes and plans, and ensures that work execution and records conform to requirements of subcontractor statements of work. Key planned subcontracting ISMS attributes of the CHPRC proposal include a) robust ISMS flow down provisions per Attachment I – Proposed Subcontractor ISMS Flow Down Requirements for all work scope performed on the Hanford site, including Safety Plan requirements. b) requirement for subcontractors to complete an ESH&Q Safety Questionnaire prior to subcontract award including safety planning, hazard planning, company Experience Modification Rate (expectation less than 1.0), OSHA Recordable Case Rate (expectation less than 3.2), and OSHA Lost Workday Case Rate (expectation .64 for services and 3.0 for construction). The ESH&Q organization will independently review the questionnaire and denote agreement with proceeding with subcontractor. If concerns arise that can be overcome, the ESH&Q organization will work with the Project Manager and subcontractor to put a corrective action plan in place. c) flow down of 10 CFR 851 compliance to subcontractors and lower-tier subcontractors denoting failure to comply with CHPRC safety plans and procedures or an

approved subcontractor Safety Management System Plan may be subject to financial penalties. d) CHPRC will establish blanket master teaming agreements with certain subcontractor, to strengthen teamwork, provide work continuity to maximize project execution, and ultimately improve safety performance as the CHPRC safety culture is carried forward by our subcontractors. e) a Job Hazard Analysis (JHA) will be prepared by the CHPRC Project Manager on a graded approach for each project identifying anticipated hazards. f) Employee Job Task Analysis (EJTA) will be prepared for each subcontractor working on site outlining attributes of job expectations to identify medical monitoring requirements, training requirements, safety issues requiring personal protective equipment (PPE) etc. g) Pre-job meetings will be conducted daily, tailored to the complexity of project to outline scope, hazards, identification of possible error-likely situations and remedies, and to solicit employee/subcontractor feedback. h) On a graded approach, based on complexity and hazard of task, a dedicated CHPRC field project subcontractor oversight team including project management and ESH&Q safety professionals (e.g. Project Manager, , Construction Engineer, Support Engineer, QA Engineer, etc.), will be assigned to each project and will be present in the field during subcontractor work activities to manage all facets of day-to-day work execution (beyond a MBWA approach).

Subcontractor Safety Focus

A key element of our SB strategy is project management involvement. Project Managers complemented with safety professionals will be in the field to oversee the safe technical execution of SB contractors work activities. Attachment I – Proposed Subcontractor ISMS Flow-Down Requirements, outlines the flow down of ISMS principles to all subcontractors performing on-site work scope.

15.0 Small Business Outreach and Equitable Opportunity to Compete

Pursuant to FAR 52.219-9 (d) (8), efforts that will be conducted to assure that SB concerns have an equitable opportunity to compete for subcontracts include:

- A. Outreach efforts to obtain sources:
 - (1) Contacting SB, SDB, WOSB, VOSB, service disabled veteran-owned, and HUBZone associations.
(Buyers are encouraged to use directories and databases of federal, state, local, and private organizations to reach small businesses.)
 - (2) Contacting federal, state, local, and private SB development organizations.
 - (3) Attending and participating in procurement conferences, trade fairs, etc.
 - (4) Obtaining sources from the CCR.
 - (5) Using the Internet to attract new sources.
 - (6) Compiling solicitations to facilitate SB participation in subcontracting opportunities. Ensure SB concerns have an equitable opportunity to compete for subcontracts.
 - (7) Working with CHPRC and local/regional SB advocate organizations, developing and maintaining a comprehensive source list of SB, SDB, WOSB, HUBZone, VOSB, and Disabled Veteran concerns for use by the

projects in supporting preparation of site bidders lists for solicitations of goods and services.

- B. Internal efforts to guide and encourage purchasing personnel
 - (1) Presenting workshops, seminars, conferences, and training programs, including training to use the CCR.
 - (2) Establishing, maintaining, and using SB source lists, guides, and other data for soliciting sources for subcontracts.
 - (3) Monitoring activities to evaluate compliance with the subcontracting plan.
 - (4) Maintaining a list of trip reports and other documentation on the outreach activity attended, including new sources along with recommendations to buyers to include these sources in the next appropriate solicitation. Perform follow-up with buyers regarding the use of the new sources.
- C. Outreach Events
 - (1) Develop an annual list of outreach events and activities to attend and participate in.
 - (2) Obtain a list of outreach activities to attend from the DOE SB Program Manager.
 - (3) Tally the list of events attended by the end of the fiscal year.
 - (4) Participate, or ensure participation of company representatives in SB, SDB, WOSB, HUBZone, VOSB, and Disabled Veteran concerns trade associations, seminars, business opportunity workshops, and outreach programs.
 - (5) Strengthen relationships with SB and procurement trade associations and local/regional business development organizations including Tri-City Industrial Development Council.
 - (6) Participate in the CHPRC Vendor Forums to showcase the PRC project and establish the foundation for a network of economic opportunity for small businesses.
- D. Additional efforts to be undertaken:
 - (1) Education courses for buyers, etc.
 - (2) SB web page development.
 - (3) Acquisition planning to include SB subcontracting opportunities.
 - (4) Partnering/teaming arrangements with SB subcontractors.
 - (5) Internal Small Business Policy development, including a policy statement from the Chief Executive Officer (CEO), President, or Manager.
- E. Utilization of External SB Advocates to Conduct the SB Subcontracting Program. Work with
 - (1) SBA Procurement Center Representative.

- (2) SB Develop Centers and Minority Business Development Centers.
- (3) Minority Supplier Development Councils.
- (4) other SB organizations.

16.0 Indirect Costs

Pursuant to FAR 52.219-9 (d) (6), indirect costs are not included in the goals under this subcontracting plan because the proposed baseline by Work Breakdown Structure is estimated as direct costs with no indirect cost rates or allocations.

17.0 Federal Flowdown Commitment

Pursuant to FAR 52.219-9 (d) (9) - Utilization of Small Business Concerns, CHPRC will include this flowdown requirement in all subcontracts that offer further subcontracting opportunities, CHPRC will require all subcontractors (except SB concerns) that receive subcontracts in excess of \$550,000 (\$1,000,000 for construction) to adopt a plan similar to the plan that complies with the requirements of this clause.

Such plans will be reviewed by comparing them with the provisions of Public Law 95-507, and ensuring that all minimum requirements of an acceptable subcontracting plan have been satisfied. The acceptability of percentage goals shall be determined on a case-by-case basis depending on the supplies/services involved, the availability of potential SB, SDB, WOSB, HUBZone, VOSB, service-disabled veteran-owned small businesses, and prior experience. Once approved and implemented, plans will be monitored through the submission of periodic reports, and/or, as time and availability of funds permit, periodic visits to subcontractors' facilities to review applicable records and subcontracting program progress.

18.0 Use of Mandatory Sources of Supply or Services

Pursuant to FAR 52.208-9, certain supplies or services are required to be obtained from nonprofit agencies operated by the Committee for Purchase From People Who Are Blind or Severely Disabled under the Javits-Wagner-O'Day Act (JWOD), from the Defense Logistics Agency (DLA), General Services Administration (GSA), or the Department of Veterans Affairs (VA). Based on these requirements, the CHPRC proposed baseline does not have plans to procure supplies and services requiring these mandatory sources.

19.0 Price Evaluation Preference for HUBZone

Pursuant to FAR 52.219-4 - Notice of Price Evaluation Preference for HUBZone Small Business Concerns, CHPRC will provide an evaluation preference for a HUBZone proposal by adding a factor of 10 percent to the price of all offers, except offers from HUBZone concerns that have not waived the evaluation preference; or are otherwise successful offers from SB concerns. The factor of 10 percent will be applied on a line item basis or to any group of items on which award may be made. Further, a SB concern that is both a HUBZone and SDB will receive the benefit of both the HUBZone price evaluation preference and the SDB price evaluation adjustment (FAR clause 52.219-23).

