

# U.S. Department of Energy

## Waste Isolation Pilot Plant (WIPP) Transportation Services

Carlsbad, NM

### Pre-Solicitation Conference March 8, 2011



110313.5



# Logistics/Ground Rules

- No audio or video recording is permitted.
- Please keep questions for your one-on-one session and/or submit questions in writing to the following email address: [wipptransportation@emcbc.doe.gov](mailto:wipptransportation@emcbc.doe.gov)
- Identity of question submitter is not needed.
- DOE may answer some questions during the pre-solicitation conference today, if time permits; however, all questions will be answered and posted on the official website.
- Briefing slides, attendee list, and responses to questions will be posted on the website.
- The written terms and conditions of the Final RFP, once released, will govern over any information presented today. Information provided today is at a summary level and subject to change.



# Agenda

- **Background** – *Bill Mackie, National TRU Program Institutional Affairs Manager*
  - WIPP Facility
  - Types of Waste & Waste Shipping Containers/Packagings
  - Transportation - General Scope
- **Contract Specifics** – *Lori Conroy, Contracting Officer*
  - Overview of the Acquisition Process
  - Overview of RFP
  - Attachment L-5 Pricing Workbook Exercise



# Agenda

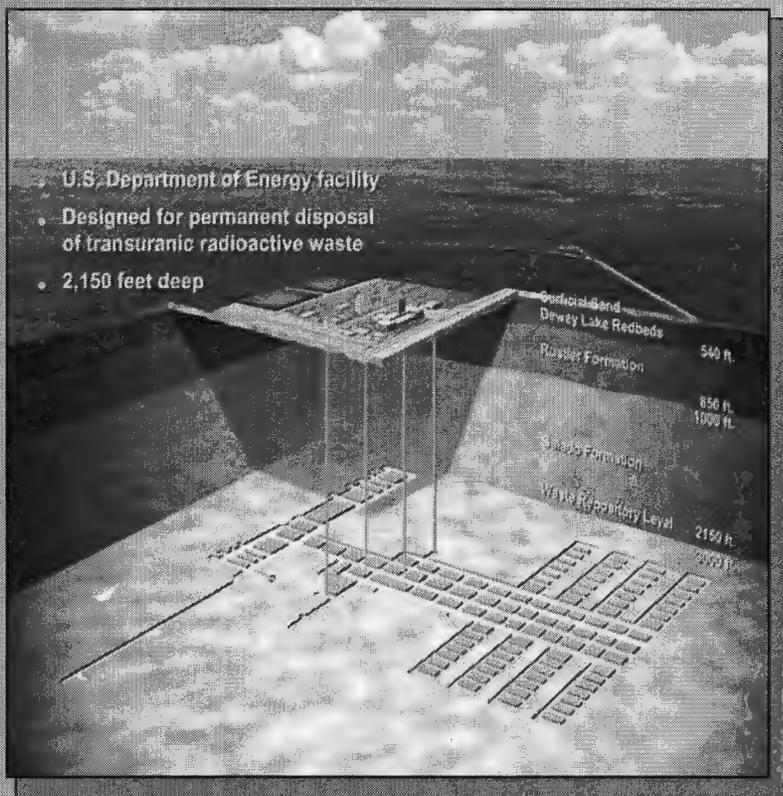
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# U.S. Department of Energy Waste Isolation Pilot Plant Carlsbad, NM



# Underground Facility



- 2,150 feet deep
- 250 million-year-old salt bed
- Remote location
- Stable geology
- 6.2 million cubic feet of disposal area



# Transuranic (TRU) Waste

- U.S. defense program activities
- Clothing, tools, rags, debris, residues, disposable items
- No liquid waste
- Contaminated with radioactive and hazardous elements

