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

FUNCTIONAL ANALYSIS REPORT NO. F/A-129 Date 7 May 1945

TARGET NO:

84.2-1

NAME OF TARGET: CHOSEN NITROGEN FERTILIZER CO.

LOCATION:

KONAN. KOREA

COORDINATES: 39051'N - 127038' E

PHOTOGRAPHY:

Date 21 Dec. 44

468BG/4MR44

Prints 2V:3-5

RV:92-95 LV:91-96

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:

It is reported that the plant is the largest producer of basic war chemicals in the Japanese Empire; also, that the plant has a magnesium plant, and produces alumina, aluminum, small amounts of lead and copper, and some electric steel.

The photographs indicate the probable location of the reported installations with the exception of an electric steel plant.

The basic war chemicals manufactured include ammonia, nitric acid, sulphuric acid, glycerine and nitrogenous and phosphatic fertilizers.

The plant is located on the east coast of KOREA adjoining the town of KONAN and approximately seven miles SSE of KANKO.

4. SERVICES:

The plant is serviced by the HAMGYONG MAIN LINE. There are three small marshalling yards nearby, and RR spurs run to different sections of the plant.

There are adequate highway connections to KONAN and KANKO.

Harbor facilities include a pier 2600 feet long with a 1500 foot warehouse. Large ships can be handled alongside and loaded by means of modern heavy cranes and conveyors. A RR spur runs along the pier.

The plant has electric power available from two nearby hydro-electric power systems.

IDENTIFICATION OF FACILITIES:

- 1. Lead smelters and concentrators
- 2. Lead refinery
- 3. Unidentified
- 4. Copper electrolysis
- 5. Probable contact sulphuric acid plant
- Four 30' tanks
- 7-8. Unidentified
- 9. Building associated with No. 5
- Smelters probably for copper Unidentified 10-11.
- 12.
- 13. Roasting and sintering building probably for copper ore
- 14. Probably conditioning and roasting of lead ore
- 15. Ore concentration building
- Unidentified

IDENTIFICATION OF FACILITIES: 17-22. Storage Warehouse in three sections totaling approximately 1500' long with four travelling cranes and a 40-ton crane near the south end. 23. Four 45' fuel storage tanks Possible distillation towers 28. 29. Unidentified, however it is connected by pipeline to the probable Unidentified 30. Sulphuric Acid Plant No. 55 Unidentified 31. Superphosphate manufacture and storage 32. Buildings associated with No. 35 33-34. Distillation and refinery of fish oils and glycerine Buildings associated with No. 35 35. 36-39. 20' storage tank with an adjoining smaller tank 40. Probable customs office building 41. 42. Warehouse 95' fish oil storage tank 43. Unidentified building with two 20' tanks alongside 44. Four 70' fish oil tanks 45-48. Probable water tank 50. Four 35' fish oil or glycerine storage tanks 51. Two 30' storage tanks for building No. 55 52. Ruilding associated with No. 55 53. Two 30' storage tanks for building No. 55 54. Sulphuric acid manufacture 55. One 60' and two 30' storage tanks for building No. 55 56. Building associated with No. 55 57. One 60' and two 30' storage tanks for building No. 55 58. Two 30' storage tanks for building No. 62 59. Building associated with No. 62 60. Two 30' storage tanks for building No. 62 61. Sulphuric acid manufacture 62. Two 30' storage tanks for building No. 62 63. Building associated with No. 62 64. One 60' and two 30' storage tanks for building No. 62 65. Probable Phosphoric Acid Plant 66,68. Six 55' vats 60' storage tanks for building No. 68 67. 69. Group of four cooling towers for building No. 68 70. Building associated with No. 68 71. Unidentified 72-75. Warehouse 76. 77-78. Unidentified 40' gasholder 79. Unidentified 80. Ammonium Sulphate production 81a. Fertilizer drying and storage Western end for fertilizer drying and storage; eastern end for b. 82. Ammonium Sulphate production Fertilizer manufacture and storage Unidentified 84-85. Probable boiler house 86-87. 30' tank 88. 60' base of dismantled gas holder Four 30' water tower tanks with open tops 90,91. Administrative offices and laboratories 92-96. Ammonia convertor building 97a. Compressor building b. 98-100. Unidentified 101-116.16 gasholders each 70' diam. Some of these, most probably some of those adjacent to #120 (a) are for hydrogen storage, and some, most probably some of those adjacent to #98,99,100 are for nitro-Unidentified 49.

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IDENTIFICAT	gen storage. Amongst the group there must be some for oxyger
	storage, the gas coming from the activities of #120(a) and #117-119.
117-119.	Air liquefaction and nitrogen fractionation
120a.	Electrolysis building for hydrogen production
b.	Rotary convertors for obtaining direct current
121-125.	Unidentified
126.	Building under construction
127a.	Probable machine shop
b.	Extension under construction
128-130.	Shops
131-136.	Unidentified
137.	Storage
138-139.	Shops
140.	Storage
141.	Control house for transformer station
142.	Transformers
143.	Building connected with No. 141
144.	Probable carbon electrode casing plant
145.	Possible rolling mill
146.	Unidentified
147.	Factorn two heve originally reported to be carbon electrode
-4	plant. The building has been tripled in size and may now be
	used as a rolling mill.
148.	Probable machine shop
149-151.	Unidentified
152.	Probable machine shop
153-154.	Unidentified, possibly Synthetic Cryolite plant
155-157.	Storage
 158.	55' gasholder probably for water gas
159-161.	85' gasholder probably for water gas
162-165.	Weter gas plant
165.	Building reported to contain "inkler Generators
166-169.	Carbothermic Magnesium Plant
167a.	Rotary kiln
b.	Crushing and briquetting plant
c.	Electric reduction furnace building
d.	Area containing wool-bag filters
169.	Retort building and possibly alloying and casting
170a.	Aluminum pot rooms
b.	Rectifier building
c.	Probable alumina storage
d.	Remelt and alloying
e.	Probable pot room under construction
171.	Possible carbon paste building-east section of building
	under construction
172.	Probable cryolite recovery building
173.	New construction, possibility that foundations may be for
	furnaces
174-180.	Unidentified
181.	Leaching, filtering and clarifiers
182.	Precipitation, and filters, thickeners
183.	Unidentified
184.	Rotary kiln
185a.	Continuation of sintering process
b.	Coolers
186.	Possible boiler house
187.	Gasholder 55' diameter
188.	Probable crushing of the calcium aluminate
189.	Probable rotary kiln for calcining the compound to form
	alumina
190.	Preliminary driers
	_ 3 _

IDENTIFICATION OF FACILITIES:

191-192. Storage Ore crushing and washing and preparation 193. Secondary alumina plant under construction 194-199.

Transformers 200.

Control house for transformer station 201.

6. <u>DISCUSSION</u>:
(a) #165 is #165 is reported to be a Winkler water-gas generator assembly; but no resemblance to known installations can be noted from either aerial or ground photos. Moreover, no coal handling equipment can be seen. The only apparent function for such an installation would be as an intermediate step in the production of hydrogen to supplement that electrolytically produced in case of power shortages.