20.0 Government Supply Sources

Pursuant to FAR 52.251-1 - Government Supply Sources, CHPRC will pursue from the Contracting Officer an authorization to use Government supply sources (e.g. General Services Administration [GSA]) in the performance of this contract. It is recognized that title to all property acquired by CHPRC under such an authorization shall vest in the Government unless otherwise specified in the contract, or is consistent with the provisions of the FAR clause entitled "Government Property," except its paragraphs (a) and (b), for all property acquired under such authorization.

21.0 Utilization of Environmentally Preferred Purchasing for Desktop or Laptop Computers or Monitors

Pursuant to the Clause H.43, when the CHPRC purchases desktop or laptop computers or monitors for this contract, the CHPRC will specify or deliver Electronic Product Environmental Acquisition Tool (EPEAT) registered products conforming to the IEEE (Institute of Electrical and Electronics Engineers, Inc.) 1680-2006 Standard, provided such products are available, are life-cycle cost efficient, and meet applicable performance requirements of EPEAT-registered computer products.

22.0 Reporting

Pursuant to Clause H.40 and FAR 52.219-9 (d) (10), and FAR 52.219.9 (j), CHPRC will:

- (i) Cooperate in any studies or surveys or submission of reports as may be required by the DOE or the SBA.
- (ii) Submit periodic reports so that the Government can determine the extent of compliance by CHPRC with this subcontracting plan. CHPRC will report actual performance toward SB goals and self-performed work goal, to the DOE_RL, , on a quarterly basis. CHPRC will measure awards to SBs based on the total value of subcontracts and purchase orders placed during each fiscal year. In addition, from a SB reporting perspective, CHPRC will require each prospective subcontractor to submit a Representation and Certification form denoting their business size, classification, and status [SB, SDB, WOSB, HUBZone, VOSB, Disabled Veteran], which will be validated per the CCR database. Each CHPRC subcontract award includes a vendor code. Monthly SB statistics will be generated based on information contained within those codes.
- (iii) Report SB socioeconomic achievement data on the Standard Forms (SF) 294 - Subcontracting Reports for Individual Contracts, and SF295 - Summary Subcontract Reports, via the eSRS system, on a semi-annual basis, as required.
- (iv) Ensure that the large business subcontractors agree to submit SF294 - Subcontracting Reports for Individual Contracts semi-annual reports to the eSRS system as required.

- (v) Provide information that will allow applicable subcontractors to fully comply with the statutory requirements of FAR 19.702, The Small Business Subcontracting Program Statutory Requirements.
- (vi) Submit procurement forecast data to the Small Business Forecast Database on a semi-annual basis.

23.0 Records Management

Pursuant to FAR 52.219-9 (d) (11), the types of records that will be maintained to demonstrate the procedures adopted ensure compliance with the requirements and goals of this Subcontracting Plan include:

- (i) Source lists (e.g., Hanford Registration or CCR), guides, and other data that identify SB, SDB, WOSB, HUBZone, VOSB, and Disabled Veteran concerns.
- (ii) Organizations contacted in an attempt to locate sources that are SB, SDB, WOSB, HUBZone, VOSB, and Disabled Veteran concerns.
- (iii) Records held by procurement staff on subcontract solicitations resulting in an award of more than \$100,000 indicating:
 - Whether SB, SDB, WOSB, HUBZone, VOSB, and Disabled Veteran concerns were solicited and,
 - If applicable, the reason award was not made to a SB concern. (if not, why not).
- (iv) Records of any outreach efforts to contact:
 - Trade associations
 - Business development organizations
 - Conferences and trade fairs to locate SB, SDB, WOSB, HUBZone, VOSB, and Disabled Veteran concerns.
 - Veterans service organizations.
 - Records of internal guidance and encouragement provided to buyers through workshops, seminars, training, etc.; and monitoring performance to evaluate compliance with the program's requirements.
- (v) On a contract-by-contract basis, records to support award data submitted by CHPRC to the government, including the name, address, and business size of each subcontractor.

24.0 Liquidated Damages – Subcontracting Plan

Pursuant to FAR 52.219-9 (i), FAR 52.219-16, and B.10 Clause, CHPRC recognizes that not making a good-faith effort to meet subcontracting goals committed in this subcontracting plan, may invoke Clause B.10 – Small Business Subcontracting Fee Reduction.

25.0 Plan Implementation

Pursuant to FAR 52.219-9 (e), CHPRC will perform the following functions to implement this plan effectively to the extent consistent with efficient cost-reasonable performance:

- (vi) Assist SB concerns by arranging solicitations, time for preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation by such concerns. CHPRC will make reasonable efforts to give as many SB concerns as possible an opportunity to compete over a period of time.
- (vii) Provide adequate and timely consideration for use of SB concerns when deciding if CHPRC should perform the work or procure it from another source.
- (viii) Contact, counsel, and discuss subcontracting opportunities with representatives of small business concerns.
- (ix) CHPRC will require and rely upon the subcontractor's business size representations and certification (FAR 52.204-8) for SB, SDB, WOSB, HUBZone, VOSB, and Disabled Veteran concerns. HUBZone and SDB status will be verified by receipt of a SBA certification document or by accessing the list of certified HUBZone and SDB maintained by the SBA in the CCR database (FAR 52.204-7). Notice will be provided to subcontractors concerning penalties and remedies for misrepresentation of business status.

26.0 Administrator of Subcontracting Plan

Pursuant to FAR 52.219-9 (d) (7), the following individual has been named to administer this

Subcontracting Plan:

Name: TBD
Title: Small Business Advocate
Address: TBD
Richland, WA 99354
Telephone: TBD

Additionally, the Small Business Advocate's specific duties as they relate to the CHPRC Small Business Subcontracting Plan are as follows:

- A. Monitor subcontracting goal progress on a monthly basis and provide monthly assessment reports to the CHPRC procurement staff and quarterly to the Richland Contracting Officer.
- B. Provide adequate and timely consideration of the potentialities of SB, SDB, WOSB, HUBZone, VOSB, and Disabled Veteran concerns when working with CHPRC field personnel in determining "make-or-buy" decisions.

- C. Ensure, in CHPRC acquisition of goods and services, that SB, SDB, WOSB, HUBZone, VOSB, and Disabled Veteran concerns are provided the maximum opportunity practicable to compete for subcontracted work and purchased materials within the framework of the proposed CHPRC contract.
- D. Maintain an effective outreach program by sponsoring and attending regional and national procurement conferences and trade fairs to locate additional qualified SBs. Increase community awareness through participation in and attendance at community organization meetings (i.e., Chambers' of Commerce, vendor forums and symposiums, etc.) and direct SB solicitations. Ensure vendor accessibility to future subcontracting opportunities by monitoring and updating the external CHPRC procurement website.
- E. Interact with other CHPRC contractors, the DOE-RL, the Office of River Protection (ORP), and Hanford Small Business Advocacy offices. After meeting with vendors interested in subcontracting opportunities, forward vendor profiles to technical staff and procurement staff.
- F. Meet one-on-one with vendors. Communicate information to procurement staff and management in the field related to the vendor's area of expertise.
- G. Ensure the establishment and maintenance of records of the total dollar value of awards to SB, SDB, WOSB, HUBZone, VOSB, and Disabled Veteran concerns.
- H. Prepare and submit semi-annual eSRS reports as required by FAR 52.219-9 on direct procurements to the RL Contracting Officer.
- I. Developing and promoting company-wide policy initiatives that demonstrate the company's support for awarding contracts and subcontracts to SB concerns, SDB concerns, WOSB concerns, VOSB concerns, service-disabled veteran-owned small business concerns, and HUBZone concerns.
- J. Ensuring the integrity of supplier information in the Hanford Registration or CCR through a series of controls that include a review of Certifications and Representations of new suppliers. Ensure that supplier NAICS codes and socioeconomic classifications are included in supplier descriptions.
- K. Periodically monitoring the procurement staff and routinely providing new SB and socioeconomic business sources. Although the Program Administrator is not required to monitor credit card purchases because they are below the micro-purchase threshold of \$2,500, develop a SB supplier list for all credit card holders and periodically add new sources to the list.
- L. Randomly reviewing procurements to ensure they permit the maximum possible participation of SBs, SDB, WOSBs, VOSBs, service-disabled veteran-owned small businesses, and HUBZones.
- M. Randomly reviewing solicitations to remove statements, clauses, etc., that restrict or prohibit maximum participation by SB concerns.