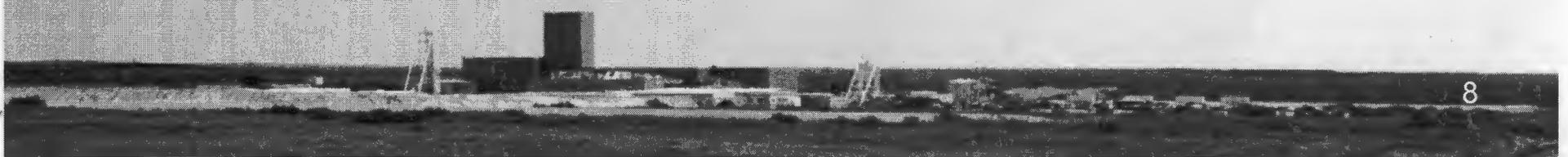


## TRU Waste (cont.)

- **Contact-Handled (CH) TRU Waste**



- Has a maximum dose rate of 200 mrem/hr at the surface of the inner package
- Physically handled by operators
- May be mixed with hazardous constituents



# TRU Waste (cont.)

- **Remote-Handled (RH) Waste**



- **Dose rate from 200 mrem/hr to 1000 rem/hr at the surface of the inner package**
- **Robotics and shielding are required**
- **May be mixed with hazardous constituents**



# Shipping Containers (CH waste)

Nuclear Regulatory Commission certified

TRUPACT-II



Multiple waste package configurations

HalfPACT



Multiple waste package configurations

TRUPACT-III



Single Standard Large Box-2



# Shipping Containers (RH waste) *Nuclear Regulatory Commission certified*

RH 72-B



3-drum capacity (55-gallon)

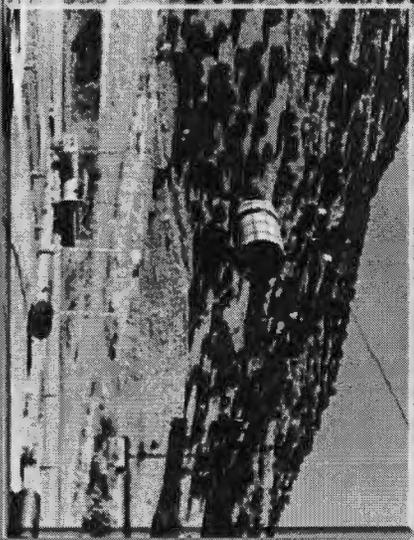
CNS 10-160B



10-drum capacity  
(55-gallon)

# Shipping Containers

## TRUPACT-II Testing



- 30-foot drop
- 1,475-degree fire
- Pressure testing equal to 50 feet of water

# WIPP Transportation System



“...The (WIPP transportation) system is safer than that employed for any other hazardous material in the U.S....”

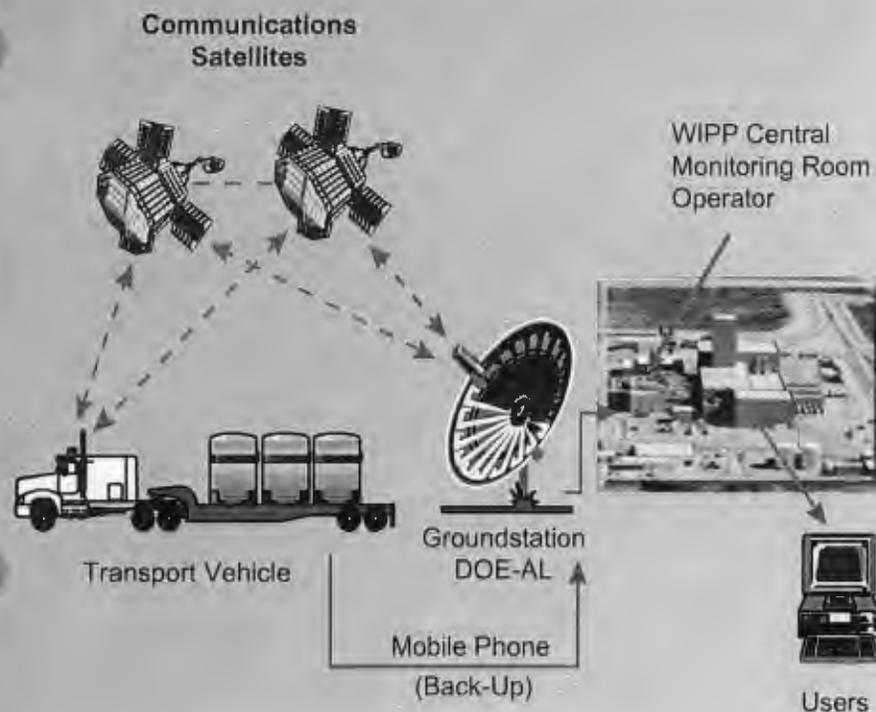
National Academy of Sciences, WIPP Panel

