

5.0 Project Schedules and Milestones (FY 2006)

5.1 Establishing Project Schedules and Milestones

The SMP establishes the overall plan for remedial actions at the MMTS and milestones against which progress can be measured. The SMP also documents the overall plan for remedial actions at the MVP Site, which has been deleted. The SMP was first prepared in 1995 and was revised in 1998, 1999, 2000, 2001, 2002, and 2003. As stated in the 2003 SMP, Section 5.0, "Project Schedules and Milestones," will be updated yearly to reflect revised schedules agreed to by EPA, UDEQ, and DOE. SMP Section 5.0 for FY 2005 was updated in November 2004. This is the September 2005 update of Section 5.0 of the SMP which contains project schedules and milestones for FY 2006. The stipulated penalty milestones listed in this section are the enforceable milestones unless superseded by revised schedules agreed to by EPA, UDEQ, and DOE, or by amendments to the FFA.

5.1.1 Requirements of the Federal Facilities Agreement

Section XXX of the FFA states that "... [a]ll terms and conditions of this Agreement which relate to interim or final remedial actions, including corresponding timetables, deadlines, or schedules ... shall be enforceable." The FFA required DOE to submit a Work Plan establishing how DOE would complete the tasks required by the FFA and specific timetables and schedule for completion of remedial action. The FFA Work Plan was completed May 1989 and established the enforceable timetable for completion of primary documents identified in the FFA and completion of remedial action.

The scope of work, timetables, and schedule for remedial action presented in the FFA Work Plan were superseded by the RDWP (DOE 1992b). The RDWP was identified as a primary document and was submitted as a final document in January 1992. The RDWP established a revised timetable with specific stipulated penalty milestones. The stipulated penalty milestones were associated with submittal of primary design documents that would be generated as part of the remedial design and notice of award to subcontractors for remedial action work.

The SMP has been identified as a primary document. DOE, EPA, and UDEQ concurrence on the SMP has been the basis for establishing new enforceable milestones and nonenforceable target dates for all activities extending through completion of the Monticello Projects. The timetable in the RDWP was superseded by the timetables established in this SMP.

5.1.2 Enforceable Milestones and Nonenforceable Target Dates

Beginning in September 2004, DOE, EPA, and UDEQ concurrence on updates to Section 5.0, "Project Schedules and Milestones," will be the basis for establishing new enforceable milestones and nonenforceable target dates.

Enforceable milestones and nonenforceable target dates for the Monticello Projects are described in Tables 5-1 through 5-6. Enforceable milestones are identified for those activities in the Fiscal Year (FY) 2006 and the two subsequent FYs (2007 and 2008) for which stipulated penalties

may be assessed against DOE. Nonenforceable target dates are identified for those activities in subsequent out-years (FY 2009 and beyond) for which no stipulated penalties may be assessed against DOE. Target dates have also been established in the current and subsequent years for major activities that must be completed as interim, nonstipulatable milestones.

In view of budget cuts and future budget uncertainties, DOE faces a significant challenge in maintaining an environmental program that meets the rigorous schedule of DOE's compliance agreements, including FFAs, in a manner that maximizes use of the Department's resources. A key element in meeting this challenge is to develop an approach to setting milestones in FFAs that provides accountability, focuses resources on high priority activities, and recognizes fiscal and technical realities.

To meet these objectives, DOE has proposed and EPA and UDEQ have concurred on the 3-year (FY + 2) rolling milestone approach for establishing a schedule for completion of remedial action activities at the Monticello NPL Sites. Under this approach, schedule dates are designated as either "milestones" or "target dates." Milestones and target dates are established in consideration of the site's environmental budget allocation. Milestones are enforceable deadlines established for near-term (FY + 2) activities for which greater fiscal and technical certainty exists. Target dates are nonenforceable deadlines for longer-term activities (greater than FY + 2) and would be converted to milestones on an annual basis. Target dates may also be established in the FY +2 time frame and beyond for completion of activities leading to stipulated penalty milestones. Each year, after receipt of the Approved Funding Program that reflects the final Congressional appropriation for the current FY, existing milestones would be reviewed and adjusted if necessary. An additional year of milestones (the FY + 2 year) would also be established, adjusting the previous target dates if necessary.

Under DOE's proposed approach, DOE, EPA, and UDEQ would consider a variety of factors during the annual review and establishment of milestones and target dates. These include funding availability, latest information on cost estimates, site priorities identified through consultations between DOE, EPA, UDEQ, and stakeholders, new or emerging technologies, and other relevant factors. A renegotiation of milestones would occur in the event of insufficient Congressional appropriations. Out-year nonenforceable target dates would be established using realistic assumptions. DOE, EPA, and UDEQ would recognize the uncertainties associated with the long-term target dates that lay out DOE's strategic vision of how it ultimately plans to accomplish the project. Furthermore, DOE would provide the regulatory agencies and other stakeholders with an opportunity to have a meaningful voice in formulating the site budget and developing priorities at the site.

EPA and UDEQ agree to meet with DOE on an annual basis to renegotiate the milestone and target dates established in the SMP. However, the enforceable milestones described in Tables 5-1 through 5-6 for those activities in the current FY (2006) and the two subsequent FYs (2007 and 2008) may only be modified as part of this renegotiation or through the already existing procedures of the FFA. Further, EPA and UDEQ reserve the right to initiate any action deemed necessary to enforce these milestones. DOE, EPA, and UDEQ agree to abide by the existing procedure for resolution of disputes (Section XIV Resolution of Disputes, Monticello FFA [DOE 1988b]) and will make all reasonable efforts to informally resolve any disputes involving insufficient funding before invoking formal Dispute Procedures.