- N. Randomly reviewing evaluation documentation when proposals/bids from small businesses are not selected for award.
- O. Monitoring the compliance of subcontractors responsible for subcontracting plan requirements under “flow down” provisions.
- P. Attending or arranging for the attendance of company counselors at SB workshops, seminars, procurement fairs, trade fairs, and conferences.
- Q. Conducting or arranging for training of purchasing personnel regarding implementation of the SB subcontracting program.
- R. Ensuring that SBs are made aware of the Credit Card Program and how to participate in it.
- S. Coordinating the facility’s activities during the conduct of compliance reviews by Federal agencies.
- T. Coordinating actions to participate in DOE’s Mentor-Protégé Program.

27.0 Attachments

- A. Small Business Capabilities Overview for East Tennessee Materials & Energy Corporation, Inc., a wholly owned subsidiary of Perma-Fix Environmental Services (M&EC/Perma-Fix)
- B. Small Business Capabilities Overview for GEM Technology International Corporation
- C. Small Business Capabilities Overview for Babcock Services Inc.
- D. Small Business Capabilities Overview for ARES Corporation
- E. Small Business Capabilities Overview for INTERA Incorporated
- F. Small Business Capabilities Overview for EnRep Inc.
- G. Small Business Capabilities Overview for Ascendent Engineering Safety Solutions, LLC
- H. Mentor Protégé Abstracts with Project Services Group and AGVIQ, LLC. and CHPRC Partners Mentor-Protégé Plans
- I. Proposed Subcontractor ISMS Flow Down Requirements

28.0 Approvals

THIS SMALL BUSINESS SUBCONTRACTING PLAN IS SUBMITTED BY:

Signature: 

Typed Name: John Lehew

Title: Program Manager

Date: September 13, 2007

PLAN ACCEPTED BY:

Signature: _____
Typed Name: Jenise Connerly

Title: Contracting Officer, Richland Operations Office
U.S. Department of Energy

Date: June 19, 2008

ATTACHMENT A – SMALL BUSINESS CAPABILITIES OVERVIEW FOR EAST TENNESSEE MATERIALS & ENERGY CORPORATION, INC., A WHOLLY OWNED SUBSIDIARY OF PERMA-FIX ENVIRONMENTAL SERVICES (M&EC/PERMA- FIX)

East Tennessee Materials & Energy Corporation, Inc., a wholly owned subsidiary of Perma-Fix Environmental Services (M&EC/Perma-Fix) is a professional waste management company that provides hazardous, mixed, and industrial waste management services and environmental engineering and consulting services to industrial and commercial customers and the U.S. Government. M&EC/Perma-Fix was founded in 1990 as a treatment and reclamation company for hazardous and industrial waste. The company completed an early stage public offering in December 1992 to facilitate a series of acquisitions, primarily of industrial wastewater technologies and facilities. M&EC/Perma-Fix is a SB under NAICS Code 562910 – Environmental Remediation (500 employees).

Corporate Headquarters: M&EC/Perma-Fix is based in Atlanta, Georgia. They have eight major waste treatment and processing facilities, five service centers, and one consulting office located across the U.S.. M&EC/Perma-Fix has evolved over the years by developing unique treatment technologies and acquiring permitted waste treatment facilities. The company has completed 14 acquisitions since its founding in 1990. Presently, the company has three major business segments: industrial, nuclear and engineering.

Industrial Services provides treatment processing and recycling of hazardous and non-hazardous waste at six major facilities located in the southern and midwestern U.S. The facilities use proprietary technologies to recycle and treat industrial and hazardous waste.

Nuclear Services presently operates three facilities and a field service group. The group's major focus is the treatment of mixed (nuclear and chemically hazardous) waste. M&EC/Perma-Fix provides turnkey mixed-waste treatment and disposal services that minimize their customers' liability with timely and compliant disposition of these most difficult waste management challenges. M&EC/Perma-Fix accomplishes this by operating four mixed- and low-level waste treatment facilities, which maintain radioactive materials licenses and RCRA part B permits. M&EC/Perma-Fix is the only commercial company in the U.S. capable of treating the full scope of low-level mixed waste (e.g. characteristic and listed wastes). M&EC/Perma-Fix facilities are audited by federal and state regulatory agencies to ensure compliance with their radioactive materials licenses and RCRA permits. With over \$45 million of investment in facilities and technologies, M&EC/Perma-Fix offers the most comprehensive mixed-waste treatment facilities available in the U.S. .

Engineering Services are located in St. Louis, Missouri, and provide environmental engineering and regulatory compliance services to industrial and other regulated clients throughout North America.

M&EC/Perma-Fix is active in the research and development of technologies that allow it to address its customers' needs. To date, the M&EC/Perma-Fix R&D efforts have resulted in the

granting of two patents and the filing of an additional 11 pending patent applications. Their flagship technology, the M&EC/Perma-Fix process, is a proprietary, cost-effective, treatment technology that converts hazardous waste into non-hazardous material. Subsequently, M&EC/Perma-Fix has developed M&EC/Perma-Fix II, a patent pending multi-step treatment process that converts hazardous organic components into non-hazardous material. M&EC/Perma-Fix II is particularly important to the Company's mixed waste strategy.

ATTACHMENT B – SMALL BUSINESS CAPABILITIES OVERVIEW FOR GEM TECHNOLOGY INTERNATIONAL CORPORATION

GEM Technology International Corporation (GEM Technology) is an award-winning minority woman owned, small disadvantaged business and a successful graduate of the Small Business Administration 8(A) program in 2002. GEM Technology provides safeguards and security (S&S), engineering, environmental safety, and health, emergency management/preparedness, threat and vulnerability analyses (VA)/assessments, and program management consulting services to federal, state, and local governments, and to large corporations. GEM Technology is an advanced security firm with over 15 years of progressively more responsible experience in S&S, emergency management/preparedness, and program/project management services support.

Over the last 15 years GEM Technology has provided highly qualified S&S support to federal clients: the DOE, the National Nuclear Security Administration (NNSA), and the Department of Homeland Security (DHS). This includes the development and implementation of national security policy in the physical protection of nuclear weapons, weapon components, special nuclear materials (SNM), classified and sensitive information, and classification/declassification, as well as emergency management /preparedness support. GEM Technology conducts detailed self-assessments /audits/inspections of all disciplines of S&S (Program Management, physical security, protective force (PF), material control and accountability (MC&A), personnel security, information security, operations security (OPSEC), and technical security) as well as complete VA and Site Safeguards and Security Plans (SSSP) at most of the DOE and NNSA sites.

GEM Technology has the demonstrated capability to support the PRC in the area of S&S. GEM Technology conduct of oversight and performance assurance of S&S within DOE/NNSA has required GEM Technology to have experienced and knowledgeable staff in all of the topical and sub topical areas of S&S. GEM Technology is fully knowledgeable and current on the operations that occur at the Hanford site.

GEM Technology conduct of self-assessments, inspections, surveys, and other reviews at DOE and NNSA sites/facilities includes all disciplines of security (Protection Program Management, Protection Program Operations, Facility Clearances, Deviations, Information Security/ Classified Matter Protection and Control, Badging and Security Education/Awareness, Technical Security Countermeasures [TSCM], TEMPEST, Communications Security [COMSEC], Telecommunications Security, Security Incidents, Foreign Ownership, Influence and Control [FOIC], Foreign Visits and Assignments, Foreign Travel, Classification, Personnel Security/Access Authorizations, Human Reliability Program, Workplace Substance Abuse Program, OPSEC, PF, and Physical Security Systems) and ensures full and up-to-date knowledge of security requirements and operations. GEM Technology also develops assessment and audit processes, tools and procedures, as well as assessment plans and reports containing recommendations and evaluation of proposed corrective actions to include electronically tracking all corrective actions.

