

*File 5 Jna*  
*1-2*

SECTION I  
INSPECTION REPORTS

POWER PLANT FUEL STORAGE TANKS (ABOVEGROUND)

- a. POLLUTANT: DF-2 fuel.
- b. QUANTITY: ~~Two~~<sup>one</sup> aboveground 84,000 gallon tanks.
- c. FUNCTION & LOCATION: Fuel for prime power generation. Located south of the power plant across access road.
- d. PHYSICAL CONDITION: Good
- e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: Any spill would be contained within the berm.
- f. IMPACT OF SPILL: None, other than recovery operations to salvage the fuel.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: The tank drain valve handles should not be left on the valve. In addition, the berm water drain should be secured by a lock to prevent it being left in the open position.
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Tank drain handles have been removed and secured in the Civil Engineering Shop. The berm water drain valve will be secured by a lock to be installed no later than 1 Sep 74. The filling of the tank is continuously monitored by site personnel.
- i. PHYSICAL SECURITY: Adequate
- j. INSPECTION AND RECORD: No inspections other than those required by AFM 91-13 are considered necessary.
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel.

SUPPLY BUILDING HEATING OIL TANKS

- a. POLLUTANT: DF-2 Fuel ✓
- b. QUANTITY: ~~One 550 Gallon tank~~ and one 275 Gallon tank ~~both~~ above ground.
- c. FUNCTION & LOCATION: Fuel is for the space heaters in building 110. Tanks are located on the southwest side of the building.
- d. PHYSICAL CONDITION: Good
- e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: Pollutant would flow in a southerly direction into the Guadalupe Watershed and ultimately into Guadalupe Reservoir.
- f. IMPACT OF SPILL: A maximum spill would not be considered harmful because of its small size and the fact that it would be absorbed in the soil long before it reached a stream, even if it happened in the rainy season.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: None
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Filling of the tanks is continuously monitored by site personnel. Handles are removed from the drain valves.
- i. PHYSICAL SECURITY: Adequate
- j. INSPECTION AND RECORD: No inspection and record system is deemed appropriate.
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel

BUILDING 120 HEATING FUEL TANK

- a. POLLUTANT: DF-2 Fuel
- b. QUANTITY: 530 Gallon above ground tank.
- c. FUNCTION & LOCATION: Fuel for space heating of building 120, located on the northwest side of building.
- d. PHYSICAL CONDITION: Good
- e. PROBABLE ACUTE POLLUTANT WOULD FOLLOW IF SPILLED: Any spill would be contained in the immediate area of building 120.
- f. IMPACT OF SPILL: Since, at the present time any spill will be contained around building 120, it is recommended that a small earthen dike be constructed around the tank to confine any spill.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: None
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Construct earthen dike around tank. Filling of the tank is continuously monitored by site personnel. Handle has been removed from the drain valve and should be retained in the Civil Engineering Shop until needed.
- i. PHYSICAL SECURITY: Adequate
- j. INSPECTION AND RECORD: No inspection and record system is deemed appropriate.
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel.

HEATING FUEL OIL SYSTEM STORAGE TANKS

- a. POLLUTANT: DF-2 Fuel
- b. QUANTITY: Two 12,000 Gallon underground tanks
- c. FUNCTION & LOCATION: Fuel feeds the Heating Fuel Oil System. Tanks are located southwest of building 120.
- d. PHYSICAL CONDITION: Tanks were inspected by the POL section from Hamilton AFB during July 1973 and determined to be in good condition.
- e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: Spilled fuel would flow in a northerly direction to the Guadalupe Watershed and ultimately to the Guadalupe Reservoir.
- f. IMPACT OF SPILL: Largest spill potential exists in a possible vehicle accident involving the tanker truck used to refill the tanks. Maximum spill under these conditions would be about 2500 gallons, and even a spill of this size would be absorbed by the soil long before reaching a flowing stream. Greatest potential for harm would be during rainy weather. An undetected leak would be absorbed by the soil.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: None
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Filling of the tank is continuously monitored by site personnel.
- i. PHYSICAL SECURITY: None required for this underground installation.
- j. INSPECTION AND RECORD: No inspections other than those required by AFM 91-13 are considered necessary.
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel.

HOUSING AREA HEATING FUEL TANK

- a. POLLUTANT: DF -2 Fuel
- b. QUANTITY: One 7,780 Gallon tank aboveground
- c. FUNCTION & LOCATION: Fuel for space heating of Family Housing, BOQ, and Lower Cantonement Area. Located on hillside above BOQ.
- d. PHYSICAL CONDITION: Good
- e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: Contained by berm.
- f. IMPACT OF SPILL: None. Recovery could be accomplished by site personnel with assigned equipment.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: None.
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Berm should be increased in height to provide absolute containment of a maximum spill. Drain valve handle should be removed.
- i. PHYSICAL SECURITY: Adequate.
- j. INSPECTION AND RECORD: No inspection and record system is deemed appropriate.
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel.

