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## Operations/Field Office Data Summary - Part A: Site Summary

### S. SITE SUMMARY

#### S.1. Site Summary Name

Waste Isolation Pilot Project

#### S.2. Site Summary Narratives

##### S.2.1. "General Site Narrative" located in Section I of this document

##### S.2.2. Additional Opportunities Addressed (Section S.8. in the 2/28/97 SBS)

The WIPP site and its volume capacity are explicitly defined in congressional laws. Any change to what can be disposed at WIPP must be approved by congress. The Carlsbad Area Office works within the framework of the WIPP Land Withdrawal Act of 1992, as amended, to complete all requirements necessary to open and operate the WIPP. The only opportunities available are those on how the facility is operated and how the TRU waste is transported to WIPP.

WIPP was authorized by Public Law 96-164 to provide a research and development facility for demonstrating the safe disposal of radioactive waste produced by national defense activities. DOE's decision to proceed with WIPP at the southern New Mexico site followed a thorough NEPA review and was announced in the 1981 Record of Decision. Public Law 102-579, dated October 30, 1992, known as the WIPP Land Withdrawal Act of 1992 was modified by Public Law 104-201 dated September 1996 and is known as the WIPP Land Withdrawal Amendment Act of 1996. The WIPP Disposal Phase Final Supplemental Environmental Impact Statement, dated September 1997, defines the alternatives reviewed for TRU waste. The Record of Decision selects WIPP as the desired alternative.

The Land Withdrawal Act limits the amount and types of TRU waste that can be emplaced at WIPP. The limits include the following:

- WIPP capacity is limited to 175,600 cubic meters total TRU waste by volume
- No more than 5% by volume of RH-TRU waste may have a surface dose in excess of 100 rem per hour
- No RH-TRU waste may have a surface dose rate in excess of 1,000 rem per hour
- RH-TRU waste containers shall not exceed 23 curies per liter maximum activity level averaged over the volume of the container
- The total curies of RH-TRU waste shall not exceed 5,100,000 curies

##### S.2.3. Stakeholder and Tribal Nations Involvement (Section S.9. in the 2/28/97 SBS)

CAO has continuous interactions with State and Local stakeholders as well as interstate for transportation routes. Storage vs. disposal positions have been completed through the WIPP Supplemental Environmental Impact Statement Public Hearings and the Compliance Certification Application. CAO continues to follow stakeholder interactions in accordance with its stakeholder plan.

**Operations/Field Office Data Summary - Part A: Site Summary**

**S.3. Site Summary Assumptions (Section S.7. in the 2/28/97 SBS)**

| <b>Assumption</b> | <b>Assumption</b>  | <b>Project ID #'s Affected</b> |
|-------------------|--|--------------------------------|
| 1                 | WIPP will open in 1998   | CAO-1,CAO-2,CAO-3,CAO-4,CAO-6  |
| 2                 | FY 98 and FY 99 funding will be sufficient to meet the National TRU Waste Management Plan, Rev. 1 (NTWMP) schedule | CAO-1,CAO-3                    |
| 3                 | WIPP will receive non mixed TRU waste until the RCRA Part B permit is received from the State of New Mexico.       | CAO-1                          |
| 4                 | WIPP will receive only defense generated TRU waste   | CAO-1                          |
| 5                 | CAO will provide an Integrated Transportation System   | CAO-3                          |
| 6                 | TRU waste sites will have adequate road ready waste to meet the objectives of the TRU Waste Management Plan        | CAO-1,CAO-3                    |
| 7                 | Remote Handled waste will be disposed at WIPP starting in FY 2003  | CAO-1,CAO-3                    |
| 8                 | WIPP will be filled to capacity (175.6 thousand cubic meters) by FY 2033   | CAO-1                          |
| 9                 | All WIPP dismantlement and decommissioning will take 5 years (FY2034 - FY2038)                                     | CAO-4                          |
| 10                | Active institutional controls will be implemented in FY2039 and last for 100 years                                 | CAO-4                          |
| 11                | EPA will Re-certify the WIPP site as being in compliance with 40 CFR 194 every 5 years                             | CAO-2                          |

**S.4. Geographic Site Name**      Waste Isolation Pilot Project

**S.5. Geographic Site Narratives**

**S.5.1. EM Site End State (Section S.3. in the 2/28/97 SBS)**

After the repository is filled to capacity it will be sealed and active institutional controls will be initiated and maintained for 100 years. Low risk has been assigned based upon performance assessments included in the licensing of the WIPP facility, which requires no migration of hazardous or radioactive material for 10,000 years. Following completion of the project, there will be no access to the underground. The surface area will be unrestricted for recreational and agricultural uses with the exception of 124 acres which constitutes the exclusive use passive institutional control area.

