### 1.3.3 Key New or Modified Projects Since the SWEIS

Six proposed projects were at a sufficient stage of development in 1996 to be included in the SWEIS analysis. These projects are the Hazardous Waste Treatment and Processing Facility (HWTPF), Pit Reuse Facility, Gas Analysis Laboratory (GAL), Materials Compatibility Assurance Facility (MCAF), Nondestructive Evaluation Facility (NDEF), and Metrology and Health Physics Calibration and Acceptance Facility. These facility construction and upgrade projects were proposed for locations in or near Zones 11 and 12, and were needed to meet explosives, safety, seismic or tornado criteria; streamline efficiency of continued operations; maximize worker safety; reduce existing facility footprints; or meet regulatory requirements. The HWTPF has been constructed. The Pit Reuse Facility and the Metrology and Health Physics Calibration and Acceptance Facility have been redesigned for incorporation into modified, existing facilities. The GAL, MCAF, and NDEF have been combined into a single, new proposed facility, the NDE/Gas Laboratory. The current status of these projects is discussed in the remainder of this section.

**Hazardous Waste Treatment and Processing Facility (HWTPF).** The HWTPF evaluated in the SWEIS was a new 2,650-$m^2$ (28,500-$ft^2$) facility located between Zones 11 and 12 that would accommodate the treatment and processing of hazardous waste (HW), low-level radioactive waste (LLW), and low-level mixed waste (LLMW). Construction of the HWTPF was completed in December 1999, and incorporated several design changes from the facility evaluated in the SWEIS. These design changes include construction of a separate Liquid Processing Facility to process flammable liquids, elimination of forklift airlocks and overhead hoists from the main HWTPF, the capability to handle classified material, elimination of a shipping dock, and construction of a ramp connecting the HWTPF with the adjacent Resource Conservation and Recovery Act (RCRA) Hazardous Waste Staging Facility.

**Pit Reuse Facility.** As described in the SWEIS, this proposed facility would be located inside an existing facility in Zone 12. Approximately 490 $m^2$ (5,300 $ft^2$) of an existing building in Zone 12 were to be modified and approximately 465 $m^2$ (5,000 $ft^2$) of new support structures were to be constructed to accommodate this project, which provides for the non-intrusive modification of certain pits obtained from nuclear weapons dismantlement to enhance their safety and allow for their future reuse (DOE 1996a:3-4, 3-6, H-12–H-16). This facility has not been built. Instead, its capabilities have been incorporated into the proposed Special Nuclear Material Component Requalification Facility (SNMCRF), with construction scheduled for completion in 2005. In accordance with the ROD for the *Stockpile Stewardship and Management Programmatic Environmental Impact Statement* (SSM PEIS) (61 FR 68014), the SNMCRF will use non-intrusive processes to recertify and requalify up to 350 pits for reuse annually, a small number of which may be non-intrusively modified before being returned to the stockpile for reuse. Since the recertification and requalification processes are less extensive than the reuse activities identified in the SSM PEIS (DOE 1996b) and the SWEIS, processing 350 pits per year is an equivalent workload criterion to the 270 pits per year established in the SSM PEIS (BWXT Pantex 2001c:2).

Approximately 1,400 $m^2$ (15,000 $ft^2$) of space in a building in Zone 12 will be reconfigured to meet DOE Order 6430.1A requirements for a Hazard Category II Non-Reactor Nuclear Facility for the SNMCRF. The activities that will be performed in this facility will reduce the need for fabrication of new special nuclear material (SNM) components, which will appreciably reduce the amount of radioactive waste generated in the DOE complex. The recertification and requalification of existing components will utilize methodologies, processes, and techniques in support of environmental and waste management mission objectives, and will incorporate systems to preclude external releases by use of engineered controls. Waste generated by SNMCRF operations would not result in new contaminants or waste streams beyond those already addressed in the SWEIS and the SSM PEIS (BWXT Pantex 2001c:2, 4, 14, 15). A NEPA review completed in May 2002 indicated that the current project activities were within the analyses

**Table 1–1. New or Modified Key Projects Initiated or Planned Since the SWEIS**

| Revisions to the Six Projects Originally Evaluated in the SWEIS | | |
|---|---|---|
| **Title of Project/Activity** | **Project/NEPA Status** | **Discussion** |
| Hazardous Waste Treatment and Processing Facility[a] | Construction completed 1999. Supplement Analysis approval signed February 2000; start-up completed 2001. | This project was initiated in 1992 and was included as one of the six specific projects addressed in the SWEIS; the SA, completed in 2000, addresses changes in the design from that analyzed in the SWEIS and determined the impacts to be negligible. |
| Special Nuclear Material Component Requalification Facility[a] | Design work 2002–2004; construction 2004–2005. DOE approval of mission need (CD-0) received July 2001. NEPA review completed May 2002. | This project's predecessor (the Pit Reuse Facility) was one of the six specific projects addressed in the SWEIS, requiring modification to an existing building and 5,000 $ft^2$ of new space. Project now called Special Nuclear Material Component Requalification Facility, and does not require construction of new space. |
| NDE/Gas Laboratory[a] | Planned Line Item project; construction 2008–2012. Project currently unsupported by DOE/NNSA. NEPA analysis will be performed when appropriate. | This project combines three of the six specific projects addressed in the Pantex SWEIS (the Gas Analysis Laboratory, the Nondestructive Evaluation Facility, and the Materials Compatibility Assurance Facility) into a 48,000-$ft^2$ facility in Zone 12 South. Because of the implementation schedule, this project is not evaluated in this SA. |
| Metrology/Maintenance Relocation/Consolidation[a] | General Plant project planned for 2007. NEPA analysis will be performed when appropriate. | The remaining specific project addressed in the Pantex SWEIS, the Metrology and Health Physics Calibration and Acceptance Facility, is no longer a Line Item project. These functions are now planned for modified space in existing buildings. Because of the implementation schedule, this project is not evaluated in this SA. |
| **Projects Initiated from November 1996 through December 2001** | | |
| **Title of Project/Activity** | **Project/NEPA Status** | **Discussion** |
| Wastewater Treatment Facility Upgrade | Beneficial Occupancy 2002. Finding of No Significant Impact issued May 1999. | Proposed action to upgrade the existing Wastewater Treatment Facility by constructing and operating two new lagoons and interconnecting drip irrigation pipeline on 8 acres of grazing land being used by Texas Tech University. (The drip irrigation pipeline has not been permitted by TCEQ). |
| Pit Repackaging in the AL-R8 Sealed Insert Container | Supplement Analysis determination signed August 1998. | The SWEIS evaluated storage of pits using the AT-400A container. SA was completed to evaluate potential impacts of using AL-R8 Sealed Insert container. |