GEM Technology is a premier provider for the conduct of VAs. Staffed with professional subject matter experts, GEM Technology experience base in the VA discipline includes VA program

plan development with schedules and milestones for all required actions, facility characterization, threat characterization, target identification, blast/explosive effects, defensive and offensive tactics, scenario/attack plan formulation, conduct of tabletop exercises, computer simulation modeling, insider analysis, critical system elements identification for testing, and force-on-force (FOF) and other performance testing to determine overall risk and system effectiveness. GEM Technology is fully knowledgeable and up to date on security requirements and operations in assessing the effectiveness of personnel security measures, physical security systems, and PF response in the protection of assets. Based on the results of the VA, GEM Technology also develops the SSSP for DOE and NNSA sites/facilities, which provides summary information used to describe S&S programs, vulnerabilities, system effectiveness, and proposed upgrades.

GEM Technology has highly qualified staff with years of MC&A policy development, as well as first-hand assessment and implementation experience in the area of nuclear material measurements. This experience base includes the review and development of nuclear material measurement programs with focus on nuclear material receipts, shipments, and nuclear materials in inventory. GEM Technology provides technical assistance in the management and maintenance of measurement control programs including statistical models, propagation of error, measurement control programs, inventory differences and shipper/receiver differences and the performance of measurement systems. GEM Technology has experience in monitoring, analyzing, collecting, documenting, reporting, and recommending solutions to inventory differences, discard limits, and normal operating losses. GEM Technology can review, update, and maintain the Hanford MC&A Plan and specific implementing procedures to ensure compliance with DOE policy.

GEM Technology is also well versed in the implementation and maintenance of containment and surveillance (C/A) systems to include their design, testing, and maintenance. The GEM Technology staff has experience in the investigation and resolution of nuclear material alarms and maintenance of planned and in-place Tamper Indicating Device (TID) and Daily Administrative Check (DAC), material surveillance (two person rule, etc.), and material transfer programs.

ATTACHMENT C – SMALL BUSINESS CAPABILITIES OVERVIEW FOR BABCOCK SERVICES, INC.

Babcock Services Inc. (Babcock) is a small business specializing in providing quality support services to the nuclear and commercial construction industries. The company specializes in architectural and engineering services, environmental engineering services, project management, and construction management services in the areas of facility operations and maintenance, environmental clean-up, and waste management at DOE facilities. The company also provides engineering services, environmental engineering services, architectural and construction management services, environmental clean-up and waste management in the commercial and industrial arenas. The corporate headquarters for Babcock is located in Richland, WA. Its staff consists of 69 full-time project managers, engineers, supervisors, technicians, and project control specialists in the areas of design, construction equipment maintenance, facility operations and decommissioning, project planning, and computerized maintenance management systems. Babcock will augment projects with contract personnel who have the specific qualifications needed to ensure that the project is completed successfully. Babcock was founded in 1996 and is classified as a Small Business by the U.S. Small Business Administration.

Babcock has an experienced team of health physics, engineers, and project management specialists, combined with subject matter experts unique to radiological decommissioning. The principal managers and engineers of Babcock have over a century of combined experience in the development and application of radiation protection standards, radiological engineering, ALARA, radwaste, site characterization, Final Status Survey and site close-out. Babcock also provides expertise in environmental health and safety, pathway analysis and dose assessment, and compliance with the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) protocols.

Babcock provides a broad range of operational, technical, maintenance and professional services from baseline evaluation and characterization, initial project planning and engineering through project management and performance to readiness assessment and project closeout. Babcock has the infrastructure to provide technical and operational services in the following arenas using a variety of contract vehicles that will provide the best value possible. Examples of these services are:

Project & Construction Management

Experienced and qualified professionals for large-scale start-up project management (conceptual design through readiness review) to small-scale projects with specific scopes of work. Range of services: construction management, field supervision, and safety.

Engineering Design and Review

Radiological, equipment, and system engineers with degrees/expertise in all major disciplines. Provide design and authorization bases development and review services.

Program, Procedure and Plan Development

Demonstrated expertise in the development of project and work control programs, plans, and procedures, including Site Close-out Plans (LTP), Characterization and Final Status Survey Plans, Sample & Analysis Plans, Health & Safety Plans and Operational Radiation Protection Procedures. Babcock possesses a proven field-capable set of Operational Radiation Protection procedures that can be easily adapted and implemented to meet the needs of their clients.

Regulatory Compliance

Industry-recognized professionals with extensive experience in the application of federal, state, and local regulatory requirements in a field environment.

Demonstration of Compliance with Facility and Site Release Criteria

Unmatched ability in the application of MARSSIM & NUREG 5849, Survey Design and Implementation, FSS Data Base Management, DCGL determination and the use and application dose assessment computer software (such as RESRAD and D&D).

Planning/Estimating/Scheduling

Work package planners and estimators, procedure/technical writers, activity and WBS level schedulers, and system/equipment engineers.

Decommissioning Preparedness & Program Assessment

Detailed Cost-Benefit Analysis Development, PSDAR Development, Evaluation of Cost Estimates, Initial D Plan Development, and Staff Planning.

Turnkey, Project and Task Remediation and Decommissioning Services

Project management, engineering, planning, scheduling, technical, implementation, and support services related to facility and site remediation and decommissioning/deactivation as well as environmental restoration projects.

Internal Assessment and Readiness Review Support

Assist in preparation for formal audits and reviews by performing internal assessments of program implementation. Also provide readiness review support prior to system/facility start-up.

Operational Radiation Protection Applications

Provide field work coverage, exposure control (ALARA), radiological surveys and surveillances. Ensure field compliance with Radiation Work Permits; implement posting and access control requirements and materials unrestricted release protocols.

Hazardous and Radioactive Waste Handling & Disposal

Provide technical expertise in the characterization, handling, packaging, transportation, and disposition of Hazardous and Radioactive Waste materials.

Technical Support Activities

Proven professionals who specialize in the development and implementation of technical support services in the areas of Dosimetry, Radiological Instrumentation Maintenance and Control, Chemistry and Radiochemistry, the use and maintenance of Analytical Counting Equipment and sample analysis.

Structure & Material Decontamination Techniques

Experienced in the application of various decontamination techniques from the performance of simple-hand cleaning to the application of innovative and new decontamination technologies.

Training Program Assessment, Development and Implementation

Perform formal baseline evaluations to determine type and level of training program needed as well as assessments of existing training programs to identify areas for improvement. Develop, upgrade, and implement training programs as directed by the customer.

Quality Assurance and Quality Control Program Development and Implementation

Provide procedure development, implementation, audit and surveillance services for new and existing quality assurance/quality control (QA/QC) programs.

Computerized Maintenance Management System (CMMS) Development and Installation

Development of system requirements, database structure, and report requirements as well as installation and implementation of software and hardware.

ATTACHMENT D – SMALL BUSINESS CAPABILITIES OVERVIEW FOR ARES CORPORATION

ARES Corporation (Applied Research and Engineering Sciences) (ARES) is a VOSB company specializing in Engineering, Risk Management, Facility Management, Software/IT, and Project Management in the U.S.. ARES lives up to its Mission *to provide superior-quality products and services, on time and within budget*. With a top-notch team of more than 400 scientists, engineers, and other professionals, ARES focuses on solving industry's most complex technical challenges in the key areas of energy, defense, aerospace, and infrastructure.

ARES specializes in providing innovative and effective solutions for customers by combining top-quality products and services with the right mix of technical skill and management experience. ARES offers its products and services in broad categories summarized below.

Engineering and Design Services

ARES provides integrated engineering and design solutions to government and industry across all engineering disciplines. They specialize in complex projects that often entail high levels of risk to plant facilities, construction workers, the public, and the environment. ARES zeroes in on the best project solutions that quantify and minimize these risks while achieving cost-effective results. ARES' expertise has been applied to a variety of engineering areas, such as environmental clean-up in radiological, toxicological, and commercial facilities; chemical processing plants; fluid and power systems for linear accelerator projects; seismic and non-linear structural analyses; specialty equipment design, energy conservation; and alternative energy development.

