

**CARLSBAD FIELD OFFICE  
WORK BREAKDOWN STRUCTURE DICTIONARY  
ELEMENT DEFINITION**

<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003
<b>3. WBS ELEMENT CODE</b> 1.1	<b>4. WBS ELEMENT TITLE</b> Waste Services	
<b>5. INDEX LINE NO.</b> 1	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 1	<b>7. DATE</b> 30 April 2006
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0081 (Central Characterization Project)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009810
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for the development of contact-handled (CH) and remote-handled (RH) TRU waste characterization programs that meet CH- and RH-TRU waste characterization / certification requirements. This element will include activities necessary for characterization, certification and shipping either to WIPP for disposal or characterization for transportation to a hub or central characterization facility (CCF). The hub or CCF will then characterize the waste for disposal and ship to WIPP. This element also includes waste support services for shipping (e.g., shipping coordination, corridor readiness, Type B Package and trailer maintenance, and carrier contracts) and generator site interface activities (e.g., TRU Waste Corporate Board, TRU waste inventory, WIPP Waste Information System, and strategic planning). The level 3 elements include:</p> <ul style="list-style-type: none"> <li>- Savannah River Site (SRS)</li> <li>- Los Alamos National Laboratory (LANL)</li> <li>- Hanford</li> <li>- Small Quantity Sites (SQS)</li> <li>- Rocky Flats Environmental Technology Site (RFETS)</li> <li>- Idaho National Engineering and Environmental Laboratory (INEEL)</li> <li>- Oak Ridge National Laboratory (ORNL)</li> <li>- Waste Support Services</li> </ul>		

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003	
<b>3. WBS ELEMENT CODE</b> 1.1.1	<b>4. WBS ELEMENT TITLE</b> Savannah River Site (SRS)		
<b>5. INDEX LINE NO.</b> 2	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 1		<b>7. DATE</b> 30 April 2006
<b>8. APPROVED CHANGES</b> N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0081 (Central Characterization Project)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This scope of work establishes the activities required for the Central Characterization Project (CCP) to characterize and certify Contact Handled (CH) and Remote Handled Transuranic (TRU) waste at SRS. CCP will assist the Generator Site with analysis of nuclear, radiological, and chemical safety hazards of the waste. Activities will include examination of acceptable knowledge information to identify hazards; development of operational and administrative safeguards and precautions; and development of the formal documentation required for the facility's Authorization Basis. CCP will deploy mobile characterization equipment to the site and set up for characterization operations. CCP will conduct characterization operations on simulated waste containers under the evaluation of host site and/or DOE personnel to determine its readiness to safely characterize waste under the Authorization Basis requirements. Once approved for operations, CCP will conduct Non-Destructive Examination, Non-Destructive Assay, Headspace Gas Sampling and Analysis, and Visual Examination operations to characterize the waste, including the development and approval of required data and analysis. CCP will be required to undergo a Certification Audit to approve its characterization operations and the resulting data and allow shipment of the characterized waste to the Waste Isolation Pilot Plant for disposal. CCP will ship waste to WIPP once the Certification Audit results are approved and authorization has been received from the Carlsbad Field Office (CBFO).</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003
<b>3. WBS ELEMENT CODE</b> 1.1.1.01	<b>4. WBS ELEMENT TITLE</b> SRS CH Waste Certification	
<b>5. INDEX LINE NO.</b> 3	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 01 October 2003
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0081 (Central Characterization Project)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009810
<b>11. ELEMENT TASK DESCRIPTION</b> <p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes one or more of the following: CH program development, readiness/start-up, authorization basis, deployment and set-up of mobile characterization equipment, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at the Savannah River Site.</p>		

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003
<b>3. WBS ELEMENT CODE</b> 1.1.1.02	<b>4. WBS ELEMENT TITLE</b> SRS CH Waste Shipping	
<b>5. INDEX LINE NO.</b> 4	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 01 October 2003
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0081 (Central Characterization Project)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009810
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for preparing CH waste for shipment. This includes providing mobile loading and transportation certification services.</p>		

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003
<b>3. WBS ELEMENT CODE</b> 1.1.1.03	<b>4. WBS ELEMENT TITLE</b> SRS RH Waste Certification	
<b>5. INDEX LINE NO.</b> 5	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 01 October 2003
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0081 (Central Characterization Project)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009810
<b>11. ELEMENT TASK DESCRIPTION</b> <p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes one or more of the following: RH program development, readiness/start-up, authorization basis, deployment and set-up of mobile characterization equipment, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at the Savannah River Site.</p>		

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003
<b>3. WBS ELEMENT CODE</b> 1.1.1.04	<b>4. WBS ELEMENT TITLE</b> SRS RH Waste Shipping	
<b>5. INDEX LINE NO.</b> 6	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 01 October 2003
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0081 (Central Characterization Project)	<b>10. BUDGET AND REPORTING NUMBER</b> EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>  a. Cost Content Direct Labor Material Procurement Subcontractor Efforts G&A Travel Training  b. Technical Content  This element includes activities necessary for preparing RH waste for shipment. This includes providing mobile loading and transportation certification services.		

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003
<b>3. WBS ELEMENT CODE</b> 1.1.1.05	<b>4. WBS ELEMENT TITLE</b> SRS Auditing	
<b>5. INDEX LINE NO.</b> 7	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 01 October 2003
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0081 (Central Characterization Project)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009810
<b>11. ELEMENT TASK DESCRIPTION</b>  a. Cost Content Direct Labor Subcontractor Efforts Travel  b. Technical Content  Conduct certification audit activities in accordance with HWFP requirements. This element includes activities associated with assessing SRS's waste characterization capability for measuring headspace gas and RCRA hazardous waste samples and for making NDA measurements. This includes the initial site certification and subsequent recertification audits.		

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 27 July 2005
<b>3. WBS ELEMENT CODE</b> 1.1.1.06	<b>4. WBS ELEMENT TITLE</b> Waste Treatment at SRS	
<b>5. INDEX LINE NO.</b> 8	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 27 July 2005
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0081 (Central Characterization Project)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009810
<b>11. ELEMENT TASK DESCRIPTION</b>  <ul style="list-style-type: none"> <li>a. Cost Content <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Subcontractor Efforts</li> <li>Travel</li> </ul> </li>   <li>b. Technical Content <p style="margin-left: 20px;">This element includes all activities conducted to treat the site's high activity TRU waste which contains prohibited items and high wattage isotopes that generate gas in excess of the allowable transport limits. Treatment of this waste will allow for its shipment to WIPP.</p> </li> </ul>		

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Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.2		Los Alamos National Laboratory (LANL)	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>	<b>7. DATE</b>	
9	Rev. 1	30 April 2006	
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes waste service activities for assisting LANL's CH waste certification program and the CCP CH waste services associated with procurement, program development (e.g., readiness/start-up, procedures, training), authorization basis, deployment and set-up and maintenance of mobile equipment, characterization and certification, audit schedules, packaging, loading services and shipping. The level 4 elements include:</p> <ul style="list-style-type: none"> <li>- CH Waste Certification</li> <li>- CH Waste Shipping</li> <li>- RH Waste Certification</li> <li>- RH Waste Shipping</li> <li>- Auditing</li> </ul> <p>This scope of work establishes the activities required for the Central Characterization Project (CCP) to characterize and certify Contact Handled (CH) and Remote Handled Transuranic (TRU) waste at LANL. CCP will assist the Generator Site with analysis of nuclear, radiological, and chemical safety hazards of the waste. Activities will include examination of acceptable knowledge information to identify hazards; development of operational and administrative safeguards and precautions; and development of the formal documentation required for the facility's Authorization Basis. CCP will deploy mobile characterization equipment to the site and set up for characterization operations. CCP will conduct characterization operations on simulated waste containers under the evaluation of host site and/or DOE personnel to determine its readiness to safely characterize waste under the Authorization Basis requirements. Once approved for operations, CCP will conduct Non-Destructive Examination, Non-Destructive Assay, Headspace Gas Sampling and Analysis, and Visual Examination operations to characterize the waste, including the development and approval of required data and analysis. CCP will be required to undergo a Certification Audit to approve its characterization operations and the resulting data and allow shipment of the characterized waste to the Waste Isolation Pilot Plant for disposal. CCP will ship waste to WIPP once the Certification Audit results are approved and authorization has been received from the Carlsbad Field Office (CBFO).</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.2.01		LANL CH Waste Certification	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
10	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b> N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element consists of two parts: (1) CH-TRU waste certification activities by LANL's characterization program, and (2) CH-TRU waste certification activities by the Central Characterization Program. The waste certification activities include one or more of the following: readiness/start-up, authorization basis, deployment and set-up of mobile characterization equipment, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at the LANL site</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.2.02		LANL CH Waste Shipping	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
11	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for preparing CH waste for shipment. This includes providing mobile loading and transportation certification services.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.2.03		LANL RH Waste Certification	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
12	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes one or more of the following: RH program development, readiness/start-up, authorization basis, deployment and set-up of mobile characterization equipment, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at LANL.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.2.04		LANL RH Waste Shipping	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
13	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for preparing RH waste for shipment. This includes mobile loading and transportation certification services.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003
<b>3. WBS ELEMENT CODE</b> 1.1.2.05	<b>4. WBS ELEMENT TITLE</b> LANL Auditing	
<b>5. INDEX LINE NO.</b> 14	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 01 October 2003
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0081 (Central Characterization Project)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009810
<b>11. ELEMENT TASK DESCRIPTION</b>  a. Cost Content Direct Labor Subcontractor Efforts Travel  b. Technical Content Conduct certification audit activities in accordance with HWFP requirements. This element includes activities associated with assessing LANL's waste characterization capability for measuring headspace gas and RCRA hazardous waste samples and for making NDA measurements. This includes the initial site certification and subsequent recertification audits at LANL.		