5.2 Project Milestones

Table 5-1 is a summary of the enforceable milestones through and including FY 2008. Table 5-2 lists all of the Monticello Projects documents that have been completed since the March 1995 version of the SMP or will be submitted to EPA and UDEQ for review and concurrence. The submittal date for a document is defined as the date the document is received by EPA and UDEQ. As work on the projects progresses, additional documents may be submitted. Additional documents will be identified in the FFA bi-monthly report as soon as it is determined that they are required. Issues critical to the completion of remedial action on the Monticello projects are discussed below.

Monticello Mill Tailings Site Operable Unit I—Millsite Remediation and Restoration

The milestone date for completion of restoration construction of the Millsite was extended from July 17, 2001, to August 31, 2001, to allow for completion of upland seeding activities. Construction was completed by this date. DOE will continue to monitor for maintenance issues related to Millsite restoration (i.e., stormwater and erosion control and revegetation issues).

Restoration of the Millsite continued in 2005. On July 27, 2004, DOE sent a letter to the City of Monticello informing them of noncompliance with provisions stated in Cooperative Agreement DE-FC01-00GJ79485 between the City and DOE. Attached to the letter were notes (signed by DOE and the City of Monticello) concerning an agreement and schedule in which the City would repair erosional features and maintain ditches, culverts, other drainage structures, and pathways. This letter also discussed enforcement actions that could be taken by DOE pursuant to 10 CFR 600.243 with regard to the City remedying the restoration deficiencies.

The City responded to the July 27, 2004, letter from DOE with a letter to DOE dated September 8, 2004. In summary, the City disagreed that they are in noncompliance with the Cooperative Agreement. Although all completion dates listed in the schedule referenced above have passed, the City stated that they will continue to work on problems referenced in DOE's letter but they object to close oversight of the work by federal agencies.

In FY 2005, the City and DOE agreed to jointly complete millsite restoration. A Millsite Restoration Plan comprising 32 specific items was finalized on February 24, 2005. The entity (e.g., the City or DOE) responsible for completing each item was identified in this plan. DOE completed each of the items they were responsible for by June 15, 2005. As of September 6, 2005, the City has not completed their portion of the work. Adequacy of the construction efforts is discussed in the 2005 Annual Inspection Report.

Monticello Mill Tailings Site Operable Unit II—Peripheral Properties

Completion reports, RARs, and closeout documentation for OU II have been completed for the non surface and ground water impacted properties. The only work remaining for OU II is submittal of Property Certification Letters to the City of Monticello for peripheral properties now owned by the City. DOE will submit these letters upon resolution of the maintenance and erosion control issues.

Monticello Mill Tailings Site Operable Unit III—Surface Water and Ground Water

On June 2, 2004, the final response for the MMTS was selected and documented in the *Record of Decision for the Monticello Mill Tailings (USDOE) Site Operable Unit III, Surface Water and Ground Water, Monticello, Utah*. The selected remedy for OU II consists of:

- Monitored natural attenuation, including comprehensive monitoring to evaluate its effectiveness. Specifically included as part of monitored natural attenuation is an evaluation of selenium concentration trends and the potential impacts of selenium concentrations on ecological receptors.
- Continued implementation and enforcement of the institutional controls that restrict use of the contaminated shallow alluvial aquifer and the restrictive easement that prohibits removal of contaminated sediments from the Montezuma Creek floodplain.
- Removal of the permeable reactive barrier (estimated in 2019), which was constructed as a full-scale treatability study during the Interim Remedial Action, when the permeable reactive barrier ceases to be effective in removing contaminants from the ground water.

An enhancement to the permeable reactive barrier was installed in June 2005. The enhancement consisted of a treatment cell designed to alleviate ground water mounding upgradient of the permeable reactive barrier.

All of the construction requirements listed in the Remedial Design/Remedial Action work plan necessary to complete the surface water and ground water monitoring system for OU III have been completed.

Since monitored natural attenuation was selected as the remedy for OU III, the Pre-Final Design for Water Remediation and Table 5-4, OU III Milestones and Target Dates if an Active Remedy is selected, are no longer necessary. A draft-final Post-Record of Decision Monitoring Plan was submitted to EPA and UDEQ on August 27, 2004. EPA and UDEQ are awaiting DOE's submission of a second statistical test evaluating the performance of monitored natural attenuation.

In the FY 2005 update of this document, Table 5-1 (Penalty Milestones in Fiscal Years 2005, 2006, and 2007) identifies preparation of a Consolidated LTSM Administrative Manual and LTSM Operating Procedures as an enforceable milestone with an option of completing the LTSM Operating Procedure for Surface and Ground Water in the event that the consolidated document can not be completed by the milestone date. DOE opted to complete the LTSM Operating Procedure for Surface and Ground Water in lieu of completing the Consolidated LTSM Administrative Manual and LTSM Operating Procedures at this time. The draft-final LTSM Operating Procedure for Surface and Ground Water and an updated LTSM Administrative Manual were submitted to EPA and UDEQ for review on July 13, 2005. Minor comments from EPA and UDEQ were incorporated and these documents were finalized on September 6, 2005. DOE commits to consolidating the LTSM Administrative Manual and LTSM Operating Procedures in FY 2006.