(b) The reported nitric acid plant can not be identified as no absorption towers nor acid storage tanks can be seen. It is very logical that nitric acid be produced here particularly in view of requirements for it at the associated explosives plant (Target 84.2-2) located 1 mile to the W. The plant may therefore be entirely under cover and its most probable location

is in the general vicinity of buildings #82, 83, 119. No evidence on the aerial photos can be found of the reported coke ovens, blast furnaces, nor electric furnaces.

7. ACTIVITY:

The plant appears very active for the following reasons:

1. Steam issuing from acid manufacturing and glycerine manufacturing plant.

2. Smoke from magnesium, alumina, copper and lead plants
3. Ore piles of alumite and limestone

4. Piles of coal
5. The movement The movement of vehicles on the roads, the RR traffic including around 200 freight cars in and near the plant and four ships around 200 feet along the wharves.

6. The extent of new construction.

ENCL: 750.052

INTERPRETED BY:

MARSHI L BROOKS Lt.(jg)USNR

ARTHUR L. GANUNG Maj., A.C.

APPROVED BY: Walter Harrington

> W/LTER H/RRINGTON Major, Air Corps Chief, Evaluation Pranch Photographic Division

Office of /sst Chief of fir Staff,

Intelligence

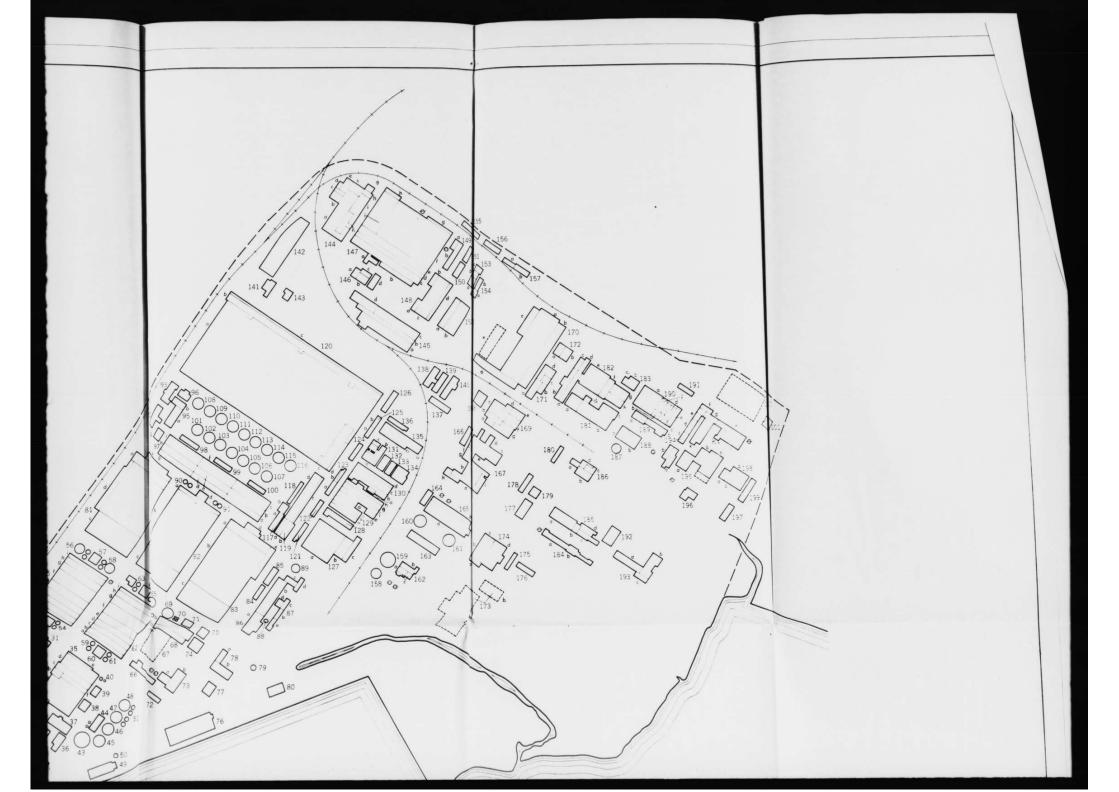
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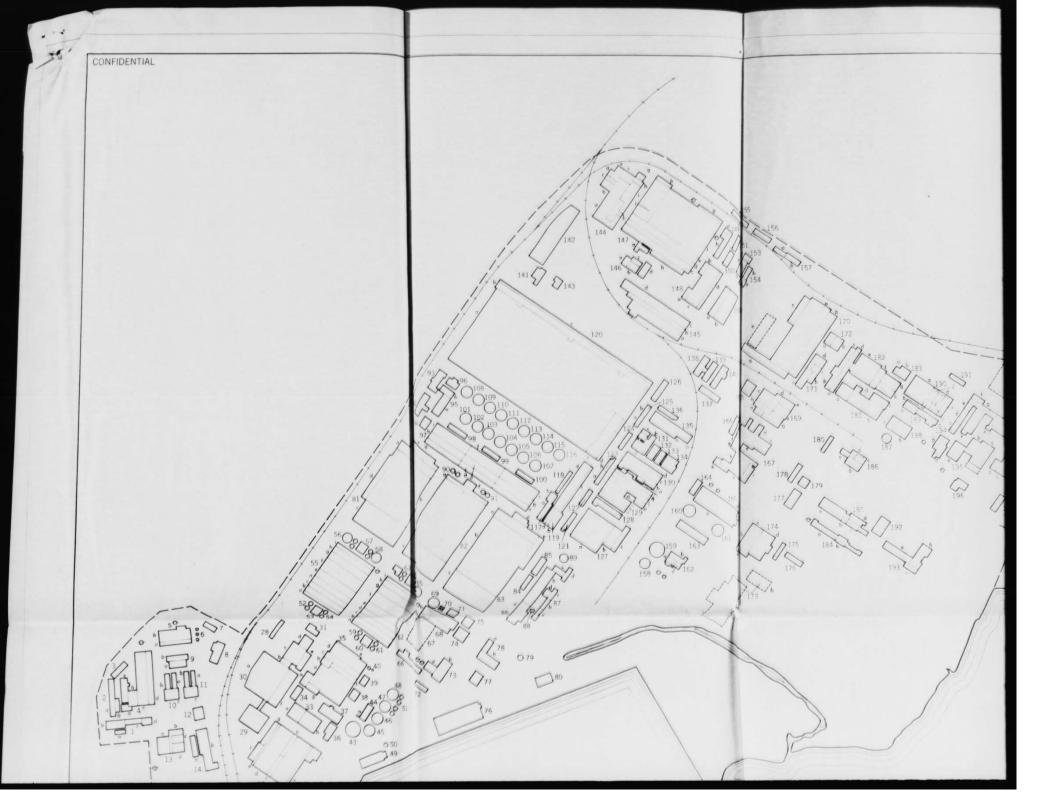
RUSSELL S. TARR Maj., 1.C.