Facility Management Services

ARES applies a risk-based approach to asset management and maintenance services. They have built a solid reputation of bringing a full range of quantitative risk assessment skills and expertise to this arena with great success. Their approach must often be innovative, specific, and highly technical to achieve the mission's objectives, but ARES track record of client satisfaction and repeat business can speak for itself. ARES recognizes the important relationship between facility infrastructure investments and mission success. ARES provides numerous services in this area including Risk-based Asset Management, Facility and Infrastructure Sustainment, Deferred Maintenance Prioritization and Scheduling, Integrated Master Program Plans, Nuclear Facility Conduct of Operations and Maintenance Activity Scoring Process. Their business strategy, experience, and valuable lessons-learned drive innovative solutions while meeting operation and budget constraints.

Project Management Services

ARES uses the PRISM suite of software products. PRISM Project Estimator, PRISM Project Manager, PRISM Enterprise Suite, PRISM Risk Manager and PRISM Executive are flexible enough to be used in virtually any industry—on any size project—and are in use on major DOE, mining, petrochemical and transportation projects throughout the world. PRISM Project Manager

contains the full functionality required in an Earned Value Management System (EVMS) and is in use on many government projects and sites across the U.S.. Intergraph Corporation is the worldwide reseller of PRISM products and has combined Prism's cost and engineering management functionality with their materials management and plant design software. In addition to software products, ARES provides a full range of project and construction management support services, including project definition, project planning, fabrication/construction services, estimating, QA/QC, scheduling, and cost engineering.

Safety and Risk Management Services

ARES is a world leader in risk management products and services for many aerospace, nuclear, defense, and chemical industry clients, as well as government agencies. ARES' specialties include probabilistic risk assessment (PRA), safety and mission assurance, reliability engineering, decision analysis, and risk management. ARES applies methodologies that run the gamut from high-level qualitative analyses to complex probabilistic risk, safety, and reliability assessments. ARES has also developed a rigorous approach to conducting threat and vulnerability assessments and has applied this approach to defense installations and commercial facilities. These methods and algorithms, which have been encoded into software products, enable their clients to cost effectively design and implement security strategies. ARES' software tools, such as AVERT, identify the vulnerabilities and demonstrate how successful the proposed enhancements to security would be in the event of an attack

Software Products and Information Technology Services

ARES has designed custom, state-of-the-art software products that automate our services and/or integrate customer and ARES' solutions. ARES has experience in all phases of the software development life cycle including project management, requirements analysis, design, development, testing, deployment, maintenance, and training. ARES' experts develop software tools that are applied in such industries as nuclear cleanup, energy, aerospace, infrastructure, and defense. ARES' IT Team is an integral part of the solution process for providing expert systems support, security, and enterprise-class applications. ARES has also designed specialized software products that are used in risk engineering, vulnerability assessments, bioterrorism reporting, and knowledge management. ARES' IT division provides a full range of technical and professional services including the assessment of the life-cycle process of information assets to protect data, strategic IT leadership in systems architecture, design, and deployment and systems administration and support.

ATTACHMENT E – SMALL BUSINESS CAPABILITIES OVERVIEW FOR INTERA INCORPORATED

INTERA Incorporated (INTERA) is a SB providing unique expertise for supporting several scope areas of the Hanford PRC. These include Project Integration, Modeling and Risk Assessment, Remediation, and Groundwater and Deep Vadose Zone support. Relevant expertise and experience includes:

- More than 32 years of quantitative groundwater expertise. INTERA developed the first fully three-dimensional coupled flow, energy transport, and contaminant transport code in 1975 for the United States Geological Survey (USGS).
- An international reputation in performance assessment, probabilistic risk assessment, and uncertainty and sensitivity analyses methodologies. INTERA personnel have recently taught short courses internationally in these areas of technical expertise and have been a key player in the Yucca Mountain PA Program since 1991.
- Leadership in the development and application of numerical models to support environmental restoration programs in the areas of remedial alternatives analyses, system optimization, and regulatory compliance.
- Twenty-five years of experience in the characterization, modeling, and remediation of non-aqueous phase liquids (NAPLs) in both the vadose and saturated zones.

INTERA has been performing scientific and engineering support to commercial and government nuclear programs since the company was founded in 1974. They are a leader in the development and application of environmental models including groundwater and vadose zone flow and transport and repository performance assessment. INTERA has participated in multiple radioactive waste management projects, in the U.S., Canada, and overseas, designed to dispose of high-level waste (HLW), low-level waste (LLW), and TRU waste INTERA has a broad breadth of experience in U.S. government, commercial, and international programs.

INTERA Expertise and Experience in Supporting the PRC Scope

Project Integration

Project integration support is an important element of large remediation or waste isolation projects. INTERA brings expertise and experience in this scope area, particularly with risk assessment activity integration. INTERA capabilities in the areas of risk assessment activity integration include:

- Database/document configuration control
- Regulatory report preparation and review
- Code configuration control
- Development and review of assessment methodologies with a focus on consistency and integration with other Hanford activities
- Development and documentation of parameters and their distributions
- Review of model abstractions including their assumptions

Modeling and Risk Assessment

INTERA brings specific technical expertise in the area of modeling and integrated risk assessment. INTERA is specialized in the area of groundwater and vadose-zone modeling. Relevant capabilities for this scope area include:

- Radioactive fate and transport modeling
- Extensive MODFLOW experience and experience with a number of multi-phase, multicomponent codes (e.g., STOMP)
- Process model abstraction
- Integrated risk and performance assessment modeling
- Characterization of uncertainty for model inputs
- Uncertainty propagation and stochastic simulation
- Quantification of uncertainty in model outputs
- Global sensitivity/importance analysis of model results
- Development and application of distributed-processing clusters for Monte-Carlo analyses and parameter-estimation (i.e., Parallel-PEST)
- Training in uncertainty analysis and sensitivity analysis methods
- Risk communication to stakeholders

Remediation – Groundwater and Deep Vadose Zone

The recalcitrant groundwater and vadose zone environmental problems at Hanford include NAPLs as primary contaminants and risk drivers along with radioactive constituents. INTERA brings experience in the characterization and remediation of both radioactive NAPLs. This experience includes working on the Hanford carbon tetrachloride (CT) problem through modeling associated with a Phase I dense NAPL (DNAPL) investigation.

INTERA has over 15 years of specialized expertise and experience in characterizing, monitoring and remediating sites contaminated by NAPLs. In collaboration with academic institutions, such as The University of Texas at Austin and Rice University, INTERA has developed innovative techniques as well as numerical tools to better characterize and remediate NAPL-contaminated sites. They have also developed field procedures to collect and preserve field samples of NAPL to help ensure appropriate and accurate analyses. INTERA offers the unique combination of both laboratory and numerical simulation capabilities for design and interpretation and field capabilities to accurately detect and characterize NAPL source zones.

ATTACHMENT F – SMALL BUSINESS CAPABILITIES OVERVIEW FOR ENREP, INC.

EnRep, Inc. (EnRep) is a disadvantaged, minority WOSB with proven people and practical experience, some with more than 20 years, dedicated to environmental protection and stewardship.

EnRep people and processes provide a venue for clients to achieve compliance, workable processes and procedures, and a workforce knowledge base that leads to superior results, coupled with a reduction in liability and cost to their clients.

The EnRep client list includes some of the largest environmental management and remediation companies and government programs in the world; including CH2M HILL, Perma-Fix Environmental Services, Lockheed Martin, McDonnell Douglas, and the U.S. Army, just to name a few.

EnRep processes include detailed reviews and assessments to identify potential liability and weaknesses; a process and procedure development program designed to reduce conflict and confusion and enhance worker understanding of processes; training programs designed for the worker and management; and detailed assessments of implementation and effectiveness.

