4.2 NO ACTION ALTERNATIVE AND LONG-TERM STORAGE ALTERNATIVES

This section describes the potential environmental consequences of the No Action Alternative and of constructing and operating various long-term storage alternatives. A key for locating information on the storage alternatives and candidate sites analyzed is shown in Table 4–1. Included in the analysis of each site is storage phaseout. The phaseout of Pu storage at Hanford, INEL, Pantex, SRS, RFETS, and LANL, and HEU storage at ORR, is a common activity associated with both storage and disposition when the storage requirements for these fissile materials are eliminated at a particular site. The impact analysis in this section is organized by site.

4.2.1 HANFORD SITE

A listing of the proposed long-term storage alternatives, subalternatives, and related actions, including the No Action Alternative, at Hanford is provided below. The potential impacts of implementing these alternatives and related actions at Hanford are described in the following sections: land resources, site infrastructure, air quality and noise, water resources, geology and soils, biological resources, cultural and paleontological resources, socioeconomics, public and occupational health and safety, and waste management. The specific long-term storage alternatives proposed for Hanford are the Upgrade Alternative, the Consolidation Alternative, and the Collocation Alternative.

Preferred Alternative

No Action Alternative:

Continue to store Hanford Pu material within the scope of this PEIS in the PFP in stabilized form pursuant to DNFSB Recommendation 94-1.

Proposed Storage Activities at Hanford Site

- **No Action Alternative (Preferred Alternative):** Continue to store Hanford Pu material within the scope of this PEIS in the PFP in stabilized form pursuant to DNFSB Recommendation 94-1.
- **Upgrade Alternative:** There are two subalternatives under this storage alternative.
  - ***Upgrade Without RFETS Pu or LANL Pu Subalternative:*** Two options to accommodate Hanford Pu material: Modify selected areas of FMEF in 400 Area; or construct a new facility in 200 West Area.
  - ***Upgrade With All or Some RFETS Pu and LANL Pu Subalternative:*** Two options to accommodate Hanford, RFETS and LANL Pu material: Increase modification of selected areas of the FMEF in 400 Area; or construct a larger new facility in 200 West Area.

Proposed Storage Activities at Hanford Site—Continued

- **Consolidation Alternative:** Construct a new facility adjacent to 200 East Area to accommodate all Pu material within the scope of this PEIS.
- **Collocation Alternative:** Construct a new facility adjacent to 200 East Area to accommodate all Pu and HEU material within the scope of this PEIS.
- **Subalternatives Not Including Strategic Reserve and Weapons Research and Development Materials:** Facility and other resource requirements would be smaller than the Upgrade With All or Some RFETS Pu and LANL Pu subalternatives, the Consolidation Alternative, and the Collocation Alternative.
- **Phaseout:** Hanford Pu material within the scope of this PEIS would be moved out of Hanford to the Consolidation or Collocation site (located at another DOE site) or to disposition (for surplus Pu).