# Shipping Corridors



# WIPP Transportation System

*Transcom*



- **Satellite tracking**
- **Five-minute updates**
- **Fully automated**
- **States and tribes have access**
- **Password-protected Web site**
- **Drivers in constant communication with Central Monitoring Room**



# WIPP Transportation System

- **Driver Requirements**
  - **325,000 commercial vehicle miles in last five years**
  - **100,000 per year for last two years**
  - **No chargeable accident or moving violation in commercial vehicle for last five years**
  - **Driving record in private vehicle also evaluated**
  - **No convictions for DWI or DUI in commercial or private vehicle**



# WIPP Transportation System

(cont.)

- **Driver Training**

- Upon completion of all required DOT training drivers are also trained in:
- Operation of TRUPACT-II tie-downs
- Use of radiation detection instruments
- WIPP general employee training
- Adverse weather and safe parking protocols
- Public affairs training
- WIPP first responder & incident command training
- Radiation worker training
- Use of TRANSCOM tracking systems
- Generator/shipping site required training



# WIPP Transportation System

*(cont.)*

- **Bad weather protocols**
- **Inspections**
- **Safe parking protocols**
- **Constant communications**
  - **Satellite phone**
  - **Cellular phone**
  - **TRANSCOM**
  - **CB radio**



# Emergency Management Response

- Each state along shipping corridor has individual approach to transportation emergency response planning
- Advance planning and exercises of emergency response plans help ensure key response actions and responsibilities are covered
- In case of an incident involving a WIPP shipment, DOE and carriers must be familiar with specific plans and procedures in the state where incident occurs
- All plans, DOE-CBFO, states and tribes, are tested periodically in full-scale exercises



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# Acquisition Process

- Draft RFP issued on March 2, 2011
  - Industry is encouraged to comment on the Draft RFP; comments due March 15, 2011
  - DOE may consider some or all comments received in response to the Draft RFP to prepare the Final RFP
  - DOE will not respond to any verbal or written questions or comments pertaining to the Draft RFP.
- The Final RFP will be issued as a small business set-aside, currently anticipated to be issued on or before March 24, 2011.
  - Interested parties should submit questions/comments in writing for DOE response once the Final RFP is issued to email address: [wipptransportation@emcbc.doe.gov](mailto:wipptransportation@emcbc.doe.gov)
  - DOE will respond; responses will be posted to the procurement website at <http://www.emcbc.doe.gov/WIPP/index.php>



# Procurement Website

<http://www.emcbc.doe.gov/WIPP/index.php>

Environmental Management Consolidated Business Center | Cincinnati, Ohio



U.S. DEPARTMENT OF  
**ENERGY**

EM Consolidated Business Center

Office Of Environmental Management  
safety + performance + cleanup + closure

## Waste Isolation Pilot Plant (WIPP) Transportation Services

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[Questions and Answers](#) | [Requesting Sensitive Data](#) | [DOE Waste Isolation Pilot Plant](#) | [EMCBC](#)

WELCOME TO THE HOME PAGE  
FOR THE  
WASTE ISOLATION PILOT PLANT (WIPP)  
TRANSPORTATION SERVICES



The U.S. Department of Energy (DOE) is currently planning a competitive follow-on acquisition to continue services to transport waste to be disposed of at the Waste Isolation Pilot Plant (WIPP) near Carlsbad, New Mexico. The acquisition includes the transportation services necessary to support the WIPP, including: transportation of mixed and non mixed contact handled (CH) and remote handled (RH) transuranic (TRU) waste, asbestos, and polychlorinated biphenyl (PCB) contaminated TRU waste from generator sites across the country to the WIPP; transportation of CH TRU and RH-TRU waste between generator sites; transportation of training units or empty shipping packages to training/exercises, public awareness events; establishing a local terminal; and maintaining trailers. Contractor-provided equipment will include tractors and necessary support equipment. DOE will provide the shipping packages and trailers. The new contracts resulting from this acquisition will replace two existing fixed price contracts providing the same services that expire in 2012.

