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PHOTO INTELLIGENCE SECTION  
EVALUATION BRANCH  
PHOTOGRAPHIC DIVISION  
AC/AS, INTELLIGENCE

FUNCTIONAL ANALYSIS REPORT NO. F/A-135  
Date 12 May 1945

TARGET NO.: 84.2-2

NAME OF TARGET: CHOSEN NITROGEN EXPLOSIVES COMPANY

LOCATION: KONAN, KOREA

COORDINATES: 39° 48' N - 127° 35' E

PHOTOGRAPHY: Date

Mission

Print Nos.

21 Dec 44

468BG/4MR44

LV:97-100

RV:97-100

TV:1-3

1. This report has been prepared from a study of aerial photographs and a consideration of evaluated ground information supplied by the Joint Target Group.

2. FUNCTION:

Explosives factory; manufacture of nitroglycerine and nitrocellulose and preparation of dynamite-type industrial explosives and probably double-base propellant powder which could be rocket-type. Probable manufacture of fulminate of mercury, black powder and pelleting of tetryl. Possible precipitation of lead azide. Loading of detonators, either industrial or military, and probable loading of industrial fuzes. Manufacture of ammonium nitrate reported at this site but not confirmed by photographic interpretation.

3. LOCATION:

Target is located on reclaimed land E of the mouth of the JOSEN (TONGSONG-CH'ON) River, approximately 2 miles SW of KONAN station. Target extends inland from the shore of CHOSEN Gulf, 1½ miles NW along the river bank to within ½ mile of the highway bridge. It is part of a major industrial complex comprising also: the CHOSEN NITROGEN FERTILIZER CO., (Target No. 84.2-1) at KONAN, approximately 2-1/3 miles NE of target, and also on the shore; and the MOTOMIYA CHEMICAL CO., (Target No. 84.2-3) approximately 2 miles NW of target, also on the E bank of the river.

4. SERVICES:

Target is connected by highway and railroad to the two factories named under (3) above. Target 84.2-1 supplies glycerine, nitric and sulphuric acid, probably several other chemicals including ammonium nitrate and such metal components as detonator parts, etc. Target 84.2-3 probably furnishes sodium carbonate. Electric power is furnished primarily by hydro-electric plants on the CHOSHIN and FUSEN branches of the YALTA River (Targets No. 84.2-4, 5 and 8). Power lines are seen entering the factory area at the RR bridge on E side, and possibly between area G and building #26 at the N end.

5. IDENTIFICATION OF FACILITIES:

Target is divided into 8 areas, A - H, according to function. All identifications are derived solely from photographic interpretation.

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F/A-135 (Cont'd)

5. IDENTIFICATION OF FACILITIES (Cont'd):

AREA A - Nos. 1 to 24 incl.

This area is concerned with the manufacture of initiatory explosives and the loading of detonators. Buildings marked with an asterisk are subdivided by interior blast walls.

1. Sewage disposal pump house

Mercury Fulminate Manufacturing Unit - Nos. 2-7 incl.

2. Alcohol storage house
3. Fulminate balloon house
4. Fulminate station house
5. Alcohol recovery house
6. Mercury storage house
7. Magazine for mercury fulminate

Pelleting Unit (possibly tetryl) Nos. 8-11 incl.

- \* 8. Pellet press shop
- \* 9. Pellet press shop
10. Magazine for tetryl
11. Magazine for tetryl pellets

Lead Azide Precipitation Unit (possible) Nos. 12-13

- \*12. Lead azide precipitation and finishing building; alternatively, pellet press shop
- \*13. Lead azide precipitation and finishing building; alternatively, pellet press shop

Detonator Loading Unit - Nos. 14-22 incl.

- \*14. Detonator loading shop
- \*15. Detonator loading shop
16. Magazine for fulminate or azide
17. Inert storage building
18. Magazine for fulminate or azide
- \*19. Detonator loading shop
- \*20. Detonator loading shop
21. Magazine for finished detonators
22. Proof yards for detonators
23. Unidentified
24. Unidentified

AREA B - Nos. 25 to 32 incl.

None of the buildings in this area are identified. They do not contain explosives. Construction is apparently in progress between 28 and 29, and at 32. The large buildings, 25 and 27, consist of 3 monitored bays, and 26 is similar to bay of 27.

25 - 32 incl. - Unidentified

AREA C - Nos. 33 to 35 incl.

33. Administrative building
34. Interconnected group of 7 small buildings including guard house and personnel buildings.
35. Large subdivided administrative building

F/A-135 (Cont'd)

5. IDENTIFICATION OF FACILITIES (Cont'd):

AREA D - Nos. 36 - 72 incl.

This area is primarily concerned with the nitration of cellulose. Nitrocellulose in this area is wet and hence not explosive.

- 36. Inert storage building
- 37,38. Inert storage buildings (5 smaller buildings of similar character adjacent)
- 39-43. Receiving storage, cellulose; each building consists of 4 bays.
- 44-46. Receiving storage, cellulose
- 47a,b. Preliminary treatment of cellulose
- 48. Preliminary treatment of cellulose
- 49. Coal storage building.
- 50. Coal storage building.
- 51. Boiler house serving Areas A, B, C, D, E and part of Area F (2 boiler bays)
- 52. Cellulose nitrator house. Acid tanks at E end
- 53. Open sided boiling tub housings
- 54. Open sided boiling tub housings
- 55. Possible equipment maintenance building
- 56a. Settling pit for pyro water
- b. Possible pulping house
- c. Possible poaching house
- 57. Water tank with possible pump house adjacent
- 58. Possible equipment maintenance building
- 59-66. These buildings are not individually identified, but are concerned with purification of pyro (wet nitrocellulose)
- 67. Spent acid unit
- 68-70. Not individually identified, but are concerned with purification of pyro (wet nitrocellulose)
- 71,72. Unidentified; possible storage for Area F.

AREA E - Nos. 73 - 113 incl.

Activities of this area are largely unidentified, but presumably auxiliary to the explosives manufacture and loading. No explosives are handled or stored in the area, with the possible exception of buildings 109-110. Among the activities possible to this area are: Storage and preparation of ammonium nitrate or inert ingredients for dynamite (diatomaceous earth, wood, flour, sodium nitrate, coal or charcoal), maintenance shops for equipment and pipelines, manufacture and water proofing of paper cartridges for industrial explosives, box and shock storage or manufacture, fabrication of brass or copper detonators parts or cartridges cases.

- 73. Unidentified large building, consisting of 4 bays.
- 74-78. Unidentified buildings related to 73. No. 76 consists of 2 bays.
- 79-80. Unidentified
- 81. Unidentified building formed by three adjoining units
- 82-86. Unidentified
- 87a,b,c. Group of 3 interconnected units possibly containing transformers and electric switch gear.
- 88. Unidentified but possibly concerned with cellulose purification. If so, (a) could be boiling and picking or carding and (b), (c) and (d) could be receiving and dispatching bays.
- 89. Unidentified large building consisting of 6 bays.
- 90-96. Unidentified



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F/A-135 (Cont'd):

5. IDENTIFICATION OF FACILITIES (Cont'd):

AREA E (Cont'd)

- 97. Water reservoir - possible searchlight emplacement on top
- 98-99. Unidentified
- 100a,b,c. Unidentified group of 3 interconnected units
- 101-103. Unidentified
- 104. Water reservoir - water tank and possible pump house on top
- 105. Unidentified
- 106. Unidentified large building consisting of 3 bays
- 107. Unidentified row of 5 small buildings
- 108. Unidentified
- 109. Mounded structure supporting O/P
- 110. Mounded structure possibly used for m/g post
- 111. Unidentified, possible fire truck garage
- 112. Unidentified; possibly connected with water cooling system
- 113. Water cooling basin

AREA F - Nos. 114 - 226 incl.

This area is concerned with the nitration of glycerine and the preparation of dynamite-type industrial explosives and probably double base propellant powder, which would be of rocket type (solventless). The area contains several types of buildings which are identical within each type. These identical buildings are as follows: glycerine nitrator and nitroglycerine separator house: Nos. 114, 135, 153, 204. Nitroglycerine neutralization and storehouse: Nos. 116, 136, 155. Blend house for nitroglycerine and other dynamite ingredients: Nos. 117 to 120 inclusive, 156 to 159 inclusive, 197 to 200 inclusive. Dynamite preparation and double base propellant compounding houses (pairs connected by covered passage) Nos. 121-122, 123-124, 126-127, 128-129, 141-142, 143-144, 146-147, 148-149, 160-161, 162-163, 164-165, 166-167, 186-187, 188-189, 190-191, 192-193. Nitrocellulose preparation, two types: 131, 150, 195, 151 and 194. Double base propellant powder preparation house: 211 through 224. Buildings in this group are similar but not quite identical.