**S.5.2. Future Site Stewardship (Section S.4. in the 2/28/97 SBS)**

US Government

**Operations/Field Office Data Summary - Part A: Site Summary**

**S.6. Geographic Site Name Waste Isolation Pilot Project**

**S.7. Completion Dates**

|   |                      |              |                  |                   |                |
|---|----------------------|--------------|------------------|-------------------|----------------|
|   | <b>Release Sites</b> | <b>Waste</b> | <b>Materials</b> | <b>Facilities</b> | <b>Overall</b> |
| <b>Planned Completion Date:</b>                           |                      |              |                  |                   | 9/30/2138      |
| Estimated Completion Date with Full Enhanced Performance: |                      |              |                  |                   | 9/30/2138      |
| Actual Completion Date:                                   |                      |              |                  |                   |                |

**S.8. Internal Land Use Performance Measures**

|  | Units | Total    | Prior to 1997 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|--|-------|----------|---------------|------|------|------|------|------|------|------|
| Total EM-encumbered Land                     | acres | 10,240.0 |               |      |      |      |      |      |      |      |
| Land Available for Alternative Future Use    | acres | 10,116.0 |               |      |      |      |      |      |      |      |
| Historical Land Released for Alternative Use | acres | 0.0      |               |      |      |      |      |      |      |      |
| Historical Land Released for Public Use      | acres | 0.0      |               |      |      |      |      |      |      |      |
| Land Intended to be Released for Public Use  | acres | 0.0      |               |      |      |      |      |      |      |      |
| EM-encumbered Land Remaining                 | acres | 124.0    |               |      |      |      |      |      |      |      |

|  | Units | Total    | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011-2070 |
|--|-------|----------|------|------|------|------|------|------|------|-----------|
| Total EM-encumbered Land                     | acres | 10,240.0 |      |      |      |      |      |      |      | 10,116.0  |
| Land Available for Alternative Future Use    | acres | 10,116.0 |      |      |      |      |      |      |      |           |
| Historical Land Released for Alternative Use | acres | 0.0      |      |      |      |      |      |      |      |           |
| Historical Land Released for Public Use      | acres | 0.0      |      |      |      |      |      |      |      |           |
| Land Intended to be Released for Public Use  | acres | 0.0      |      |      |      |      |      |      |      |           |
| EM-encumbered Land Remaining                 | acres | 124.0    |      |      |      |      |      |      |      |           |

**S.9. External Land Use Performance Measures**

| Geographic Area | Total Acres | Applicable Use | Medium Type   | Residual Contamination | Responsible Entity |
|-----------------|-------------|----------------|---------------|------------------------|--------------------|
| WIPP SITE       | 10,240      | OS: Open Space | Surface soils | None                   | EM: DOE/EM         |

**Operations/Field Office Data Summary - Part B: Site Summary**

**S.10. Site Summary Costs (All dollars in thousands)**

(Section A.4.b. in the 2/28/97 PBS)

| Category | 1997-2006<br>Total | 2007-<br>Completion<br>Total | Grand Total | 1997    | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|----------|--------------------|------------------------------|-------------|---------|------|------|------|------|------|------|------|
|          |                    |                              |             | Planned |      |      |      |      |      |      |      |