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003
<b>3. WBS ELEMENT CODE</b> 1.1.3	<b>4. WBS ELEMENT TITLE</b> Hanford	
<b>5. INDEX LINE NO.</b> 15	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 01 October 2003
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0081 (Central Characterization Project)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009810
<b>11. ELEMENT TASK DESCRIPTION</b> <p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This scope of work establishes the activities required for the Central Characterization Project (CCP) to characterize and certify Contact Handled (CH) and Remote Handled Transuranic (TRU) waste at Hanford. CCP will assist the Generator Site with analysis of nuclear, radiological, and chemical safety hazards of the waste. Activities will include acceptable knowledge information to identify hazards; development of operational and administrative safeguards and precautions; and development of the formal documentation required for the facility's Authorization Basis. CCP will deploy mobile characterization equipment to the site and set up for characterization operations. CCP will conduct characterization operations on simulated waste containers under the evaluation of host site and/or DOE personnel to determine its readiness to safely characterize waste under the Authorization Basis requirements. Once approved for operations, CCP will conduct Non-Destructive Examination, Non-Destructive Assay, Headspace Gas Sampling and Analysis, and Visual Examination operations to characterize the waste, including the development and approval of required data and analysis. CCP will be required to undergo a Certification Audit to approve its characterization operations and the resulting data and allow shipment of the characterized waste to the Waste Isolation Pilot Plant for disposal. CCP will ship waste to WIPP once the Certification Audit results are approved and authorization has been received from the Carlsbad Field Office (CBFO).</p>		

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.3.01		Hanford CH Waste Certification	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
16	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element consists of two parts: (1) CH-TRU waste certification activities by Hanford's characterization program, and (2) CH-TRU waste certification activities by the Central Characterization Program. The waste certification activities include one or more of the following: readiness/start-up, authorization basis, deployment and set-up of mobile characterization equipment, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at the Hanford site.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.3.02		Hanford CH Waste Shipping	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
17	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for preparing CH waste for shipment. This includes mobile loading and transportation certification services.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.3.03		Hanford RH Waste Certification	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
18	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes one or more of the following: RH program development, readiness/start-up, authorization basis, deployment and set-up of mobile characterization equipment, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at Hanford.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.3.04		Hanford RH Waste Shipping	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
19	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for preparing RH waste for shipment. This includes providing mobile loading and transportation certification services.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.3.05		Hanford Auditing	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
20	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <p style="padding-left: 20px;">Direct Labor Subcontractor Efforts Travel</p> <p>b. Technical Content</p> <p style="padding-left: 20px;">Conduct certification audit activities in accordance with HWFP requirements. This element includes activities associated with assessing Hanford's waste characterization capability for measuring headspace gas and RCRA hazardous waste samples and for making NDA measurements. This includes the initial site certification and subsequent recertification audits.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.4		Small Quantity Site (SQS)	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
21	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This scope of work establishes the activities required for the Central Characterization Project (CCP) to characterize and certify Contact Handled (CH) and Remote Handled Transuranic (TRU) waste at small quantity sites. CCP will assist the Generator Site with analysis of nuclear, radiological, and chemical safety hazards of the waste. Activities will include acceptable knowledge information to identify hazards; development of operational and administrative safeguards and precautions; and development of the formal documentation required for the facility's Authorization Basis. CCP will deploy mobile characterization equipment to the site and set up for characterization operations. Depending on the site, CCP will conduct characterization operations for shipment and disposal at WIPP or for transportation to the Central Characterization Facility, for disposal characterization and subsequent shipment to WIPP.</p> <p>Some of the SQS include; Nevada Test Site, BAPL, KAPL-NFS, KAPL, Sandia National Laboratories, Lawrence Livermore National Laboratory, Argonne National Laboratory-East, Framatone and Paducah.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.4.01		SQS CH Waste Certification	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
22	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes one or more of the following waste services activities associated with CH program development, readiness/start-up, authorization basis, deployment and set-up of mobile characterization equipment, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at the Small Quantity Sites.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.4.02		SQS CH Waste Shipping	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
23	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for preparing CH waste for shipment. This includes mobile loading and transportation certification services.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.4.03		SQS RH Waste Certification	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
24	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes one or more of the following waste services activities associated with RH program development, readiness/start-up, authorization basis, deployment and set-up of mobile characterization equipment, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive and destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at the Small Quantity Sites.</p>			

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1.1.4.04		SQS RH Waste Shipping	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
25	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for preparing RH waste for shipment. This includes providing mobile loading and transportation certification services.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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1.1.4.05		SQS Auditing	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
26	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <p style="padding-left: 20px;">Direct Labor Subcontractor Efforts Travel</p> <p>b. Technical Content</p> <p>Conduct certification audit activities in accordance with HWFP requirements. This element includes activities associated with assessing SQS waste characterization capability for measuring headspace gas and RCRA hazardous waste samples and for making NDA measurements. This includes the initial site certification and subsequent recertification audits at Small Quantity Sites.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.5		Rocky Flats Environmental Technology Site (RFETS)	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
27	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes waste service activities for assisting RFETS with CH waste certification, CH waste shipping and audits. The level 4 elements include:</p> <ul style="list-style-type: none"> <li>- CH Waste Certification</li> <li>- CH Waste Shipping</li> <li>- Auditing</li> </ul>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.5.01		RFETS CH Waste Certification	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
28	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes the two following activities; (1) headspace gas sampling and analysis and (2) homogeneous waste sampling and analysis.</p>			

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1.1.5.02		RFETS CH Waste Shipping	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
29	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for preparing CH waste for shipment from RFETS to ANL-W, and from ANL-W to WIPP and/or from RFETS to WIPP.</p>			

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1.1.5.03		RFETS Auditing	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
30	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <p style="padding-left: 20px;">Direct Labor Subcontractor Efforts Travel</p> <p>b. Technical Content</p> <p>Conduct certification audit activities in accordance with HWFP requirements. This element includes activities associated with assessing RFETS waste characterization capability for measuring headspace gas and RCRA hazardous waste samples and for making NDA measurements. This consists of the site recertification audits.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.6		Idaho National Laboratory (INL)	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
31	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes waste service activities for INL associated with CH and RH characterization, certification and audit and shipping. The level 4 elements consist of the following:</p> <ul style="list-style-type: none"> <li>- CH Waste Certification</li> <li>- CH Waste Shipping</li> <li>- RH Waste Certification</li> <li>- RH Waste Shipping</li> <li>- Auditing</li> </ul>			

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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.1.6.01	INL CH Waste Certification		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
32	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes one or more of the following waste services activities associated with CH program development, readiness/start-up, authorization basis, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive and destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at INL.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.6.02		INL CH Waste Shipping	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
33	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p style="padding-left: 20px;">This element includes activities necessary for preparing CH waste for shipment.</p>			

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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.1.6.03	INL RH Waste Certification		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
34	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes one or more of the following waste services activities associated with RH program development, readiness/start-up, authorization basis, deployment and set-up of mobile characterization equipment, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive and destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at INL.</p>			