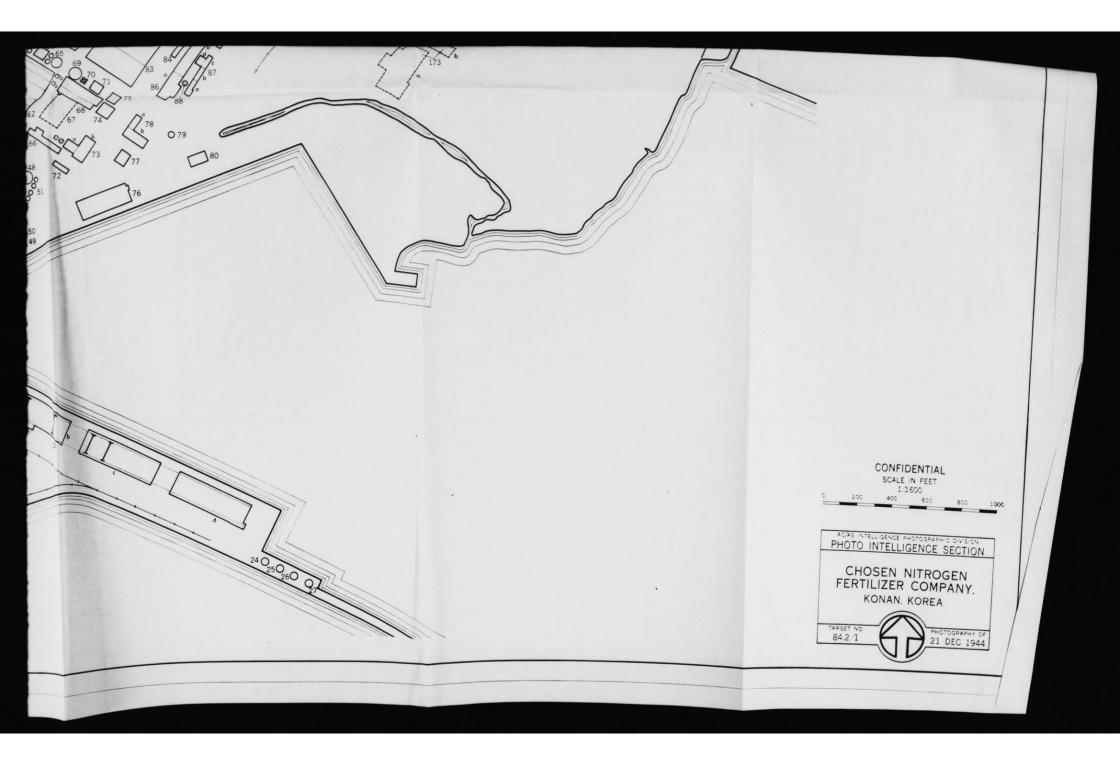
ROBERT C. BEYER Lt.(jg)USNR

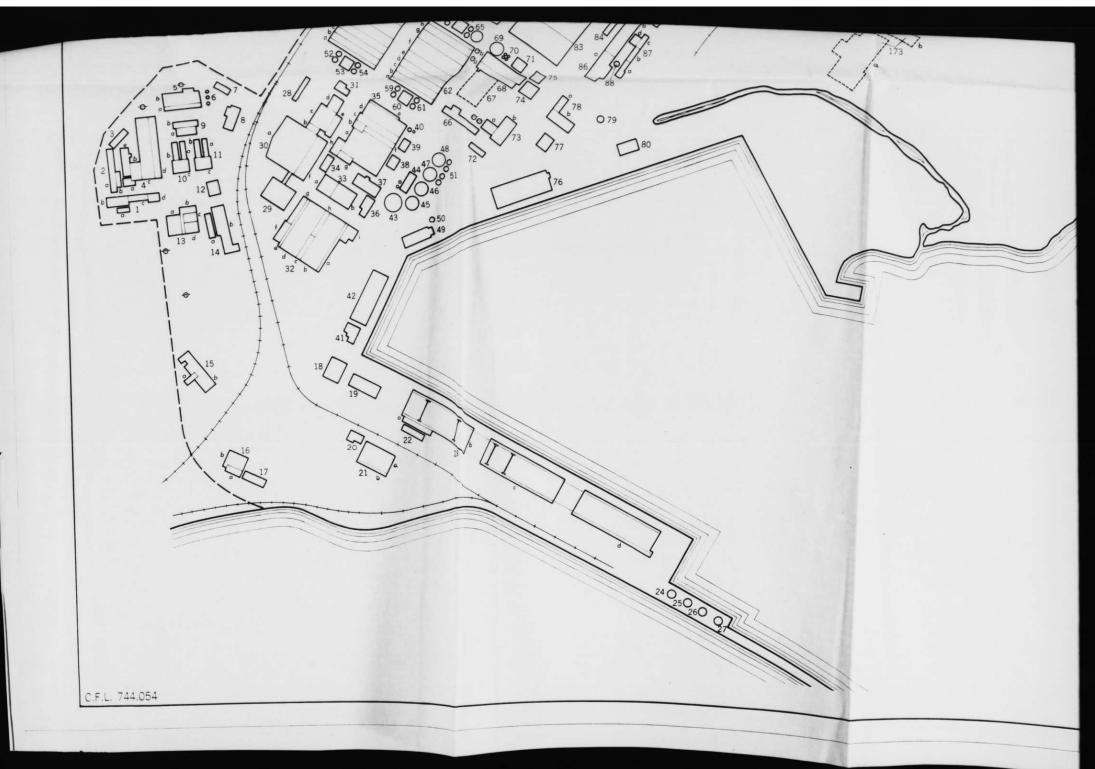
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AC/AS INTELLIGENCE PHOTOGRAPHIC DIVISION S/A-54 PHOTO INTELLIGENCE SECTION

CONFIDENTIAL PAGE 1 OF 19 PAGES DATE: 22 May 1945 REVISED:

BUILDING CONSTRUCTION ANALYSIS

TARGET: CHOSED NITROGEN FERTILIZER CO. LOCATION: KONAN, KOREA. COORDINATES: 39°51'N 127°38'E

AREA & TARGET NO. 84.2-1

	DATE	MISSION	PRINT NOS	PLAN SCALE	SHADOW SCALE	JUALITY
	2 Dec 944			1:12,200		GOOD
PHOTO-	Do	Do	RV 92.94-95			00
GRAPHY	Do	Do	RV 93	1:7.300	1:3,500	Do
	Do	Do	LV 92.95-96			00
	Do	Do	LV 93 € 94	1:7,400	1:3,550	Do

SUMMARY 26.2% BUILT- UP.