Monticello Vicinity Properties Site Operable Units A, B, C, D, E, F, G, and H

Remediation of the MVP site was completed on September 30, 1999, and the properties were proposed for deletion. The direct and final rule to delete the MVP site became effective February 28, 2000.

5.3 Enforceable Milestones and Nonenforceable Target Dates

Enforceable milestones and nonenforceable target dates have been established for submittal of primary documents to EPA and UDEQ, concurrence on property design documents, construction complete for OU II properties, construction complete for vicinity properties, and for submittal of Draft-Final Remedial Action Reports. The milestones and target dates for each OU for each project are summarized in Table 5-1 for FYs 2006, 2007, and 2008 and detailed listings are provided in Tables 5-3 to 5-6. Should there be inconsistencies in the tables or texts, stipulated penalty milestone dates are identified in Table 5-1. A time line showing major decision points and document submittal dates for MMTS is shown in Table 5-2.

Table 5-1. Penalty Milestones in Fiscal Years 2006, 2007, and 2008

| Monticello NPL Sites | |
|---|--------------------|
| Draft Consolidated LTSM Administrative Manual and LTSM Operating Procedures | May 6, 2006 |
| Draft-Final Consolidated LTSM Administrative Manual and LTSM Operating Procedures | September 6, 2006 |
| Revised Section 5.0 of Site Management Plan (draft-final) | September 30, 2006 |
| Revised Section 5.0 of Site Management Plan (draft-final) | September 30, 2007 |
| Revised Section 5.0 of Site Management Plan (draft-final) | September 30, 2008 |
| 2005 Annual Inspection Report | December 31, 2005 |
| 2006 Annual Inspection Report | December 31, 2006 |
| 5-Year Review Report for MVP | August 9, 2007 |
| 5-Year Review Report for MMTS | August 9, 2007 |
| 2007 Annual Inspection Report | December 31, 2007 |
| 2008 Annual Inspection Report | December 31, 2008 |

Table 5-2. List of Monticello Projects Documents, Submittal Dates, and Proposed Review Duration

| Site/Operable Unit/Task | Primary Documents | Secondary Documents | Other Documents |
|--------------------------------------|---|---|---|
| Monticello Mill Tailings Site | | | |
| Operable Unit I | | | |
| Wastewater Treatment Plant | | | WWTP Testing Plan February 1995 - (Complete) |
| Millsite Remediation | Design and Specification Package for Millsite Remediation Pre-Final, April 28, 1995 - (Complete) Final, July 12, 1995, (Complete) Final Concurrence, (Complete) | OU I Millsite Remediation Intermediate Design January 27, 1995 - (Complete) | Repository Access Area Design April 1995 - (Complete) |
| | | | Subcontractor Final Haul Road Design December 1995 - (Complete May, 1996) |
| | | | Subcontractor Final Decontamination Pad Design submittals Draft submitted for comments June 1996. Comments incorporated and revision sent July 1997. |
| | | | Threatened, Endangered and Sensitive Species Survey results July 1995 - (Complete) |
| | | | Archaeological Mitigation Plan May 1995 - (Complete) Results of Archaeological Mitigation Effort September 1995 - (Complete June, 1996) |
| Millsite Restoration | | Millsite Restoration Conceptual Design ¹ December 31, 1996 - (Complete) | |
| | | Millsite Restoration Intermediate Design May 1, 1999 ¹ - (Complete) | |
| | Millsite Restoration Design Pre-Final, November 30, 1999² (Complete July 18, 2000) Notice of Award (Complete August 28, 2000) | | |

Table 5-2 (continued). List of Monticello Projects Documents, Submittal Dates, and Proposed Review Duration

| Site/Operable Unit/Task | Primary Documents | Secondary Documents | Other Documents |
|---|---|--|---|
| Operable Unit I (continued) | | | |
| General to OU I | Haul Road Restoration Pre-Final Design, March 30, 2001 – (Complete) | | |
| | RD/RA Work Plan Draft, April 27, 1995 - (Complete) Draft-Final, August 25, 1995 - (Complete) Final Concurrence, September 24, 1995 (Complete) | | |
| | Explanation of Significant Difference and Notice Draft, March 22, 1995 - (Complete) Draft-Final, April 14, 1995 - (Complete) Public Notice of Availability, (Complete) | | |
| | | Remedial Action Report for the Repository and OU I Properties MP-01040-VL (South Portion) and MP-01080-VL Draft, April 29, 2004 Draft-Final, July 22, 2004, (Complete)³ | |
| | Millsite and Ground-Water Related Properties Completion Report Draft-Final, July 15, 2002 (Complete)³ | Remedial Action Report for OU I and II Surface and Ground Water Impacted Properties (Soil and Sediment Remediation), September 7, 2004 (Complete) | |
| | | OU I Millsite and Ground-Water Properties Remedial Action Report Draft, March 1, 2002 (Complete) ³ | |
| | | OU I Millsite and Ground-Water Properties Remedial Action Report Draft-Final, July 31, 2002 (Complete)³ | |
| Millsite and OU II Ground-Water Related Properties | | | |
| | | Remedial Action Report Millsite and Ground-Water Related Peripheral Properties ⁴ Draft, March 1, 2002 Draft-Final, July 22, 2004 (Complete) | Completion Report Millsite and Ground-Water Related Peripheral Properties ⁴ Draft, January 30, 2002 - 60 day review Property Certification letters distributed to property owners for 9 of 13 properties September 2004 (Complete) Preliminary Close Out Report, MMTS, OUs I, II, and III (EPA document) Draft-Final – September 30, 2004 (Complete) |

