

TABLE 4.3.1.1–2.—Mission Facilities Summary¹

MISSION	APPROX. # OF BLDGS.	EXAMPLE FACILITIES	APPROX. AREA m ² (ft ²)	YEAR BUILT (average)	REMAINING LIFE (average years)
Assembly, Disassembly, QA Testing, & Maint. & Mod.	94	Assembly & Disassembly Bays, Assembly & Disassembly Cells, Production Support Laboratories, Tool & Component Warehousing, Weapon Staging Magazines	84,400 (908,000)	1966	31
HE Research and Development	124	HE Machining Bays, HE Pressing Bays, HE Formulation, HE Synthesis, Firing Sites, Production Support Laboratories, HE Storage Magazines	46,300 (498,000)	1955	15
Facility Operations	141	Maintenance and Craft Shops, Security, Medical, Fire Department, ES&H, Support Laboratories, Offices	76,600 (814,800)	1977	22
Pit Storage	22 ²	Magazines, Vaults, Staging Facilities	6,900 (74,200)	1949	34

¹Table excludes tanks, chemical storage, ramps (concrete floor enclosed walkways between buildings), guard towers, utility structures (e.g., pump houses), and miscellaneous structures (e.g., bus stop hut).

ES&H - Environment, Safety, and Health

² Represents 18 Modified Richmond Magazines and Buildings 12–44 (Cell 8), 12–55, 12–58, and 12–116. Note 12–26 and 12–42 pit vaults and Steel Arch Construction (SAC) magazines are listed as Component Warehousing and Weapon Staging Magazines, respectively.

HE - High explosive(s)

QA - Quality Assurance

Source: DOE 1994j:5-13 thru 5-16, 6-7 thru 6-10, 7-12 thru 7-14, 8-7, 8-8, 9-8, 14-7

Pantex Plant has a mature maintenance upgrade program supported with appropriate NEPA related documentation. Since 1990, Pantex Plant has initiated 354 environmental checklists and other NEPA related documents; 206 of the 354 were identified as facility upgrades, repairs, improvements, and maintenance related activities (Pantex 1996b:App D).

4.3.1.2 Infrastructure

Two categories of infrastructure, transportation access and utilities, are described below for Pantex Plant Site. Transportation access includes roads, railroad, and airport operations. Utilities include steam, electricity, natural gas, water, and wastewater treatment.

Roads

Access to the site is provided by the Texas Farm to Market roads bounding the site on the north, east, and west and by U.S. Highway 60, 1.6 kilometers (1 mile) to the south. Interstate Highways 40 and 27 provide access to the interstate highway system. Additionally, 76 kilometers (47 miles) of roads exist within the plant boundaries (Figure 4.3.1.2–1) (Pantex 1996:2.2).

Onsite transportation involves movement of nuclear explosives, nuclear components, HE components and materials, tritium, chemicals, and other hazardous materials, including waste. Nuclear explosives and components are transported to and from Pantex Plant in Safe