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. ∨3	E2	6.3	4.9		11.2	.1	.1		.2
V3A	F2			25.5	25.5			.5	.5
SUB TOTAL	Two STORY	6.3	4.9	25.5	36.7	.1	.1	.5	.7
3 V3	E2	1		5.2	5.2			.1	1.
DUE TOTAL	THREE STORY		4	5.2	5.2			.1	.1
	TOTALS	214.0	3532.4	639.8	46862	4.5	82.0	13.5	100.0
		1						-	
3	V3	V3 E2 OUB TOTAL THREE STORY TOTALS	V3 E2 OUB TOTAL THREE STORY TOTALS 214.0	V3 E2 OUB TOTAL THREE STORY	V3 E2 5.2 OUB TOTAL THREE STORY 5.2 TOTALS 214.0 3832.4 639.8	508 TOTAL TWO STORY 6.3 4.9 25.5 36.7 V3 E2 5.2 5.2 5008 TOTAL THREE STORY 5.2 5.2 TOTALS 214.0 3832.4 639.8 46862	V3 E2 5.2 5.2 UB TOTAL THREE STORY 5.3 4.9 25.5 36.7 .1	508 TOTAL TWO STORY 6.3 4.9 25.5 36.7 .1 .1 V3 E2 5.2 5.2 DUB TOTAL THREE STORY 5.2 5.2 TOTALS 214.0 3832.4 639.8 46862 4.5 82.0	508 TOTAL TWO STORY 6.3 4.9 25.5 36.7 .1 .1 .5 V3 E2 5.2 5.2 5.2 .1 DUB TOTAL THREE STORY 5.2 5.2 .1

EVALUATED GROUND INFORMATION SUPPLIED BY THE JOINT TARGET GROUP

SULTANT M. ATKIN PRETER D ROWELL, LT (19) USHR

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	ALL SAWTOOTH EXCEPT A1.2, A1.3, A1.	.4 A1.1	L	WI	TH HEAVY TRAV CRANE, EAVE HT > 30"	B1	L	1-STORY, < 10.000 SQ FT , ANY CONSTR'N	D
5 5	R C FRAME & ROOF SLAB	A1.2	1-	WI	TH LIGHT TRAV CRANE, EAVE HT < 30'	B2			
SIN	TOP CHORDS EXPOSED	A1.3	18		COLUMNS 1 SIDE,	C1.1		FRAMED, EARTHQUAKE RESISTANT	EI
000	STRESSED SKIN R C	A1.4	8	NES	TRUSSES CONTINUOUS.	C1.2	I S	FRAMED, OTHER	E2
5 5 e	,		12	CRA	SAWTOOTH, TOP CHORDS EXPOSED	C1.3	۱Ĕ		
1=	BEAMS & COLUMNS	A2.1	12	9	DIAMOND MESH ARCH	C1.4	13	WALL-BEARING, EARTHQUAKE RESISTANT	F1
ARE.		A2.2	AR	75'	ARCHES	C2.1	1	WALL-BEARING, OTHER	F2
N N	TRUSSES	A2.3	Ě	A	TRIANGULAR & BOWSTRING TRUSSES	C2.2			
SPA	R C FRAME & ROOF SLAB	A2.4	15	SPAN	(INCL EXP CHORD SAWTOOTH)	C2.3		SPECIAL INDUSTRIAL STRUCTURES	S
-	STRESSED SKIN INCL RC SHELL	A2.5	1-	0,	STRESSED SKIN INCL R C SHELL	C3	L		

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	1	+	37	2	MEG. E STORA	GE.	50 1	5.	, †	163		0	15		I			
	+	+	\vdash	G			5 35				T	T	35 .			-	1	
	+	t	+	- 1	-		75 3		2		3		30		1	_	1	
	+	t	+	+		10	5 35	0 36	8		2	.5	35 .		4-	_	+	_
	1	+	1	0		. 3	50 13	5 5.	2	-	3	30	17		+	+	+	
	1	+	1	1)2	5 4		\neg			30	1/	-	+	+	+	
	1	6		2		4	1017	75 7	.0	-	_	25	35	+	+	+	+	
		T		1			75 1		.6	+-		30	15		+	+	+	
		I		1	. Y		5 6	0	1.9	+-	- 4	10	60		+	+	+	
*	1	1	1	-	-		+	+-	-	+	+	+	+	T ,	1	1		
_	1	1	1	-	-		+	+			+	1						
	1	+	+	-	RESISTANT, N=NON-COMBI		+	43	5.5	435	5.6							

\neg	[CC	BL	JIL	DING RUCTION LYSIS	,		4. Z						PAGE 5 DATE: 2 REVISED	OF 19	NTIA PAGE	L s 45
,	R=REVISED	SESECONORRY	RE		OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES T	TO RIDGE	SIZE OF BAY	ROOF	CONSTRUCTION	COMBUSTI. BILITY*	H E VULNERA. BILITY**
			33		Associated with #35	F	F	20.0	-	20.0				LIGHT	A23	N	V4
	Н	i	2)	a	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	95	-	ť	20.0	40		47 .				
				Ь		_	95		I		15		23 .		-	_	-
	Н			Н		1	L	_	╀		1				<u>_</u>	-	¥4
	Н	Н	34	Н	¥	90	45	4.0	+	4.0	15		45 ·	LIGHT	D	· C	74
	Н	Н	35	Н	DISTILLATION OF		┢		1	81.5	\vdash			LIGHT	B.1	2	V2
			-/-	a	FINA CILLY & GETCERINI	_	140	36.4	1	01.5	30		46 .				
				О		75	35				25		35 ·				
	Ц	4		C		265	_		L		25	_	35 ·				
	-	4		d		260			Н		30	-	30 .				
ł	+	┨	-	4		190	-	3.0	Н		3°	\dashv	15 35 ·	-			
ı	1	†		g		90	45	_	H		30		45 .				
Ì		1		h	٧	90					30		45 ·				
	\Box	1		Ц			35		Ц				7.5				
-	4	4	36	Н	ASSOCIATED WITH # 35	75	35 30	5.7	1	5.7	15	\dashv	35 30	LIGHT	D	C	٧4_
ŀ	+	+	77	Н		10.5	-	- 2	Н		15	-	2=	1	1	-	
ŀ	+	+	37	Н		105	50	5.2	Н	5.2	15	-	25	LICH+	D.	С	V4
ı	7	†	38	1		60	60	3.6	1	3.6	15	1	15	LIGHT	0	C	V4
	1	1															
)[39		Υ	45	60	2.7	1	2.7	15		15	LIGHT	D	C	٧4
+	4	4		Ц	20' STORAGE TANK				Н		-	-			_		0
ŀ	+	+	40	H	20' STORAGE TANK WITH ADJOINING TANK.	Н		0.4	1	0.4	15	+			5	N	SPL
t	+	t	41	E	PROBABLE CUSTOMS	105	45	4.7	2	9.4	22	1	13	MILL CONST.	F2	C	V3A
	1	1		1	or Fice Dorlong.					7.7	~~	1		2. 79.91			
	1	4	42		WAREHOUSE	300	95	28.5	1	28.5	15	1	31	LIGHT	423	C	V4
-	+	+		-	5' FISH OIL STORAGE				Н			1					
-	+	+	43	+	TANK			7.1	1	7.1	35	+			9	n	SPL
+	+	1	14	1	UNIDENTIFIED	110	60	6.6	1	6.6	15	+	60 .	LIGHT	D	c	V4
-	+	T		+		,,,,	55	0.0	1	0.0		T		2.0.1			
	1	2	-j-	1	TORAGE TANKS.			15.4	ı	15.4	35				5	N	SPL.
L	1	1		1								1				_	_
1	+	1	-	+			-	155	1	10	-	+			-	-	-
-	Ļ	R=	FIRE-F	RESI	STANT, N=NON-COMBUSTIBLE, C= VULNERABLE TO HE ATTACK, V2	COME	BUST	185.4	(MII	190.1	BLD	GS C	NLY) -"C	" ROOF REN	AINDE	9 "P"	\dashv