**II. Transuranic Waste**

|                        |                  |                   |                   |                |                |                |                |                |                |                |                |
|------------------------|------------------|-------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>C. Disposal</b>     | <b>2,010,999</b> | <b>12,479,618</b> | <b>14,490,617</b> | <b>187,840</b> | <b>194,866</b> | <b>203,196</b> | <b>201,397</b> | <b>199,508</b> | <b>203,527</b> | <b>201,163</b> | <b>199,551</b> |
| <b>Escalation Rate</b> |                  | <b>0.00%</b>      | <b>2.70%</b>      | <b>2.70%</b>   | <b>2.70%</b>   | <b>2.70%</b>   | <b>2.70%</b>   | <b>2.70%</b>   | <b>2.70%</b>   | <b>2.70%</b>   | <b>2.70%</b>   |

|  |  |  |  |                |                |                |                |                |                |                |                |
|--|--|--|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Cost Baseline in Constant FY 1998 Dollars</b> |  |  |  | <b>187,840</b> | <b>194,866</b> | <b>197,854</b> | <b>190,947</b> | <b>184,183</b> | <b>182,953</b> | <b>176,074</b> | <b>170,071</b> |
|--|--|--|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|

| Category |  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011-<br>2015 | 2016-<br>2020 | 2021-<br>2025 |
|----------|--|------|------|------|------|------|------|---------------|---------------|---------------|
|----------|--|------|------|------|------|------|------|---------------|---------------|---------------|

**II. Transuranic Waste**

|                        |  |                |                |                |                |                |                |                  |                  |                  |
|------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|------------------|
| <b>C. Disposal</b>     |  | <b>204,944</b> | <b>215,007</b> | <b>223,256</b> | <b>231,104</b> | <b>231,260</b> | <b>237,967</b> | <b>1,311,626</b> | <b>1,513,167</b> | <b>1,745,676</b> |
| <b>Escalation Rate</b> |  | <b>2.70%</b>     | <b>2.70%</b>     | <b>2.70%</b>     |

|  |  |                |                |                |                |                |                |                |                |                |
|--|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Cost Baseline in Constant FY 1998 Dollars</b> |  | <b>170,076</b> | <b>173,736</b> | <b>175,658</b> | <b>177,053</b> | <b>172,515</b> | <b>172,851</b> | <b>880,160</b> | <b>888,763</b> | <b>897,451</b> |
|--|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|

| Category |  | 2026-<br>2030 | 2031-<br>2035 | 2036-<br>2040 | 2041-<br>2045 | 2046-<br>2050 | 2051-<br>2055 | 2056-<br>2060 | 2061-<br>2065 | 2066-<br>2070 |
|----------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|----------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|

**II. Transuranic Waste**

|                        |  |                  |                  |                  |                |                |                |                |                |                |
|------------------------|--|------------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>C. Disposal</b>     |  | <b>2,013,913</b> | <b>2,109,275</b> | <b>1,439,088</b> | <b>165,702</b> | <b>189,316</b> | <b>216,288</b> | <b>247,111</b> | <b>282,319</b> | <b>322,550</b> |
| <b>Escalation Rate</b> |  | <b>2.70%</b>     | <b>2.70%</b>     | <b>2.70%</b>     | <b>2.70%</b>   | <b>2.70%</b>   | <b>2.70%</b>   | <b>2.70%</b>   | <b>2.70%</b>   | <b>2.70%</b>   |

|  |  |                |                |                |               |               |               |               |               |               |
|--|--|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Cost Baseline in Constant FY 1998 Dollars</b> |  | <b>906,224</b> | <b>830,761</b> | <b>496,110</b> | <b>50,000</b> | <b>50,000</b> | <b>50,000</b> | <b>50,000</b> | <b>50,000</b> | <b>50,000</b> |
|--|--|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|

(Section B.2 in the FY 1999 Budget Update)

**Operations/Field Office Data Summary - Part B: Site Summary**

**S.11. Budget Data Entry**

**S.11.1. Environmental Closure Fund (CL), Long-term Cleanup and Waste**

Management (LT), or Project Completion Fund (CO)

LT

**S.11.2. Budget Table (All dollars in thousands)**

**Total Environmental Management**

| Account and Expense Type | B&R Code | 1997 | 1998 | 1999 | 2000 | Line Item # | Line Item Name |
|--------------------------|----------|------|------|------|------|-------------|----------------|
|                          |          | BA   | BA   | BA   | BA   |             |                |

Does this SSL contain budget items for Transuranic Waste?