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1.1.6.04		INL RH Waste Shipping	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
35	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p style="padding-left: 20px;">This element includes activities necessary for preparing RH waste for shipment.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.6.05		INL Auditing	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
36	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <p style="padding-left: 20px;">Direct Labor Subcontractor Efforts Travel</p> <p>b. Technical Content</p> <p>Conduct certification audit activities in accordance with HWFP requirements. This element includes activities associated with assessing INL's waste characterization capability for measuring headspace gas and RCRA hazardous waste samples and for making NDA measurements. This includes the initial site certification for different waste types and subsequent recertification audits.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.7		Oak Ridge National Laboratory (ORNL)	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
37	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes waste services activities for ORNL associated with procurement, program development (e.g., readiness/start-up, procedures, and training), authorization basis, deployment and set-up and maintenance of mobile equipment where applicable, characterization, and certification, audits, packaging, loading services and shipping. The level 4 elements include:</p> <ul style="list-style-type: none"> <li>- CH Waste Certification</li> <li>- CH Waste Shipping</li> <li>- RH Waste Certification</li> <li>- RH Waste Shipping</li> <li>- Auditing</li> </ul>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.7.01		ORNL CH Waste Certification	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
38	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes one or more of the following waste services activities associated with CH program development, readiness/start-up, authorization basis, deployment and set-up of mobile characterization equipment, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive and destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at ORNL.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.7.02		ORNL CH Waste Shipping	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
39	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p style="padding-left: 20px;">This element includes activities necessary for preparing CH waste for shipment.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.7.03		ORNL RH Waste Certification	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
40	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes one or more of the following waste services activities associated with RH program development, readiness/start-up, authorization basis, deployment and set-up of mobile characterization equipment, repackaging, characterization (e.g., acceptable knowledge, headspace gas sampling analysis, non-destructive and destructive assay, real-time radiography, visual exam, and solid waste sampling) and certification to prepare TRU waste for auditing and shipping at ORNL.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.7.04		ORNL RH Waste Shipping	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
41	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p style="padding-left: 20px;">This element includes activities necessary for preparing RH waste for shipment.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.7.05		ORNL Auditing	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
42	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <p style="margin-left: 20px;">Direct Labor Subcontractor Efforts Travel</p> <p>b. Technical Content</p> <p>Conduct certification audit activities in accordance with HWFP requirements. This element includes activities associated with assessing INEEL's waste characterization capability for measuring headspace gas and RCRA hazardous waste samples and for making NDA measurements. This includes the initial site certification and subsequent recertification audits.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003	
<b>3. WBS ELEMENT CODE</b> 1.1.8		<b>4. WBS ELEMENT TITLE</b> Waste Services Support	
<b>5. INDEX LINE NO.</b> 43	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 1		<b>7. DATE</b> 27 April 2007
<b>8. APPROVED CHANGES</b> N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0080 (Operate Waste Disposal Facility - WIPP) CB-0081 (Central Characterization Project) CB-0090 (Transportation)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009800 EY9009810 EY9009900	
<b>11. ELEMENT TASK DESCRIPTION</b>  a. Cost Content Direct Labor Material Procurement Subcontractor Efforts G&A Travel Training  b. Technical Content  This element includes the work scope needed to ensure the transportation system is capable of transporting TRU waste from the storage sites to WIPP. Included in this element are the following activities necessary for shipping; <ul style="list-style-type: none"> <li>- Shipping coordination</li> <li>- Corridor Readiness,</li> <li>- Type B Package maintenance,</li> <li>- CH and RH trailers and trailer maintenance, including designing, procuring, modifying, maintaining, and testing transport trailers to support the transportation fleet for shipping CH- &amp; RH-TRU waste, and</li> <li>- Carrier contracts</li> </ul> This element also includes the following activities necessary for generator site interface; <ul style="list-style-type: none"> <li>- TRU Waste Corporate Board,</li> <li>- TRU waste inventory,</li> <li>- WIPP Waste Information System (WWIS),</li> <li>- Strategic planning</li> <li>- CH waste acceptance criteria</li> <li>- RH waste acceptance criteria</li> <li>- Implementation of WIPP Hazardous Waste Facility Permit requirements</li> <li>- Sampling and analysis of generator site waste streams</li> </ul>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.8.01		Shipping Services	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
44	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0090 (Transportation - WIPP)		EY9009900	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes the following activities necessary for TRU waste shipping;</p> <ul style="list-style-type: none"> <li>- Shipping coordination for the transport of TRU waste to WIPP, for inter and intra site shipments and other related and authorized activities as required by DOE.</li> <li>- Corridor readiness (STEP/CVSA/hospital training and exercise coordination, corridor emergency preparedness, and TRANSCOM)</li> <li>- Corridor outreach (administer cooperative agreements, resolve socio-political issues, interface with elected officials and provide briefings along corridors)</li> <li>- Type B Package maintenance,</li> <li>- CH- and RH- trailers procurement (including design and fabrication)</li> <li>- Mobile Loading Unit procurement</li> <li>- CH- and RH- trailer maintenance, and</li> <li>- Carrier contracts</li> </ul>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.1.8.02		Generator Site Interface	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
45	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP) CB-0081 (Central Characterization Project)		EY9009800 EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes the following activities associated with generator site interface;</p> <ul style="list-style-type: none"> <li>- TRU Waste Corporate Board (coordinate/facilitate meetings and provide technical support)</li> <li>- Maintain TRU Waste Inventory database</li> <li>- Operate and maintain WIPP Waste Information System (WWIS) database and associated software; provide technical support to generator sites</li> <li>- Develop high level strategic planning initiatives for the development of solutions to successfully manage and dispose of TRU waste</li> <li>- CH waste acceptance criteria revisions and maintenance</li> <li>- RH waste acceptance criteria revisions and maintenance</li> <li>- Provide WIPP Hazardous Waste Facility Permit (HWFP) implementation guidance to generator sites.</li> <li>- Review of generator site documentation in accordance with the WIPP HWFP.</li> <li>- Perform headspace gas and solids analysis on behalf of the generator sites.</li> </ul>			

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<b>12. PROJECT TITLE / PARTICIPANT</b>		<b>13. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		27 April 2007	
<b>14. WBS ELEMENT CODE</b>	<b>15. WBS ELEMENT TITLE</b>		
1.1.8.03	Waste Certification Support		
<b>16. INDEX LINE NO.</b>	<b>17. REVISION NUMBER AND AUTHORIZATION</b>		<b>18. DATE</b>
46	Rev. 0		27 April 2007
<b>19. APPROVED CHANGES</b>			
N/A			
<b>20. IDENTIFICATION NUMBER (PBS)</b>		<b>21. BUDGET AND REPORTING NUMBER</b>	
CB-0081 (Central Characterization Project)		EY9009810	
<b>22. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes the following activities associated with Acceptable Knowledge</p> <ul style="list-style-type: none"> <li>- LANL-CB Acceptable Knowledge (AK) support at sites having or potentially having defense-related transuranic waste, including but not limited to SRS, LANL, Hanford, SQS, INL, ORNL, and new sites as identified by CBFO</li> <li>- This includes CH &amp; RH AK activities as directed by CBFO</li> <li>- This includes subject matter expert evaluations of non-destructive assay and nondestructive examination as required to support AK.</li> </ul>			

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<b>23. PROJECT TITLE / PARTICIPANT</b>		<b>24. DATE</b>
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		27 April 2007
<b>25. WBS ELEMENT CODE</b>	<b>26. WBS ELEMENT TITLE</b>	
1.1.8.04	Shipping Site Waste Loading Services	
<b>27. INDEX LINE NO.</b>	<b>28. REVISION NUMBER AND AUTHORIZATION</b>	<b>29. DATE</b>
47	Rev. 0	27 April 2007
<b>30. APPROVED CHANGES</b>		
N/A		
<b>31. IDENTIFICATION NUMBER (PBS)</b>		<b>32. BUDGET AND REPORTING NUMBER</b>
CB-0081 (Central Characterization Project)		EY9009810
<b>33. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <ul style="list-style-type: none"> <li>- This element includes activities necessary for preparing and loading CH and RH TRU waste for shipment. This includes providing waste loading and transportation certification services as needed to support both shipments to the WIPP and intersite transfers on an as needed basis, as directed by CBFO. This activity may use mobile or fixed facilities, as available</li> </ul>		

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2		Disposal Operations	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
48	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility – WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes all activities required to conduct waste disposal operations at the WIPP site. It contains the scope needed to ensure the WIPP site is in compliance and capable of receiving and disposing of waste. This includes the following:</p> <ul style="list-style-type: none"> <li>- Waste Disposal (mining, CH and RH waste disposal, and panel closure)</li> <li>- Facility Projects (facility alterations/modifications, major restoration and construction projects)</li> <li>- 40 CFR 191/194 Compliance (recertification, compliance demonstration and change requests)</li> <li>- RCRA Compliance (HWFP renewal, compliance demonstration and HWFP modifications)</li> <li>- Other Environmental Compliance Programs (non-RCRA permits and compliance; and environmental monitoring)</li> <li>- Disposal Support (surface &amp; underground facility operations and maintenance, hoisting operations, safety &amp; health programs, security and operational readiness reviews)</li> </ul>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.1		Waste Disposal	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
49	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes the following activities that are directly related to waste disposal operations:</p> <ul style="list-style-type: none"> <li>- Panel mining</li> <li>- CH Waste Emplacement (e.g., CH waste disposal &amp; handling programs and CH disposal system/process modifications)</li> <li>- RH Waste Emplacement (e.g., RH waste disposal &amp; handling programs and RH disposal system/process modifications)</li> <li>- Panel closure</li> </ul>			

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003
<b>3. WBS ELEMENT CODE</b> 1.2.1.01	<b>4. WBS ELEMENT TITLE</b> Panel Mining	
<b>5. INDEX LINE NO.</b> 50	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 1	<b>7. DATE</b> 30 April 2006
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0080 (Operate Waste Disposal Facility - WIPP)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009800
<b>11. ELEMENT TASK DESCRIPTION</b>  a. Cost Content Direct Labor Material Procurement Subcontractor Efforts G&A Travel Training  b. Technical Content  This element includes activities necessary to excavate new openings such as rooms, main entries and overcasts, maintain existing openings; and outfitting of support systems (i.e., electrical, ventilation, bulkheads and compressed air ) to prepare the panels for CH and RH waste emplacement.		