First Nitroglycerine and Dynamite Line - Nos. 114-132 incl.

- 114. Glycerine nitrator and nitroglycerine separator house (gutter carries nitroglycerine to 116)
- 115. Small servicing house
- 116. Nitroglycerine neutralization and store house
- 117-120. Nitroglycerine and nitrocellulose blend houses
- 121-124. Dynamite preparation houses
- 125. Magazine for industrial detonators.
- 126-129. Dynamite preparation houses
- 130. Inert storage; this building also serves the second nitroglycerine and dynamite line.
- 131. Nitrocellulose preparation house
- 132. Nitrocellulose preparation house
- 133. Glycerine or acid house; tank adjacent contains brine for cooling nitrators.



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F/A-135 (Cont'd)

5. IDENTIFICATION OF FACILITIES (Cont'd):

AREA F (Cont'd)

Second Nitroglycerine and Dynamite Line (Identical with first line) Nos. 134 to 151 incl.

- 134. Glycerine nitrator and nitroglycerine separator house:  
(Gutter carries nitroglycerine to #136).
- 135. Small servicing building
- 136. Nitroglycerine neutralization and store house
- 137-140. Nitroglycerine and nitrocellulose blend house
- 141-144. Dynamite preparation houses
- 145. Magazine for industrial detonators
- 146-149. Dynamite preparation houses
- 150. Nitrocellulose preparation house
- 151. Nitrocellulose preparation house
- 152. Acid or glycerine house

Third Nitroglycerine and Dynamite Line Nos. 153 to 168 incl.

- 153. Glycerine nitrator and nitroglycerine separator house  
(Gutter carries nitroglycerine to #155).
- 154. Small servicing house
- 155. Nitroglycerine neutralization and store house
- 156-159. Blend houses for nitroglycerine and other dynamite ingredients
- 160-167. Dynamite preparation houses
- 168. Inert storage

Black Powder Units Nos. 169 to 182 incl.

It is considered possible that this unit manufactures a slow burning black powder suitable for industrial fuzes. Buildings 169 and 171 to 174 inclusive are subdivided by interior blast walls.

- 169. Black powder preparation house
- 170. Fuze filling house (industrial tube fuzes)
- 171-174. Black powder preparation houses
- 175. Construction for expansion of this unit
- 176-177. Magazine for filled industrial fuzes
- 178. Possible pulverizing and pre-mix house for black powder ingredients
- 179. Possible pulverizing and pre-mix house for black powder ingredients
- 180. Possible storage for black powder ingredients (charcoal)
- 181. Possible storage for black powder ingredients (sulfur or nitrate)
- 182. Possible storage for black powder ingredients (sulfur or nitrate)
- 183. Acid house
- 184. Boiler house serving buildings 178 to 226 incl.
- 185. Inert stores or servicing building

Fourth Nitroglycerine and Double Base Propellant Line  
Nos. 186 to 207 incl. and 211 to 226 incl.

This unit is a recent addition to the factory and it is considered that a solventless type of double-base smokeless powder suitable for non-rotated projectiles is prepared here.

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F/A-135 (Cont'd)

5. IDENTIFICATION OF FACILITIES (Cont'd):

AREA F (Cont'd)

- 186-193. Double-base propellant compounding houses. Evidence of construction activity between 193 and 205, possible for another pair of buildings similar to 194-195.
194. Nitrocellulose preparation
195. Nitrocellulose preparation
196. Inert storage building
- 197-200. Blend houses for nitroglycerine and nitrocellulose
201. Possible nitroglycerine storage house.
202. Nitroglycerine neutralization and store house
203. Small servicing house
204. Glycerine nitrator and nitroglycerine separator house  
(Gutters carry nitroglycerine to 202 and 205)
205. Nitroglycerine neutralization and store house
206. Acid or glycerine house
207. Inert storage or servicing building
208. Unidentified small building related to 209
209. Mounded structure supporting O/P and/or mg. post, directly related to group 108 to 111.
210. Unidentified small building related to 209
- 211-224. Double-base propellant preparation houses
225. Possible assembly building cutting
226. Possible igniter magazine

AREA G - Nos. 227 - 229 incl.

This is a magazine area for finished explosive products. Railroads run to it from the factory and from it to connect with the KONAN-HONGU line.

227. A group of 12 identical magazines, possibly storing boxed dynamite and fuzes
228. A group of 20 identical magazines, possible storing dynamite sticks and detonators attached.
229. Single magazine possibly storing propellant powder.

6. SUMMARY:

Although many buildings in the non-explosive areas of this factory have not been identified, it is considered that the identifications indicated above include all buildings vital to the primary production of this target. Buildings which constitute key points in the production of explosives are as follows:

- a. Production of nitroglycerine, dynamite and propellant powder - Nos. 114, 135, 153 and 204 (glycerine nitrator and nitroglycerine separator houses).
- b. Production of nitrocellulose - No. 52 (cellulose nitrator house).
- c. Production of mercury fulminate - No. 3 (balloon house) or No. 4 (solution house)
- d. Precipitation of lead azide - Nos. 12 and 13 (precipitation and finishing houses).

7. ACTIVITY:

Adequate stocks of coal are seen in Area D. Few vehicles are seen on the roads of light RR throughout the plant. Owing to the nature of the processes carried out no other useful statement concerning activity can be made.

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. F/A-135 (Cont'd)

Incl.: C.F.L. 750.061

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AC/AS INTELLIGENCE PHOTOGRAPHIC DIVISION PHOTO INTELLIGENCE SECTION		S/A-57	CONFIDENTIAL PAGE 1 OF 16 PAGES DATE: 30 MAY 1945 REVISED:			
<b>BUILDING CONSTRUCTION ANALYSIS</b>						
TARGET: CHOSEN NITROGEN EXPLOSIVES CO.			AREA & TARGET NO 84:2-2			
LOCATION: KONAN, KOREA			COORDINATES: 39°48'N 127°35'E			
PHOTO- GRAPHY	DATE	MISSION	PRINT NOS	PLAN SCALE	SHADOW SCALE	QUALITY
	21 DEC. 1944	468 BG/4MR44	RV 98-99	1:7600	1:3650	GOOD
			LV 98-99			
			2V1-2	1:12500		

## SUMMARY

(SEE FOLLOWING PAGES FOR DETAILS)

TOTALS											
NO OF BLDGS	229	TOTAL PLAN AREA OF BUILDINGS	828.5	1000'S OF SQ FT	TOTAL FLOOR AREA OF BUILDINGS	846.2	1000'S OF SQ FT	TOTAL SITE AREA	16,300	1000'S OF SQ FT	
SUBTOTALS AND PERCENTAGES											
REVISED ITEM	CLASSIFICATION			PLAN AREA, SUBTOTAL 1000'S OF SQ FT.				PERCENT OF TOTAL PLAN AREA			
	H.E. VULN.	CONST. TYPE	COMBUST.	SECS A-B	SECS C-D-E	SECS F-G	WHOLE TARGET	SECS A-B	SECS C-D-E	SECS F-G	WHOLE TARGET
	V3	E 2(2 STORY)	R		8.7		8.7		1.6%		1.1%
			C		5.4		5.4		1.0%		0.7%
		E 2(3 STORY)	R		1.8		1.8		0.3%		0.2%
	V4	A2.3	N		185.0		185.0		33.9%		22.3%
			C		22.4	14.2	36.6		4.1%	6.5%	4.4%
		D	R			1.6	1.6			0.7%	0.2%
			N	23.9	34.0		57.9	37.0%	6.2%		7.0%
			C	40.7	286.2	202.2	529.1	63.0%	52.5%	92.8%	63.8%
	SPL	S(TANK)	N		2.4		2.4		0.4%		0.3%
				64.6	545.9	218.0	828.5	100%	100%	100%	100%

PREPARED FROM A STUDY OF AERIAL PHOTOGRAPHS AND A CONSIDERATION OF  
EVALUATED GROUND INFORMATION SUPPLIED BY THE JOINT TARGET GROUP

INTER-  
PRETER

D. ROWELL, LT(jg) USNR

JTG CON-  
SULTANT

P. W. SPEAKE

LT, USNR.

