ATTACHMENT IV-3

FIRE PROTECTION PLAN

1. PURPOSE

a. The purpose of this plan is to specify the precautions that shall be taken by the Permittee to prevent loss of life and/or property due to fire at the Facility. These precautions include preventive actions and implementing procedures for minimizing the consequences of fires.

2. BUILDING CONSTRUCTION

a. The Mixed Waste Treatment Building, Mixed Waste Operations Building, and Mixed Waste Storage Building are pre-engineered metal buildings. The buildings are classified as non-combustible, non-rated buildings.

b. The buildings were constructed in accordance with Tooele County fire codes.

3. FIRE/EMERGENCY ALARMS

a. At a minimum, the Mixed Waste Treatment Building and Mixed Waste Operations Building shall contain three alarm systems:

i. an emergency evacuation alarm,

ii. a combustible gas/carbon monoxide alarm, and

iii. a sprinkler flow alarm.

b. At a minimum, the Mixed Waste Storage Building shall contain two alarm systems:

i. an emergency evacuation alarm, and

ii. a carbon monoxide alarm.

c. Emergency evacuation alarms shall have, at a minimum, a switch located within the work area. Both visual and audio emergency evacuation alarms shall be provided.

d. The Mixed Waste Treatment Building shall contain a combustible gas/carbon

monoxide alarm system. These detectors shall activate a visual and audio alarm located near the work area.

e. The Mixed Waste Storage Building shall contain a carbon monoxide alarm system with monitors located within the operating bay. The system shall have a visual and audio alarm.

f. The sprinkler systems at the Mixed Waste Treatment Building and Mixed Waste Operations Building shall be supplied with a sprinkler-flow alarm to warn of fire or accidental leakage from the sprinkler system.

4. SPRINKLER SYSTEM AND FIRE HYDRANT

a. The Mixed Waste Treatment Building and operations bay area of the Mixed Waste Operations Building shall be equipped with a dry-pipe sprinkler system designed in accordance with NFPA 13 for Ordinary Hazard Group 2 as defined by the codes applicable at the time each building was constructed.

b. The sprinkler pipes in the dry-pipe system shall be filled with compressed air. Sprinkler heads shall open due to fire, air pressure drop, or if water is automatically admitted through a dry-pipe valve. The system shall be equipped with a sprinkler-flow alarm to warn of fire or accidental leakage from the sprinkler system.

c. Water for the system shall be supplied from a 55,000 gallon (minimum) tank system located approximately 50 feet to the south of the Mixed Waste Treatment Building.

d. Water from the tank system shall be supplied to the sprinkler systems by electrically driven water pumps located in the pump/blower building. This pump shall operate independent of all other pumps in the building. The pump shall be a UL listed and/or FM approved fire pump. A backup diesel-powered generator shall provide power to the pump in case of an electrical power outage emergency.

e. The primary and tertiary shredder shall be equipped with a foam-water fire suppression system. Water for this system shall be supplied from the Mixed Waste Treatment Building fire sprinkler system. The foam-water fire suppression system shall be operational at all times.

f. In addition to the sprinkler systems, two-way wall hydrants shall be located on the pump/blower building. Water shall be provided to the wall hydrant by the same pump and tank system that supplies water to the sprinkler systems.

g. The fire sprinkler systems shall be visually inspected for obvious damage and to see that the valves are open on a weekly basis. On a yearly basis (once every 12 months), the fire systems shall be inspected by a fire-protection contractor. The yearly inspection shall be conducted in accordance with NFPA requirements.

5. FIRE EXTINGUISHERS

a. Fire extinguishers shall be provided for the facility as indicated in the figures (exhibits) provided in Attachment II-6, *Contingency Plan*.

END OF ATTACHMENT IV-3