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.1.02		CH Waste Emplacement	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
51	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes all activities required to receive, unload, process, download and emplace CH-TRU waste at WIPP. Also included are the activities for CH disposal system technical support, design control and process modification.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.1.03		RH Waste Emplacement	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
52	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes all activities required to receive, unload, process, download and emplace RH-TRU waste at WIPP. Also included are the activities for RH disposal system technical support, design control and process modification.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 01 October 2003
<b>3. WBS ELEMENT CODE</b> 1.2.1.04	<b>4. WBS ELEMENT TITLE</b> Panel Closure	
<b>5. INDEX LINE NO.</b> 53	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 1	<b>7. DATE</b> 30 April 2006
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0080 (Operate Waste Disposal Facility - WIPP)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009800
<b>11. ELEMENT TASK DESCRIPTION</b>  a. Cost Content Direct Labor Material Procurement Subcontractor Efforts G&A Travel Training  b. Technical Content  This element includes activities necessary for the installation of the Hazardous Waste Facility Permit (HWFP) required panel closure that isolates each Hazardous Waste Disposal Unit (HWDU) panel from the rest of the underground areas. Activities include items such as design, procurement, construction and keyway excavation.		

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.2		Facility Projects	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
54	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes design and construction activities necessary for facility upgrades including alterations, modifications, major restorations and general plant projects (GPP). This element also includes work related to the remediation of the salt pile located at the WIPP site.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.2.01		Facility Modifications and Construction	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
55	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element consists of design and construction activities for GPP, and alteration, modification, major restoration of plant facilities, utilities, systems, pavements, grounds and process equipment. This also includes scope related to the remediation of the salt pile.</p>			

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<b>12. PROJECT TITLE / PARTICIPANT</b>		<b>13. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>14. WBS ELEMENT CODE</b>		<b>15. WBS ELEMENT TITLE</b>	
1.2.2.02		Facility Modifications and Construction - II	
<b>16. INDEX LINE NO.</b>	<b>17. REVISION NUMBER AND AUTHORIZATION</b>		<b>18. DATE</b>
56	Rev. 1		16 May 2006
<b>19. APPROVED CHANGES</b>			
N/A			
<b>20. IDENTIFICATION NUMBER (PBS)</b>		<b>21. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>22. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element is a continuation of WBS element 1.2.2.01. It was created to provide additional Level 5 numbers so each project could have a unique number. The workscope consists of design and construction activities for GPP, and alteration, modification, major restoration of plant facilities, utilities, systems, pavements, grounds and process equipment. This also includes scope related to the remediation of the salt pile.</p>			

<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.3		40 CFR 191/194 Compliance	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
57	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities required to comply with 40 CFR 191/194 the EPA's certification and recertification decisions and associated monitoring requirements, and to develop modification requests (i.e., planned and unplanned change notices), and impact analyses. It includes activities to collect and analyze data that support change notices, preparation of recertification applications, and preparation of annual and other required reports. Assessments and surveillances also are included in this element to ensure compliance with the 40 CFR 191/194 certification and recertification decisions. The Level 4 elements consist of the following:</p> <ul style="list-style-type: none"> <li>- Recertification</li> <li>- Compliance Demonstration</li> <li>- Change Requests</li> </ul>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.3.01		Recertification	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
58	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities needed to meet the planning, documentation development, data compilation and analysis, and reporting requirements for recertification contained in Subparts B &amp; C of 40 CFR 194 (recertification is defined in Section 8(f)(1) Public Law 102–579, Land Withdrawal Act) and to conduct post recertification application submittal activities. This element includes activities that are needed for construction, maintenance and qualification of the data/parameters, mathematical and numerical models for the performance assessment (PA) computational system and for planning and conducting repository investigations (e.g., chemical conditions (actinide studies) chemical and physical interactions and engineered barriers. This element also includes activities necessary for developing conducting and implementing peer reviews and the evaluation and coordination with the international community regarding radioactive waste disposal program developments and technology.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.3.02		Compliance Demonstration	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
59	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities and programs required to ensure compliance with the requirements in Title 40 CFR 191 (Subparts B &amp; C) and 194, maintain compliance with May 18, 1998 EPA Certification Decision (including 194.8 and Appendix A which contains four conditions of approval) and any changes to the original certification decision for WIPP. Activities in this element also include, but are not limited to;</p> <ul style="list-style-type: none"> <li>- Performance demonstration program (PDP) for non-destructive assay,</li> <li>- Planning, sampling, analyzing, tracking and reporting on Assurance Requirements (e.g., active institutional controls, passive institutional controls, compliance monitoring) or other parts of the requirements.</li> </ul> <p>The 191/194 compliance monitoring and passive institutional controls programs include planning, monitoring/sampling, evaluating, and reporting on: regional groundwater movement and chemistry (i.e., deep groundwater monitoring), permanent markers prototype design and testing and Delaware Basin monitoring.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.3.03		Change Requests	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
60	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities for preparing (e.g., data compilation, data evaluation and impact analysis), submitting and implementing modification requests (planned and unplanned changes) to the EPA and the development and submittal of the annual change report required in 40 CFR 194.4(b)(4). This element includes activities and programs (e.g., geochemistry, geohydrology, engineered barriers, etc.) that gather data for justifying changes to the EPA certification in areas such as disposal operations and/or waste characterization.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.2.4	RCRA Compliance		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
61	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities to ensure that WIPP operations are in compliance with the Resource Conservation and Recovery Act (RCRA) and the RCRA Hazardous Waste Facility Permit (HWFP) for WIPP, renewal of the HWFP and preparing, submitting and implementing HWFP modifications. The activities in this element also provide for the management of the RCRA Hazardous Waste Facility Permit including, but not limited to: RCRA compliance assurance (e.g., maintaining the operating record, filing required reports, addressing solid waste management units), RCRA generator compliance, volatile organic compound (VOC) monitoring, RCRA groundwater monitoring, RCRA Permit compliance and maintenance (e.g., RCRA permit modifications), performance demonstration program (PDP) for RCRA constituents and other associated RCRA/HWFP required monitoring, sampling and reporting. The Level 4 elements consists of the following;</p> <ul style="list-style-type: none"> <li>- Hazardous Waste Facility Permit Renewal</li> <li>- Compliance Demonstration (e.g., PDP for RCRA constituents)</li> <li>- Hazardous Waste Facility Permit Modifications</li> </ul>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.4.01		HWFP Renewal	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
62	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities needed to meet the planning, documentation development, data compilation and analysis, review, submittal and post-submittal activities for renewal of the WIPP HWFP.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.2.4.02	Compliance Demonstration		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
63	Rev. 0		27 April 2007
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP) CB-0081 (Central Characterization Project)		EY9009800 EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities and programs required to ensure compliance with the Resource Conservation and Recovery Act (RCRA) requirements, maintain compliance with the WIPP Hazardous Waste Facility Permit (HWFP) and any changes to the WIPP HWFP. The activities in this element provide for the management of the programs for RCRA requirements and the WIPP HWFP including, but not limited to: RCRA compliance assurance (e.g., maintaining the operating record, filing required reports, addressing solid waste management units), RCRA generator compliance, volatile organic compound (VOC) monitoring, RCRA (HWFP required) groundwater monitoring (e.g., shallow ground water monitoring), and other associated RCRA required monitoring, sampling and reporting. This element also includes activities necessary for the performance demonstration program (PDP) for RCRA constituents (including headspace gas PDP).</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.4.03		HWFP Modifications	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
64	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities for the planning (e.g., data compilation, data evaluation and impact analysis), documentation preparation, review, submittal support for public hearings, interface with the New Mexico Environment Department, and implementation of the WIPP HWFP permit modifications.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.5		Other Environmental Compliance Programs	
<b>5. INDEX LINE NO.</b>	<b>6. REVISIONNUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
65	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary to conduct regulatory oversight (i.e., Federal, state &amp; DOE Orders and guidance) and environmental planning and reporting, maintain compliance with environmental laws and regulations and to develop modifications and changes to permits and/or certifications. This element consists of the following:</p> <ul style="list-style-type: none"> <li>- Compliance with Non-RCRA Permits (e.g., Air Quality Permit for diesel generators, Toxic Substances Control Act (TSCA) Permit).</li> <li>- Environmental Monitoring (e.g., ground water, air effluent monitoring &amp; surface/storm water discharge)</li> <li>- Environmental Planning and Reporting (e.g., Land Withdrawal Act activities including BECR, Land Management and NEPA)</li> <li>- Implementation of RCRA generator and special waste compliance programs</li> </ul>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.5.01		Non-RCRA Permits and Compliance	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
66	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities to ensure that WIPP operations are in compliance with all applicable Federal, state and local environmental permitting requirements. This element includes activities for conducting regulatory research and oversight on existing, proposed and/or new requirements, Executive Orders, DOE Orders, DOE guidance and related documentation that may affect WIPP. This element also includes activities to maintain the WIPP Environmental Management System, compliance with and management of non-RCRA permits, authorizations and Acts including, but not limited to: Air Quality Permit for diesel generators, Sewage System Discharge Plan, Clean Water Act, Clean Air Act, Pollution Prevention/Waste Minimization and Toxic Substances Control Act (TSCA) Permit. Also included in this element is the shallow ground water monitoring program, implementation of all RCRA generator and special waste programs, and implementation of a WIPP Pollution Prevention Program.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.5.02		Environmental Monitoring	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
67	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes WIPP site sampling and monitoring activities that are conducted at WIPP to ensure environmental compliance. Environmental monitoring includes but is not limited to the following: air quality monitoring (e.g., NESHAPS, ambient, meteorological, 40 CFR 191 Subpart A), surface/storm water discharge monitoring (e.g., DP-831, evaporation basins), soil and vegetation sampling, and biological monitoring.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.5.03		Environmental Planning and Reporting	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
68	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes WIPP site short- and long-term environmental planning and reporting programs and activities that are conducted to ensure WIPP maintains proactive environmental awareness and environmental compliance. Activities and programs in this element include, but are not limited to, the following; Land Withdrawal Act requirements (e.g., Biennial Environmental Compliance Report), National Environmental Policy Act (NEPA) evaluations/analyses and reporting, Land Management Planning and reporting, Emergency Planning and Community Right to Know Act report, Annual Site Environmental Report and other environmental reports as required.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.6		Disposal Support	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBERS AND AUTHORIZATION</b>		<b>7. DATE</b>
69	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities not directly related to waste characterization and disposal operations that are required to maintain and operate the WIPP site in a safe and compliant manner. The Level 4 elements consist of the following:</p> <ul style="list-style-type: none"> <li>- Surface Operations – activities for operating the WIPP surface facilities</li> <li>- Underground Operations – maintaining the structural integrity of the underground and operation of underground systems and facilities</li> <li>- Hoisting Operations – operation and maintenance of hoists and shafts</li> <li>- Facility Maintenance (surface &amp; underground)</li> <li>- Safety, Health &amp; Authorization Basis Programs</li> <li>- Security</li> <li>- Emergency Management – emergency preparedness/response</li> </ul>			