DINING HALL HEATING FUEL STORAGE TANK

- a. POLLUTANT: DF - 2 Fuel
- b. QUANTITY: One 1100 gallon aboveground tank.
- c. FUNCTION & LOCATION: Fuel for firing the boiler in the Dining Hall, building 225. Located on the northwest end of the building.
- d. PHYSICAL CONDITION: Good.
- e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: Spill would enter the storm drainage system and flow southerly to Austrian Gulch and Lake Elsman.
- f. IMPACT OF SPILL: A maximum spill of 1100 gallons would be absorbed by the soil before it reached a flowing stream. Tank is protected on three sides by buildings, therefore damage or rupture by vehicle collision is unlikely.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: Handle should be removed from the drain valve.
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Filling of the tank is continuously monitored by site personnel.
- i. PHYSICAL SECURITY: Adequate.
- j. INSPECTION AND RECORD: No inspection and record system is deemed appropriate.
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel.

RECREATION HALL HEATING FUEL STORAGE TANK

- a. POLLUTANT: DF - 2 Fuel
- b. QUANTITY: 275 gallon above-ground tank
- c. FUNCTION & LOCATION: Fuel for space heating of Recreation Hall. Located on the southeast side of building 245.
- d. PHYSICAL CONDITION: Good
- e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: As presently situated spill would enter storm drainage system and flow to the Austrian Gulch and Lake Elsmar.
- f. IMPACT OF SPILL: Small quantity involved would be absorbed by the soil long before it reached a flowing stream.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: An earthen dike could easily be placed adjacent to this tank that would readily contain even a maximum spill, therefore this action is recommended. Handle should be removed from drain valve and retained in the Civil Engineering Shop.
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Construct dike to contain maximum spill. Remove handle from drain valve.
- i. PHYSICAL SECURITY: Adequate.
- j. INSPECTION AND RECORD: No inspection and record system is deemed appropriate.
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel.

FAMILY HOUSING FUEL STORAGE TANKS

a. POLLUTANT: DF - 2 Fuel

b. QUANTITY:

Bldg. 510	950 Gallons	
Bldg. 511	950 Gallons	
Bldg. 512	950 Gallons	
Bldg. 513	950 Gallons	
Bldg. 514	950 Gallons	
Bldg. 515	800 Gallons	
Bldg. 516	275 Gallons	(Commanders quarters)
Bldg. 517	800 Gallons	

c. FUNCTION & LOCATION: Space heating for family quarters. Location: each tank is located adjacent to the quarters.

d. PHYSICAL CONDITION: Good

e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: The maximum probable fuel spill would be about 2500 gallons, or the capacity of the tanker used to refill the tanks. However, since the tanker is compartmentized, the most probable spill would be less than 800 gallons. Any spill would flow downhill in a southerly direction to the Austrian Gulch and Lake Elsmar.

f. IMPACT OF SPILL: Any spill would be absorbed by the soil before reaching a flowing stream. Rugged terrain would make recovery difficult if not impossible. Any underground leak would be absorbed by the soil with probably no detectable damage to the environment.

g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: NONE

h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Filling of the tank is continuously monitored by site personnel.

i. PHYSICAL SECURITY: Adequate.

j. INSPECTION AND RECORD: No inspection and record system is deemed appropriate.

k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel.

GROUND-AIR TRANSMITTER-RESERVOIR SITE (GATR)

FUEL STORAGE TANK

- a. POLLUTANT: DF-2Fuel
- b. QUANTITY: 1000 gallon underground tank
- c. FUNCTION & LOCATION: Fuel is for space heating of the GATR building. Tank is located southwest of the building.
- d. PHYSICAL CONDITION: Good
- e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: Southerly to Austrain Gulch and Lake Elsman.
- f. IMPACT OF SPILL: A maximum spill would occur during a vehicle accident involving the refueling tanker. This truck has a total capacity of about 1000 gallons. This would probably be absorbed by the soil before reaching a flowing stream, and because of the rugged terrain, recovery would be very difficult or impossible. An undetected leak in the storage tank would probably be absorbed by the soil and never noticed until an inventory consumption discrepancy was noticed.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: None.
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Filling of the tank is continuously monitored by site personnel.
- i. INSPECTION AND RECORD: No inspection and record system is deemed appropriate.
- j. PHYSICAL SECURITY: Adequate
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel

BUILDING 102 Heating Fuel STORAGE TANK

- a. POLLUTANT: DF - 2 Fuel
- b. QUANTITY: 2500 gallon underground tank.
- c. FUNCTION & LOCATION: Fuel is for space heating of building 102. Tank is located on the west side of the building.
- d. PHYSICAL CONDITION: Good
- e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: Northerly direction to Sandelupe Watershed and then to Guadalupe Reservoir.
- f. IMPACT OF SPILL: A maximum possible spill would probably be the result of a vehicle accident involving the tanker truck used to refuel the storage tank, or 3,000 gallons. This truck is compartmentized which would tend to reduce the size of the spill. A maximum spill would probably be absorbed by the soil before reaching a flowing stream. During the rainy season some trace of pollutant would undoubtedly be found downstream. Because of a steep terrain, recovery would be most difficult and pollutant would not remain on AF Leased property.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: None.
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Filling of the tank is continuously monitored by site personnel.
- i. PHYSICAL SECURITY: None required for this underground installation.
- j. INSPECTION AND RECORD: No inspections other than those required by AFM 91-13 and considered necessary.
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel.

BUILDING 119 HEATING FUEL STORAGE TANK

- a. POLLUTANT: DF-2 Fuel
- b. QUANTITY: 525 gallons total in two tanks located aboveground.
- c. FUNCTION & LOCATION: Fuel is for space heating of Building 119. Located on South side of the building.
- d. PHYSICAL CONDITION: Good
- e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: Pollutant would flow in a northerly direction to Rincon Creek/Guadalupe Creek and Guadalupe Reservoir.
- f. IMPACT OF SPILL: The maximum possible spill would result from an accident involving the 3,000 gallon compartmentized tanker truck. This amount of fuel if spilled would be absorbed in the soil before reaching a flowing stream. Because of the very steep terrain and heavy brush, recovery operations would be very difficult and impractical. During the rainy season, some trace of pollutant might reach Guadalupe Reservoir.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: None
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Filling of the tank is continuously monitored by site personnel.
- i. PHYSICAL SECURITY: Adequate
- j. INSPECTION AND RECORD: No inspection and record system is deemed appropriate.
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel.

OPERATIONS BUILDING HEATING OIL STORAGE TANK

- a. POLLUTANT: DF-2 fuel
- b. QUANTITY: One 4,200 gallon tank located aboveground.
- c. FUNCTION & LOCATION: Fuel for space heating of the Operations Building, Facility 100.
- d. PHYSICAL CONDITION: Good
- e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: Northerly down a very steep slope to the Rincon Creek/Guadalupe Creek drainage to Guadalupe Reservoir.
- f. IMPACT OF SPILL: A maximum spill would be caused by the rupture of the full tank or the draining of the full tank by accident or malicious vandalism. This amount of fuel would be absorbed by the soil before it reached a flowing stream, although some trace downstream would be apparent if it occurred during the rainy season. No significant harmful effect would be realized by downstream users.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: None
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Drain valve handle has been removed. Filling of the tank is continuously monitored by site personnel.
- i. PHYSICAL SECURITY: Adequate
- j. INSPECTION AND RECORD: No inspection and record system other than those required by AFM 91-13 are required.
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel.

POWER PLANT FUEL STORAGE TANKS (UNDERGROUND)

- a. POLLUTANT: DF-2 fuel.
- b. QUANTITY: One 20,000 gallon and one 10,000 gallon tank.
- c. FUNCTION & LOCATION: Fuel is for prime power generation and located on the west side of the power plant, underground.
- d. PHYSICAL CONDITION: Good. These tanks were inspected in July 1973.
- e. PROBABLE ROUTE POLLUTANT WOULD FOLLOW IF SPILLED: Northerly down a very steep slope to Rincon Creek/Guadalupe Creek drainage and Guadalupe Reservoir.
- f. IMPACT OF SPILL: Largest possible spill would be caused by a vehicle accident involving the 3,000-gallon compartmentized tanker truck used to refuel the tanks. This amount of fuel would be absorbed by the soil. The steep slope would make recovery operations difficult. Greatest hazard to downstream users would be during periods of high rainfall but this would be minimal.
- g. DISCREPANCIES IN PHYSICAL CONDITION OR DESIGN: None
- h. REQUIRED SPILL PREVENTIVE SAFEGUARDS: Filling of the tank is continuously monitored by site personnel.
- i. PHYSICAL SECURITY: Adequate
- j. INSPECTION AND RECORD: No inspections other than those required by AFM 91-13 are considered necessary.
- k. OPERATOR PROCEDURES: The filling operation is continuously monitored by site personnel.

SECTION II  
OIL SPILL INFORMATION

(Listed below are the dates, times, circumstances and corrective actions taken to combat pollution in regards to all oil spill occurrences at this Air Force Station after 11 July 1974).

SECTION III

ALMADEN AFS OIL AND HAZARDOUS SUBSTANCES  
POLLUTION CONTINGENCY PLAN