	_	20	NS AN	TR	DING UCTION YSIS CONTINUED			4. 2						CONF PAGE 6 DATE: 27 REVISED:	OF 19	PAGES	L 15
	R=REVISED	SECONDARY	NUMBER 33	SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES T	GE	SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION	COMBUSTI- BILITY*	H E VULNERA. BILITY**
			49		UNIDENTIFIED	185	50	9.2	1	9.2	15	1	50	LIGHT	D	С	٧4
			50		PROBABLE WATER		30 ²	0.7	1	0:7	-35	1			5	С	SPL
			51		FOUR 35' FISH OIL			3.9	1	3.9	30	1			5	N	SPL.
	-		52		TWO 30' STORAGE			1.4	1	1,4	15	1			5	N	SPL
)			53		Associated with \$5	60	60	3.6	-	3.6	15	1	60 .	LIGHT	D	C	V4
	F		54		TWO 30' STORAGE	+		1,4	1	1,4	15	1			5	N	SPL
	F		55		MANUFACTURE.	1			-	114.0	0.5	1		LIGHT	A23	N	٧4
	H	\vdash	\vdash	a		300	-	9.0	Н		25		30		-		
	H	H	-	C		+	35 35	10.5			30		35		<u> </u>	-	-
	\vdash	1	-	d			35				35 35		35 ·		t —		
	r	T		e	•	300					35		45	·			
	Γ			4	*	300	90				30		45				
				00		300	45	13.5			40		45				
				h			35						35			_	
)	-	+	-	i	.	300	30	9.0	-		25		30		-	-	-
)	F	-	56		STORAGE TANKS	+		111.2	1	11.2	25				9	N	SPL
	F	-	57	-	ASSOCIATED WITH	5 60	60	3.6	1	3.6	15		60 .	LIGHT	D	С	٧4
	F	F	58	+	STORAGE TANKS	Ŧ		4,2	1	4.2	25				5	N	SPL
	-	1	59	1	TWO 30' STORAGE	-	-	14	1	1.4	15				5	N	SPL
	F	+	60	-	ASSOCIATED WITH #6	2 60	60	3.6	1	3.6	15		60.	LIGHT	D.	C	V4
	-	+	61	+	TWO 30' STORAGE	-		1.4	1	1.4	25				5	N	SPI
	-	+	F	+	·	-											
)	-	t		T	SISTANT, N=NON-COMBUSTIBLE,	I		159.6		159.6							

ç	co	NS AN	ILI TR AL	DING UCTION YSIS			4. 2						CONF PAGE 7 G DATE: 22 REVISED:	DEN F 19	PAGES	5
	П	NUMBER	_	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES	TO RIDGE T	SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION	COMBUSTI- BILITY*	H E VULNERA. BILITY**
H	H	10		MANUFACTURE	+			H	114.0				LIGHT	A2.3	2	V4
Н	H	62	a	MANUFACTURE	300	20	9.0	Н	114.0	25		30	Light	2-7		
Г	Ħ		b			35	10.5			30		35				
	Ħ		C	Marin december		35		П		35		35				
	Ħ		0		300		10.5			35		35				
	П		e		_	45	13.5	П		35		45				
Г	П		t			90				30		45				_
	П		8		300	45	13.5			40		45				_
	П		h		300	35	105			-		35				<u> </u>
			j	·	300	30	9.0			25		30		_	_	_
								L		1	-	-	-	_	-	_
L	L	63		TANKS	-		1.4	1	1.4	25	-	-	-	.5	N	SPL
L	1	_			_	·		╀		\vdash	+	-		-	c	V
L	1	64	1	ASSOCIATED WITH	2 60	60	3.6	1	3.6	15	-	160.	LIGHT	D	-	142
L	1	_	+	Chie 60' & Two 30	+	-		+		+	+	-		5	2	SPL
L	1	65	+	STORAGE TANKS	+	\vdash	4.2	1	4.2	25	-		-	-	100	PPL
H	╀	\vdash	+	PROPABLE PHOSPHORIC	105	17		+		+	+	1	LIGHT	A 2 2	2	V4
1	╀	66	4	ACID PLANT	270	45	11.2	+	11.2	30	-	45 .	LIGHT	A 4.7	1.0	1
1	╀	-	+	S EEL VATE	+	\vdash		+	14.	1.0	+	+-		5	N	SPI
1	+	67	+	51x 55' VATS	+	\vdash	14.3	+	14,3	10	+	 	1	1	1	1
1	+	68	+	PROBABLE PHOSPHORI	-	\vdash	-	+	23.0	+	+-	-	LIGHT	1 122	10	100
1	+	60		ACID PLANT.		35	0.5	ť	27.0		+	35 .	LIGHT	1	1	1
-	1	-	a.			50				4		50 .	1	1		+
1	+	\vdash	b	Υ	1/2	100	1	+	1	+	+	1				
H	$^{+}$	69		GO STORAGE	+	\vdash	2.8	1	2.8	1	T			9	N	SP
H	†	-					1	1		T						
	t	70		GROUP OF FOUR	. 45	45	2.0	1	2.0	4	0			5	N	SPI
T	1							T								1
	T	71	T	ASSOCIATED WITH #G	8 60	60	3.4	6 1	3.0	6 19	5	60 .	LIGHT	D	C	144
é	T							1		L				-		1
Γ	Γ	72		UNIDENTIFIED	95	35	3.3	1	3.3	3 17	2	35 .	LIGHT	D	C	1
						1		1		1	-	-	1	+	+	+
		73						1		1	-	-		-	-	+
			a		1	1		+	-	+	+	-	-	-	+	+
			Ь		144	45	6.7	1	6.3	2	0	45	LIGHT	D	10	V
1.					1	-	ļ	1	-	1	+-	-	-	-	-	+
L	L			SISTANT, N=NON-COMBUSTIBLE, ST VULNERABLE TO HE ATTACK		L	189.7	L	189.7	1			"C" POOF P	EMAIN	DER "	R"