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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.2.6.01	Surface Operations		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
70	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities for operating and monitoring the WIPP surface facilities, systems and equipment, including electric power distribution, compressed air, domestic water, waste water treatment, heating and ventilation, communication (e.g., Central Monitoring Room, Emergency Operations Center) and fire detection, protection and suppression systems, the energy management program, and administering subcontracts for domestic services.</p> <p>This element also includes activities such as work control and facility planning, drafting, configuration control, site landlord program, real property management (FIMS), required to issue, schedule, and maintain history of equipment maintenance at WIPP, CAS/CAIS facility inspections, support of hazardous waste shipments, and furniture installations, relocation, reconfiguration and ergonomic enhancements.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.6.02		Underground Operations	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
71	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>Included in this element are activities for the operation and monitoring of underground facilities, systems and equipment, maintaining structural integrity of the underground to ensure the continued safe U/G access and operations, and technical support and cognizant systems engineering for U/G facility excavation and U/G systems such as electrical distribution, compressed air, ventilation, communications and fire detection/suppression.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.6.03		Facility Maintenance	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
77	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility – WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes all administrative, engineering and craft labor to perform preventive, corrective and minor modification maintenance for surface and underground plant facilities, utilities, systems, pavements, grounds, stationary and mobile equipment, tool crib, and support equipment.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.6.04		Safety, Health & Authorization Basis Programs	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
73	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary to ensure that safety and health programs and Integrated Safety Management Systems are in place at WIPP. This element also includes maintenance and updates to the Functions, Responsibilities, and Authorities Manual (FRAM). Activities such as the following are included;</p> <ul style="list-style-type: none"> <li>- Industrial safety (e.g., Worker Protection Program, Volunteer Protection Program, etc.)</li> <li>- Industrial hygiene - (i.e., ensures that WIPP related work processes incorporate operational and occupational guidelines for a safe and healthful work environment)</li> <li>- Safety Analysis Reports - (i.e., CH and RH safety analysis programs and activities directed at analyzing operational hazards and postulated accidents to develop safety bases for processes and facilities, and at ensuring operating processes and facilities remain within approved authorization basis and safety envelopes)</li> <li>- Radiological safety – (i.e., CH radiation monitoring systems, RH radiation monitoring systems, and radiological effluent sampling/monitoring, dosimetry and annual update/revision to the M&amp;OC Radiological Safety Program Plan).</li> <li>- Occupational medical services – (i.e., directed at providing appropriate occupational medical services to employees, and ensuring that adequate medical supervision is included in evaluation of hazards and work processes)</li> <li>- Radiological laboratory services – (i.e., directed at providing radiological (e.g., whole body counts), radiochemical and environmental analyses to support WIPP operations)</li> <li>- Vital Safety Systems (VSSs) – Maintain continued operability and control configuration of the eight VSSs at WIPP. Ensure institutionalization of the WIPP VSSs program.</li> <li>- Technical Qualification Program (TQP) – Establish and maintain the CBFO TQP to ensure federal staff technical competency.</li> <li>- Fire protection program</li> </ul>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.6.05		Security	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
74	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0020 (Safeguards & Security)		FS3008	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes all activities associated with the operation and maintenance of the WIPP security program including but not limited to physical security (e.g., access controls, fences, gates, keys, locks and combinations, lighting, intrusion detection systems and remote monitoring systems in town and at the WIPP) personnel security (e.g., security clearances, infractions, background investigations and intelligence and counterintelligence activities) and cyber security.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.2.6.06		Emergency Management	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
75	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP))		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes all activities associated with the development and implementation of an emergency management program (including but not limited to conducting drills and exercises) for the following:</p> <ul style="list-style-type: none"> <li>- Emergency preparedness</li> <li>- Emergency response</li> <li>- Radiological Assistance Program (RAP)</li> </ul>			

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<b>12. PROJECT TITLE / PARTICIPANT</b>		<b>13. DATE</b>
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003
<b>14. WBS ELEMENT CODE</b>	<b>15. WBS ELEMENT TITLE</b>	
1.2.6.07	Hoisting Operations	
<b>16. INDEX LINE NO.</b>	<b>17. REVISION NUMBER AND AUTHORIZATION</b>	<b>18. DATE</b>
76	Rev. 1	30 April 2006
<b>19. APPROVED CHANGES</b>		
N/A		
<b>20. IDENTIFICATION NUMBER (PBS)</b>	<b>21. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP))	EY9009800	
<b>22. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary to conduct hoisting operations at the WIPP facility for movement of personnel, materials, equipment and TRU waste to and from the underground. Scope consists of operation and maintenance of the hoists and shafts, and technical support and cognizant system engineering.</p>		

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3		Capability Development and Enhancement Projects	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
77	Rev. 1		20 February 2007
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
CB-0081 (Central Characterization Project)		EY9009810	
CB – 0090 (Transportation)		EY9009900	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities, such as the following, for development and/or enhancement of characterization, transportation and disposal:</p> <ul style="list-style-type: none"> <li>- Type A Packaging Design and Fabrication</li> <li>- Type B Packaging Design, Fabrication, and NRC Certification</li> <li>- Waste Repackaging Units</li> <li>- Corporate Board Strategic Projects</li> </ul>			

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<b>3. WBS ELEMENT CODE</b> 1.3.1	<b>4. WBS ELEMENT TITLE</b> Type A Packaging Design and Fabrication	
<b>5. INDEX LINE NO.</b> 78	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 01 October 2003
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0090 (Transportation - WIPP)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009900
<b>11. ELEMENT TASK DESCRIPTION</b>  a. Cost Content Direct Labor Material Procurement Subcontractor Efforts G&A Travel Training  b. Technical Content  This element includes activities associated with CH-TRU Type A waste packaging development and fabrication projects such as the TRUPACT-III inner container.		

