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THE ZIA COMPANY
MEMORANDUM

Thru: A. Dean Miller, Manager, Engineering Division

To: William Crismon, Jr., Chief, Technical Programs Br., DOE/LAAO

Date 24 October 1983

From: Carol Paxton, Dept. Head, Engineering Services

Subject: OIL LEAKS AT CONTRACTOR FACILITIES

ZED-33

All fuel storage facilities were reviewed with the users. The following comments (attachments) state precautionary measures that have been taken to prevent oil spills, and also notes where deficiencies exist.

The formal SPCC Plan (January 1, 1984) will incorporate the information and will include procedures for countering spills of hazardous materials and PCB/s. The existing Emergency Plan addresses responses required for oil spills.

Deficiencies will be forwarded to the Divisions that have responsibility for the deficient areas. It will be necessary to determine costs for upgrading, designate funds and write work orders to achieve compliance in all areas. It is difficult to estimate the time frame, but the upgrading will be done as soon as possible within existing constraints.

If you have further questions, please call.

CP:ge

Attach 3

cc P. T. Boerger, Zia, w/attach
A. D. Miller, Zia, w/attach
Calvin Bond, Zia, w/attach
[illegible]. G. Thornton, Zia, w/attach
Larry Stafford, Zia, w/attach
Env. Lab., Zia, w/attach
Mail and Records

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SEP 18 1991

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ATTACHMENT I

I. TA-3 Power Plant Storage Tanks

A. Diesel Fuel, Three Tanks

1. Two, 150,000 gallon tanks.

2. One, ~~200~~ 250 gallon tank.

3. All tanks are in good condition.

4. All tanks are elevated storage with the two 150,000 gallon tanks diked for possible spill containment. The 200 gallon tank is not diked and has no protection for the containment of any possible oil leak or spill.

II. Steam Plants

A. Western Steam Plant, TA-0-1051

1. Two underground storage tanks currently contain a total of 32,795 gallons of diesel fuel.

2. Tanks are in good condition.

3. Facility is not fenced.

4. Secondary containment and/or diversionary structures are not used.

5. Internal leak in the Steam Plant would allow the oil to enter county-owned sanitary waste facility through the floor drains.

B. S-Site Steam Plant

1. Four diesel fuel underground storage tanks.

2. Current diesel fuel on hand, 107,565 gallons.

3. Tanks considered in good condition.

C. TA-21, DP Plant - (Old)

1. One diesel fuel storage tank with 46,132 gallons.

2. Above ground storage with protective dikes for the containment of a possible spill.

3. Tank in fair condition.

ATTACHMENT

Construction and Maintenance Division: Fire Protection Department is in charge of two fuel storage tanks. The tanks hold fuel for the emergency generators for fire protection at TA-55 and TA-35.

Fuel Storage Tanks

A. TA-55 Fuel Storage Tanks

1. Capacity of 300 gallons for both tanks.

2. Tanks are in good condition.

3. Both are underground storage.

4. Tank area is not diked for the containment of any spill or leak.

B. TA-35 Fuel Storage Tank

1. Capacity of 225 gallons of diesel fuel.

2. Located inside of building TSL-88, elevated and does not have the protection for the containment of spills or leaks.

3. Tank is new and in good condition.

ATTACHMENT III

(With Two Sketches)

FUEL STORAGE FACILITIES WITHIN THE ADMINISTRATIVE SUPPORT DIVISION

1. Old Fuel Farm - located on DP Road has 15 tanks with a capacity of 281,364 gallons (see sketch 1 for details). An earth berm dike of 397 feet long and 4 feet high can contain 377,000 gallons. Dike is considered in good condition. Tanks and lines are considered in good condition. A corrosion inspection was made by excavation of a cross section (6 each) of the tank at the Fuel Farm. The areas exposed showed that the original tank coating was substantially intact in most areas, and a slight film of rust was the worst condition noted. The exteriors of these tanks were determined to be in excellent condition. The old Fuel Farm is presently under consideration for disposition as it appears to be excess to the requirements of the Los Alamos Complex.

2. New Fuel Farm - located north of SM-382 on Sigma Mesa has five tanks with a capacity of 102,546 gallons (see sketch 2 for details). An earth berm dike 280 feet long and 6 feet high can contain over 250,000 gallons. The new Fuel Farm was accepted as built in May, 1982, and put into use in November, 1982. All parts of it considered to be in good condition.

3. Service Stations - are located in three locations throughout the Los Alamos Project. All tanks are underground. Conditions of tanks are unknown but presumed to be good.

TA-16-195 S-Site Service Station:

1 each 4,000 gallon tank, buried, contains gasoline.