## LEGEND: CONSTRUCTION TYPE SYMBOLS

LEGEND: CONSTRUCTION TYPE SYMBOLS									
1-STORY, AREA > 10,000 SQ FT SPAN < 75 FT, NO CRANES	NON-SAWTOOTH	ALL SAWTOOTH EXCEPT A1.2, A1.3, A1.4	A1.1	WITH HEAVY TRAV CRANE, EAVE HT > 30'	B1	1-STORY, < 10,000 SQ FT, ANY CONSTR'N		D	
		R C FRAME & ROOF SLAB	A1.2	WITH LIGHT TRAV CRANE, EAVE HT < 30'	B2				
		TOP CHORDS EXPOSED	A1.3	COLUMNS 1 SIDE, LONG TRUSSES 3 SIDES TRUSSES CONTINUOUS, 1 OR 2 DIRECTIONS	C1.1	FRAMED, EARTHQUAKE RESISTANT	E1		
		STRESSED SKIN R C	A1.4		C1.2	FRAMED, OTHER	E2		
					C1.3				
		BEAMS & COLUMNS	A2.1		SAWTOOTH, TOP CHORDS EXPOSED	C1.4	WALL-BEARING, EARTHQUAKE RESISTANT	F1	
		ARCHES & RIGID FRAMES	A2.2	DIAMOND MESH ARCH	C2.1	WALL-BEARING, OTHER	F2		
		TRUSSES	A2.3	ARCHES	C2.2				
		R C FRAME & ROOF SLAB	A2.4	TRIANGULAR & BOWSTRING TRUSSES	C2.3	SPECIAL INDUSTRIAL STRUCTURES		S	
		STRESSED SKIN INCL R C SHELL	A2.5	FLAT TRUSSES (INCL EXP CHORD SAWTOOTH)	C3				
1-STORY, AREA > 10,000 SQ FT SPAN < 75 FT, NO CRANES	SAWTOOTH			STRESSED SKIN INCL R C SHELL	C3				

BUILDING CONSTRUCTION ANALYSIS CONTINUED				AREA & TARGET NO 84.:2-2						CONFIDENTIAL PAGE 2 OF 16 PAGES DATE: 30 MAY 1945 REVISED:						
R-REVISED	S-STATUS	REF		OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
		NUMBER	SUBDIVISION							TO EAVES	TO RIDGE					
		1		SEWAGE DISPOSAL PUMP HOUSE	30	15	.4	1	.4	10		15	LT.	D	C	V4
		2		ALCOHOL STORAGE HOUSE	30	30	.9	1	.9	14		30	LT.	D	C	V4
		3		FULMINATE BALLOON HOUSE	30	25	.7	1	.7	8		25	LT	D	C	V4
		4		FULMINATE STATION HOUSE	30	25	.7	1	.7	15		25	LT	D	C	V4
		5		ALCOHOL RECOVERY HOUSE	45	40	1.8	1	1.8	25	33	40	LT	D	C	V4
		6		MERCURY STORAGE HOUSE	30	25	.7	1	.7	18	25	25	LT	D	C	V4
		7		MAGAZINE FOR MERCURY FULMINATE	15	15	.2	1	.2	±8		15	LT.	D	C	V4
		8		PELLET PRESS SHOP	70	15	1.0	1	1.0	±10		15	LT	D	C	V4
		9		↓	70	15	1.0	1	1.0	±10		15	LT.	D	C	V4
		10		MAGAZINE FOR TETRYL	40	30	1.2	1	1.2	±8		30	LT	D	C	V4
		11		MAGAZINE FOR TETRYL PELLETS.	40	30	1.2	1	1.2	±8		30	LT	D	C	V4
		12		LEAD AZIDE BUILDING	45	15	.7	1	.7	10	15	15	LT	D	C	V4
		13		↓	45	15	.7	1	.7	10	15	15	LT	D	C	V4
		14		DETONATOR LOADING SHOP	160	25	4.0	1	4.0	±8		25	LT	D	C	V4
		15		↓	160	25	4.0	1	4.0	±8		25	LT	D	C	V4
		16		MAGAZINE FOR FULMINATE OR AZIDE	25	20	.5	1	.5	8		20	LT	D	C	V4
		17		INERT STORAGE BUILDING	30	25	.7	1	.7	10		25	LT	D	C	V4
		18		MAGAZINE FOR FULMINATE OR AZIDE	15	15	.2	1	.2	8		15	LT	D	C	V4
							20.6		20.6							

\*R-FIRE-RESISTANT, N-NON-COMBUSTIBLE, C-COMBUSTIBLE; C/R (MULTI-STORY BLDGS ONLY) - "C" ROOF, R-MAINDER "R"  
\*\*V1 IS LEAST VULNERABLE TO H E ATTACK, V2 IS MORE VULNERABLE AND SO ON. SEE JTG MEMO NO JTG/M/3/1, REVISED.

BUILDING CONSTRUCTION ANALYSIS CONTINUED				AREA & TARGET NO 84:2-2						CONFIDENTIAL PAGE 3 OF 16 PAGES DATE: 30 MAY 1945 REVISED:				
R-REVISED SECTION	REF NUMBER SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
								TO EAVES	TO RIDGE					
	19	DETONATOR LOADING SHOP	160	25	4.0	1	4.0	±8		25	LT	D	C	V4
	20	↓	160	25	4.0	1	4.0	±8		25	LT	D	C	V4
	21	MAGAZINE FOR FINISHED DETONATORS	30	25	.7	1	.7	±8		25	LT	D	C	V4
	22	PROOF YARDS FOR DETONATORS	45	25	1.1	1	1.1	±10		25	LT	D	C	V4
	23	UNIDENTIFIED.	55	30	1.6	1	1.6	15		30	LT	D	C	V4
	24		55	55	3.0	1	3.0	25 15	30	40 7	LT	D	C	V4
	25					1	8.2				LT	D	N	V4
	a		40 70	25 40	3.8			25		25 40				
	b		40	55	2.2			30	44	55				
	c		40	55	2.2			18	30	55				
	26		40	40	1.6	1	1.6	±30		40	LT	D	N	V4
	27		40	220	8.8	1	8.8	25	33	55	LT	D	N	V4
	28		60	35	2.1	1	2.1	10	30	35	LT	D	C	V4
	29		45	45	2.0	1	2.0	30		45	LT	D	N	V4
	30		75	30	2.2	1	2.2	10		30	LT	D	C	V4
	31		55	60	3.3	1	3.3	30 25		30	LT	D	N	V4
	32	↓	40	35	1.4	1	1.4	10		35	LT	D	C	V4
	33	ADMINISTRATIVE BUILDING												
	a		120	45	5.4	2	10.8	10		15	Wood	E2	C	V3
	b		60	30	1.8	1	1.8	10		15	"	D	C	V4
					51.2		56.6							

\*R - FIRE-RESISTANT, N - NON-COMBUSTIBLE, C - COMBUSTIBLE, C/R (MULTI-STORY BLOGS ONLY) - "C" ROOF, REMAINDER "R"  
 \*\*V1 IS LEAST VULNERABLE TO H E ATTACK, V2 IS MORE VULNERABLE AND SO ON. SEE JTG MEMO NO JTG/M/3/1, REVISED



BUILDING CONSTRUCTION ANALYSIS				AREA & TARGET NO								CONFIDENTIAL				
CONTINUED				84: 2 - 2								PAGE 4 OF 16 PAGES DATE: 30 MAY 1945 REVISED:				
R - REVISED	S - SUBDIVISION	REF		OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
		NUMBER	SUBDIVISION							TO EAVES	TO RIDGE					
		34		GUARD HOUSE & PERSONNEL BLDGS.				1	10.3				LT.	D	C	V4
		a			60	25	1.5			10	25					
		b			40	40	1.6			10	40					
		c			55	40	2.2			10	40					
		d			55	25	1.4			10	25					
		e			60	30	1.8			10	30					
		f			25	25	.6			10	25					
		g		Y	40	30	1.2			10	30					
		35		ADMINISTRATIVE BUILDING									Conc.	E2	R	V3
		a			45	40	1.8	3	5.4	30	40					
		b			105	45	4.7	2	9.4	25	45					
		c		Y	90	45	4.0	2	8.0	25	45					
		36		INERT STORAGE BUILDING	120	30	3.6	1	3.6	10	30		LT	D	C	V4
		37			120	30	3.6	1	3.6	10	30		LT	D	C	V4
		38		Y	120	30	3.6	1	3.6	10	30		LT	D	C	V4
		39		RECEIVING STORAGE CELLULOSE	60	120	7.2	1	7.2	15	25	30	LT	D	C	V4
		40			60	120	7.2	1	7.2	15	25	30	LT	D	C	V4
		41			60	120	7.2	1	7.2	15	25	30	LT	D	C	V4
		42			60	120	7.2	1	7.2	15	25	30	LT	D	C	V4
		43			60	120	7.2	1	7.2	15	25	30	LT	D	C	V4
		44			60	60	3.6	1	3.6	15	30		LT	D	C	V4
		45			60	80	4.8	1	4.8	15	30		LT	D	C	V4
		46		Y	60	80	4.8	1	4.8	15	30		LT	D	C	V4
							80.8		93.1							