EnRep provides many environmental, regulatory compliance, and safety consulting services including:

- Environmental Training, Compliance, and Assessments
- OSHA, RCRA, & DOT Hazardous Materials Training
- Hazardous Waste Training
- DOT Hazardous Materials Training
- OSHA Hazardous Waste Operations and Emergency Response Training
- RCRA Compliance Audits
- Hazardous Waste Management Services
- Emergency Action/Fire Prevention Plans
- DOT Hazardous Materials Security Plans
- Remedial Action Activities
- Phase I Environmental Site Assessments
- Environmental Protection Agency (EPA) Reports

ATTACHMENT G – SMALL BUSINESS CAPABILITIES OVERVIEW FOR ASCENDENT ENGINEERING & SAFETY SOLUTIONS LLC

Ascendent Engineering & Safety Solutions, LLC (Ascendent LLC) is a veteran owned Environmental Remediation small business subcontractor. Ascendent LLC is comprised of two small businesses (Hukari Technical Services Inc. and Nuclear Safety associates) nationally recognized for their expertise in the nuclear industry. Ascendent LLC combines the strengths of these small businesses in providing staff augmentation services to the DOE in the areas of safety, licensing, engineering, and technical services. Areas of expertise include nuclear safety, shielding, *Radiological Engineering, Health Physic, Nuclear Safety, Readiness Assessment, Authorization Basis, Regulatory Interface, Chemical Safety, and Integrated Safety Analysis*. Early in 2006 Ascendent LLC was awarded a Blanket Master Contract to be the sole provider of staff augmentation in the areas of nuclear and criticality safety to CH2M-Washington Idaho LLC (CWI), the prime contractor for the Idaho Closure Project (ICP). Ascendent LLC was subsequently awarded a Blanket Master Contract to provide staff augmentation support in engineering, technical, professional, and administrative services to CWI, and to provide Engineering and Technical staff augmentation to Washington Closure Hanford (WCH).

ATTACHMENT H- MENTOR-PROTÉGÉ ABSTRACTS WITH PROJECT SERVICES GROUP (PSG) AND AGVIQ, LLC, AND CHPRC PARTNERS MENTOR-PROTÉGÉ PLANS

CHPRC has established two direct Mentor-Protégé Agreements with Project Services Group (PSG) and AGVIQ, LLC (AGVIQ), per Clause H.30 – Mentor-Protégé Program. Highlights of their capabilities are as follows:

Project Services Group

PSG is a small disadvantaged 8a certified small business specializing in cost and schedule project controls support. PSG provides planning and implementation support in all facets of project and construction management and SB operations including industrial , manufacturing, communications, public relations and advertising, financial and technical reports, business plans, accounting, training, records maintenance and retrieval, and business organization and lean management implementation.

AGVIQ LLC

AGVIQ is a subsidiary of the Tikigaq Corporation. Tikigaq Corporation is the Point Hope Village Corporation formed as a result of the Alaska Native Claims Settlement Act in 1971. AGVIQ is qualified as a minority owned (Native American Alaskan Native) SDB through the SBA'S 8(a) program. AGVIQ's market is environmental consulting, testing, planning, and site remediation in the federal and commercial sectors including:

- Environmental Engineering/Design
- Design-Build
- Investigation
- Reporting
- RCRA Closures
- Facility Decontamination

AGVIQ's regional and local capabilities can provide personnel, equipment, materials, and management to respond to multiple requests for environmental support at multiple sites, simultaneously. Currently, AGVIQ is the managing partner in two joint ventures under contract with the U.S. Navy in Norfolk, Virginia, and Charleston, South Carolina. These two multi-million dollar contracts require various environmental services to support remedial and removal actions including demolition, expedited/emergency response actions, pilot and treatability studies, and work plan development. AGVIQ also provides treatment plant/facility or system operations, maintenance, repair and operations, and traditional and innovative methods for a complete remedial action for environmentally challenged sites.

Major Large and Small Business CHPRC Partners Protégé Plans

Fluor Federal Services, Inc., Mentor Protégé

Fluor Federal Services, Inc., a CHPRC major large business subcontractor partner, has established a Mentor-Protégé Agreement with Randolph Construction Services Inc., (Randolph) is a small disadvantaged, women owned, 8a certified business specializing in sheet metal, mechanical, electrical, structural, fabrication, and architectural design-build and general construction. Randolph has implemented a full nuclear QA program based on ASME NQA-1 and Certified Welding Program to support the PRC challenges. Randolph will be mentored to expand their capabilities in green file construction and nuclear construction applications, such as fabricating equipment and barrier construction and demolition.

AREVA Federal Services, LLC Mentor Protégé

AREVA Federal Services, LLC, a CHPRC major large business subcontractor partner, has established a Mentor-Protégé Agreement with Cavanagh Services Group, Inc., (Cavanagh) is a small disadvantaged, women owned, HUBZone, 8a certified SB specializing in management; packaging; transportation; and disposal services including management services (i.e., technical support, logistics management, project management, waste management), truck and rail transportation (DOT-certified company, nationwide railroad services, nationwide motor carrier services, DOT shipment compliance inspections, transloading facilities, large component transport), equipment leasing/sales (intermodal containers, cargo containers, gondola rail cars, rail flatcars, boxcars, boxes, soft-sided packaging/bags), and management of disposal services using approved treatment, storage, and disposal facilities (radioactive, hazardous and industrial waste)..

East Tennessee Materials & Energy Corporation, Inc., a wholly owned subsidiary of Perma-Fix Environmental Services (M&EC/Perma-Fix) Mentor Protégé

M&EC/Perma-Fix, a CHPRC SB team member, has established a Mentor-Protégé agreement with GEM Technologies Inc., (GEM) an 8a certified, SDB specializing in engineering, construction, demolition, and maintenance. GEM has competitively bid, won, and executed fixed-price and firm unit price contracts at all three DOE and NNSA Oak Ridge sites over the past 3 years. GEM is a licensed General Contractor and has self performed many construction tasks and used specialty trade subcontractors for other construction services. Since 2000, GEM has provided BWXT Y-12 services including technical support services for configuration management; conduct of operations; facility startup; maintenance engineering, cost estimating, and planning; operational readiness reviews; environmental compliance, and safety analyses. GEM has also provided services on a defined project basis, including facility design and construction, engineering, startup services, QA/QC inspections, security fencing, earthwork and paving, and demolition. GEM also holds a Y-12 General Ordering Agreement for Construction Services. GEM has completed significant demolition, dismantling, and characterization projects in the past 2 years.

ATTACHMENT I – PROPOSED SUBCONTRACTOR ISMS FLOW DOWN REQUIREMENTS

1.0 Integration Of Environment, Safety, Health And Quality (ESH&Q) Into Work Planning And Execution [Dear 970.5223-1 (Dec 2000)]

1.1 General

- J. When performing Work under this Subcontract, the SUBCONTRACTOR shall perform work safely, in a manner that ensures adequate protection for employees, the public, and the environment, and shall be accountable for the safe performance of the Work. The SUBCONTRACTOR shall exercise a degree of care commensurate with the Work and the associated hazards. The SUBCONTRACTOR shall ensure that management of Environment, Safety, Health, and Quality (ESH&Q) functions and activities becomes an integral and visible part of the SUBCONTRACTOR's Work planning and execution processes. The SUBCONTRACTOR shall, prior to the performance of Work, ensure that:
1. Senior SUBCONTRACTOR management is actively engaged in the implementation, feedback and improvement of the SUBCONTRACTOR's Safety Management System (System).
 2. SUBCONTRACTOR line management is responsible for the protection of employees, the public, and the environment from activities arising out of performance under this Subcontract.
 3. Clear and unambiguous lines of authority and responsibility for ensuring ESH&Q requirements are established and maintained at all organizational levels. This shall be documented and communicated to all SUBCONTRACTOR employees by the SUBCONTRACTOR.
 4. Employees shall possess the experience, qualifications, skills, training and abilities that are necessary to execute their responsibilities under this Subcontract, including any applicable Occupational Safety and Health Administration (OSHA) requirements and standards.
 5. Employees entering the Hanford site or CHPRC-controlled facilities shall be dressed appropriately for the Work conditions and potential hazards as required by safety procedures and job hazard(s) analyses. When required by CHPRC policies or directives, personal protective equipment (hard hats, safety glasses, gloves, steel-toed shoes, etc.) must be worn as a condition of continued access to the Hanford site.
 6. Resources shall be effectively allocated to address ESH&Q programmatic and operational considerations. Protecting employees, the public, and the environment is a priority whenever Work is planned and performed.
 7. Before Work is performed, the SUBCONTRACTOR shall evaluate foreseeable hazards, determine planned protective measures, and as required, address OSHA requirements and standards. These evaluations shall be prepared by a certified Professional Engineer (PE) or qualified individual and establish an agreed-upon set of ESH&Q controls and