**PLEASE NOTE:** The WIPP Transportation Services procurement will be conducted as a set aside for small business meaning DOE will only accept proposals from small businesses that do not exceed the small business size standard of \$24,000,000 in average annual receipts under NAICS code 484230 "Specialized Freight (except used goods) Trucking".

# Acquisition Process *(cont)*

- Industry will have approximately 45 days to prepare and submit their proposal to DOE
- The proposal shall consist of three physically separate volumes:
  - Volume I – Offer and Other Documents
  - Volume II – Technical Proposal
  - Volume III – Price Proposal
- Minimum Proposal Acceptance Period will be **180 days** after due date for receipt of proposals
- **Government intends to award a contract (s) without discussions** (*see Section L Provision, L.22a FAR 52.215-1, Instructions to Offerors—Competitive Acquisition (JAN 2004)*)
- **One or two contract awards may be made as a result of this solicitation; award will be based on best value to the Government.**



# RFP Overview

- **Sections A – J** of the Final RFP will become the contract
  - Section A consists of the Standard Form 33 which must be signed by an authorized representative of the Offeror as part of the proposal
  - Becomes a fully-executed contract when the SF 33 is signed by the Government within the Minimum Proposal Acceptance Period (180 days)
- **Section K** will be incorporated by reference into the contract
- **Sections L and M** contain the solicitation instructions and the basis for evaluation & award



# RFP Overview – Section C

- Current shipping schedule of 20 – 35 shipments per week
  - 30 CH-TRU
  - 5 RH-TRU
- General
  - Contractor shall provide and maintain a minimum of 11 tractors with two qualified drivers per tractor
  - Contractor shall provide the capability to add up to 19 tractors with 38 qualified drivers and associated maintenance for additional tractors and up to 40 additional trailers at request of CBFO as specified in Section B.
  - Contractor shall provide as requested, required DOT maintenance and inspections for unassigned trailers such as mobile loading unit trailers, non-waste carrying trailers, or any other trailers identified by CBFO
- Terminal Services
  - Contractor shall operate and maintain a terminal and maintenance facility within 70 miles of WIPP, near Carlsbad, NM
  - Contractor shall provide logistical and scheduling support 24-hours, 7 days per week



# RFP Overview – Section C

- Tractor Services
  - Contractor shall furnish the equipment, including safety equipment, necessary to transport CH- and RH-TRU waste shipments
  - Contractor shall not exceed the DOT weight limitation of 80,000 pounds except as described in Section C.2.2 and Section C.2.3.
  - Contractor shall furnish and equip all tractors with a satellite telephone; cellular telephone; TRANSCOM system inclusive of Panic Button capability; and a 40-channel two-way citizens band radio
- Maintenance Services
  - Contractor shall provide all required tractor and trailer maintenance in accordance with the manufacturer's recommended maintenance or Contractor approved written procedures (CBFO approves trailer maintenance procedures), and CVSA
  - Contractor shall be capable of replacing tractors within 8 hours while enroute with a loaded shipment. In the event of an emergency requiring a replacement tractor, the replacement tractor shall meet all DOT requirements and pass a CVSA Level VI inspection prior to being placed in service.



# RFP Overview – Section C

- Deliverables
  - Transportation Management Plan
    - Plan for < 1% Vehicle Down Time Rate
    - List of insured equipment and proof of insurance
  - Transition Plan (phase-in period NTE 90 days from award)
  - Security Plan
  - Quality Assurance Plan
  
- Applicable Statutory and Regulatory Requirements
  - Western Governors' Association (WGA) Waste Isolation Pilot Plant Transportation Safety Program Implementation Guide (PIG)
  - CBFO QA Program Document
  - DOE Motor Carrier Evaluation Program (MCEP) Plan and Procedures
  - DOE/WIPP 03-3223 TRU Waste Transportation Security Plan (sensitive document to be released after contract award and only as authorized by the DOE/CBFO Security Officer)