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.1.01		TRUPACT-III Inner Container	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
79	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0090 (Transportation - WIPP)		EY9009900	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities for design, development, testing and fabrication of Type A TRUPACT-III inner container (over pack). This WBS element also includes procurement of the container.</p>			

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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.3.2	Type B Packaging, Design, Fabrication, and NRC Certification		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
80	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0090 (Transportation - WIPP)		EY9009900	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to design, procurement and fabrication of Type B packaging; including TRUPACT-II, HalfPACT, TRUPACT-III, RH-72B, and 10-160B. This element includes but is not limited to;</p> <ul style="list-style-type: none"> <li>• Evaluation of Type B packaging design,</li> <li>• Preparation of authorization basis for modifications (as needed),</li> <li>• Obtaining design change approval, and implementing the change,</li> <li>• Certification of users (as required) and</li> <li>• Developing operations &amp; maintenance manuals</li> </ul>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.2.01		TRUPACT-II	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
81	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0090 (Transportation - WIPP)		EY9009900	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to designing (including design improvements), maintaining/ammending certificates of compliance and safety analysis reports for packaging, fabrication, procuring, and testing of TRUPACT-II's.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.2.02		HalfPACT	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
82	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0090 (Transportation - WIPP)		EY9009900	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to designing, maintaining/ammending certificates of compliance and safety analysis reports for packaging, procuring, fabricating, modifying, and testing HalfPACTs.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.2.03		TRUPACT-III	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
83	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0090 (Transportation - WIPP)		EY9009900	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to designing, maintaining/ammending certificates of compliance and safety analysis reports for packaging, procuring, fabricating, modifying, and testing TRUPACT-III.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.2.04		RH-72B	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
84	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0090 (Transportation - WIPP)		EY9009900	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to designing, maintaining/ammending certificates of compliance and safety analysis reports for packaging, procuring, fabricating, modifying, and testing RH-72B. This also includes activities for the development of operation and maintenance documentation and training of personnel, certification of the site to use packaging, and procurement of required ancillary facility equipment.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.2.05		RH 10-160B	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
85	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0090 (Transportation - WIPP)		EY9009900	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to designing, maintaining/ammending certificates of compliance and safety analysis reports for packaging, procuring or leasing, fabricating, modifying, and testing 10-160B. This also includes activities for the development of operation and maintenance documentation and training of personnel, certification of the site to use packaging, and procurement of required ancillary facility equipment.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.3		Repackaging Units	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
86	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes the activities for design, construction/fabrication, alterations, testing, and deployment waste repackaging equipment such as:</p> <ul style="list-style-type: none"> <li>- 4-Port glovebox</li> <li>- MOVER</li> </ul>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.3.01		4-Port Glovebox	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
87	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes the activities required for design, construction/fabrication, alterations, testing, and deployment of the 4-Port glovebox. This also includes activities for the development of operation and maintenance documentation, training of personnel, and certification of the site to use this repackaging unit.</p>			

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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.3.3.02	MOVER		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
88	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes the activities required for design, construction/fabrication, alterations, testing, and deployment of the MOVER. This also includes activities for the development of operation and maintenance documentation, training of personnel, and certification of the site to use this repackaging unit.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.4		Corporate Board Strategic Projects	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
89	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes projects, such as the following, for enhancing the TRU waste system for accelerated cleanup and closure of TRU waste sites;</p> <ul style="list-style-type: none"> <li>- Streamlining regulatory framework</li> <li>- Large box assay and examination</li> <li>- Shielded containers</li> <li>- Treatment</li> <li>- Size Reduction</li> <li>- ARROW-PAK</li> <li>- Hydrogen getters</li> <li>- Bag breachers</li> <li>- Central characterization facility and/or TRU waste hubs (including establishing regulatory framework and conducting cost benefit analyses)</li> </ul>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.4.01		Streamlining Regulatory Framework	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
90	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary to develop and establish streamlined regulatory framework for the WIPP program to allow more efficient operations.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.4.02		Large Box Assay and Examination	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
91	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities required for the design, development, testing, fabrication and deployment of large container, non-destructive assay and non-destructive examination characterization systems.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.4.03		Shielded Containers	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
92	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities for the design, development, testing, regulatory approval and fabrication of shielded containers for shipping RH waste as CH.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.4.04		Treatment	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
93	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for planning, analysis (e.g., cost benefit, waste type and TRU waste site applicability analyses) design, development, and testing/demonstration of waste treatment options, approaches and techniques.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.4.05		Size Reduction	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
94	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for design, development, and testing of size reduction approaches, techniques and/or systems (if applicable).</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.4.06		Robust Container	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
95	Rev. 1		30 April 2006
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for testing, modifying (design improvements), and acquiring regulatory approval for using a no-consequence alternative payload container.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.4.07		Hydrogen Getters	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
96	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for testing, modifying (design or deployment configurations), documenting and acquiring regulatory approval to use hydrogen gas getters for shipping TRU waste without repackaging.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.4.08		Bag Breacher	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
97	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities necessary for testing, modifying (design or deployment configurations), documenting and acquiring regulatory approval for use of a bag breacher (inner layer of confinement reduction) for shipping TRU waste without repackaging.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.3.4.09		Establish CCF and/or TRU Waste Hubs	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
98	Rev. 1		20 February 2007
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP) CB-0081 (Central Characterization Project)		EY9009800 EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities (i.e., regulatory framework &amp; cost benefit analysis) that enable the Carlsbad Field Office to establish a Central Characterization Facility (CCF) and/or TRU Waste hubs.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.4		Program Support	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
99	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility – WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes support activities such as quality assurance and administrative functions that are not directly related to waste characterization, transportation or disposal operations.</p>			

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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.4.1	Quality Assurance Program		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
100	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities for the development, implementation, and maintenance of a quality assurance (QA) program in accordance with the Quality Assurance Program Document DOE/CBFO-94-1012. This element includes the following scope:</p> <ul style="list-style-type: none"> <li>• QA program administration</li> <li>• Waste characterization QA</li> <li>• Quality engineering services</li> <li>• QA oversight of WIPP site operations</li> <li>• QA oversight of CBFO &amp; support organizations</li> </ul>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.4.1.01		Quality Assurance Program Administration	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
101	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes the management, administrative and professional support for quality related functions. Also included in this element are support type activities that develop, implement and maintain required elements of the CBFO QA Program. Scope includes:</p> <ul style="list-style-type: none"> <li>• QA organization management and clerical support</li> <li>• QA organization documents, procedures and records generation and maintenance</li> <li>• Corrective Action Tracking/Trending System</li> <li>• QA Program training</li> <li>• Price-Anderson Amendments Act Program</li> <li>• Processing, storage and retrieval of records in a records management system</li> <li>• RTR and NDE programs</li> <li>• Audits and surveillances to verify effective implementation of QAPD</li> </ul>			

**CARLSBAD FIELD OFFICE  
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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.4.1.02	Waste Certification Quality Assurance		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
102	Rev. 0		27 April 2007
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP) CB-0081 (Central Characterization Project)		EY9009800 EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <ul style="list-style-type: none"> <li>• This element includes activities for QA oversight related to certification of TRU-waste generator site quality-affecting activities for characterization, packaging, and transportation of TRU and TRU-mixed wastes to the WIPP site. These activities include but are not limited to review of site documents, participation in site audits, surveillances and subsequent corrective action follow-up activities and coordination with regulatory personnel.</li> </ul>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.4.1.03	Quality Engineering Services		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
103	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <ul style="list-style-type: none"> <li>• This element includes activities that provide professional support for WIPP site quality related functions. These activities include: <ul style="list-style-type: none"> <li>○ document review and oversight for general plant activities</li> <li>○ document review, software evaluation, review of waste stream profile forms and general support to WWIS activities</li> <li>○ maintain WIPP Software QA Program document</li> <li>○ maintain Qualified Supplier List and perform vendor evaluations</li> </ul> </li> </ul>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>12. DATE</b>
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003
<b>2. WBS ELEMENT CODE</b>	<b>3. WBS ELEMENT TITLE</b>	
1.4.1.04	Quality Assurance Oversight of WIPP Site Operations	
<b>INDEX LINE NO.</b>	<b>5. REVISION NUMBER AND AUTHORIZATION</b>	<b>6. DATE</b>
104	Rev. 0	01 October 2003
<b>7. APPROVED CHANGES</b>		
N/A		
<b>8. IDENTIFICATION NUMBER (PBS)</b>	<b>9. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)	EY9009800	
<b>10. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <ul style="list-style-type: none"> <li>• This element includes activities for routine QA oversight and quality control such as assessments, inspections and review of WIPP site operations and maintenance activities. These site activities include surface and underground operations and maintenance, waste receipt and emplacement, and procurement quality reviews such as receipt and source inspections.</li> </ul>		