- requirements that, when properly implemented, provide adequate assurance employees, the public, and the environment are protected from adverse consequences.
8. The conditions and ESH&Q requirements to be satisfied for Work to be performed are established and agreed-upon by CHPRC and the SUBCONTRACTOR. These agreed-upon conditions and ESH&Q requirements are binding upon the SUBCONTRACTOR. The extent of documentation and level of authority for agreement shall be tailored to the complexity and hazards associated with the Work.
 9. Administrative and engineering controls to prevent and mitigate hazards are tailored to the Work being performed and any associated hazards. Emphasis must be on designing the Work and controls to reduce or eliminate the hazards, prevent accidents, and unplanned releases and exposures.
 10. The SUBCONTRACTOR's employees shall be actively involved in the Safety Management System (System), job hazard analysis, and pre-job safety reviews where employees are informed of foreseeable hazards and planned protective measures.
 11. Open and effective communication shall exist between the SUBCONTRACTOR and the Buyers Technical Representative (BTR) to support the management of ESH&Q issues and initiatives.
 12. Workers, fieldwork supervisors, and management shall continually ensure the adequacy of work processes, procedures, and equipment and correct deficiencies when identified.
- K. The SUBCONTRACTOR shall perform Work in compliance with CHPRC approved safety procedures or shall submit within thirty (30) working days after Subcontract award and annually thereafter to the CHPRC authorized procurement representative a SUBCONTRACTOR Safety Management System Plan (System) that is, at a minimum, equivalent to CHPRC's safety procedures for CHPRC approval. Should the SUBCONTRACTOR choose to use the CHPRC System, the SUBCONTRACTOR will notify the CHPRC authorized procurement representative in writing. The use of the CHPRC System requires the SUBCONTRACTOR access to, knowledge-of, and use-of referenced requirements and procedures. The SUBCONTRACTOR shall obtain electronic access to these documents to ensure the latest approved version is being applied to the Work. The SUBCONTRACTOR shall also ensure that all requirements are flowed down to lower-tier Subcontractors and the employees have access to, fully understand, and comply with the CHPRC safety procedures. Procedure compliance is mandatory for all Hanford site Work activities.
- L. Resources shall be identified and allocated to meet the safety objectives and performance commitments as well as maintain the integrity of the entire Safety Management System (System). Accordingly, the System shall be integrated with the SUBCONTRACTOR's business processes for Work planning, budgeting, authorization, execution, and change control.
- M. The SUBCONTRACTOR shall comply with, and shall cooperate with CHPRC in assuring compliance with, all applicable laws, regulations and directives. The CHPRC authorized procurement representative has identified specific requirements applicable to this Work in this Subcontract. The SUBCONTRACTOR shall meet all these requirements, including any

additional requirements, which the SUBCONTRACTOR identifies. The SUBCONTRACTOR shall cooperate with Federal and non-Federal agencies having jurisdiction over ESH&Q matters under this Subcontract. Where a conflict exists between regulations, requirements or standards, the SUBCONTRACTOR shall bring the conflict to the attention of the CHPRC authorized procurement representative, who shall resolve the conflict.

- N. The SUBCONTRACTOR shall promptly identify, evaluate and communicate to the CHPRC authorized procurement representative any noncompliance with the Safety Management System (System). If the SUBCONTRACTOR fails to provide the necessary communication to the CHPRC authorized procurement representative or if, at any time, the SUBCONTRACTOR's acts or failure to act causes substantial harm or an imminent danger to the environment, health and safety of workers or the public, CHPRC may issue an order stopping Work in whole or in part. Any stop Work order issued by CHPRC under this provision (or issued by the SUBCONTRACTOR to a lower-tier Subcontractor) shall be without prejudice to any other legal or contractual rights of CHPRC. In the event that CHPRC issues a stop Work order, CHPRC must issue an order authorizing the resumption of the Work before Work may resume. The SUBCONTRACTOR shall not be entitled to an extension of time or additional costs, fee or damages by reason of, or in connection with, any Work stoppage ordered in good faith in accordance with this provision.
- O. The SUBCONTRACTOR is responsible for compliance with the ESH&Q requirements applicable to this Subcontract. The SUBCONTRACTOR is responsible for flowing down the ESH&Q requirements applicable to this Subcontract to all lower-tier Subcontractors to the extent necessary to ensure compliance. The SUBCONTRACTOR shall include a provision substantially the same as these provisions in all lower-tier Subcontracts for Hanford site Work at a Government-owned or Government-leased facility. The SUBCONTRACTOR may require the lower-tier Subcontractor to submit a Safety Management System Plan for review and approval by the SUBCONTRACTOR and the CHPRC.
- P. As prescribed in 10 CFR 851, the SUBCONTRACTOR and lower-tier Subcontractors that fail to comply with CHPRC safety procedures or an approved SUBCONTRACTOR Safety Management System Plan may be subject to financial penalties under this SUBCONTRACT.

1.2 Specific Requirements (Unless Superseded By Specific Requirements Elsewhere In This Subcontract, The SUBCONTRACTOR Shall Comply With The Following Minimum Requirements.)

- Q. CHPRC safety requirements for the specific Work will be determined and be included in the Subcontract. The SUBCONTRACTOR shall identify and correct any hazardous or unsafe conditions, acts or instances of noncompliance.
- R. Prior to commencing Work on the Hanford site, the SUBCONTRACTOR shall identify a member of its staff as its designated "Safety Representative" to the CHPRC authorized procurement representative for approval. This notification shall include documentation on the assigned worker's qualifications and professional certifications. This worker shall have the authority and responsibility to ensure full compliance with CHPRC's Safety Management

System (System) or the implementation of the SUBCONTRACTOR's CHPRC approved System.

- S. The SUBCONTRACTOR shall obtain the following services from the Site Occupational Medical Contractor (SOMC): occupational medical evaluations, including return to work evaluations and work restriction reviews; medical surveillance evaluations; occupational primary care; health care center/first aid; work conditioning, care management, work site health programs including blood-borne pathogens and immunizations; behavioral health services, including employee assistance programs; and health information services, including services such as medical records and scheduling. The SUBCONTRACTOR shall coordinate these medical evaluations/services with the CHPRC authorized procurement representative.
- T. The SUBCONTRACTOR shall ensure that Environmental Health (EH) exposure monitoring equipment brought to the Hanford site is calibrated, maintained, and operated in accordance with sound EH practices to ensure data obtained is legally and technically defensible. The SUBCONTRACTOR shall use the data collection forms provided, upon request by the SUBCONTRACTOR, by the CHPRC authorized procurement representative. At the request of the CHPRC authorized procurement representative, the SUBCONTRACTOR shall provide any additional calibration and maintenance history for the equipment to CHPRC. The SUBCONTRACTOR shall assure that samples collected in airborne contamination areas are submitted to nationally accredited analytical laboratories, approved to accept EH samples. Cost of replacement or decontamination of EH monitoring equipment that has been radiological contaminated such that it cannot be released to the operator will be borne by the SUBCONTRACTOR.
- U. While on the Hanford site, the SUBCONTRACTOR shall operate motor vehicles only on hard-surfaced or gravel roads unless prior approval is obtained from the CHPRC authorized procurement representative. During high fire hazard periods, the SUBCONTRACTOR shall adhere to all restrictions for off-road travel, which include, but are not limited to, requiring vehicles to carry fire extinguishers, shovels and radio communications. CHPRC reserves the right to ban all off-road travel during extreme fire hazard periods.
- V. CHPRC shall determine if a post-award/pre-job meeting is required. The scope of this meeting will be conducted on a graded approach based on the nature of the Work.
- W. SUBCONTRACTOR compliance with CHPRC "Hoisting and Rigging" procedure and the Hanford Hoisting and Rigging Manual, DOE-RL-92-36 are required. The SUBCONTRACTOR may submit an equivalent SUBCONTRACTOR procedure to the CHPRC authorized procurement representative for CHPRC approval prior to commencing Work.
- X. The SUBCONTRACTOR shall perform electrical work de-energized, except for testing and troubleshooting governed by the CHPRC Electrical Safety Program, which is defined in CHPRC "Electrical Safety" procedure. The SUBCONTRACTOR may submit an equivalent procedure to the CHPRC authorized procurement representative for CHPRC approval. All SUBCONTRACTOR workers performing electrical work shall possess a current electrician's license issued by the State of Washington.