# RFP Overview – Section B

- Indefinite Delivery, Indefinite Quantity (IDIQ) contract utilizing firm-fixed price delivery task orders, with some specified cost reimbursable items
- Five 12 month *Ordering Periods*
  1. Base Period TRU Waste Transportation Services
  2. Option Period 1 TRU Waste Transportation Services
  3. Option Period 2 TRU Waste Transportation Services
  4. Option Period 3 TRU Waste Transportation Services
  5. Option Period 4 TRU Waste Transportation Services
- Each ordering period contains the Basic Transportation Services (11 or 22 Tractor Teams) and Additional Transportation Services for the respective Ordering Period

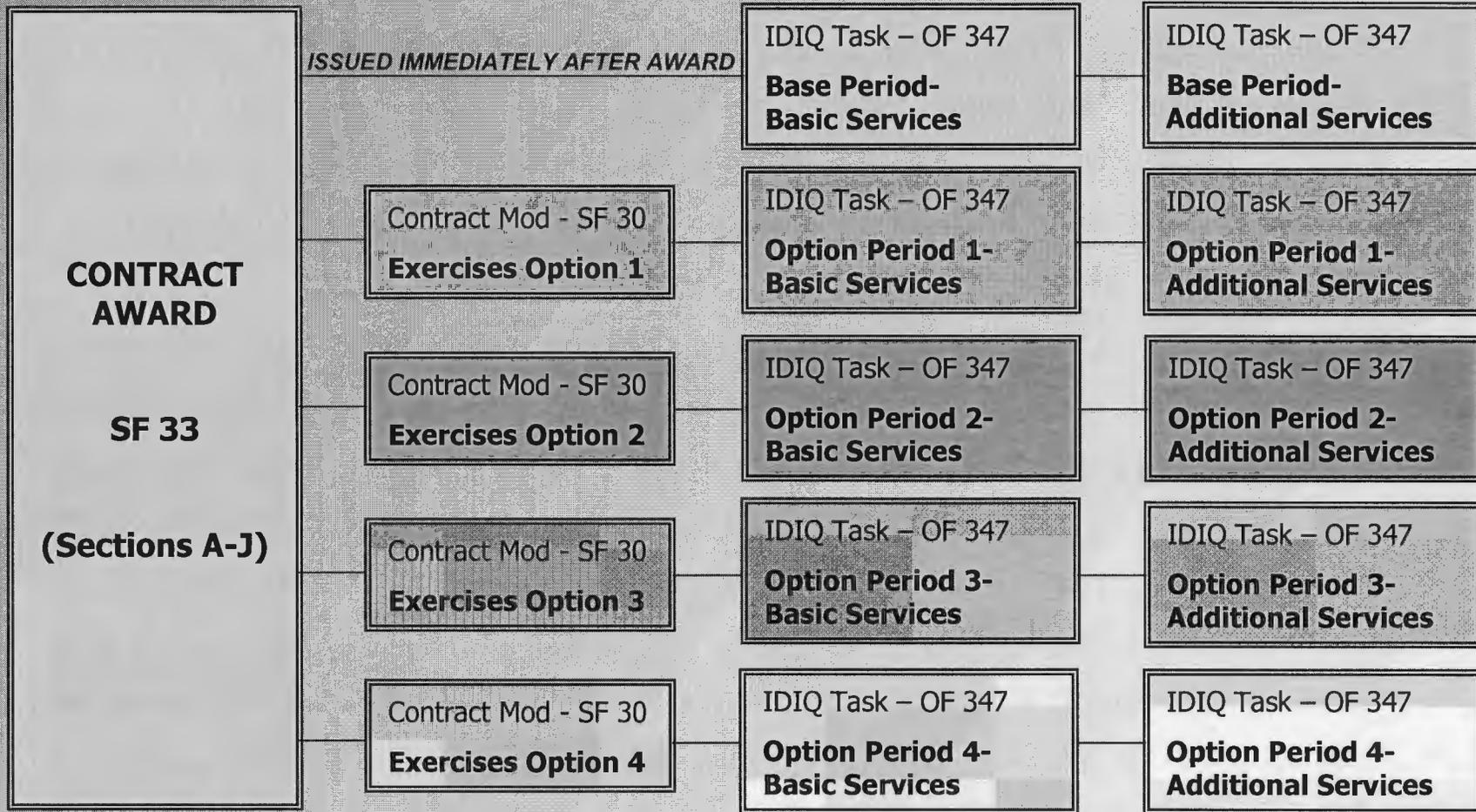


# Section H, *H.19 Task Orders*

- Immediately upon contract award, a delivery task order will be issued to the contractor unilaterally via the OF 347 Form which will detail the order requirements (i.e. Basic Transportation Services for 11 or 22 Tractor Teams) for the base 12 month ordering period
- Additional services can be ordered by listing the additional service items within the initial delivery task order if required at original delivery task issuance or by issuing successive delivery task orders later during the ordering period
- Each delivery task order issued on the OF 347 will have:
  - a minimal performance period of 12 months for the basic services
  - a minimal performance period of 6 or 12 months for additional services
- The Government reserves the right to change the period of performance for any individual Task Order. The Government has the right to extend the period of performance specified for an individual task order for six months or 12 months, with no less than 30 days notice at prices no higher than those specified in Section B or at a lower negotiated rate.



# Contract Structure



# Section H, H.20 Min/Max Order Quantities

PERIOD	Basic Transportation Services B.2.1.1/B.2.1.2 B.2.2.1/B.2.2.2 B.2.3.1/B.2.3.2 B.2.4.1/B.2.4.2 B.2.5.1/B.2.5.2		Additional Tractor Services B.2.1.3.1 B.2.2.3.1 B.2.3.3.1 B.2.4.3.1 B.2.5.3.1		Additional Trailer Maintenance Services B.2.1.3.2 B.2.2.3.2 B.2.3.3.2 B.2.4.3.2 B.2.5.3.2		Additional Driver Services B.2.1.3.3 B.2.2.3.3 B.2.3.3.3 B.2.4.3.3 B.2.5.3.3	