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.4.1.05	Quality Assurance Oversight of CBFO & Support Organizations		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
105	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities for routine QA oversight of CBFO internal operations and quality affecting activities performed by CBFO Technical Assistance Contractor (CTAC), Sandia National Laboratories – Carlsbad (SNL-CBD), Los Alamos National Laboratory – Carlsbad (LANL-CBD), Carlsbad Environmental Monitoring and Research Center (CEMRC) and WTS. These activities include but are not limited to work performed for environmental monitoring and analysis, Compliance Recertification Application (CRA) support, repository performance assessment, and QA program elements.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.4.2	Administrative Programs		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
106	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes the administrative services required to achieve program objectives. These services include the following :</p> <ul style="list-style-type: none"> <li>- Project Planning and Control</li> <li>- Human Resource Administration</li> <li>- Procurement</li> <li>- Finance and Accounting</li> <li>- Information Services</li> <li>- Long-Term Records Center</li> <li>- Legal</li> <li>- Public Affairs</li> <li>- State &amp; Regional Impact Assistance</li> <li>- Oversight &amp; Interagency Programs</li> </ul>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.4.2.01	Project Planning & Control		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
107	Rev. 0		27 April 2007
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP) CB-0081 (Central Characterization Project)		EY9009800 EY9009810	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities that provide for a proactive project management system, including scope, schedule and cost baseline development and control, and performance analysis and reporting of cost, schedule, and technical progress. Included are the budget development and execution process, and the coordination and submission of all program data to the Integrated Planning, Accountability, and Budgeting System-Information System as well as other DOE long-range, multi-program plans.</p> <p>Also included in this element is the executive level of management which provides the overall technical, operational and administrative direction for all WIPP functions.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.4.2.02		Human Resources	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
108	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities for the administration and implementation of policies, programs and systems related to staffing, recruitment, organizational planning, management development, employee/labor relations, benefits, government compliance and salary administration.</p> <p>Also included in this element are activities for the analysis, design, development and implementation of all site technical training.</p>			

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<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
1.4.2.03		Procurement	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
109	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities associated with procurement, warehouse and property management. These are defined below:</p> <ul style="list-style-type: none"> <li>• Procurement provides for the purchase of goods and services by the award of purchase orders/contracts/subcontracts necessary to accomplish the mission of WIPP. This element will include the development, implementation and maintenance of formal procurement policies, practices, and procedures to be used in the award of purchase orders/contracts/subcontracts.</li> <li>• Warehouse includes a material management program for the administration of government assets received, shipped, stored and issued. This includes spare parts inventories and equipment held for future projects.</li> <li>• Property management includes a personal property management program that ensures protection and accountability of government assets. This includes the administration and maintenance of the GSA vehicle fleet.</li> </ul>			

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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.4.2.04	Finance & Accounting		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
110	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities that support a system of financial accountability and control. The primary focus is financial; including maintenance and distribution of cost information in accordance with governmental requirements and generally accepted accounting principles and cost accounting standards. Major activities include general ledger accounting and cost distribution, payroll and labor distribution, and general disbursements (accounts payable, travel, and relocation).</p>			

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<b>3. WBS ELEMENT CODE</b> 1.4.2.05	<b>4. WBS ELEMENT TITLE</b> Information Services	
<b>5. INDEX LINE NO.</b> 111	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 01 October 2003
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0080 (Operate Waste Disposal Facility - WIPP)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009800
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes document services (document control, editorial services, printing and duplicating), information resource management (applications development and support, network and systems operation, and hardware/software technical support), radio and telecommunications, technical library services, and mail processing and delivery services.</p>		

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<b>3. WBS ELEMENT CODE</b> 1.4.2.06	<b>4. WBS ELEMENT TITLE</b> Long-Term Records Center	
<b>5. INDEX LINE NO.</b> 112	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 27 April 2007
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0080 (Operate Waste Disposal Facility - WIPP) CB-0101 (Economic Assistance to the State of New Mexico)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009800 EY9009100
<b>11. ELEMENT TASK DESCRIPTION</b>  a. Cost Content Direct Labor Material Procurement Subcontractor Efforts G&A Travel Training  b. Technical Content  This element includes activities necessary to plan, develop, and implement a long-term records center.		

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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.4.2.07	Legal		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>	<b>7. DATE</b>	
113	Rev. 0	01 October 2003	
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities to provide legal advice and services for the programs, projects and functions for which the Carlsbad Field Office is responsible.</p>			

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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.4.2.08	Public Affairs		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
114	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities that establish the corporate identity for the Carlsbad Field Office and WIPP. These activities are necessary for all Carlsbad Field Office interactions with the public, media, stakeholders, government offices and special events. Examples include: Media relations, emergency public information, community relations, WIPP Information Center, special events, public outreach communication services and publications, exhibits, and site tours.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>
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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>	
1.4.2.09	State and Regional Impact Assistance	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>	<b>7. DATE</b>
115	Rev. 0	01 October 2003
<b>8. APPROVED CHANGES</b>		
N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>
CB-0101 (Economic Assistance to the State of New Mexico)		EY0909101
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <p style="padding-left: 20px;">Subcontracts</p> <p>b. Technical Content</p> <p>This element includes activities to provide funding from appropriations related to the impact of WIPP on the State of New Mexico and Eddy and Lea County region. This element includes payment to the State of New Mexico for infrastructure and road improvements in connection with the Waste Isolation Pilot Plant as provided for in Section 15 of Public Law 102-579 "WIPP Land Withdrawal Act" and the "1997 Defense Authorization Act".</p>		

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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
1.4.2.10	Oversight & Interagency Programs		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
116	Rev. 1		27 April 2007
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP) CB-0090 (Transportation – WIPP) CB-0101 (Economic Assistance to the State of New Mexico)		EY9009800 EY9009810 EY9009100	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <p style="padding-left: 40px;">Subcontracts</p> <p>b. Technical Content</p> <p>The element includes those activities related to oversight organizations (e.g., National Academy of Sciences, Environmental Evaluation Group, Carlsbad Environmental Research and Monitoring Center, etc.) that provide independent evaluations and/or monitoring. This element also includes interagency (e.g., U.S. Department of Interior, Bureau of Land Management) and other Federal and State (e.g., U.S. Environmental Protection Agency, U.S. Nuclear Regulatory Commission, State of New Mexico) regulatory compliance oversight activities.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 27 July 2005
<b>3. WBS ELEMENT CODE</b> 1.5	<b>4. WBS ELEMENT TITLE</b> Dismantlement and Decommissioning Phase	
<b>5. INDEX LINE NO.</b> 117	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 27 July 2005
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0080 (Operate Waste Disposal Facility – WIPP)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009800
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>After the Disposal Phase, the WIPP begins the Dismantlement and Decommissioning Phase of the project. This phase is defined in the Land Withdrawal Act as the period of time beginning with the end of the disposal phase and ending when all shafts at the WIPP repository have been backfilled and sealed.</p>		

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<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>	
1.5.1	Dismantlement and Decommissioning Phase	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>	<b>7. DATE</b>
118	Rev. 0	27 July 2005
<b>8. APPROVED CHANGES</b>		
N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>The Dismantlement and Decommissioning Phase includes the following scope:</p> <ul style="list-style-type: none"> <li>- surface decontamination</li> <li>- underground decommissioning</li> <li>- surface facility dismantlement</li> <li>- construction landfill disposal</li> <li>- infrastructure</li> <li>- environmental compliance</li> <li>- surveillance and groundwater monitoring</li> </ul>		

**CARLSBAD FIELD OFFICE  
WORK BREAKDOWN STRUCTURE DICTIONARY  
ELEMENT DEFINITION**

<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 27 July 2005
<b>3. WBS ELEMENT CODE</b> 1.5.1.01	<b>4. WBS ELEMENT TITLE</b> Dismantlement and Decommissioning	
<b>5. INDEX LINE NO.</b> 119	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 27 July 2005
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b> CB-0080 (Operate Waste Disposal Facility - WIPP)		<b>10. BUDGET AND REPORTING NUMBER</b> EY9009800
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>The Dismantlement and Decommissioning Phase includes the following scope:</p> <ul style="list-style-type: none"> <li>- Surface Decontamination – decontamination of surface facilities</li> <li>- Underground Decommissioning – dismantlement of underground facilities, installation of Panel 10 closure, plugging of boreholes, installation of shaft closures</li> <li>- Surface Facility Dismantlement – dismantlement of surface structures, fans, tanks, trailers, fencing, pavement, and railroad; perform final grading</li> <li>- Construction Landfill Disposal – disposal of material resulting from D &amp; D operations</li> <li>- Infrastructure – infrastructure activities such as engineering, radiological safety, facility operations and maintenance, industrial safety, business management procurement, and project management required to support the D &amp; D project</li> <li>- Environmental Compliance – coordination of RCRA Generator and special waste compliance programs, environmental compliance oversight, permitting and licensing</li> <li>- Surveillance and Groundwater Monitoring – groundwater monitoring to meet NMED and EPA requirements, subsidence monitoring, monitoring of drilling and mining activities and monitoring of disposal system performance</li> </ul>		