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R-REVISED SUBSTANTIATION	REF NUMBER SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
								TO EAVES	TO RIDGE					
	47	PRELIMINARY TREATMENT OF CELLULOSE.				1	10.3				LT	A23	C	V4
	a		105	30	3.1			10	30					
	b		60	60	3.6			15	60					
	c		60	60	3.6			15	60					
	48					1	7.2				LT	D	C	V4
	a		60	60	3.6			15	60					
	b		60	60	3.6			15	60					
	49	COAL STORAGE BUILDING	200	25	5.0	1	5.0	10	25		LT	D	C	V4
	50		135	25	3.4	1	3.4	10	25		LT	D	C	V4
	51	BOILER HOUSE				1	6.6				LT	D	C	V4
	a		55	45	2.5			47	45					
	b		55	75	4.1			47	37					
	52	CELLULOSE NITRATOR HOUSE	300	75	22.5	1	22.5	60	37		LT	A23	N	V4
	53	OPEN SIDED BOILING TUB HOUSING	75	45	3.4	1	3.4		45		LT	D	C	V4
	54		105	45	4.7	1	4.7		45		LT	D	C	V4
	55	POSSIBLE MAINTENANCE BUILDING				1	7.8				LT	D	C	V4
	a		100	60	6.0			15	30					
	b		30	60	1.8			25	30					
	56					1	17.4				LT	A23	N	V4
	a	SETTLING PIT FOR PYRO WATER												
	b	POSSIBLE PULPING HOUSE	120	30	3.6			30	30					
	c	POSSIBLE POACHING HOUSE	115	120	13.8			18	60					
	57	WATER TANK	45	24	1.3	1	2.4	44			S	N	SPL	
		POSSIBLE PUMP HOUSE	45	30	1.3	1	1.3	8	30		LT	D	C	V4
	58	POSSIBLE MAINTENANCE BUILDING	115	45	5.2	1	5.2	16	45		LT	D	C	V4
					97.2		97.2							

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BUILDING CONSTRUCTION ANALYSIS CONTINUED				AREA & TARGET NO 84:2-2				CONFIDENTIAL PAGE 6 OF 16 PAGES DATE: 30 May 1945 REVISED:							
R-REVISED S-REVISION MAY	REF		OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
	NUMBER	SUBDIVISION							TO EAVES	TO RIDGE					
	59		PURIFICATION OF PYRO UNIT				1	9.0				LT	D	N	V4
	a			45	100	4.5			25	36	50				
	b			100	45	4.5			40		45				
	60						1	13.5				LT	A23	N	V4
	a			150	30	4.5			35		30 50				
	b			45	100	4.5			25	36	50				
	c			100	45	4.5			40		45				
	61			90	30	2.7	1	2.7	10		30	LT	D	C	V4
	62			60	30	1.8	1	1.8	10		30	LT	D	C	V4
	63			105	45	4.7	1	4.7	10		45	LT	D	C	V4
	64			60	45	2.7	1	2.7	10		45	LT	D	C	V4
	65			45	55	2.5	1	2.5	10		55	LT	D	C	V4
	66			70	30	2.1	1	2.1	15		30	LT	D	C	V4
	67		SPENT ACID UNIT												
	a			30	30	9	1	9	15		30	LT	D	C	V4
	b			40	10	4	1	4	5		10	LT	D	C	V4
	c			115	25	2.9	1	12.1	15		25	LT	A23	C	V4
	d			205	45	9.2	1		18		45				
	68		PURIFICATION OF PYRO UNIT				1	7.5				LT	D	C	V4
	a			55	60	3.3			15		30				
	b			105	40	4.2			10		40				
	69						1	6.5				LT	D	C	V4
	a			70	45	3.1			15		45				
	b			115	30	3.4			15		30				
	70			90	45	4.0	1	4.0	18	26	45	LT	D	C	V4
							70.4	70.4							

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R - REVISED	SUBDIVISION	REF		OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
		NUMBER	SUBDIVISION							TO EAVES	TO RIDGE					
		71		UNIDENTIFIED				1	3.4				LT	D	C	V4
		a			70	25	1.7			15	25					
		b			70	25	1.7			15	25					
		72			105	40	4.2	1	4.2	18	26	40	LT	D	C	V4
		73						1	27.7				LT	A23	N	V4
		a			85	45	3.8			20	45					
		b			165	105	17.3			20	52					
		c			165	40	6.6			15	40					
		74			75	40	3.0	1	3.0	15	40		LT	D	N	V4
		75			120	60	7.2	1	7.2	25	60		LT	D	N	V4
		76						1	10.8				LT	A23	N	V4
		a			145	45	6.5			26	45					
		b			145	30	4.3			26	30					
		77			65	55	3.6	1	3.6	10	15	27	LT	D	C	V4
		78			65	60	3.9	1	3.9	10	15	30	LT	D	C	V4
		79			85	45	3.8	1	3.8	15	22		LT	D	C	V4
		80			85	40	3.4	1	3.4	15	25	40	LT	D	C	V4
		81						1	9.9				LT	D	C	V4
		a			70	90	6.3			10	30					
		b			90	30	2.7			18	30					
		c			30	30	.9			40	45	30				
		82			45	40	1.8	1	1.8	10	40		LT	D	C	V4
		83			70	60	4.2	1	4.2	10	30		LT	D	C	V4
		84		Y	60	40	2.4	1	2.4	10	18	40	LT	D	C	V4
							89.3		89.3							

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								TO EAVES	TO RIDGE					
	85	UNIDENTIFIED	130	75	9.7	1	9.7	10		37	LT	D	C	V4
	86	Y	70	60	4.2	1	4.2	10		30	LT	D	C	V4
	87	POSSIBLE TRANSFORMERS & ELECTRIC SWITCH GEAR				1	9.2				LT	D	C	V4
	a		90	40	3.6			10		40				
	b		55	40	2.2			10		40				
	c	Y	85	40	3.4			10		40				
	88	POSSIBLE CELLULOSE PURIFICATION				1	30.5				LT		N	V4
	a	BOILING, PICKING & CARDING	280	85	23.8			18	25	40		A23		
	b	RECEIVING & DISPATCHING	105	30	3.1			15		30		D		
	c		75	30	2.2			15		30		D		
	d	Y	55	25	1.4			15		25		D		
	89	UNIDENTIFIED				1	58.5				LT	A23	N	V4
	a		210	60	12.6			15	25	60				
	b		140	70	9.8			15	25	70				
	c		260	120	31.2			15	25	60				
	d		70	70	4.9			15	25	35				
	90		60	40	2.4	1	2.4	15	25	40	LT	D	C	V4
	91		105	45	4.7	1	4.7	15		45	LT	D	C	V4
	92		175	30	5.2	1	5.2	15		30	LT	D	C	V4
	93		120	45	5.4	1	5.4	10		45	LT	D	C	V4
	94		75	30	2.2	1	2.2	15		30	LT	D	C	V4
	95		100	30	3.0	1	3.0	15		30	LT	D	C	V4
	96	Y	175	40	7.0	1	7.0	10		40	LT	D	C	V4
	97	WATER RESEVOIR	130	105										
					142.0		142.0							

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								TO EAVES	TO RIDGE					
	98	UNIDENTIFIED	45	15	.7	1	.7	18	25	15	LT	D	C	V4
	99		90	60	54	1	54	15	25	60	LT	D	C	V4
	100					1	7.1				LT	D	C	V4
	a		75	30	2.2			15	18	30				
	b		75	30	2.2			15	18	30				
	c		60	45	2.7			18	20	45				
	101		175	40	7.0	1	7.0	10		40	LT	D	C	V4
	102		90	60	54	1	54	15	25	60	LT	D	C	V4
	103		70	40	2.8	1	2.8	18		40	LT	D	C	V4
	104	WATER RESEVOIR WITH TANK & PUMP HOUSE ON TOP	130	105										
	105	UNIDENTIFIED	60	30	1.8	1	1.8	15		30	LT	D	C	V4
	106					1	18.9				LT		N	V4
	a		180	60	10.8			18	25	60		A23		
	b		80	45	3.6			18	25	45		D		
	c		100	45	4.5			18	25	45		D		
	107		40	120	4.8	1	4.8	15		30	LT	D	C	V4
	108		60	30	1.8	1	1.8	10		30	LT	D	C	V4
	109	MOUNDED STRUCTURE SUPPORTING O/P	45	45										
	110	MOUNDED STRUCTURE USED FOR M/G POST	45	45										
	111	UNIDENTIFIED	60	25	1.5	1	1.5	8		25	LT	D	C	V4
	112		45	40	1.8	1	1.8	10		40	LT	D	C	V4
	113	WATER COOLING BASIN			59.0		59.0							