Table 5-2 (continued). List of Monticello Projects Documents, Submittal Dates, and Proposed Review Duration

| Site/Operable Unit/Task | Primary Documents | Secondary Documents | Other Documents |
|-------------------------|---|--|---|
| Operable Unit II | | | |
| | Remedial Action Designs (future completions only), Supplemental Standards Properties MP-00391 III, MP-01077, and MP-01041, February 16, 1999 - (Complete) | | Site Assessment Reports March 1995 (Complete) |
| | RD/RA Work Plan Draft, March 22, 1995 - (Complete) Draft-Final, July 20, 1995 - (Complete) Final Concurrence, (Complete) | | Final Completion Report Non-Ground-Water Related ⁵ Peripheral Properties (22) Draft, June 29, 2000 (Complete) Draft-Final, October 31, 2000 (Complete) |
| | Sampling and Analysis Plan for Non-Radiological Suspect Hazardous Substances - MP-00181 Phase IV Draft, May 5, 1995 - (Complete) Draft-Final, August 3, 1995 - (Complete) Final Concurrence, (Complete) | | |
| | Sampling and Analysis Plan for Non-Radiological Suspect Hazardous Substances - MP-00990 Draft, July 7, 1995 - (Complete) Draft-Final, November 4, 1995 - (Complete February 28, 1996) | | |
| | Alternatives Analysis for Soil and Sediment Draft, June 26, 1997 - (Complete) Draft-Final, February 2, 1998 - (Complete) Final Concurrence, September 30, 1998 - (Complete) | | |
| | Remedial Action Design for Soil and Sediment Draft-Final, March 23, 1998 - (Complete) Final Concurrence - May 19, 1998 - (Complete) | | |
| | Action Memorandum for Soil and Sediment Draft, December 16, 1997 - (Complete) Draft-Final, May 5, 1998 - (Complete) Final distribution, June 30, 1998 - (Complete) | | |
| | Supplemental Standards Applications for Soil and Sediment Draft, September 30, 1998 - (Complete) Draft-Final, January 20, 1999 - (Complete) Final Concurrence, July 1, 1999 - (Complete) | | |
| | | Remedial Action Report (Non-Ground-Water Related Peripheral Properties) ⁵ Draft, July 28, 2000 - (Complete) Draft-Final, October 30, 2000 - (Complete) | |
| | Place Partial Deletion Notice for Non-Ground-Water Related Peripheral Properties in the Information Repository August 13, 2003 (Complete) | | |

Table 5-2 (continued). List of Monticello Projects Documents, Submittal Dates, and Proposed Review Duration

| Site/Operable Unit/Task | Primary Documents | Secondary Documents | Other Documents |
|--------------------------|---|---|--|
| Operable Unit III | | | |
| | RI/FS Work Plan Draft-Final, September, 1995 – (Complete)* Final Concurrence, November 27, 1998 (due to final concurrence on RI) | | |
| | Remedial Investigation Report Draft, June 27, 1997 – (Complete) Draft-Final, February 2, 1998 - (Complete) Final Concurrence, November 27, 1998 – (Complete) | Human Health Risk Assessment Draft, March 18, 1997 - (Complete) Ecological Risk Assessment Draft, June 6, 1997 - (Complete) | |
| | Feasibility Study Report for Surface and Ground Water Draft (pre-IRA), September 2, 1997 – (Complete) Revised Draft (pre-IRA), March 30, 1998 – (Complete) | | |
| | Interim Proposed Plan Draft, February 11, 1998 – (Complete) Draft-Final, March 16, 1998 – (Complete) Final Concurrence, March 26, 1998 – (Complete) | | |
| | Interim ROD Draft, May 21, 1998 – (Complete) Draft-Final, August 17, 1998 – (Complete) Final, August 25, 1998 DOE signed August 25, 1998 Final Concurrence (ROD signed), September 29, 1998 - (Complete) | Remedial Action Report for the Interim Remedial Action Record of Decision OU III, September 28, 2004 - (Complete) | |
| | Interim Remedial Action Work Plan Draft, October 30, 1999 - (Complete) Draft-Final, October 30, 2000 - (Complete) | Interim Remedial Action Annual Status Report, August 30, 1999 Interim Remedial Action Progress Report, September 30, 2000 Interim Remedial Action Progress Report, August 30, 2001 | |
| | Remedial Investigation Addendum Draft, February 11, 2003 - 30 day review - (Complete) | | |
| | Draft Remedial Investigation Addendum/Focused Feasibility Study, May 19, 2003 - (Complete) Draft-Final, September 2, 2003 – (Complete) Final Concurrence, October 9, 2003 | Evaluation of PeRT Wall Treatability Study Draft-Final, September 30, 2002 - 60 day review (Complete) | Draft Annual Data Summary Report for OU III Oct 2004–April 2005 (Complete June 30, 2005) Annual Data Summary Report 2006 Annual Data Summary Report 2007 Annual Data Summary Report 2008 |
| | LTSM Operating Procedure Volume III - September 6, 2005 (Complete)** | | |

*The Draft-Final RI/FS Work Plan was never formally concurred on by EPA and UDEQ. DOE uses the date of November 27, 1998 when EPA and UDEQ concurred on the Final Remedial Investigation Report as the date of concurrence.