	[.	00)NS	TR	DING RUCTION YSIS CONTINUED	,		4. 2						CONF PAGE 8 DATE: 21 REVISED:		PAGE	L s 45	
		П	REI		CONTINUED	T.		E	RS	4 E	HEI	GHT			NO		¥.	1
	R=REVISED	S-SECONOXRY	NUMBER	SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ	NO OF FLOOR	FLOOR AREA 1000'S OF SQ FT	TO EAVES	TO RIDGE	SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION	COMBUSTI BILITY*	H E VULNERA	
						1												1
	Н	Н	74	Н	UNIDENTIFIED	පිං	80	64	1	6.4	15		40 .	LIGHT	D	c	V4	1
	Н	Н	75	Н	-	65	60	3.9	1	3.9	15		60.	LIGHT	D	С	V4	
	П	Н				1												
			76		WAREHOUSE	300	135	40.5	1	40.5	15		33 .	LIGHT	A23	c	V4	1
	Ц	Ц			UNIDENTIFIED	-		4.0	-	4.0	15	-	60 .	LIGHT	0	c	v4	L
	Н	Н	77	Н	DNIDENTIFIED	100	60	4.8	-	4.8	17	-	60 .	LIGHT			1	1
	Н	Н	78	Н		T			1	5.7				LIGHT	D	С	V4	1
\vee	П	Н		a		60	25	1.5			40		25 ·					1
	П	Н		ь			30	4.2			18		30 .					1
		П		Ī		T												1
			79		40' GASOMETER			1.3	1	1.3	30				5	2	5PL	
	Ц	Ц		Н	11	1			H	4.7		-	22	LIGHT	D	c	V4	1
	-	Н	80	Н	UNIDENTIFIED	105	45	4.7	1	4.7	15		22	LIGHT			144	1
	H	Н	81	Н	/	+	\vdash		1	223.1				LIGHT	A23	2	V4	
	Г	Н		a	AMMONIUM SULPHATE	350	60	21.0			45		30×15					1
- : -	H	H		6	FERTILIZER DEVING	410	325				40		36×12					1
	H	T		Ç			325				40		36 × 12					1
	r	t		9			30	7.8			20		30 .					1
$\overline{}$		İ		e	•	230	60	13.8			25		30					1
\bigcirc	L	1	00	-	•	+	\vdash		-	244.8				LIGHT	A23	2	¥4	1
	H	╀	82		AMMONIUM SULPHATE	725	_	4.9	+	244.8	i o		15	LIGHT		,,,	1.4	1
	H	╀	\vdash	a	PRODUCTION FERTILIZER DRYING		325		H		40		36×12					\-
	H	╀	\vdash	c	STORAGE.		325				40		36×12					1
	H	t	\vdash	9	•	75		47.2 2.6			15		35 .					1
		I				\perp			L									
	L	1	83	-	FERTILIZER MFG.	+	-		1	220.2				LIGHT	A23	2	Y4	1
		1	_	a			60		-	-	45	-	30×15					L
	L	1	_	Ь			325		-		40		36 xx2			-		1
	L	L	_	C			325		-	-	40		36×12		-	-		1
	L	L	_	9		110	1	4.9	-		25		45.					
	-	+		e	. 4	245	35	8.6	-	-	25		35 ·					7
0	1	+	_	+				7.										
	H	T		T			1	755.4		755.4								
	H	*F	- FIRE	RE	SISTANT, N=NON-COMBUSTIBLE, OST VULNERABLE TO HE ATTACK,	C=CON	BUST	IBLE; C/R	(M	ULTI-STOR E AND SO	ON.	SEE .	ONLY) ="	C" ROOF, RF	MAIND VI, REV	ISED.		

C		CC	BU NS AN	ILI TR AL	DING PUCTION YSIS CONTINUED			4.2						CONF	OF 19	PAGE:	L s 5	
	R=REVISED	SECONDARY	NUMBER	SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES	TO RIDGE H	SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION	COMBUSTI. BILITY*	HE VULNERA.	
			84	H	UNIDENTIFIED	120	30	3.6	1	3.6	15		30.	LIGHT	D	С	V4	
			85		•	135	35	4.7	1	4.7	2.5		35 ·	LIGHT	D	С	V4	
			86		PROBABLE BOILER			-	1	38.0				LIGHT	A23	2	V4	
	H	+	-	a.P			65	11.4			35	-	65					
	H	\dagger		c		60	65 45	21.1	Н		30		65 45					
\bigcirc		1		d		95		2.8			15		30					,
			87						1	11.5				LIGHT	A2.3	2.	V4	
	L	L		a		95	30	2.8			15		30					ŀ
	L	\perp	_	Ь	•	80		3.6			20		45			•		1
	H	╀	-	d		50	45 30	3.6	Н		20	_	45	-		_		1
	H	t	-	a	•	,,,	20	1.5	Н		20		30 .	,				1
		F	88	H	30' TANK.			0.7	ı	0.7	20				5	2	SPL	1
		t	89		GO' BASE OF DIS-													
	-	+	90		TWO 30' WATER OWER TANKS WITH OPEN TOPS.			1,4	1	1.4	35				5	N	SPL	
0		1	91		•			1.4	1	1.4	35				9	N	SPI	
	-	+	92		ADMINISTRATIVE	160	45	7.2	2	14.4	28		18 ×12	MILL CONST	F2	С	V3A	1
	F	+	93			140	45	6.3	2	12.6	28		18×12	4" TO 6"	E2	R	V3	
	F	+	94	-		75	60	4.5	١	4.5	18		15	LIGHT	D	С	V4	1
		1	95										'	MILL CONST				1
	L	1	1_	a		140		. 9.1		18.2			22		F2	С	V3A	-
	-	+	1	Ь		75	30	2.2	1	2.2	20		15		D	c	V4	1
	F	F	96	-	¥	80	45	3.6	1	3.6	18		22	LIGHT	D	c	V4	1
\bigcirc		F						94.2		116.8			-					-
	r	•	R - FIRI	RE	SISTANT, N=NON-COMBUSTIBLE, C= ST VULNERABLE TO HE ATTACK, V	СОМ	BUST		(MI		Y BLC	ogs	ONLY) ="	C" ROOF, RF	MAIND	ER "R"	•	1

)	,	cc	ONS	TF	DING RUCTION LYSIS CONTINUED			4. 2						CONF PAGE 10 DATE: 22 REVISED	MA	PAGE:	L s 45
	R=REVISED	SECONGARY	NUMBER 33	SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES T	TO RIDGE H	SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION	COMBUSTI- BILITY*	H E VULNERA.
			97	+		+			-	125.4				LIGHT	ВІ	N	V2
			1	a	AMMONIA CONVERTER	270	37	9.4	Ť	167.4	90		35×15				
		Ī		Ь	COMPRESSOR BLOG			16.2			35		60×15				
				C			60	16.2			35		60×1				
				a	AMMONIA CONVERTER	2/0		9.4			90		35 x 15		-		
				6	COMPRESSOR BLOG	0.11		16.2	H		35		60 x 15		-	-	
				7	AMMONIA CONVERTER	2%	-	16.2	\vdash		35		60× 15		-	-	
1		Н	-	- 00	COMPRESSOR BLOG	270	35 60	9.4	\vdash		90 35		35x 15		-		
기	Н		_	h	COMPRESSOR DEDG	-	60	16.2			35		60×15				
1				•		1	00	10,2			-		002.4				
			98		UNIDENTIFIED	140	30	· 4.2	1	4.2	15		30	LIGHT	0	C	¥4
			99			140	30	4.2	1	42	15		30.	LIGHT	0	С	٧4
			100		v	140	30	4.2	1	4.2	15		30 .	LIGHT	D	С	V4
			01-		TG 70' GASOMETERS FO HYDROGED & NITROGEN	P.		61.6	1	61.6	45				5	2	SPL
-			117	-	POSSIBLE AIR	+	Н		-	7.7		-		LIGHT	D	c	V4
		Ī		a			35	4.5	1		25		35 .				
				Ь		65		3.2	1		25		50 .		-	-	
			118			160	30	4.8	1	4.8	15		30.	LIGHT	D	c	V4
			119						ı	42.6				LIGHT	A23	c	V4
				a			45	5.6					45 × 12		-		-
				D	(UNDER CONST)		45	5.6			-		45×12		-	-	-
		Н		0		350		5.2			-		75		-	-	-
1	-	Н		a	¥	350	75	26.2	H		-		17				
			120	+	(a)	1			1	750.3				LIGHT	A 2.3	2	V4
				2	FOR HYDROGEN MEG	1210	560	677.6		15-15	25		27× N5				
				Ь	ROTARY CONVERTERS		45	54.5			40		45 x 15				
				c	· · · · · · · · · · · · · · · · · · ·	1210	15	18.2			18		15 × 15		_		_
				d	PART OF SUBDIVISION		25				40		27× 5		-	-	
				e	<u> </u>	320	55	loct o	-	10-7	40		27× N		-	-	-
1			FIRE	.PF	SISTANT, N=NON-COMBUSTIBLE, C ST VULNERABLE TO HE ATTACK,	- COM	BUST	1005,0	(M)	ULTI-STOR	Y BL	DGS	ONLY) -	C" ROOF, RE	MAIND	ER "R	