1.3 Required Notifications

- Y. The SUBCONTRACTOR shall immediately notify the CHPRC authorized procurement representative and the CHPRC Safety and Health Department of any occupational injury or illness.
- Z. The SUBCONTRACTOR shall immediately notify the CHPRC authorized procurement representative, Buyer's Technical Representative (BTR), and the CHPRC Safety and Health Department for any deviation from a planned or projected activity that has a potential environmental, health, safety or quality significance. As part of this notification, all employees involved in the Work are required to understand the process of reporting any unplanned hazards during performance.
- AA. The SUBCONTRACTOR shall immediately notify the CHPRC authorized procurement representative and the CHPRC Safety and Health Department of any employee occupational exposure (either measured or estimated) to toxic substances (e.g., chemical hazards), harmful physical agents (e.g., noise, laser light, ergonomic, etc.), or hazards, that exceed the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL), or trigger level, the American Conference of Governmental Industrial Hygienist (ACGIH) Threshold Limit Value (TLV), or 10 CFR 835 Occupational Radiation Protection Standards.
- BB. The SUBCONTRACTOR shall immediately notify the CHPRC authorized procurement representative and BTR of any requests from or notifications to external agencies and regulators, required as a result of worker exposure.
- CC. The SUBCONTRACTOR shall notify the BTR and the CHPRC Safety and Health Department, not less than five (5) working days prior to delivering any equipment to the Tank Farms of the type indicated below. The BTR will arrange for a safety inspection, as required. Equipment that the CHPRC Safety and Health Department may perform a safety inspection includes, but is not limited to, the following:
- Cranes, derricks, hoists, forklifts and man-lifts.
 - Earth moving equipment.
 - Off-highway motor vehicles.
 - Pile driving equipment.
 - Rock drilling, core drilling, well drilling and similar equipment.
 - Pressure vessels and/or equipment supplied with pressure vessels, either fired or unfired.
 - Equipment employing "laser" techniques.
 - Power-actuated tools.
- DD. The SUBCONTRACTOR shall provide the following documents with the equipment to be inspected at least ten (10) working days prior to the Work commencing. This includes associated worker qualifications and certification requirements.
- A copy of the latest maintenance and certified inspection (as applicable) with expiration date.
 - Manufacturer's specification and/or recommendations.
 - Load rating charts and other information as applied to cranes and hoists.

- Hydrostatic test certification (if applicable).
- Qualification records and certifications for operators, riggers, and rigging engineers. All training and qualification submittals shall comply with the appropriate requirements of the Hanford Hoisting and Rigging Manual, DOE-RL-92-36.

Equipment presented for inspection shall have all required protective equipment installed when inspected by CHPRC. Warnings and postings shall also be in place to ensure all equipment is maintained and operated in a safe and effective manner.

1.4 Investigation Support

EE. The SUBCONTRACTOR shall cooperate in any accident investigations, including submission of a comprehensive report of any accident and shall cooperate, as appropriate, in the conduct of investigations relating to recordable injuries/illnesses and property damage.

FF. Equipment involved in an accident resulting in an injury, shall not be moved until released, except where removal is essential to prevent further environment/property damage or injury/illness. Where necessary to remove the injured personnel, such equipment may be moved only to the extent of making possible such removal.

1.5 Reporting and Record Keeping

GG. If the SUBCONTRACTOR's Hanford site workforce includes ten (10) or more workers, or if the SUBCONTRACTOR's Work involves the use of equipment as listed in these provisions, the SUBCONTRACTOR shall maintain a log and summary of all recordable occupational injuries and illnesses. For this purpose, OSHA Form Number 300 shall be used. The log and summary shall be completed in the detail provided in the Form and instructions on OSHA Form Number 300, in compliance with Occupational Safety and Health Standards 29 CFR 1904.

HH. The SUBCONTRACTOR shall assure all of its workers who experience an injury or illness while performing Work under this Subcontract shall report immediately to supervision to assure evaluation, proper treatment, and injury/illness documentation on the CHPRC Event Report, or a CHPRC approved equivalent.

II. If the SUBCONTRACTOR's Hanford site work force includes ten (10) or more workers, the SUBCONTRACTOR shall submit to the CHPRC authorized procurement representative by the fifth (5) working day of each month an accounting of the injuries/illnesses in connection with the Work performed under this Subcontract. The report shall identify the SUBCONTRACTOR's name, Subcontract number, and total number of workers and hours worked by the SUBCONTRACTOR on the Hanford site during the month.

JJ. The SUBCONTRACTOR shall report any unusual occurrence to the CHPRC authorized procurement representative. An Unusual Occurrence is any deviation from the planned or projected behavior or course of events in connection with any operation if the deviation has safety, health or environmental protection significance.

KK. The SUBCONTRACTOR shall provide the CHPRC authorized procurement representative, copies of safety inspections, audits, and assessments performed under this

Subcontract. In addition, the SUBCONTRACTOR shall provide to CHPRC all worker occupational exposure records. Worker occupational exposure records include workplace monitoring or measuring of a toxic substance, or harmful physical agent including personal, area, grab, wipe or other forms of sampling, as well as, related collection and analytical methodologies, calculations and other background data relevant to interpretation of the results. The CHPRC authorized procurement representative shall provide the SUBCONTRACTOR the appropriate exposure data collection forms. Title to worker occupational exposure records shall be vested with the Government.

LL. The CHPRC Employee Concerns Program is available for use by all SUBCONTRACTOR employees on the Hanford site for the reporting of issues and concerns related to safety, health, environmental protection, quality, security or illegality. Issues should be raised through the management chain if possible, or made directly to the Employee Concerns Office at phone numbers posted throughout the Hanford site. Concerns may also be submitted anonymously by calling the specified number.

1.6 Site-Wide Qualification and Training

MM. The SUBCONTRACTOR shall ensure that its workers meet and maintain the appropriate training, qualification, and certification requirements for the Work. CHPRC-specific training requirements to safely perform this Work will be identified by the CHPRC authorized procurement representative or Buyers Technical Representative (BTR), in accordance with the Tank Farm SUBCONTRACTOR Qualification and Training Plan. The SUBCONTRACTOR shall ensure that training requirements are identified, understood, and workers are trained prior to initiating Work under this Subcontract.

NN. The SUBCONTRACTOR, at the request of the CHPRC authorized procurement representative, shall provide a list of qualified SUBCONTRACTOR employees and associated documentation, including certifications, to demonstrate the SUBCONTRACTOR employees meet the necessary qualifications required under this Subcontract.

OO. The SUBCONTRACTOR shall be charged for any SUBCONTRACTOR employees that are no-shows at scheduled training classes, unless the CHPRC Training BTR is notified at least three (3) working days in advance of the scheduled training class. Contact information for the CHPRC Training BTR will be provided, upon SUBCONTRACTOR's documented request, by the CHPRC authorized procurement representative. The no-show fee shall be based on the actual cost identified by the CHPRC Training organization for each occurrence and be offset from any pending SUBCONTRACTOR invoice. Refund of charges, previously collected, will not be made after the date of final payment to the SUBCONTRACTOR.

1.7 Site Deliveries

PP. The SUBCONTRACTOR shall ensure that all shipments made to the Hanford site in performance of this Subcontract are packaged and loaded for safe handling and unloading. Any employee delivering to the Hanford site or to a CHPRC-controlled facility shall wear appropriate protective equipment and may be required by CHPRC to wear specific personal protective equipment (hand, eye, head or foot protection). Deliveries to the Hanford site or CHPRC-controlled facility may be refused and/or unloading work stopped by any employee for unsafe conditions or practices.