**The LTSM Operating Procedure Volume III and an updated LTSM Administrative Manual were completed in lieu of completing the consolidated LTSM Administrative Manual and Operating Procedures.

Table 5-2 (continued). List of Monticello Projects Documents, Submittal Dates, and Proposed Review Duration

| Site/Operable Unit/Task | Primary Documents | Secondary Documents | Other Documents |
|--|--|---|---|
| Operable Unit III | | | |
| | Proposed Plan for Surface and Ground Water, Draft, September 23, 2003 - 39 day review - (Complete) Draft-Final, November 3, 2003 (Complete) Final Concurrence, November 14, 2003 | | |
| | ROD for Ground Water and Surface Water Draft, December 15, 2003 Draft-Final, May 26, 2004 (Complete)³ Final Concurrence, (ROD signed) June 2, 2004 | | |
| | RD/RA Work Plan for MMTS OU III Draft, June 29, 2004 Draft-Final, August 20, 2004 (Complete)³ | | |
| | | Interim Remedial Action Report, OU III Surface and Ground-Water Monitored Natural Attenuation Draft-Final, September 28, 2004 (Complete) | MMTS OU III Post-Record of Decision Monitoring Plan* Draft-Final, August 27, 2004 (Complete) |
| Monticello Vicinity Properties Site | | | |
| | Radiological and Engineering Assessments OU F, Engineering Complete July 7, 1997 (Complete) OU G, Engineering Complete September 4, 1997 (Complete) OU H, Engineering Complete October 31, 1998 (Complete) 60 day review | | Last Draft-Final Completion Report submitted OU A July 7, 1997 (Complete) OU B December 11, 1997 (Complete) OU C June 27, 1997 (Complete) OU D December 31, 1997 (Complete) OU E January 16, 1998 (Complete) OU F March 12, 1999 (Complete) OU G January 30, 1999 (Complete) OU H April 29, 1999 (Complete) 60 day review |

*EPA and UDEQ have not completed their final review of this plan.

Table 5-2 (continued). List of Monticello Projects Documents, Submittal Dates, and Proposed Review Duration

| Site/Operable Unit/Task | Primary Documents | Secondary Documents | Other Documents |
|--|---|--|--|
| Monticello Vicinity Properties Site | | | |
| | Sampling and Analysis Plan for Non-Radiological Suspect Hazardous Substances at MS-00685/MS-00687 Draft, October 30, 1995 - (Complete) Draft-Final, February 27, 1996 - (Complete) | | Site Assessment Reports March 1995 - (Complete) |
| | Remedial Action Reports - Draft Final OU A - November 8, 1996 (Complete) OU B - December 24, 1997 (Complete) OU C - October 15, 1997 (Complete) OU D - March 18, 1998 (Complete) OU E - March 18, 1998 (Complete) OU F - December 24, 1997 (Complete) OU G - September 12, 1998 (Complete) OU H - April 29, 1999 (Complete) | | Site Boundary Proposal Draft, March 31, 1995 - (Complete) Draft-Final, May 1, 1995 - (Complete) Final, (Complete) |
| | Preliminary Close-out Report, April 29, 1999 (Complete) Final Concurrence on Close-out Report September 2, 1999 (Complete) | Publish Direct Final Rule in the Federal Register, December 30, 1999 (Complete) Site Deletion Effective February 28, 2000 | |
| General to Both Sites | | | |
| | Special Waste Management Plan March 7, 1995 - (Complete) Revision transmitted April 3, 1997 | | Health and Safety Plan April 1995 - (Complete) |
| | Monticello Site Management Plan Final, March 15, 1995 (Complete) Revision 4 (Complete) | | Prompt Alpha-Track Study for Monticello, Utah, Vicinity and Peripheral Properties March 1995 - (Complete) |
| | Community Relations Plan (revised) Draft, March 22, 1995 - (Complete) Draft-Final, (Complete) Final Concurrence, (November, 1995) Annual updates were prepared each year through 2001. | | Long-Term Surveillance and Maintenance Plans as included with supplemental standards applications. |
| | Supplemental Standards Documents Draft, March 31, 1995 - (Complete) Revised Draft November 4, 1996 (Complete) Reviewed December 23, 1996 (Complete) Final Documents Accepted July 1, 1999 (Complete) | | Air Monitoring Work Plan - resubmitted September 1997 |
| | Wetlands Master Plan Draft-Final, November 30, 1995 (Complete) | | |