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ELEMENT DEFINITION**

<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003
<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>	
2.1	Underground Science	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>	<b>7. DATE</b>
120	Rev. 0	01 October 2003
<b>8. APPROVED CHANGES</b>		
N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities associated with the utilization of WIPP existing facilities and infrastructure in support of scientific research projects that could benefit from the uniqueness of the WIPP underground features. This element includes, but is not limited to, the XENON, the SEGA-MEGA and the OMNISita projects.</p>		

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
2.1.1	XENON		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>	<b>7. DATE</b>	
121	Rev. 0	01 October 2003	
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. 11. BUDGET AND REPORTING NUMBER</b>	
<b>12. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to providing facility infrastructure and acquiring regulatory approval in support of the XENON project.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003
<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>	
2.1.1.01	XENON Infrastructure	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>	<b>7. DATE</b>
122	Rev. 0	01 October 2003
<b>8. APPROVED CHANGES</b>		
N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to providing infrastructure support (e.g., power, telecommunication, etc.) for the XENON project.</p>		

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WORK BREAKDOWN STRUCTURE DICTIONARY  
ELEMENT DEFINITION**

<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
2.1.1.02	XENON Authorization Basis		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
123	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities for the evaluation of XENON project impacts to existing authorization basis (AB) and if needed, the development, approval and implementation of AB changes to ensure compliance with environmental, safety and security requirements.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
2.1.2	SEGA-MEGA		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
124	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to providing facility infrastructure and acquiring regulatory approval in support of the SEGA-MEGA project.</p>			

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ELEMENT DEFINITION**

<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
2.1.2.01		SEGA-MEGA Infrastructure	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>	<b>7. DATE</b>	
125	Rev. 0	01 October 2003	
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to providing infrastructure support (e.g., power, telecommunication, etc.) for the SEGA-MEGA project.</p>			

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ELEMENT DEFINITION**

<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
2.1.2.02		SEGA-MEGA Authorization Basis	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
126	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities for the evaluation of SEGA-MEGA project impacts to existing authorization basis (AB), and if needed, the development, approval, and implementation of AB changes to ensure compliance with environmental, safety and security requirements.</p>			

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ELEMENT DEFINITION**

<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003
<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>	
2.1.3	OMNISita	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>	<b>7. DATE</b>
127	Rev. 0	01 October 2003
<b>8. APPROVED CHANGES</b>		
N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to providing facility infrastructure and acquiring regulatory approval in support of the OMNISita project.</p>		

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003
<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>	
2.1.3.01	OMNISita Infrastructure	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>	<b>7. DATE</b>
128	Rev. 0	01 October 2003
<b>8. APPROVED CHANGES</b>		
N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities related to providing infrastructure support (e.g., power, telecommunication, etc.) for the OMNISita project.</p>		

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		01 October 2003	
<b>3. WBS ELEMENT CODE</b>		<b>4. WBS ELEMENT TITLE</b>	
2.1.3.02		OMNISita Authorization Basis	
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
129	Rev. 0		01 October 2003
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes activities for the evaluation of OMNISita project impacts to existing authorization basis (AB) and if needed, the development, approval, and implementation of AB changes to ensure compliance with environmental, safety and security requirements.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b>		<b>2. DATE</b>	
Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		27 July 2005	
<b>3. WBS ELEMENT CODE</b>	<b>4. WBS ELEMENT TITLE</b>		
2.1.4	Low Dose Radiation Biology		
<b>5. INDEX LINE NO.</b>	<b>6. REVISION NUMBER AND AUTHORIZATION</b>		<b>7. DATE</b>
130	Rev. 0		27 July 2005
<b>8. APPROVED CHANGES</b>			
N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>	
CB-0080 (Operate Waste Disposal Facility - WIPP)		EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Capital Asset Acquisition</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>Overhead</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes all activities conducted to establish a low dose radiation biology research capability at WIPP. The scope includes a major workshop or summit to solicit input for the design of an international low radiation background research facility and all follow on planning and development efforts.</p> <p>The Linear-No Threshold Hypothesis (LNT) is used to set rigid standards for radiation protection. Most EM clean up costs are a direct result of the LNT radiation protection standards. Cost benefit analyses show that DOE (and other agencies responsible for radiation protection) could save many billions of dollars if LNT were shown to be more conservative than necessary. A low radiation background facility (the WIPP underground) could provide the environment to test the validity of the LNT.</p>			

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 29 September 2010
<b>3. WBS ELEMENT CODE</b> 2.2	<b>4. WBS ELEMENT TITLE</b> Science & International Programs	
<b>5. INDEX LINE NO.</b> 1	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 29 September 2010
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b>  <b>CB-0080 (OPERATE WASTE DISPOSAL FACILITY – WIPP)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>  EY9009800
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element provides technical and scientific support, including reviews, analyses, recommendations, and evaluations to Carlsbad Field Office (CBFO) staff, as requested, in support of the Science and International Programs and the other programs within the CBFO Office of the Manager. The individuals providing the support will have a comprehensive knowledge of the Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit, Environmental Protection Agency's (EPA's) management and radioactive waste disposal standards (40 Code of Federal Regulations, Parts 191 and 194), and their historical context and evolution. Technical staff will have a working knowledge of Department of Energy (DOE) orders, manuals, guidance documents, and major programs, such as DOE's Office of Environmental Management, Office of Science, Office of Nuclear Energy, Office of Civilian Radioactive Waste Management, Office of Energy Efficiency and Renewable Energy, Office of Legacy Management, Office of Fossil Energy, and the Energy Information Administration.</p>		

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 29 September 2010
<b>3. WBS ELEMENT CODE</b> 2.2.1	<b>4. WBS ELEMENT TITLE</b> Science & International Programs	
<b>5. INDEX LINE NO.</b> 1	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0	<b>7. DATE</b> 29 September 2010
<b>8. APPROVED CHANGES</b> N/A		
<b>9. IDENTIFICATION NUMBER (PBS)</b>  <b>CB-0080 (OPERATE WASTE DISPOSAL FACILITY – WIPP)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>  EY9009800
<b>11. ELEMENT TASK DESCRIPTION</b>		
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p>This element includes the knowledge necessary of related programs that indirectly influence WIPP operations and compliance posture and planning, including:</p> <ul style="list-style-type: none"> <li>• Radioactive waste management programs, both planned or in operation in other countries</li> <li>• The National Nuclear Security Administration complex transformation initiative</li> <li>• The Nuclear Regulatory Commission review, licensing, and rulemaking process</li> <li>• The radioactive low-level waste management industry, including Section 11.e.2 facilities under the Atomic Energy Act and amendments</li> <li>• The EPA's contract laboratory program</li> <li>• The National Research Council and the National Academies of Science Board on Radioactive Waste</li> </ul>		

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<b>1. PROJECT TITLE / PARTICIPANT</b> Waste Isolation Pilot Plant (WIPP) – DOE Carlsbad Field Office (CBFO)		<b>2. DATE</b> 29 September 2010	
<b>3. WBS ELEMENT CODE</b> 2.2.1.1		<b>4. WBS ELEMENT TITLE</b> Technical and Scientific Support	
<b>5. INDEX LINE NO.</b> 1	<b>6. REVISION NUMBER AND AUTHORIZATION</b> Rev. 0		<b>7. DATE</b> 29 September 2010
<b>8. APPROVED CHANGES</b> N/A			
<b>9. IDENTIFICATION NUMBER (PBS)</b>  <b>CB-0080 (OPERATE WASTE DISPOSAL FACILITY – WIPP)</b>		<b>10. BUDGET AND REPORTING NUMBER</b>  EY9009800	
<b>11. ELEMENT TASK DESCRIPTION</b>			
<p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Direct Labor</li> <li>Material Procurement</li> <li>Subcontractor Efforts</li> <li>G&amp;A</li> <li>Travel</li> <li>Training</li> </ul> <p>b. Technical Content</p> <p><b>Science Support</b></p> <ul style="list-style-type: none"> <li>• Support for oversight of activities performed under the CBFO Office of Science and International Programs</li> <li>• Provide expertise in applying creative solutions to unique radioactive waste management issues</li> <li>• Provide support to integrate and coordinate waste technology development and technology transfer</li> <li>• Recommend and support strategic planning efforts to enhance the DOE Office of Environmental Management mission</li> <li>• Conduct regulatory-related research upon their science basis</li> <li>• Assist CBFO in representing WIPP to external DOE offices, other agencies, academia, nuclear research community, and the private sector on nuclear facility scientific and technological issues</li> <li>• Provide scientific and technical advice and guidance on repository science and compliance matters such as technology development, testing, reviews, assessments, and translation of findings into improved facility performance</li> </ul> <p><b>International Repository Program Development Support</b></p> <ul style="list-style-type: none"> <li>• Assist CBFO in coordinating international technology development activities</li> <li>• Support international information exchange on deep geologic waste disposal with other countries</li> <li>• Provide access to reputable scientific experts on long-lived radioactive waste disposal in deep geological systems</li> </ul>			