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								TO EAVES	TO RIDGE					
	114	GLYCERINE NITRATOR & SEPARATOR HOUSE	55	30	1.6	1	1.6	10		30	LT	D	C	V4
	115	SERVING HOUSE	30	25	.7	1	.7	8		25				
	116	NITROGLYCERINE NEUTRALIZATION	55	30	1.6	1	1.6	10		30				
	117	NITROGLYCERINE & NITROCELLULOSE BLEND	40	30	1.2	1	1.2	8		30				
	118		40	30	1.2	1	1.2	8		30				
	119		40	30	1.2	1	1.2	8		30				
	120		40	30	1.2	1	1.2	8		30				
	121	DYNAMITE PREPARATION HOUSE	45	30	1.3	1	1.3	8		30				
	122		70	30	2.1	1	2.1	8		30				
	123		40	30	1.2	1	1.2	10		30				
	124		70	30	2.1	1	2.1	8		30				
	125	MAGAZINE FOR DETONATORS	30	25	.7	1	.7	8		25				
	126	DYNAMITE PREPARATION HOUSE	70	30	2.1	1	2.1	8		30				
	127		40	30	1.2	1	1.2	10		30				
	128		70	30	2.1	1	2.1	8		30				
	129		45	30	1.3	1	1.3	8		30				
	130	INERT STORAGE	120	40	4.8	1	4.8	10		40				
	131	NITROCELLULOSE PREPARATION HOUSE	70	30	2.1	1	2.1	8		30				
	132	(NO BLDG)												
					29.7		29.7							

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								TO EAVES	TO RIDGE					
	133	GLYCERINE OR ACID HOUSE				1	3.2				LT	D	C	V4
	a		45	45	2.0			5.0		45				
	b		40	30	1.2			10		30				
	134	(SEE No 114)	55	30	1.6	1	1.6	10		30				
	135	115)	30	25	.7	1	.7	8		25				
	136	116)	55	30	1.6	1	1.6	10		30				
	137	117)	40	30	1.2	1	1.2	8		30				
	138		40	30	1.2	1	1.2	8		30				
	139		40	30	1.2	1	1.2	8		30				
	140	Y	40	30	1.2	1	1.2	8		30				
	141	121)	45	30	1.3	1	1.3	8		30				
	142		70	30	2.1	1	2.1	8		30				
	143		40	30	1.2	1	1.2	10		30				
	144	Y	70	30	2.1	1	2.1	8		30				
	145	125)	30	25	.7	1	.7	8		25				
	146	126)	70	30	2.1	1	2.1	8		30				
	147		40	30	1.2	1	1.2	10		30				
	148		70	30	2.1	1	2.1	8		30				
	149	Y Y	45	30	1.3	1	1.3	8		30	V	V	V	V
					26.0		26.0							

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								TO EAVES	TO RIDGE					
	150	(SEE NO. 131)	70	30	2.1	1	2.1	8		30	LT	D	C	V4
	151	↓	55	30	1.6	1	1.6	8		30				
	152	ACID OR GLYCERINE HOUSE	30	30	.9	1	.9	47		30				
	153	(SEE NO. 114)	55	30	1.6	1	1.6	10		30				
	154	115)	30	25	.7	1	.7	8		25				
	155	116)	55	30	1.6	1	1.6	10		30				
	156	117)	40	30	1.2	1	1.2	8		30				
	157		40	30	1.2	1	1.2	8		30				
	158		40	30	1.2	1	1.2	8		30				
	159	↓	40	30	1.2	1	1.2	8		30				
	160	121)	45	30	1.3	1	1.3	8		30				
	161		70	30	2.1	1	2.1	8		30				
	162		40	30	1.2	1	1.2	10		30				
	163		70	30	2.1	1	2.1	8		30				
	164		70	30	2.1	1	2.1	8		30				
	165		40	30	1.2	1	1.2	10		30				
	166		70	30	2.1	1	2.1	8		30				
	167	↓ ↓	45	30	1.3	1	1.3	8		30				
	168	INERT STORAGE	55	40	2.2	1	2.2	15		40	↓	↓	↓	↓
					28.9		28.9							

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	186	DOUBLE-BASE PROPELLANT COMPOUNDING HOUSE	30	25	.7	1	.7	8	25	LT	D	C	V4
	187		60	25	1.5	1	1.5	8	25				
	188		30	25	.7	1	.7	8	25				
	189		60	25	1.5	1	1.5	8	25				
	190		60	25	1.5	1	1.5	8	25				
	191		30	25	.7	1	.7	8	25				
	192		60	25	1.5	1	1.5	8	25				
	193	Y	30	25	.7	1	.7	8	25				
	194	NITROCELLULOSE PREPARATION.	40	25	1.0	1	1.0	8	25				
	195	↓	70	30	2.1	1	2.1	8	30				
	196	INERT STORAGE	85	40	3.4	1	3.4	15	25	40			
	197	BLEND HOUSES FOR NITRO-GLYCERIDE & CELLULOSE	40	25	1.0	1	1.0	8	25				
	198		40	25	1.0	1	1.0	8	25				
	199		40	25	1.0	1	1.0	8	25				
	200	Y	40	25	1.0	1	1.0	8	25				
	201	POSSIBLE NITROGLYCERINE STORAGE HOUSE	30	30	.9	1	.9	8	30				
	202	NITROGLYCERINE NEUTRALIZATION	40	30	1.2	1	1.2	8	30				
	203	SERVING HOUSE	30	25	.7	1	.7	8	25				
	204	GLYCERINE NITRATOR & SEPARATOR HOUSE.	55	30	1.6	1	1.6	10	30	Y	Y	Y	Y
					23.7		23.7						

\*R-FIRE-RESISTANT, N=NON-COMBUSTIBLE, C=COMBUSTIBLE; C/R (MULTI-STORY BLDGS ONLY) - "C" ROOF, REMAINDER "R"  
 \*\*V1 IS LEAST VULNERABLE TO H E ATTACK, V2 IS MORE VULNERABLE AND SO ON. SEE JTG MEMO NO JTG/M/3/1, REVISED

**BUILDING  
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R-REVISED SUBDIVISION	REF NUMBER	SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
									TO EAVES	TO RIDGE					
	205		NITROGLYCERIDE NEUTRALIZATION.	40	30	1.2	1	1.2	8		30	LT	D	C	V4
	206		ACID OR GLYCERINE HOUSE	55	45	2.5	1	2.5	47		45				
	207		INERT STORAGE	45	40	1.8	1	1.8	10	25	40				
	208		UNIDENTIFIED RELATED TO BLDG #209	40	30	1.2	1	1.2	10	15	30				
	209		MOUNDED STRUCTURE SUPPORTING Q/P OR M/G.												
	210		UNIDENTIFIED # RELATED TO BLDG 209	30	30	.9	1	.9	18	25	30				
	211		DOUBLE-BASE PROPELLANT PREPARATION HOUSES.	30	30	.9	1	.9	8		30				
	212			30	30	.9	1	.9	8		30				
	213			30	30	.9	1	.9	8		30				
	214			30	30	.9	1	.9	8		30				
	215			30	30	.9	1	.9	8		30				
	216			30	30	.9	1	.9	8		30				
	217			30	30	.9	1	.9	8		30				
	218			30	30	.9	1	.9	8		30				
	219			30	30	.9	1	.9	8		30				
	220			30	30	.9	1	.9	8		30				
	221			30	30	.9	1	.9	8		30				
	222			30	30	.9	1	.9	8		30				
	223			30	30	.9	1	.9	8		30	V	V	V	V
						19.3		19.3							

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PHOTO INTELLIGENCE SECTIONCONFIDENTIAL  
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## BUILDING CONSTRUCTION ANALYSIS

TARGET: CHOSEN NITROGEN EXPLOSIVES CO.  
LOCATION: KONAN, KOREA COORDINATES: 39°-48'N 127°-35'EAREA & TARGET NO  
84:2-2

PHOTO- GRAPHY	DATE	MISSION	PRINT NOS	PLAN SCALE	SHADOW SCALE	QUALITY
	21 DEC. 1944	468 BG/4MR44	RV 98-99	1:7600	1:3650	GOOD
			LV 98-99			
			2V 1-2	1:12500		

## SUMMARY

(SEE FOLLOWING PAGES FOR DETAILS)