	Min	Max	Min	Max	Min	Max	Min	Max
Base Period	11 Tractor Teams <sup>1</sup>	22 Tractor Teams <sup>2</sup>	0 tractors	19 tractors	0 trailers	40 trailers	0 teams	19 teams
Option Period 1	11 Tractor Teams <sup>1</sup>	22 Tractor Teams <sup>2</sup>	0 tractors	19 tractors	0 trailers	40 trailers	0 teams	19 teams
Option Period 2	11 Tractor Teams <sup>1</sup>	22 Tractor Teams <sup>2</sup>	0 tractors	19 tractors	0 trailers	40 trailers	0 teams	19 teams
Option Period 3	11 Tractor Teams <sup>1</sup>	22 Tractor Teams <sup>2</sup>	0 tractors	19 tractors	0 trailers	40 trailers	0 teams	19 teams
Option Period 4	11 Tractor Teams <sup>1</sup>	22 Tractor Teams <sup>2</sup>	0 tractors	19 tractors	0 trailers	40 trailers	0 teams	19 teams



# Section H

- **H.1 DEAR 952.215-70 Key Personnel (DEC 2000)**

- As a minimum, the Contractor shall designate individuals in the positions of Project/Terminal Manager, Safety Manager, and Quality Assurance Manager as Key Personnel.

- **H.15 U.S. Department Of Transportation (DOT) Carrier Safety Rating**

- The Contractor shall maintain a satisfactory DOT Motor Carrier rating during the period of performance. An unsatisfactory or conditional rating may be cause for termination in accordance with the terms and conditions of this contract.

- **H.16 Employee Hiring Preference**

- The Contractor shall give a hiring preference to those qualified employees who are currently employed by the incumbent WIPP transportation Contractors, CAST Specialty Transportation, Inc. and Visionary Solutions LLC Company for non-management positions. If incumbent drivers have already completed qualification training, they do not have to repeat the training.

- **H.17 Exclusive Use of Tractors and Teams**

- All tractors and driver teams provided by the Contractor in accordance with this contract shall be reserved for the exclusive use of this contract.



