

RESPONSE 100

4.4 Fire Protection Plan §330.129

This plan has been prepared in accordance with §330.129 to include fire protection standards and site personnel training requirements for all on-site activities.

The MSW activities that store or process combustible materials at the facility include uncovered solid waste; fuel supplies; trees, brush, or unmaintained grasses; equipment/vehicles; buildings; recycling collection area; stored used tires; stored petroleum products; citizen collection station, liquid waste stabilization area, and other sources.

4.4.1 Fire Protection Standards

Designated landfill personnel regularly take the following steps to minimize the potential for fires:

- No burning of solid waste shall be permitted at this site
- Burning waste is prevented from being dumped in the active area of the landfill. The gate attendant and equipment operators are trained to observe for hot loads entering the landfill by observing for signs of burning waste, such as smoke, steam, or heat being released from incoming waste loads
- Fuel spills, if they occur, will be contained and cleaned up immediately
- Dead trees, brush, or vegetation adjacent to the landfill are removed, and grass and weeds are mowed so that forest, grass, or brush fires cannot spread to the landfill
- Smoking is not allowed on the active areas of the landfill
- A source of earthen material is maintained in such a manner that it is available at all times and adequately sized to cover any waste received for disposal that is not covered with 6 inches of daily cover earthen material
- If a fire does occur, it shall be promptly extinguished using the procedures described in this SOP
- The potential for fires shall be minimized by using cover soils ~~or approved ADC~~

4.4.2 Fire Protection Operating Practices

Operating practices related to fire protection shall include methods to minimize the potential for accidental fires. Employees shall be instructed in the control of small fires. During site operations, the LM shall perform daily monitoring of the working face size. A sufficient volume of earthen material will be maintained on the site within 1,000 feet of the working face at all times to cover the uncovered portion of the working face with 6 inches of earthen material within 1 hour. This source of earthen material may be on-site soil stockpiles, working face diversion and/or containment berms, areas of future excavation, or some combination thereof.

Examples of required earthen material volumes are included in the following table.

Table 6: Examples of Earthen Material Required for Various Working Face Dimensions

Length of Working	Width of Working	Volume Needed to Cover
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Face (feet)	Face (feet)	Working Face (cubic yards)
100	50	111
200	50	222
100	100	222
200	100	444
300	100	667
400	200	1,778

To reduce the possibility of fire and improve the operation of the site and pursuant to §330.165, a minimum of 6 inches of “daily” cover soil, or approved equivalent, shall be placed and compacted over exposed waste at the end of each working day or at least once every 24 hours, in accordance with Section 4.22 of the SOP.

Water trucks, in addition to soil, may be used to control fires at areas other than the waste working face.

The following procedures are followed in the event of a fire at the facility:

- **Small Fires** – If detected soon enough, small fires may be fought with a hand-held fire extinguisher. The fire area may be watered down or smothered with 6 inches of soil, as appropriate, to ensure the fire is out.
- **Equipment/Vehicle Fires** – If a fire occurs on a vehicle or piece of equipment, the equipment operator should bring the vehicle or equipment to a safe stop. If safety of personnel will allow, the vehicle must be parked away from fuel supplies, uncovered solid wastes, and other vehicles. The engine should be shut off and the brake engaged to prevent movement of the vehicle or piece of equipment. Some equipment has automatically activated fire suppression equipment on board. For those that do not, a fire extinguisher will be used to extinguish the fire.
- **Hot Loads** – Burning waste will not be unloaded in the active area of the landfill. After the gate attendant, equipment operator, or other site personnel have identified signs of a possible load of burning waste, or a hot load, the truck will be directed to a portion of the disposal area away from the working face, fuel areas, and other combustion sources where the load can be unloaded without danger of spreading fire. The water truck will water down the waste. The bulldozer will then spread the waste to apply additional water. The bulldozer may smother the fire with soil. The waste will be inspected for signs of fire or hot spots. When the fire has been extinguished and the waste has cooled, the waste will be landfilled.
- **Working Face** – In the event that a fire is detected at the working face, the burning area should be isolated and pushed away from the working face quickly, or fire breaks should be cut around the fire before it can spread. If this is not possible or unsafe, efforts to cover the working face with earthen material must be initiated immediately to smother the fire. All vehicles and equipment not involved in smothering the fire will be immediately moved away from the fire. Incoming waste will be temporarily rerouted to another portion of the disposal area and a working face may be established there or work may be halted all together until the fire is extinguished.

A bulldozer, earthmoving equipment, and a water truck will immediately mobilize to place earthen material to smother any fire that may occur. A calculation showing the adequacy

of the site equipment to place the 6 inches of soil in 1 hour is included in Appendix IVC. If the working face size varies or the number of working faces is greater than 1, the LM or designated alternate will evaluate the adequacy of site equipment to place the 6 inches of soil in 1 hour in a manner consistent with the calculations included in Appendix IVC

4.4.3 Notifications

Following any fire that is not extinguished within 10 minutes of detection, the TCEQ Region 9 office in Waco will be notified. This notification to Region 9 will include:

1. Contact by telephone at 254-751-0335, as soon as possible, but no later than 4 hours following the fire discovery
2. Provide a written description of the fire and the resulting fire response within 14 days of fire detection to:

TCEQ Region 9
6801 Sanger Ave., Suite 2500
Waco, TX 76710-7826

4.4.4 Other Emergency Contact Information

If additional fire protection/fighting measures are warranted by the LM or designated alternate, emergency assistance may be requested from the City of Temple Police Department by dialing 911. The Police Department will assess the nature of the emergency and dispatch the appropriate emergency crews. Law enforcement assistance may respond from the City of Temple Police Department, or the Bell County Sheriff's Department, depending on availability. Fire, ambulance, and hazardous materials emergencies may be handled by either the City of Temple or Bell County, depending on availability.

4.4.5 Fire Protection Training

To minimize hazards regarding fire, employees shall be instructed in controlling small fires. Training of employees will be coordinated by the LM or designated alternate and will be provided to each new employee as part of the employee training program. Fire control measure training for all landfill personnel will be conducted on an annual basis. All fire extinguishers and/or firefighting equipment on-site will be inspected annually, and any equipment found to be defective will be promptly repaired or replaced. At a minimum, each landfill employee shall be trained for the following:

- Emergency notification requirements
- Preventive measures to minimize or prevent the possibility of fire
- Proper use of fire extinguishers or other equipment
- Procedures to extinguish fire with soil (equipment operators only)

4.5 Access Control §330.131

Access to the Temple RDF will be controlled by means of artificial barriers, natural barriers, or a combination of both, as described below.