TOTALS											
NO OF BLDG'S	229	TOTAL PLAN AREA OF BUILDINGS	828.5	1000'S OF SQ FT	TOTAL FLOOR AREA OF BUILDINGS	846.2	1000'S OF SQ FT	TOTAL SITE AREA	16,300	1000'S OF SQ FT	
SUBTOTALS AND PERCENTAGES											
REVISED ITEM	CLASSIFICATION			PLAN AREA, SUBTOTAL 1000'S OF SQ FT.				PERCENT OF TOTAL PLAN AREA			
	H.E. VULN.	CONST. TYPE	COMBUST.	SECS A-B	SECS C-D-E	SECS F-G	WHOLE TARGET	SECS A-B	SECS C-D-E	SECS F-G	WHOLE TARGET
	V3	E 2(2 STORY)	R		8.7		8.7		1.6%		1.1%
			C		5.4		5.4		1.0%		0.7%
		E 2(3 STORY)	R		1.8		1.8		0.3%		0.2%
	V4	A2.3	N		185.0		185.0		33.9%		22.3%
			C		22.4	14.2	36.6		4.1%	6.5%	4.4%
		D	R			1.6	1.6			0.7%	0.2%
			N	23.9	34.0		57.9	37.0%	6.2%		7.0%
			C	40.7	286.2	202.2	529.1	63.0%	52.5%	92.8%	63.8%
	SPL	S (TANK)	N		2.4		2.4		0.4%		0.3%
				64.6	545.9	218.0	828.5	100%	100%	100%	100%

PREPARED FROM A STUDY OF AERIAL PHOTOGRAPHS AND A CONSIDERATION OF  
EVALUATED GROUND INFORMATION SUPPLIED BY THE JOINT TARGET GROUPINTER-  
PRETER

D. ROWELL, LT(jg) USNR

JTG CON-  
SULTANT

P. M. SPEAKE

LT, USNR.

## LEGEND: CONSTRUCTION TYPE SYMBOLS

1-STORY, AREA > 10,000 SQ FT SPAN < 75 FT., NO CRANES	ALL SAWTOOTH EXCEPT A1.2, A1.3, A1.4	A1.1	WITH HEAVY TRAV CRANE, EAVE HT > 30'	B1	1-STORY, < 10,000 SQ FT., ANY CONSTR'N	D
NON SAWTOOTH	R C FRAME & ROOF SLAB	A1.2	WITH LIGHT TRAV CRANE, EAVE HT < 30'	B2		
	TOP CHORDS EXPOSED	A1.3	COLUMNS 1 SIDE	C1.1	FRAMED, EARTHQUAKE RESISTANT	E1
	STRESSED SKIN R C	A1.4	LONG TRUSSES 3 SIDES	C1.2	FRAMED, OTHER	E2
			TRUSSES CONTINUOUS, 1 OR 2 DIRECTIONS	C1.3		
1-STORY, AREA > 10,000 SQ FT SPAN > 75 FT., NO CRANES	BEAMS & COLUMNS	A2.1	SAWTOOTH, TOP CHORDS EXPOSED	C1.4	WALL-BEARING, EARTHQUAKE RESISTANT	F1
	ARCHES & RIGID FRAMES	A2.2	DIAMOND MESH ARCH	C2.1	WALL-BEARING, OTHER	F2
	TRUSSES	A2.3	ARCHES	C2.2		
	R C FRAME & ROOF SLAB	A2.4	TRIANGULAR & BOWSTRING TRUSSES	C2.3		
1-STORY, AREA > 10,000 SQ FT SPAN > 75 FT., NO CRANES	STRESSED SKIN INCL R C SHELL	A2.5	FLAT TRUSSES (INCL EXP CHORD SAWTOOTH)	C2.3	SPECIAL INDUSTRIAL STRUCTURES	S
			STRESSED SKIN INCL R C SHELL	C3		

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R=REVISED REVISION NUMBER	REF NUMBER SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
								TO EAVES	TO RIDGE					
	1	SEWAGE DISPOSAL PUMP HOUSE	30	15	.4	1	4	10	15		LT.	D	C	V4
	2	ALCOHOL STORAGE HOUSE	30	30	.9	1	9	14	30		LT.	D	C	V4
	3	FULMINEATE BALLOON HOUSE	30	25	.7	1	7	8	25		LT	D	C	V4
	4	FULMINEATE STATION HOUSE	30	25	.7	1	7	15	25		LT	D	C	V4
	5	ALCOHOL RECOVERY HOUSE	45	40	1.8	1	1.8	25	33	40	LT	D	C	V4
	6	MERCURY STORAGE HOUSE	30	25	.7	1	.7	18	25	25	LT	D	C	V4
	7	MAGAZINE FOR MERCURY FULMINEATE	15	15	.2	1	.2	±8	15		LT.	D	C	V4
	8	PELLET PRESS SHOP	70	15	1.0	1	1.0	±10	15		LT	D	C	V4
	9	↓	70	15	1.0	1	1.0	±10	15		LT.	D	C	V4
	10	MAGAZINE FOR TETRYL	40	30	1.2	1	1.2	±8	30		LT	D	C	V4
	11	MAGAZINE FOR TETRYL PELLETS	40	30	1.2	1	1.2	±8	30		LT	D	C	V4
	12	LEAD AZIDE BUILDING	45	15	.7	1	.7	10	15	15	LT	D	C	V4
	13	↓	45	15	.7	1	.7	10	15	15	LT	D	C	V4
	14	DETONATOR LOADING SHOP	160	25	4.0	1	4.0	±8	25		LT	D	C	V4
	15	↓	160	25	4.0	1	4.0	±8	25		LT	D	C	V4
	16	MAGAZINE FOR FULMINEATE OR AZIDE	25	20	.5	1	.5	8	20		LT.	D	C	V4
	17	INERT STORAGE BUILDING	30	25	.7	1	.7	10	25		LT	D	C	V4
	18	MAGAZINE FOR FULMINEATE OR AZIDE	15	15	.2	1	.2	8	15		LT.	D	C	V4
					20.6		20.6							

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								TO EAVES	TO RIDGE					
	19	DETONATOR LOADING SHOP	160	25	4.0	1	4.0	±8		25	LT	D	C	V4
	20	↓	160	25	4.0	1	4.0	±8		25	LT	D	C	V4
	21	MAGAZINE FOR FINISHED DETONATORS	30	25	.7	1	.7	±8		25	LT	D	C	V4
	22	PROOF YARDS FOR DETONATORS	45	25	1.1	1	1.1	±10		25	LT	D	C	V4
	23	UNIDENTIFIED	55	30	1.6	1	1.6	15		30	LT	D	C	V4
	24		55	55	3.0	1	3.0	25 15	30 40	7	LT	D	C	V4
	25					1	8.2				LT	D	N	V4
	a		40 70	25 40	3.8			25		25 40				
	b		40	55	2.2			30	44	55				
	c		40	55	2.2			18	30	55				
	26		40	40	1.6	1	1.6	±30		40	LT	D	N	V4
	27		40	220	8.8	1	8.8	25	33	55	LT	D	N	V4
	28		60	35	2.1	1	2.1	18	30	35	LT	D	C	V4
	29		45	45	2.0	1	2.0	30		45	LT	D	N	V4
	30		75	30	2.2	1	2.2	10		30	LT	D	C	V4
	31		55	60	3.3	1	3.3	30 25		30	LT	D	N	V4
	32	↓	40	35	1.4	1	1.4	10		35	LT	D	C	V4
	33	ADMINISTRATIVE BUILDING												
	a		120	45	5.4	2	10.8	18		15	Wood	E2	C	V3
	b		60	30	1.8	1	1.8	10		15	"	D	C	V4
					51.2		56.6							

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R-REVISED STANDARD SYMBOL	REF		OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY*
	NUMBER	SUBDIVISION							TO EAVES	TO RIDGE					
	34		GUARD HOUSE & PERSONNEL BLDGS.				1	10.3				LT.	D	C	V4
		a		60	25	1.5			10	25					
		b		40	40	1.6			10	40					
		c		55	40	2.2			10	40					
		d		55	25	1.4			10	25					
		e		60	30	1.8			10	30					
		f		25	25	.6			10	25					
	g		Y	40	30	1.2			10	30					
	35		ADMINISTRATIVE BUILDING									Conc.	E2	R	V3
		a		45	40	1.8	3	5.4	30	40					
		b		105	45	4.7	2	9.4	25	45					
		c	Y	90	45	4.0	2	8.0	25	45					
	36		INERT STORAGE BUILDING	120	30	3.6	1	3.6	10	30		LT	D	C	V4
	37			120	30	3.6	1	3.6	10	30		LT	D	C	V4
	38		Y	120	30	3.6	1	3.6	10	30		LT	D	C	V4
	39		RECEIVING STORAGE CELLULOSE	60	120	7.2	1	7.2	15	25	30	LT	D	C	V4
	40			60	120	7.2	1	7.2	15	25	30	LT	D	C	V4
	41			60	120	7.2	1	7.2	15	25	30	LT	D	C	V4
	42			60	120	7.2	1	7.2	15	25	30	LT	D	C	V4
	43			60	120	7.2	1	7.2	15	25	30	LT	D	C	V4
	44			60	60	3.6	1	3.6	15	30		LT	D	C	V4
	45			60	80	4.8	1	4.8	15	30	10	LT	D	C	V4
	46		Y	60	80	4.8	1	4.8	15	30	10	LT	D	C	V4
						80.8		93.1							