121 UNIDENTIFIED 150 30 45 1 4.5 15 30 LIGHT D C V4 122 123 20 30 3.6 3.				BUINS	IL[OII	NG CTION SIS						TARC							CONFI GE 11 o ATE: 22 EVISED:	DEN F 19 MA	PAGES	5	
121 UNIDENTICIED. 150 30 4.5 1 4.5 15 30 Light D C V4 122	121 UNIDENTIFIED. 150 30 45 1 45 15 30 LIGHT D C V4 122 20 30 3.6 1 3.6 30 30 30 D C V4 123 0	力	Т	REF		· c	ONTINUED		icy			DI AN AREA	1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	\vdash	RIDGE			OOF TERIAL	CONSTRUCTION	COMBUSTI- BILITY*	H E VULNERA- BILITY**	
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123	123	F		122	2	F				120	30	-	3.6	,	3.	6 30	,	30 .	F		0	c	V4	
124	124	F	F	12	3	F	,			\pm	1	1	_	1	5.		1		-		D	C	V4	
124	124	F	+		0	+					-	_	-			-		1	+			-	-	
125	125	7	+	12	4	1				12	0 3	0	3.	61	3.	6 18	3	30 .	+		0	C	¥4	-
126 (UNDER V CONST.) 160 45 7.2 1 7.2 - 45 . D' C' V4 127 PROBABLE MACHINE SHOP 1 59.9 LIGHT B2 N V2 12 12 12 12 12 12 12	126 (UNDER V CONST.) 160 45 7.2 1 7.2 - 45 . D' C' V4 127 PROBABLE MACHINE SHOP 1 59.9 LIGHT B2 N V2 12 12 12 12 12 12 12	1	+	12	5	I		_		1	+	+	_	1	4		8	30	+		D	C	V4	-
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127 PROBABLE MACHINE SHOP 1 59.9 25 25 30 x \text{NZ} 20 225 47.2 25 30 x \text{NZ} 20 x \text{NZ}	127 PROBABLE MACHINE SHOP 1 59.9 25 25 30 x \text{NZ} 20 225 47.2 25 30 x \text{NZ} 20 x \text{NZ}		1	12	.6	1	(UNDER	2 4	Const) 16	504	45	7	2.2	-	7.2	_	45 .	1		1	1	1	
			1	17	27		PROBAR	SLE !	MACHINE S	HOP	10	225	4	7.2	1 59		25	25 .	-	LIGHT	В	2 N) \	2
128 SHOPS 210 40 8.4 1 8.4 20 40 LIGHT D C V4 129	128 SHOPS 210 40 8.4 1 8.4 20 40 LIGHT D C V4 129			+		o.	(UNDE	.R	CONST	.) 1	50	60					18				+	+	+	
1 53.6 LIGHT B1 N V 129 · 210 25 52 25 25 15 a 210 40 8.4 37 40×15 c 210 25 52 25 25×15 c 150 35 52 25 35×15 e 75 35 26 35 35×15 f 300 25 75 25 25×15 g 300 40 12.0 35 40×15 g 37 40×15	1 53.6 LIGHT B1 N V 129 · 210 25 52 25 25 15 a 210 40 8.4 37 40×15 c 210 25 52 25 25×15 c 150 35 52 25 35×15 e 75 35 26 35 35×15 f 300 25 75 25 25×15 g 300 40 12.0 35 40×15 g 37 40×15			+	7.8		5	110	P5		210	40		8.4	1	3.4	20	40 .	1	LIGHT	1		- v	
210 25 5.2 25 27×15 b 210 40 8.4 37 40×15 c 210 25 5.2 25 25×15 d 150 35 5.2 25 35×15 e 75 35 26 35 35×15 f 300 25 7.5 25 25×15 g 300 40 12.0 35 40×15	210 25 5.2 25 27×15 b 210 40 8.4 37 40×15 c 210 25 5.2 25 25×15 d 150 35 5.2 25 35×15 e 75 35 26 35 35×15 f 300 25 7.5 25 25×15 g 300 40 12.0 35 40×15	\bigcirc				-									1 5	3.6	0.5	25.	- 1	LIGHT	P	1	N	1
C 20 27 3.2 25 35 × 15	C 20 27 3.2 25 35 × 15		-	H	_	+					210	40		8.4	+		35	40×	15		1			
\$\\ \frac{1}{5} \\ \f	\$\\ \frac{1}{5} \\ \f		E		_	+	1				150	35	_	5.2			25	35×	15			+	+	_
7- 25 25 25 25×15	7- 25 25 25 25×15		F			4	7				300	25	-	7.5	1				- 200		1	1	1	_
			-	\parallel	_				v			1.		7.5			25	25	× 15		1	1		
**R = FIRE-RESISTANT, N = NON-COMBUSTIBLE, C = COMBUSTIBLE; C/R (MULTI-STORY BLDGS ONLY) = "C" ROOF, REMAINDER "R" **PT IS LEAST VULNERABLE TO HE ATTACK, V2 IS MORE VULNERABLE AND SO ON. SEE JTG MEMO NO JTG/M/3/1. REVISED. 5 -8440	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	-	1	R = F	RE-	RESISTANT,	N-NO	N-COMBUST	BLE, C	- CO	MBU MO	STIBL RE VU	E; C/	R (MULT	I-STO	RY B	DGS ONL	Y) =	"C" ROO	F. RFN G/M/3	AAINDE	VISED.	-