Table 5-2 (continued). List of Monticello Projects Documents, Submittal Dates, and Proposed Review Duration

| Site/Operable Unit/Task | Primary Documents | Secondary Documents | Other Documents |
|------------------------------|---|---------------------|---|
| General to Both Sites | | | |
| | LTSM Administrative Plan Draft, June 13, 2000-(Complete) review concurrent with Vol I LTSM Procedures Vol II (Supplemental Standards) Draft, May 31, 2000 - (Complete) 30 day review LTSM Procedures Vol I (Repository and Millsite) Draft, August 15, 2000 - 60 day review (Complete) LTSM Administrative Manual Draft-Final, May 2, 2002 (Complete) LTSM Procedures Vol. I Draft-Final, May 2, 2002 (Complete) LTSM Procedures Vol. II Draft-Final, May 2, 2002 (Complete) LTSM Procedures Vol IV (Five year reviews) Draft, June 15, 2001 (Complete) LTSM Procedures Vol IV (Five year reviews) Draft-Final, May 2, 2002 (Complete) CERCLA Five-Year Review Reports for MMTS and MVP, June 21, 2002 (Complete) Draft-Final LTSM Administrative Manual and LTSM Operating Procedures Vol III, September 6, 2005 (Complete)⁵ Draft-Final Consolidated LTSM Administrative Manual and LTSM Operating Procedures September 6, 2006⁵ | | Supplemental Standards ESDs and Fact sheets Drafts, January 21, 1999 Public Notice Published, February 19 - March 4, 1999 Public Meeting, March 18, 1999 Public Comment Period, March 5 - April 5, 1999 Draft-Final with Comment Responses, April 19, 1999 (Complete) Wetlands Monitoring Report - 2004, February 28, 2005 (Complete) Final Results of Wetland Restoration and Monitoring at MMTS and MVP, February 25, 2005 (Complete) Final Wetland Monitoring Report Addendum, February 2006 (Complete) |
| | Site Management Plan Draft-Final, March 31, 2001 (Complete) Site Management Plan Addendum, Chapter 5, September 30, 2001 (Complete) Site Management Plan Revised, September 30, 2002 (Complete) Site Management Plan, October 9, 2003 (Complete) FY 2005 Site Management Plan Revised Chapter 5, September 30, 2004 FY 2006 Site Management Plan Revised Chapter 5, September 30, 2005 FY 2007 Site Management Plan Revised Chapter 5, September 30, 2006 CERCLA 5-Year Review Reports for MMTS and MVP, August 2007 | | Annual Inspection Report, January 5, 2004 (Complete) Annual Inspection Report, February, 2005 (Complete) Annual Inspection Report, December 31, 2005 Annual Inspection Report, December 31, 2006 Annual Inspection Report, December 31, 2007 |

Notes:

Stipulated Penalty Milestones deliverables are indicated in boldface type. All durations are shown in calendar days. The date for final concurrence assumes that dispute resolution is not invoked.

¹Restoration design was turned over to the City of Monticello in a Cooperative Agreement.

²Date missed. Schedule revised to reflect Cooperative Agreement with the City of Monticello. No enforcement action taken by EPA/UDEQ. Revised date shown in parenthesis.

³EPA, UDEQ, and DOE negotiated the milestone to this date without imposing penalties.

⁴Millsite and Ground-Water Related Peripheral Properties are: Millsite, MP-00179, MP-00181, MP-00391, MP-00951, MP-00990, MP-01077, MP-01084, MG-01026, MG-01027, MG-01029, MG-01030, and MG-01033.

⁵Non-Ground-Water Related Peripheral Properties are MP-00105, MP-00178, MP-00180, MP-00198, MP-00211, MP-00845, MP-00886, MP-00887, MP-00888, MP-00947, MP-00948, MP-00949, MP-00950, MP-00963, MP-00964, MP-00988, MP-01040, MP-01041, MP-01042, MP-01081, MP-01083, and MP-01102.

⁶The LTSM Administrative Manual and LTSM Operating Procedures Volume III, were completed in lieu of completing the consolidated LTSM Administrative Manual and Operating Procedures.

Table 5-3. Monticello Mill Tailings Site OU II Peripheral Property Milestones and Target Dates

| Peripheral Property | Milestone |
|--|---|
| MP-00105 (Suspect Hazardous Substance Property) | |
| Design Complete | December 30, 1996 (Complete March 6, 1996) |
| Construction Complete (target) | November 30, 1999 (Complete) |
| MP-00178 | |
| Design Complete (if required) | December 31, 1998 (Complete) |
| Construction Complete (target) | November 30, 1999 (Complete) |
| MP-00179 | |
| Design Complete | August 11, 1995 (Complete) |
| Construction Complete (target) | June 1, 2000 (Does not include pond) |
| MP-00180 | |
| Design Complete | (Included with MP-00845) |
| Construction Complete (target) | November 30, 1999 (Complete) |
| MP-00181 (Suspect Hazardous Substance Property) | |
| Sampling and Analysis Plan - Primary Document | August 3, 1995 (Complete) |
| Design Complete | April 10, 1996 (Complete) |
| Construction Complete (target) | November 30, 1999 (Complete) |
| MP-00198 | |
| Design Complete | May 7, 1992 (Complete) |
| Construction Complete (target) | May 19, 1993 (Complete) |
| MP-00211 (Suspect Hazardous Substance Property) | |
| Design Complete | April 10, 1996 (Complete) |
| Construction Complete (target) | November 30, 1998 (Complete) |
| MP-00391 (Supplemental Standards Property) | |
| Design Complete | February 16, 1999 (Complete) |
| Construction Complete (target) | November 30, 1999 (Complete) |
| MP-00845 | |
| Design Complete | December 31, 1998 (Complete) |
| Construction Complete (target) | July 31, 2000 |
| MP-00886 | |
| No Action Completion | |
| MP-00887 (Suspect Hazardous Substance Property) | |
| Design Complete | April 10, 1996 (Complete) |
| Construction Complete (target) | May 6, 1997 (Complete) |
| MP-00888 | |
| Design Complete | September 17, 1993 (Complete) |
| Construction Complete (target) | November 16, 1994 (Complete) |
| MP-00947 | |
| Design Complete | April 28, 1994 (Complete) |
| Construction Complete (target) | July 18, 1996 (Complete) |
| MP-00948 | |
| Design Complete | December 31, 1998 (Complete) |
| Construction Complete (target) | November 30, 1999 (Complete) |
| MP-00949 | |
| Design Complete | December 31, 1998 (Complete) |
| Construction Complete (target) | November 30, 1999 (Complete) |