TA-3-36 South Mesa Service Station: (18,000 gallon total)

1 each 5,000 gallon tank, buried, contains gasoline.
1 each 10,000 gallon tank, buried, contains gasoline.
1 each 3,000 gallon tank, buried, contains diesel.

TA-3-382 Motor Pool Service Station: (20,000 gallon total)

1 each 10,000 gallon tank, buried, contains gasoline.
1 each 10,000 gallon tank, buried, contains diesel.

Service Stations Total Capacity: 42,000 gallons

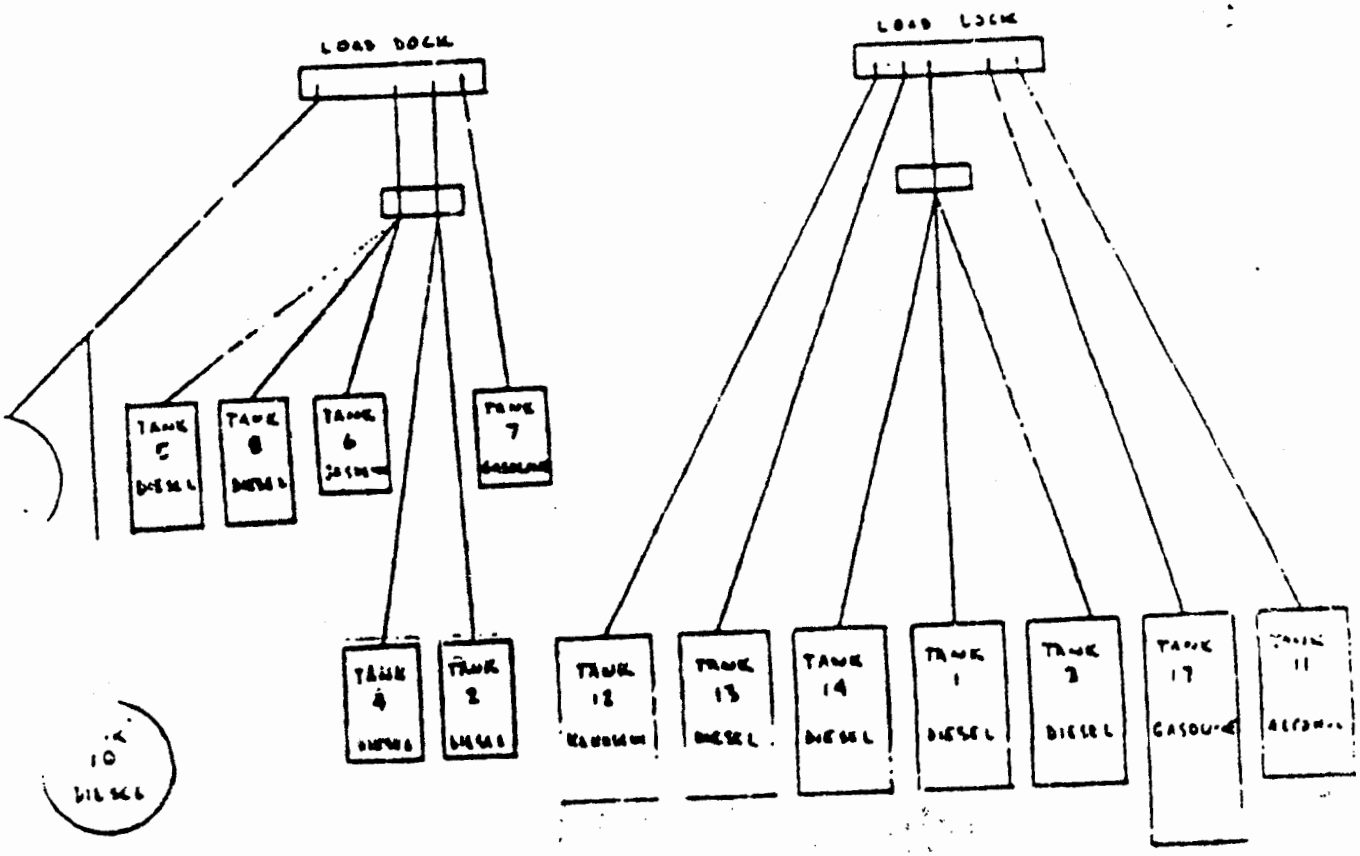
TANK NO	CAPACITY GALS	[illegible]	
1	28,500	27,951	(DF-2)
2	14,994	14,400	Diesel (DF-2)
3	23,967	22,950	Diesel (DF-2)
4	14,994	12,466	Diesel (DF-2)
5	5,170	3,184	Diesel (DF-2)
6	2,099		Residual Gasoline
7	2,978		Residual Gasoline
8	5,170	3,646	Diesel (DF-2)
9 (note 2)	21,644	21,110	Diesel (DF-2)
10 (note 2)	21,644	18,527	Diesel (DF-2)
11	23,967		Residual Ethanol Alcohol
12	20,266		Residual Kerosene
13	24,770	[illegible]	Diesel (DF-2)
14	20,226	17,976	Diesel (DF-2)
17	51,015		Residual Gasoline

Note 1: 15 tanks with total capacity of 281,364 gallons.