II. Transuranic Waste

C. Disposal

|                              |           |                |                |                |                |          |                              |
|------------------------------|-----------|----------------|----------------|----------------|----------------|----------|------------------------------|
| EM Defense: GPP              | EW0210203 | 2,912          | 3,584          | 4,350          | 4,528          |          |                              |
| EM Defense: LI               | 39EW02100 | 752            | 176            | 0              |                | 95-D-402 | Permanent Electrical Service |
| EM Defense: OE               | EW0210203 | 180,348        | 168,427        | 178,515        | 187,278        |          |                              |
| EM Defense: CE               | EW0210203 | 3,937          | 1,679          | 726            | 1,802          |          |                              |
| <b>Total BA (calculated)</b> |           | <b>187,949</b> | <b>173,866</b> | <b>183,591</b> | <b>193,608</b> |          |                              |

**S.11.3. - Privatization Budget Data**

| Privatization B&R Code                     | 1997 BA | 1998 BA  | 1999 BA       | 2000 BA       | Line Item # | Line Item Name |
|--|---------|----------|---------------|---------------|-------------|----------------|
| EW0310203                                  |         | 21,000   | 19,605        |               | N/A         | Not Applicable |
| <b>Total Privatization BA (calculated)</b> |         | <b>0</b> | <b>21,000</b> | <b>19,605</b> | <b>0</b>    |                |

**Operations/Field Office Data Summary - Part B: Site Summary**

**S.12. Indirect Safety & Health Narratives**

(Direct Safety & Health Narratives are located in the PBS)

**S.12.1. Indirect S&H Narrative - Hazards: None**

**S.12.2. Indirect S&H Narrative - Controls: None**

**S.12.3. Indirect S&H Narrative - Work Performance**

Due to a changed in the way we do business, there are no indirect costs after FY97.

**S.12.4. Indirect S&H Narrative - Feedback and Continuous Improvement: None**

**S.13. Safety and Health Indirect Data**

(Section D.2.2. in the FY 1999 Budget Update is located in the PBS)

**S.13.1. Safety and Health Cost Reporting - Indirect Costs (All dollars in thousands)**

|                                     | 1997       | 1998     | 1999     | 2000     |
|-------------------------------------|------------|----------|----------|----------|
| A. Emergency Preparedness           |            |          |          |          |
| B. Fire Protection                  |            |          |          |          |
| C. Industrial Hygiene               |            |          |          |          |
| D. Industrial Safety                |            |          |          |          |
| E. Occupational Medicine            |            |          |          |          |
| F. Nuclear Safety                   |            |          |          |          |
| G. Radiation Protection             |            |          |          |          |
| H. Transportation Safety            |            |          |          |          |
| I. Management Oversight             | 260        | 0        | 0        |          |
| <b>Total S&amp;H Indirect Costs</b> | <b>260</b> | <b>0</b> | <b>0</b> | <b>0</b> |

(Section D.2.4. in the FY 1999 Budget Update has been removed)

(Section D.2.5. in the FY 1999 Budget Update is located in the PBS)

(Section D.2.6. in the FY 1999 Budget Update has been removed)

**S.13.2. Safety and Health FTE Reporting - Indirect Contractor FTEs**

|                                       | 1997        | 1998        | 1999        | 2000        |
|---------------------------------------|-------------|-------------|-------------|-------------|
| A. Emergency Preparedness             |             |             |             |             |
| B. Fire Protection                    |             |             |             |             |
| C. Industrial Hygiene                 |             |             |             |             |
| D. Industrial Safety                  |             |             |             |             |
| E. Occupational Medicine              |             |             |             |             |
| F. Nuclear Safety                     |             |             |             |             |
| G. Radiation Protection               |             |             |             |             |
| H. Transportation Safety              |             |             |             |             |
| I. Management Oversight               | 3.00        | 0.00        | 0.00        |             |
| <b>Total Indirect Contractor FTEs</b> | <b>3.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

**S.14. Critical Closure Path and Critical Events**

Not applicable

**Operations/Field Office Data Summary - Part B: Site Summary**