Table 5-3 (continued). Monticello Mill Tailings Site OU II Peripheral Property Milestones and Target Dates

| Peripheral Property | Milestone |
|--|---|
| MP-00950, MP-00951, MP-00988, MP-01083, MP-01084 | |
| Design Complete | January 2, 1996 (Complete November 17, 1995) |
| Construction Complete (target) | February 24, 1999 (Complete) |
| MP-00963 | |
| Design Complete | April 20, 1993 (Complete) |
| Construction Complete (target) | December 12, 1995 (Complete) |
| MP-00964 | |
| Design Complete | December 10, 1991 (Complete) |
| Construction Complete (target) | August 12, 1992 (Complete) |
| MP-00990 (Suspect Hazardous Substance Property) | |
| Submit Sampling and Analysis Plan to EPA/Utah | November 4, 1995 (Complete February 28, 1996) ⁽¹⁾ |
| Design Complete | January 3, 1997 (Complete October 17, 1996) |
| Construction Complete (target) | September 30, 1997 (Complete) |
| MP-01040 | |
| Design Complete | July 31, 1998 (Complete) |
| Construction Complete (target) | November 30, 1998 (Complete) |
| MP-01041 (Supplemental Standards Property) | |
| Design Complete | February 16, 1999 (Complete) |
| Construction Complete (target) | November 30, 1999 (Complete) |
| MP-01042 | |
| Design Complete | August 11, 1995 (Complete) |
| Construction Complete (target) | November 30, 1998 (Complete) |
| MP-01077 (Supplemental Standards Property) | |
| Design Complete | February 16, 1999 (Complete) |
| Construction Complete (target) | November 30, 1999 (Complete) |
| MP-01080 (Repository Property) | |
| Design Complete | NA |
| Construction Complete (target) | NA |
| MP-01102 | |
| Design Complete | June 21, 1997 (Complete) |
| Construction Complete (target) | November 30, 1998 (Complete) |
| Montezuma Creek Soil and Sediment Properties | |
| Draft-Final Alternatives Analysis | February 2, 1998 (Complete) |
| Draft-Final Action Memorandum | May 5, 1998 (Complete) |
| Draft-Final Remedial Action Design | March 23, 1998 (Complete) |
| Draft-Final Supplemental Standards Applications | January 20, 1999 (Complete) |
| Complete Remedial Action (including restoration) | July 28, 1999 (Complete) |
| OU II Construction Completion (target)⁽²⁾ | |
| OU II Draft-Final Remedial Action Report for Non-Ground-Water Related Peripheral Properties ⁽³⁾ | July 31, 2000 October 30, 2000 (Complete) |

(1) Milestone was not missed because comments specific to the SAP were not received. The document was revised based on comments received for property MS-00685 (Young's Machine Shop).

(2) Excluding properties transferred to the City of Monticello.

(3) Non-Ground-Water Related Peripheral Properties are: MP-00105, MP-00178, MP-00180, MP-00198, MP-00211, MP-00845, MP-00886, MP-00887, MP-00888, MP-00947, MP-00948, MP-00949, MP-00950, MP-00963, MP-00964, MP-00988, MP-01040, MP-01041, MP-01042, MP-01081, MP-01083, and MP-01102.

Table 5-4. OU III Milestones and Target Dates if an Active Remedy is Selected

Monitored Natural Attenuation with Institutional Controls was chosen as the selected remedy for OU III on June 2, 2004. This table, OU III Milestones and Target Dates if an Active Remedy is Selected, is no longer required and has been deleted.

Table 5-5. OU III Milestones and Target Dates

| Document | Milestone |
|---|--|
| Remedial Investigation (Pre-IRA) | |
| Draft-Final Remedial Investigation Report | February 2, 1998 (Complete) |
| Remedial Investigation | November 27, 1998 (Complete) |
| Surface Water/Ground Water Interim Remedial Action | |
| Draft-Final Interim Proposed Plan | March 16, 1998 (Complete) |
| DOE sign Interim Record of Decision | August 25, 1998 (Complete) |
| Draft-Final Interim Remedial Action Work Plan | October 30, 2000 (Complete) |
| Remedial Investigation/Focused Feasibility Study (Post-IRA) | |
| Draft-Final Evaluation of PeRT Wall Treatability Study | September 30, 2002 (Complete) |
| Remedial Investigation Addendum/Focused Feasibility Study, Draft-Final | September 2, 2003 (Complete) |
| Feasibility Study | |
| Draft-Final Focused Feasibility Study Report ^a | September 2, 2003 (Complete) |
| Surface Water/Ground Water Decision Documents^b | |
| Draft-Final Proposed Plan | November 3, 2003 (Complete) |
| Record of Decision (signed by all parties) | June 2, 2004 (Complete) |
| General | |
| Draft-Final Post-Record of Decision Monitoring Plan ^c | August 27, 2004 (Complete) |
| Draft Final LTSM Administrative Manual and LTSM Operating Procedures Volume III ^d | July 13, 2005 (Complete) |
| Draft-Final LSTSM Administrative Manual and LTSM Operating Procedures Volume III ^b | September 6, 2005 (Complete) |
| Complete Millsite Restoration Construction Activities | September 15, 2005 |
| Operable Unit Completion | |
| Draft-Final Interim RAR ^e | March 2, 2005 (Complete September 30, 2004) |