Note 2: Tanks 9 & 10 are above ground, rough, bolted. Bottom of tanks are cylindrical, buried.

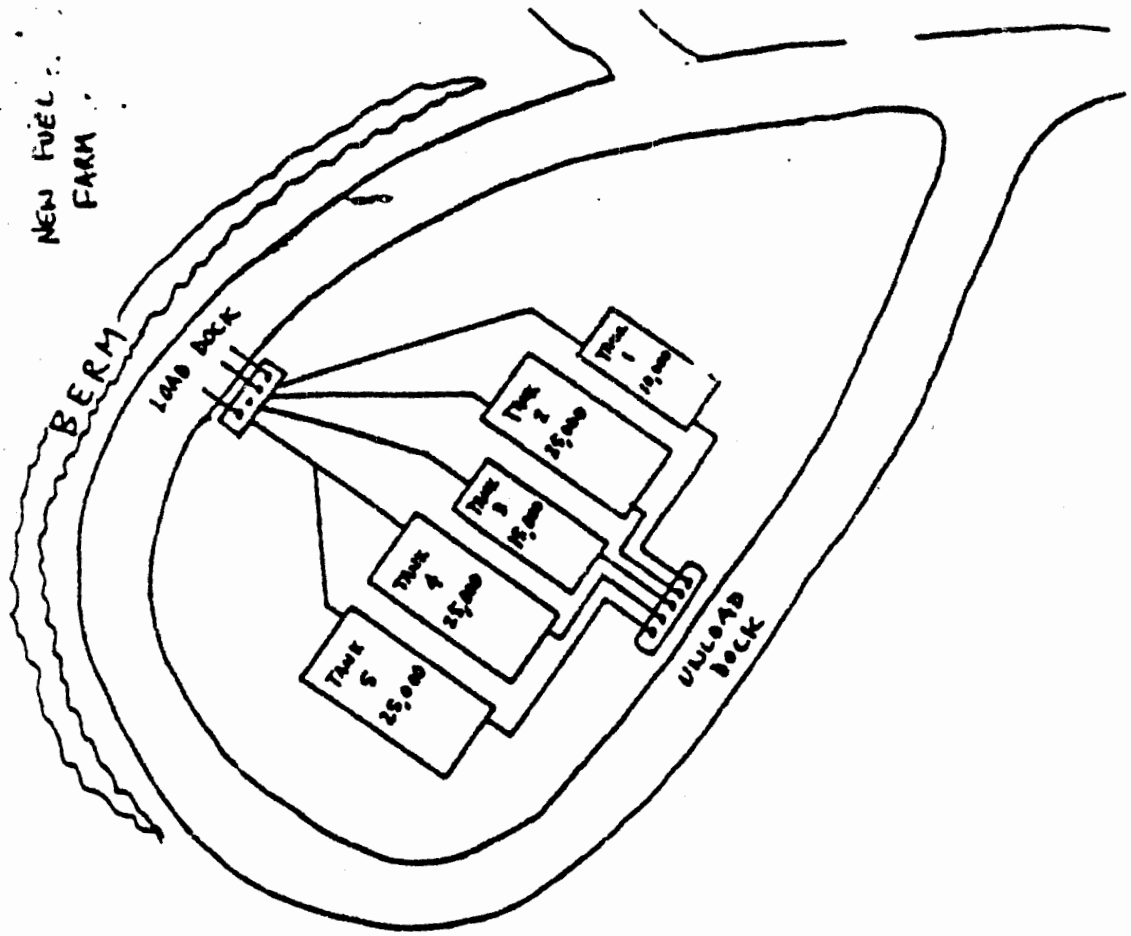
~~Note 3: [illegible] will be [illegible]~~

Note 4: For disposition consideration - All tanks, 144,000 gallons of diesel fuel, residual fuels, the real estate



DP TANK FARM LAYOUT

"Sketch 2"



TANK NR	CAPACITY	CONTENTS
1	10,152	KEROSENE
2	25,592	DIESEL FUEL
3	15,558	GASOLINE
4	25,592	GASOLINE
5	25,592	GASOLINE
	102,546	

Accepted as built in May '82

All tanks above ground