## **Section H, H.18 Safe Driving Bonuses and Incentive Compensation Programs**

- The bonus shall be based upon total actual miles driven each year of performance by all drivers collectively in performing Government transportation services under this contract.
- If NO OSHA recordable injuries and/or no “at fault” determinations,
  - The amount of such bonus incentive =  $\$0.20 \times \text{Total Miles}$
  - All of the calculated amount shall be awarded to all of the drivers employed by the Contractor
- If only one of the incidents listed has occurred,
  - The amount of such bonus incentive =  $\$0.15 \times \text{Total Miles}^*$
  - \*Total excludes the miles associated with the occurrence of the activities.
  - All of the calculated amount shall be awarded to all drivers, other than the driver(s) involved in the incidents
- If two of the incidents have occurred,
  - The amount of such bonus incentive =  $\$0.10 \times \text{Total Miles}^*$
  - \*Total excludes the miles associated with the occurrence of the activities.
- If three or more of the incidents have occurred,
  - = no safety bonus incentive



# Section H, *H.22 MCEP Audit*

- The Contractor shall undergo and pass the Motor Carrier Evaluation Program (MCEP) Audit. The MCEP Audit that is conducted by DOE is an extensive audit of all facets of a carrier's business operations including an extensive on-site physical review of records and equipment. This inspection is covered in DOE Procedure MCEP 2009. If the Contractor does not pass the Audit, the Government reserves the right to terminate the contract for default.
- Also see Section C applicable document "*DOE Motor Carrier Evaluation Program (MCEP) Plan and Procedures*" currently posted to the Documents Library on the procurement website
- Section M.3 language states offerors must show their ability to pass the MCEP audit prior to award; this section H.22 clause pertains to the contractor during actual contract performance



## **Section I, I.110 FAR 52.216-22 Indefinite Quantity (OCT 1995)(DEVIATION)**

- (d) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, **that the Contractor shall not be required to make any deliveries under this contract after 24 months from the effective date of the contract or after 24 months from the beginning of an Option Period if the Government exercises the Option Period.**
- (e) The Government's requirements for each item or subitem of supplies or services described in the Schedule are being purchased through at least one contract and possibly a second contract. **If the requirements are purchased through two separate contracts, the Government shall order from each Contractor approximately one-half of the total supplies or services specified in the Schedule that are required to be purchased by the specified Government activity or activities. The Government may choose between either contract in placing any particular order. However, the Government shall allocate successive orders, in accordance with its delivery requirements, to maintain as close a ratio as is reasonably practicable between the total quantities ordered from the two Contracts.**



# **Section L, *Proposal Preparation Instructions***

## **Volume I – Offer and Other Documents**

- Standard Form (SF) 33
- Representations and Certifications
- Attachment L-8 Automated Clearing House (ACH) Form
- Signed originals of all documents

## **Volume II – Technical Proposal**

- Factor 1 – Technical and Management Approach (25 page limitation)
- Factor 2 – Relevant Company Experience
  - L-3 Experience and Past Performance Reference Information Form
- Factor 3 - Key Personnel
  - L-1 List of Key Personnel
  - L-2 Key Personal Standard Resume Format
  - Signed Commitment Letters
- Factor 4 – Past Performance
  - L-3 Experience and Past Performance Reference Information Form
  - L-4 Past Performance Questionnaires
  - L-7 List of Terminated Contracts

## **Volume III – Price Proposal**

- Attachment L-5 Pricing Workbook
- Attachment L-6 MCEP Audit Prescreening Forms
- Financial Statements



# **Section L, *Proposal Preparation Instructions***

- **Volume II – Technical Proposal**
  - **Factors 2 and 4 – Offeror shall provide experience and past performance references similar in size, scope and complexity to the work to be performed by each entity under the new contract**
    - Provide for parent or holding companies, all teaming participants and major subcontractors
    - Imperative that they specifically identify the size, scope and complexity of the referenced contracts
  - **The contracts references in Factor 2 should be the same as those for which past performances will be provided for Factor 4**
  - **Written content for both Factors 2 and 4 should only be submitted via Attachment L-3 and Attachment L-7**
  - **Written content for Factor 3 should only be submitted via Attachment L-1, Attachment L-2 and signed commitment letters**



# Section M

- **M.2 Basis of Contract Award**

The Government intends to make either one or two separate contract awards to the responsible Offeror (s) whose proposals are responsive to the solicitation and determined to be the best value to the Government.