^aDOE, EPA, and UDEQ agreed to combine the Focused Feasibility Study with the Remedial Investigation Addendum; the draft-final combined document was submitted on September 2, 2003.

^bThe stipulated penalty milestones for this section are based on primary document review durations that are less than those indicated in the Federal Facilities Agreement. Specifically, EPA and UDEQ have agreed to a 30-calendar-day review period for the Proposed Plan and the Record of Decision. Should EPA/UDEQ not meet the scheduled review times, DOE will be granted a day-for-day milestone extension relative to the assessment of stipulated penalties.

^cEPA and UDEQ have not completed their final review of this plan.

^dThese documents were completed in lieu of completing the Consolidated LTSM Administrative Manual and LTSM Operating Procedures.

^eFor LTRAs, an interim RAR is prepared when the physical construction of the system is complete and the unit is operating as designed (EPA 2000). The RAR is amended and completed when the LTRA cleanup standards specified in the ROD are achieved.

Table 5-6. Monticello Vicinity Properties Site Milestones and Target Dates

| Vicinity Property | Milestone |
|---|---|
| OU A | |
| Design Complete | March 1, 1996 (Complete September 6, 1994) |
| Construction Complete (target) | September 30, 1996 (Complete May 15, 1996) |
| Submit Draft-Final RAR | November 8, 1996 (Complete) |
| OU B | |
| Design Complete | February 1, 1996 (Complete) |
| Construction Complete (target) | September 30, 1997 (Complete) |
| Submit Draft-Final RAR | December 24, 1997 (Complete) July 14, 1999 (concurrence on resubmittal) |
| OU C | |
| Design Complete | February 1, 1996 (Complete February 13, 1996) |
| Construction Complete (target) | June 18, 1997 (Complete) |
| Submit Draft-Final RAR | October 15, 1997 (Complete) |
| OU D | |
| Sampling and Analysis Plans Complete | February 27, 1996 (Complete) |
| Design Complete | October 17, 1996 (Complete) |
| Construction Complete (target) | November 4, 1997 (Complete) |
| Submit Draft-Final RAR | March 18, 1998 (Complete) |
| OU E | |
| Design Complete | Complete |
| Construction Complete (target) | December 3, 1997 (Complete) |
| Submit Draft-Final RAR | March 18, 1998 (Complete) |
| OU F | |
| Design Complete | July 7, 1997 (Complete) |
| Construction Complete (target) | July 10, 1998 (Complete) |
| Submit Draft-Final RAR | December 24, 1997 (Complete) |
| OU G | |
| Design Complete | September 4, 1997 (Complete) |
| Construction Complete (target) | December 11, 1997 (Complete) |
| Submit Draft-Final RAR | September 12, 1998 (Complete) July 14, 1999 (concurrence on resubmittal) |
| OU H | |
| Design Complete | October 31, 1998 (Complete) |
| Construction Complete (target) | December 30, 1998 (Complete) |
| Draft-Final RAR | April 29, 1999 (Complete) |
| Deletion Milestone | |
| Draft-Final Close-Out Report | June 26, 1999 (Complete) |
| Final Acceptance | September 2, 1999 (Complete) |
| Final Deletion Notice in Information Repository | February 28, 2000 (Complete) |

Monticello Program Directives

The following Program Directives have been developed since 2004 and are applicable to the Monticello NPL Sites. The table indicates where the Program Directives can be found.

| Program Directive Number | Description | Location |
|--------------------------|--|--|
| MSG-04-01 | Sampling and Analysis Plan for Baseline Sediment and Surface Water Samples | Monticello Mill Tailings Site Operational Unit III Post-Record of Decision Monitoring Plan, August 2004 (DOE-LM/GJ684-2004) |
| MSG-04-02 | Total Dissolved Solids Analysis at five surface water and five ground water locations. | Monticello Mill Tailings Site Operational Unit III Post-Record of Decision Monitoring Plan, August 2004 (DOE-LM/GJ684-2004) |
| MSG-05-01 | Wildlife Surveys | Monticello Mill Tailings Site Operational Unit III Post-Record of Decision Monitoring Plan, August 2004 (DOE-LM/GJ684-2004) |
| MSG-05-02 | Renewal of MSG-04-02 | Monticello Mill Tailings Site Operational Unit III Post-Record of Decision Monitoring Plan, August 2004 (DOE-LM/GJ684-2004) |
| MSG-05-03 | Macroinvertebrate Sampling and Analysis Plan | Monticello Mill Tailings Site Operational Unit III Post-Record of Decision Monitoring Plan, August 2004 (DOE-LM/GJ684-2004) |