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		NUMBER	SUBDIVISION							TO EAVES	TO RIDGE					
		47		PRELIMINARY TREATMENT OF CELLULOSE				1	10.3				LT	A23	C	V4
		a			105	30	3.1			10	30					
		b			60	60	3.6			15	60					
		c			60	60	3.6			15	60					
		48						1	7.2				LT	D	C	V4
		a			60	60	3.6			15	60					
		b			60	60	3.6			15	60					
		49		COAL STORAGE BUILDING	200	25	5.0	1	5.0	10	25		LT	D	C	V4
		50			135	25	3.4	1	3.4	10	25		LT	D	C	V4
		51		BOILER HOUSE				1	6.6				LT	D	C	V4
		a			55	45	2.5			47	45					
		b			55	75	4.1			47	37					
		52		CELLULOSE NITRATOR HOUSE	300	75	22.5	1	22.5	60	37		LT	A23	N	V4
		53		OPEN SIDED BOILING TUB HOUSING	75	45	3.4	1	3.4		45		LT	D	C	V4
		54			105	45	4.7	1	4.7		45		LT	D	C	V4
		55		POSSIBLE MAINTENANCE BUILDING				1	7.8				LT	D	C	V4
		a			100	60	6.0			15	30					
		b			30	60	1.8			25	30					
		56						1	17.4				LT	A23	N	V4
		a		SETTLING PIT FOR PYRO WATER												
		b		POSSIBLE PULPING HOUSE	120	30	3.6			30	30					
		c		POSSIBLE POACHING HOUSE	115	120	13.8			18	60					
		57		WATER TANK	45		2.4	1	2.4	44				S	N	SPL
				POSSIBLE PUMP HOUSE	45	30	1.3	1	1.3	8	30		LT	D	C	V4
		58		POSSIBLE MAINTENANCE BUILDING	115	45	5.2	1	5.2	16	45		LT	D	C	V4
								97.2	97.2							

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R=REVISED C=CHANGED M=MODIFIED	REF NUMBER SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
								TO EAVES	TO RIDGE					
	59	PURIFICATION OF PYRO UNIT				1	9.0				LT	D	N	V4
	a		45	100	4.5			25	36	50				
	b		100	45	4.5			40		45				
	60					1	13.5				LT	A23	N	V4
	a		150	30	4.5			35		30				
	b		45	100	4.5			25	36	50				
	c		100	45	4.5			40		45				
	61		90	30	2.7	1	2.7	10		30	LT	D	C	V4
	62		60	30	1.8	1	1.8	10		30	LT	D	C	V4
	63		105	45	4.7	1	4.7	10		45	LT	D	C	V4
	64		60	45	2.7	1	2.7	10		45	LT	D	C	V4
	65		45	55	2.5	1	2.5	10		55	LT	D	C	V4
	66		70	30	2.1	1	2.1	15		30	LT	D	C	V4
	67	SPENT ACID UNIT												
	a		30	30	9	1	9	15		30	LT	D	C	V4
	b		40	10	4	1	4	5		10	LT	D	C	V4
	c		115	25	2.9	1	12.1	15		25	LT	A23	C	V4
	d		205	45	9.2	1		18		45				
	68	PURIFICATION OF PYRO UNIT				1	7.5				LT	D	C	V4
	a		55	60	3.3			15		30				
	b		105	40	4.2			10		40				
	69					1	6.5				LT	D	C	V4
	a		70	45	3.1			15		45				
	b		115	30	3.4			15		30				
	70		90	45	4.0	1	4.0	18	26	45	LT	D	C	V4
					70.4		70.4							

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								TO EAVES	TO RIDGE					
	71	UNIDENTIFIED				1	3.4				LT	D	C	V4
	a		70	25	1.7			15	25					
	b		70	25	1.7			15	25					
	72		105	40	4.2	1	4.2	18	26	40	LT	D	C	V4
	73					1	27.7				LT	A23	N	V4
	a		85	45	3.8			20	45					
	b		165	105	17.3			20	52					
	c		165	40	6.6			15	40					
	74		75	40	3.0	1	3.0	15	40		LT	D	N	V4
	75		120	60	7.2	1	7.2	25	60		LT	D	N	V4
	76					1	10.8				LT	A23	N	V4
	a		145	45	6.5			26	45					
	b		145	30	4.3			26	30					
	77		65	55	3.6	1	3.6	10	15	27	LT	D	C	V4
	78		65	60	3.9	1	3.9	10	15	30	LT	D	C	V4
	79		85	45	3.8	1	3.8	15	22		LT	D	C	V4
	80		85	40	3.4	1	3.4	15	25	40	LT	D	C	V4
	81					1	9.9				LT	D	C	V4
	a		70	90	6.3			10	30					
	b		90	30	2.7			18	30					
	c		30	30	.9			40	45	30				
	82		45	40	1.8	1	1.8	10	40		LT	D	C	V4
	83		70	60	4.2	1	4.2	10	30		LT	D	C	V4
	84		60	40	2.4	1	2.4	10	18	40	LT	D	C	V4
					89.3		89.3							

\*R - FIRE-RESISTANT, N - NON-COMBUSTIBLE, C - COMBUSTIBLE; C/R (MULTI-STORY BLDGS ONLY) - "C" ROOF, REMAINDER "R"  
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DATE: 30 MAY 1945

REVISED:

R-REVISED	C-PRIMARY ESTABLISHMENT	REF		OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
		NUMBER	SUBDIVISION							TO EAVES	TO RIDGE					
		85		UNIDENTIFIED	130	75	9.7	1	9.7	10		37	LT.	D	C	V4
		86		↓	70	60	4.2	1	4.2	10		30	LT	D	C	V4
		87		POSSIBLE TRANSFORMERS & ELECTRIC SWITCH GEAR				1	9.2				LT	D	C	V4
		a		↓	90	40	3.6			10		40				
		b		↓	55	40	2.2			10		40				
		c		↓	85	40	3.4			10		40				
		88		POSSIBLE CELLULOSE PURIFICATION				1	30.5				LT.		N	V4
		a		BOILING, PICKING & CARDING	280	85	23.8			18	25	40		A23		
		b		RECEIVING & DISPATCHING	105	30	3.1			15		30		D		
		c		↓	75	30	2.2			15		30		D		
		d		↓	55	25	1.4			15		25		D		
		89		UNIDENTIFIED				1	58.5				LT	A23	N	V4
		a			210	60	12.6			15	25	60				
		b			140	70	9.8			15	25	70				
		c			260	120	31.2			15	25	60				
		d			70	70	4.9			15	25	35				
		90			60	40	2.4	1	2.4	15	25	40	LT	D	C	V4
		91			105	45	4.7	1	4.7	15		45	LT	D	C	V4
		92			175	30	5.2	1	5.2	15		30	LT	D	C	V4
		93			120	45	5.4	1	5.4	10		45	LT	D	C	V4
		94			75	30	2.2	1	2.2	15		30	LT	D	C	V4
		95			100	30	3.0	1	3.0	15		30	LT	D	C	V4
		96		↓	175	40	7.0	1	7.0	10		40	LT.	D	C	V4
		97		WATER RESEVOIR	130	105										
							142.0		142.0							

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# BUILDING CONSTRUCTION ANALYSIS

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DATE: 30 MAY 1945

REVISED:

