COAL USAGE SITES
AT
RAVENNA ARMY AMMUNITION PLANT

Prepared 6/1/04

Reference:

Historical Documents for the Ravenna Army Ammunition Plant dated January 2004, prepared for the Army Corps Of Engineers, Louisville District: Disk 5 of 10 pages 412 and 444.

Ravenna Army Ammunition Plant drawings 1002.307, 502.312 and 1052.201

Bulk storage and usage of coal appears localized to five (5) sites on the installation:

1. Northeast corner of 'C' block parking area near Northline Road occupying an area of about two (2) acres.
2. On a concrete pad behind boiler house 44-16 and on the ground adjacent to a rail spur directly behind this pad.
3. At boiler house 44-16 where coal was direct fed from rail cars to an underground conveyor into a storage silo adjacent to the boiler house.
4. At two (2) boiler houses FE17 in Load Line 12 where coal was direct fed from rail cars to an underground conveyor into storage silos adjacent to the boiler houses.
5. At boiler house 47-42 in the transportation area. There was no data about the handling system but inspection of the sight suggests that coal was delivered by dump truck to a concrete walled coal bin from which it was fed to the boilers.

Many individual buildings used coal for comfort heating and had small storage bins located adjacent to the buildings. Buildings F15 and F16 had small process boilers and small coal bins. Inspection showed no signs of coal on the ground surface and any spillage would have been small.

During site inspections no significant amount of coal was found except at the Northline Road area. Trace amounts of coal are present near the former site of the coal-testing laboratory behind the 44-16-boiler house and the easternmost coal pile area nearby.

The Northline Road area has significant amounts of coal remaining scattered over a two (2) acre area with much of the area being more than four (4)- inches deep with at least one pile several feet high. Much of this coal is broken into very small particles.

Coal handling is assumed to have been as follows:

Bulk coal arrived by rail at the Northline site. It was probably unloaded by conveyor to storage piles and redistributed via internal rail and truck to the three power plants. Coal arriving by truck was stored at the two (2) stockpiles located in the administration area and distributed in similar manner.

DATA ON UTILITIES #5 Disk PG 412

8. Other facilities (Cont'd.)

d. Steam capacity
(1) Three coal burning plants - 254,000 lbs./hr.max. @ 145 lbs.
(a) Average daily usage - 48 tons
(b) Boilers - B & W Type H-4 No. 22 Stirling
2-Administration Area, Bldg. 44-16 GEORGIA Next to 1037
3-Ammonium Nitrate Plant, Bldg. FE-17
- B & W Type H-4 No. 19 Stirling
LL12 2-Ammonium Nitrate Plant, Bldg. FE-17 Food Line 12
- Kewanee Type C, Model 7L84
2-Transportation Area, Bldg. 47-42 TRANSPORT AREA
(2) Five oil-burning plants - 420,000 lbs./hr.max. @ 145 lbs.
(a) Average daily usage - 12,400 gallons
(b) Boilers - B & W Type H-4 No. 22 Stirling
2-Load Line No.1, Bldg. CC-WP-1
2-Load Line No.2, Bldg. DC-WP-1
2-Load Line No.4, Bldg. G-4
2-Fuze Line No.2, Bldg. 52-15
2-Perc.Elem.Line,Bldg.51-25
- B & W Type H-3 No. 12 Stirling
1-Perc.Elem.Line,Bldg.51-25

e. Refrigeration - None

f. Other special facilities
(1) Railroad, intra-plant
(a) Trackage - 109.0 miles
(b) Classification yard capacity - 300 cars
(c) Connections - B. & O., P.R.R. and Erie
(d) Centralized traffic control system by Union Switch & Signal Co.
(2) Sewage system, treatment capacity: two Imhoff tank-trickling filter combination treatment plants - 2,000,000 G.P.D.
(3) Guard reporting, fire alarm and intra-plant communications system, installed by Cover Dual Signal System.
(a) Two switchboards and call panels: Guard Headquarters, Building No. 1038 and Fire Headquarters, Building No. 1048; capacity - 100 lines
(b) Reporting and call boxes - 78
(4) Telephone system - 2 positions, 5 panel switchboard, in Telephone Building No. 1026, connected by 54-pair line to Bell Telephone Co.'s Wayland exchange, with 900 line plant distribution frame 660 lines in service throughout Ravenna Ordnance Center.

#5 DISK PG 444

RAVENNA
Part III Section 1

EQUIPMENT LAYOUT DRAWINGS

For equipment layouts in the following buildings, See Part I - Section 8:

		Drawing
1026	Telephone Building	1A-26
1046	Print Shop	2A-46
CB-WP4 & 4A DB-WP4 & 4A EB-WP4 & 4A	Melt Load Building	134-T
FE-17	Ammonium Nitrate Plant Boiler House	
44-16	Administration Area Boiler House	1A-17
47-42	Transportation Area Boiler House	
D-52	Detonator Line Dining Building	BR-5150-2
51-25	Percussion Element Line Boiler House	
52-15	Fuze Line No. 2 Boiler House	
G-4	Load Line No. 4 Boiler House	1A-25
DC-WP1	Load Line No. 2 Boiler House	
CC-WP1	Load Line No. 1 Boiler House	

1002.307
502-312
1052-201