- **M.4 Overall Relative Importance of Technical Evaluation Criteria**

The Technical Proposal will be evaluated against the technical evaluation criteria established in Section M.3. The Evaluation Factors 1-4 are of equal importance.



# Section M

- **M.3 Evaluation Criteria – Price Evaluation**

- The responsibility and financial capability evaluation will take into consideration whether the Offeror has adequate financial resources to perform the Contract or has the ability to obtain them, as well as the MCEP Audit prescreening forms provided in Attachment L-6. The MCEP Audit Prescreening Forms will be used as part of the responsibility determination in order to determine the Offeror's future capability to pass the MCEP Audit in Section H.22.
- The Government will use the prices provided by the Offeror in Section L, Attachment L-5 for price evaluation purposes. If there is a discrepancy between the prices specified by the Offeror in Section L, Attachment L-5 and the corresponding prices specified by the Offeror in Section B.2, the prices specified by the Offeror in Section B.2 will be used to determine the total evaluated price. In the event of a conflict between the firm fixed unit price and the extended price specified by the Offeror, the unit price will be used to determine the total proposed price for that item.



## **Section M.3, *Price Evaluation***

- **Attachment L-5 exercise, run through hypothetical pricing in MS Excel L-5 attachment**
- **Attachment L-5 Workbook, second worksheet entitled “Att L-5 – Base Year” hard copy handout**



Waste Isolation Pilot Plant  
 Shipment Data (By Site)

Site to WIPP	FY-2008		FY-2009		FY-2010		FY-2011 Goal	
	CH	RH	CH	RH	CH	RH	CH	RH
Argonne National Lab	0	5	0	20	0	22	0	67
Hanford Site	64	0	1	0	52	0	127	10
Idaho National Lab	421	107	640	27	669	32	691	53
Los Alamos National Lab	76	0	116	16	157	0	177	0
Lawrence Livermore National Lab	0	0	0	0	0	0	0	0
Nevada Nuclear Security Site	0	0	0	0	0	0	0	0
Oak Ridge National Laboratory	2	0	4	8	36	52	43	51
Savannah River Site	122	0	87	28	82	0	186	11
GE Vallacitos Nuclear Center	0	0	0	6	0	26	0	0
Bettis Atomic Power Laboratory	0	0	0	0	0	0	0	5
Sandia National Laboratory	0	0	0	0	0	0	0	6

FY-2008, 2009, and 2010 are actual figures while FY 2011 are our shipping goals which have been approved by EM.

Intersite	FY-2008		FY-2009		FY-2010		FY-2011 Goal	
	CH	RH	CH	RH	CH	RH	CH	RH
Hanford Site to AMWTP	1	0	0	0	53	0	37	0
AMWTP to Hanford Site	1	0	1	0	0	0	0	0
Nevada Nuclear Security Site to AMWTP	4	0	13	0	0	0	0	0
Oak Ridge National Laboratory to AMWTP	1	0	0	0	0	0	0	0
AMWTP to Oak Ridge National Laboratory	0	0	1	0	0	0	0	0
Savannah River Site to AMWTP	0	0	1	0	0	0	1	0
AMWTP to Savannah River Site	0	0	0	0	1	0	0	0
GE Vallacitos Nuclear Center to AMWTP	0	0	0	0	1	0	0	0
Los Alamos National Laboratory to AMWTP	0	0	0	0	2	0	0	0
LL300 Area to Lawrence Livermore National Laboratory	0	0	0	0	1	0	0	0
Lawrence Livermore National Laboratory to AMWTP	0	0	0	0	6	0	0	0
Sandia National Laboratory to AMWTP	0	0	0	0	1	0	2	0
Sandia National Laboratory to Los Alamos	0	0	0	0	1	0	0	0
NRD, LLC to AMWTP	0	0	0	0	0	0	4	0
Argonne National Laboratory to AMWTP	0	0	0	0	0	0	4	0
Lawrence Berkley National Laboratory to AMWTP	0	0	0	0	0	0	1	0

FY-2008, 2009, and 2010 are actual figures while FY 2011 are our shipping goals which have been approved by EM.