R-REVISED SECTION	REF NUMBER SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
								TO EAVES	TO RIDGE					
	98	UNIDENTIFIED	45	15	.7	1	.7	18	25	15	LT	D	C	V4
	99		90	60	54	1	54	15	25	60	LT	D	C	V4
	100					1	7.1				LT	D	C	V4
	a		75	30	2.2			15	18	30				
	b		75	30	2.2			15	18	30				
	c		60	45	2.7			18	20	45				
	101		75	40	7.0	1	7.0	10		40	LT	D	C	V4
	102		90	60	54	1	54	15	25	60	LT	D	C	V4
	103		70	40	2.8	1	28	18		40	LT	D	C	V4
	104	WATER RESEVOIR WITH TANK & PUMP HOUSE ON TOP	130	105										
	105	UNIDENTIFIED	60	30	1.8	1	1.8	15		30	LT	D	C	V4
	106					1	18.9				LT		N	V4
	a		180	60	10.8			18	25	60		A23		
	b		80	45	3.6			18	25	45		D		
	c		100	45	4.5			18	25	45		D		
	107		40	120	4.8	1	4.8	15		30	LT	D	C	V4
	108		60	30	1.8	1	1.8	10		30	LT	D	C	V4
	109	MOUNDED STRUCTURE SUPPORTING O/P	45	45										
	110	MOUNDED STRUCTURE USED FOR M/G POST	45	45										
	111	UNIDENTIFIED	60	25	1.5	1	1.5	8		25	LT	D	C	V4
	112		45	40	1.8	1	1.8	10		40	LT	D	C	V4
	113	WATER COOLING BASIN			59.0		59.0							

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REVISED:

R-REVISED SECTION	REF NUMBER SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
								TO EAVES	TO RIDGE					
	114	GLYCERIDE NITRATOR & SEPARATOR HOUSE	55	30	1.6	1	1.6	10		30	LT	D	C	V4
	115	SERVING HOUSE	30	25	.7	1	.7	8		25				
	116	NITROGLYCERINE NEUTRALIZATION	55	30	1.6	1	1.6	10		30				
	117	NITROGLYCERINE & NITROCELLULOSE BLEND	40	30	1.2	1	1.2	8		30				
	118		40	30	1.2	1	1.2	8		30				
	119		40	30	1.2	1	1.2	8		30				
	120	↓	40	30	1.2	1	1.2	8		30				
	121	DYNAMITE PREPARATION HOUSE	45	30	1.3	1	1.3	8		30				
	122		70	30	2.1	1	2.1	8		30				
	123		40	30	1.2	1	1.2	10		30				
	124	↓	70	30	2.1	1	2.1	8		30				
	125	MAGAZINE FOR DETONATORS	30	25	.7	1	.7	8		25				
	126	DYNAMITE PREPARATION HOUSE	70	30	2.1	1	2.1	8		30				
	127		40	30	1.2	1	1.2	10		30				
	128		70	30	2.1	1	2.1	8		30				
	129	↓	45	30	1.3	1	1.3	8		30				
	130	INERT STORAGE	120	40	4.8	1	4.8	10		40				
	131	NITROCELLULOSE PREPARATION HOUSE	70	30	2.1	1	2.1	8		30	↓	↓	↓	↓
	132	(NO ↓ BLDG)												
					29.7		29.7							

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R-REVISED SECTION	REF NUMBER SUBDIVISION	OCCUPANCY	LENGTH, FT.	WIDTH, FT.	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
								TO EAVES	TO RIDGE					
	133	GLYCERINE OR ACID HOUSE				1	3.2				LT	D	C	V4
	a		45	45	20			50		45				
	b		40	30	1.2			10		30				
	134	(SEE NO 114)	55	30	1.6	1	1.6	10		30				
	135	115)	30	25	.7	1	.7	8		25				
	136	116)	55	30	1.6	1	1.6	10		30				
	137	117)	40	30	1.2	1	1.2	8		30				
	138		40	30	1.2	1	1.2	8		30				
	139		40	30	1.2	1	1.2	8		30				
	140	↓	40	30	1.2	1	1.2	8		30				
	141	121)	45	30	1.3	1	1.3	8		30				
	142		70	30	2.1	1	2.1	8		30				
	143		40	30	1.2	1	1.2	10		30				
	144	↓	70	30	2.1	1	2.1	8		30				
	145	125)	30	25	.7	1	.7	8		25				
	146	126)	70	30	2.1	1	2.1	8		30				
	147		40	30	1.2	1	1.2	10		30				
	148		70	30	2.1	1	2.1	8		30				
	149	↓ ↓	45	30	1.3	1	1.3	8		30	↓	↓	↓	↓
					26.0		26.0							

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# **BUILDING CONSTRUCTION ANALYSIS**

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REVISED:

R=REVISED REVISION NUMBER	REF NUMBER SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
								TO EAVES	TO RIDGE					
	150	(SEE NO. 131)	70	30	2.1	1	2.1	8		30	LT	D	C	V4
	151	↓	55	30	1.6	1	1.6	8		30				
	152	ACID OR GLYCERIDE HOUSE	30	30	.9	1	.9	47		30				
	153	(SEE NO. 114)	55	30	1.6	1	1.6	10		30				
	154	115)	30	25	.7	1	.7	8		25				
	155	116)	55	30	1.6	1	1.6	10		30				
	156	117)	40	30	1.2	1	1.2	8		30				
	157		40	30	1.2	1	1.2	8		30				
	158		40	30	1.2	1	1.2	8		30				
	159	↓	40	30	1.2	1	1.2	8		30				
	160	121)	45	30	1.3	1	1.3	8		30				
	161		70	30	2.1	1	2.1	8		30				
	162		40	30	1.2	1	1.2	10		30				
	163		70	30	2.1	1	2.1	8		30				
	164		70	30	2.1	1	2.1	8		30				
	165		40	30	1.2	1	1.2	10		30				
	166		70	30	2.1	1	2.1	8		30				
	167	↓ ↓	45	30	1.3	1	1.3	8		30				
	168	INERT STORAGE	55	40	2.2	1	2.2	15		40	↓	↓	↓	↓
					28.9		28.9							

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R-REVISED SUBDIVISION	REF NUMBER	SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
									TO EAVES	TO RIDGE					
	186		DOUBLE-BASE PROPELLANT COMPOUNDING HOUSE	30	25	.7	1	.7	8		25	LT	D	C	V4
	187			60	25	1.5	1	1.5	8		25				
	188			30	25	.7	1	.7	8		25				
	189			60	25	1.5	1	1.5	8		25				
	190			60	25	1.5	1	1.5	8		25				
	191			30	25	.7	1	.7	8		25				
	192			60	25	1.5	1	1.5	8		25				
	193		↓	30	25	.7	1	.7	8		25				
	194		NITROCELLULOSE PREPARATION.	40	25	1.0	1	1.0	8		25				
	195		↓	70	30	2.1	1	2.1	8		30				
	196		INERT STORAGE	85	40	3.4	1	3.4	15	25	40				
	197		BLEND HOUSES FOR NITRO-GLYCERIDE & CELLULOSE	40	25	1.0	1	1.0	8		25				
	198			40	25	1.0	1	1.0	8		25				
	199			40	25	1.0	1	1.0	8		25				
	200		↓	40	25	1.0	1	1.0	8		25				
	201		POSSIBLE NITROGLYCERINE STORAGE HOUSE	30	30	.9	1	.9	8		30				
	202		NITROGLYCERINE NEUTRALIZATION	40	30	1.2	1	1.2	8		30				
	203		SERVING HOUSE	30	25	.7	1	.7	8		25				
	204		GLYCERINE NITRATOR & SEPARATOR HOUSE.	55	30	1.6	1	1.6	10		30	↓	↓	↓	↓
						23.7		23.7							

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REVISED:

R-REVISED COLUMN REMARKS	REF		OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	HEIGHT		SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILITY*	H E VULNERA- BILITY**
	NUMBER	SUBDIVISION							TO EAVES	TO RIDGE					
	205		NITROGLYCERIDE NEUTRALIZATION.	40	30	1.2	1	1.2	8		30	LT	D	C	V4
	206		ACID OR GLYCERINE HOUSE	55	45	2.5	1	2.5	47		45				
	207		INERT STORAGE	45	40	1.8	1	1.8	10	25	40				
	208		UNIDENTIFIED RELATED TO BLDG #209	40	30	1.2	1	1.2	10	15	30				
	209		MOUNDED STRUCTURE SUPPORTING O/P OR M/G.												
	210		UNIDENTIFIED # RELATED TO BLDG 209	30	30	.9	1	.9	18	25	30				
	211		DOUBLE-BASE PROPELLANT PREPARATION HOUSES.	30	30	.9	1	.9	8		30				
	212			30	30	.9	1	.9	8		30				
	213			30	30	.9	1	.9	8		30				
	214			30	30	.9	1	.9	8		30				
	215			30	30	.9	1	.9	8		30				
	216			30	30	.9	1	.9	8		30				
	217			30	30	.9	1	.9	8		30				
	218			30	30	.9	1	.9	8		30				
	219			30	30	.9	1	.9	8		30				
	220			30	30	.9	1	.9	8		30				
	221			30	30	.9	1	.9	8		30				
	222			30	30	.9	1	.9	8		30				
	223			30	30	.9	1	.9	8		30				
						19.3		19.3							

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