

TABLE 4.12.3–1.—Estimated Transportation and Staging Worker Exposures for the No Action Alternative (Includes Transfers Associated with Pit Repackaging for 12,000 Pits)

| NUMBER OF WEAPONS LEVEL | 10-YEAR WORKER EXPOSURE (PERSON-REM) | YEARLY AVERAGE EXPOSURE (PERSON-REM) | EXCESS CANCER FATALITIES FOR 10-YEAR EXPOSURE |
|-------------------------|--------------------------------------|--------------------------------------|---|
| 2,000 | 44 | 4 | 0.018 |
| 1,000 | 31 | 3 | 0.012 |
| 500 | 25 | 2 | 0.01 |

ing inspection, inventory, and surveillance activities.

- Continuation of other onsite transportation activities (e.g., waste, chemicals).

Table 4.12.3–1 presents the estimated exposures to the 50 people who are in transportation and staging activities. No public exposure to radiation occurs from non-incident onsite material transfers. All other impacts would be similar to those described for the Proposed Action. The difference between the Proposed Action (Table 4.12.2.1–1) and the No Action Alternative (Table 4.12.3–1) is due to a reduction in the number of pits being repackaged and the number of weapons being dismantled.

4.12.4 Impacts of Pit Storage Relocation Alternative

4.12.4.1 Impacts of Relocating 20,000 Pits

Under this option, DOE would conduct the following onsite transportation and staging activities at Pantex Plant:

- Dismantlement activities with accompanying onsite hazardous material transfers (e.g., weapons, pits).
- Stockpile management activities with accompanying onsite hazardous material

transfers (e.g., weapons, tritium reservoirs).

- Zone 4 staging of weapons, CSAs, and RTGs with accompanying inspection, inventory, and surveillance activities.
- Onsite pit transfers (of up to 20,000 pits) between Zone 4 and Zone 12 associated with repackaging of pits from AL–R8 containers into other DOT-criteria containers.
- Movement of pits to prepare for offsite shipment of up to 20,000 pits.
- Continuation of other onsite transportation activities (e.g., wastes, chemicals).

IMPACTS FROM PIT STORAGE RELOCATION ALTERNATIVES

- *Because of the addition of a large number of SST Loading Operations, Transportation and Staging worker doses will increase for the Pit Storage Relocation Alternatives.*
- *At a 2,000 weapons level, the Transportation and Staging Department worker dose is estimated to be 61 person-rem for 10 years of operation.*
- *At a 2,000 weapons level, and with the relocation of 20,000 pits, the Transportation and Staging Department worker dose is estimated to be 344 person-rem for 10 years of operation.*