col	BUILD NSTRI ANAL	DING UCTI YSIS	ON						2-				14		P/ D	CONFI AGE 12 0 ATE: 22 EVISED:	P 19	PAGE V 19	45 45		
R = REVISED S-SECONORRY	NUMBER 33	CONT		UPANCY	`	LENGTH, FT	WIDTH, FT	PLAN AREA	1000'S OF SQ FT	FLOOR AREA	1000'S OF SQ F1	TO EAVES T	GE	SIZE OF BAY		ROOF ATERIAL	CONSTRUCTION	COMBUSTI	H E VULNERA.	BILITY	
\blacksquare	130		SH	OPS		+		_	1		27.7				1	IGHT.	B2	N	V	2	
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	Ь					28	5 25		7.1	1		25		25 x 1			-	+	+	-	
	c						5 40	-	11.4	\vdash		35	-	25×1			+	+	+	1	
	d			4		28	5 25	+	7.1	+		25	-	2711	7		1	+	1		
H	121	111	UDF	NTIF	IED	+	+	+	1	+	15.7				L	LIGHT	AZ	3 0	- \	14	•
+	131	-	-			90	50		4.5	I		25		50	+		1	+	+	-	,
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						+	+	+	-	+		2 2	-	50	. †	LIGHT	1	5	c	V 4.	1
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H	134	+				1	95 9	0	9.5	1	- 8	3.5	5	45	-	LIGHT	+	D	С	V4	
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1	137	7	STO	RAGE			155	35	5	4 1		5.4	18	3	5	LIGH	Т	0	C	V4	
	11						-			1		-	05	1	· ·	LIGH	-	D	c	V	4
	138	3	540	PS			150	45	6	7 1	-	6.1	25	1		F. C.					
	11	1	-				150	45	-	7/1		6.7	25	4	5 .	LIGH	ŧτ	0	c	V	4
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+	111	+	STO	RAG	E		125	45		5.61		56	18	4	5	Liqu	нт	D	C	V	4
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	+	-			COMBUST TO HE AT		1	T	159	2.1		59.	1				05.5		NDER	B	_

		0	BU NS AN	ILI TR	DING PUCTION LYSIS CONTINUED				4. 2				*		CONF PAGE 13 DATE: 2 REVISED:	OF 19 2 Ma	PAGES	45
	R=REVISED	S.S.COMBANY	NUMBER	SUBDIVISION	OCCUPA	NCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES T	TO RIDGE T	SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION	COMBUSTI-	H E VULNERA. BILITY**
	Н	Н	144		PROBABLE CA	ARBON				1	72.0				LIGHT	A2.3	2	V4
		П		a			Soc	90	27.0	Ц		25		30 .				
				b			50	75	3.7	Ц		25		25 .				
				C			75	18	1.3	Ц		35		18		-		
		Ц		0			45	25	1.1	Ц		25		25.		-		
	L	Ц		ϵ				50	4.7	Ц		25		25 .		-		
	L	Ц		1			65		5.8	Н		35		30 .		-		
	L	Ц		8			50		2.2	Н		30		45 .				
_	L	Н		h			75		2.2	Н		30		30 ·				-
)	L	Н	_	1	(PART OF 5		320	75	24 0	Н		25		35 .		-	-	-
	L	Н		k	(PART OF 12) BEIVISION	90	35		Н		30	-	35		-	-	
	-	\vdash	145	+	POSSIBLE MILL	ROLLING	-			H	68.4	\vdash			LIGHT	B2	N	¥2
	H	Н	145		MILL			60	24.0	H	80.4	25		30 .	Lidii.	1		
	H	╀	-	a			450		13.5			25		30				
	H	H	\vdash	C			335	60	20	H		25		30				
	H	H	\vdash				80	60	10.8	T		25		30				
	H	╁	\vdash	a	Y_					H		-				1		
	H	t	140	+	UNIDERTIF	TEU				1	12.1				LIGHT	A23	N	V4
	H	t	146	a			75	45	3:4	1		20		45 .				
	H	t	-	t			75	50	3.7			2.0		50 .				
	H	†	-	C			75	30	27			20		30 .				
	t	t		1	Y		95		2.8	-		15		30 .				
7	H	t	1															
J	1	1	147	7	POSS BUE	ROLLING				1	219.8				LIGHT	B1	2	Y 2
	T	T		0			25	30	3.7			20		30 .		_	_	_
	Γ	T		ŀ.			250	25	6.3			15		25 .			_	
		T		0			525	50	26.2	L		20		50 .		_		-
		T		C			525	30	15.7	1		20		30 .		-	_	-
		T		6			525	50	26.2	1		20		50	-	-	-	
				4			410	260		+		20	-	43	-	-	-	-
	L	1	L	8	3		200	15	3.0	+		15	+	15	-	-	-	-
	1	1					115	20	23	1		25	1	20	-	-	-	
	L	1	_	j	ΥΥ		115	260	29.9	+	-	30		43 .	-	-	-	-
	L	1		1			_			+		1	-	-	-	-	-	-
	L	1	_	1			-	-		+	-	+	-	-		-	-	-
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	1	1	-	1			-	-	7767	+	7707		-		1	-	-	-
and the same of	L	L		1	ESISTANT, N=NON-CO			10:15	3723	B	372.3	RY P	DOS	ONLY	"C" ROOF R	FMAIN	DER "R	

1	.0	0	BU NS AN	ILI TR AL	DING UCTION YSIS CONTINUED				4. 2						CONF PAGE 14 DATE: 22 REVISED:	OF 19	PAGE V 194	L s + 5
1	R=REVISED	S-SECHIBIRY	NUMBER	SUBDIVISION		UPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES	TO RIDGE	SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI- BILJTY*	H E VULNERA. BILITY**
					PROBABL	E MACHINE					707				LIGHT	B2	2	v2
	Н	Н	148	\blacksquare	- 5	HOP	රිං	15	`	1	32.7	15		15	Light		10	-
	Н	Н	_	2			80		2.4			15		15				
	Н	Н	_	b			275		24.8	ī		25		45 .				
	Н	Н	_	d			275		5.5	ĺ		20		20				
	Н	Н	_	a		<u> </u>	217	20		ī								
	H	Н	149	H	UNIDEN	TIFIED				١	7.9				LIGHT	۵	c	Y4
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1	H	Н	_	b			200		6.0	Ī		15		30.				
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			152	2	PROBA	HOP		Ц		1	26.0				LIGHT	BS	N	V2
				a	*	1	200	50	10.0			18		25				ļ.,
		L		Ь		*	200	8 0	16.0			18		40.	· -	-		-
	L	L		1		December	L	Н				L						-
	L	L	15	3	SYNTHETI	CRYOLITE PLT	-	Н		1	8.1	_			LIGHT	D	C	V4
	L	L	L	a		-	55		2.7	Н		25		50.		-	-	-
	L	L	_	Ь		-	55	45	2,5	H	_	30	-	45 .		-	-	-
_	L	L	_	C		-	65	45	29	-		50		45 .			-	-
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	H	╀	\vdash	b		*	70	27	7.1			12	-	27				
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	H	t	150	-			130	30	3.9	1	3.9	10		30	LIGHT	D	c	·V4
	H	t	1	+														
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	-	1	1	a			85	30	2.5			10		30	-			
	H	+		Ь		¥	_	35	3.5			10		35				
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R=REVISED	_	NUMBER	SUBDIVISION 4		OC	CUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA	1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES	TO RIDGE	SIZE OF BAY		ROOF	CONSTRUCTION	COMBUSTI	H E VULNERA.	BILITY
+	1	58		ž	SE WAT	LDER PROBABLY	1		-	2.4	1	2.4	45			t		5	n	51	1
H	1	59		e	5' GASHO	OLDER PROBABI	.*	\vdash	+	5.7	1	5.	1 75			+		9	N	7 50	PL
H	ľ	37	-	1	FOR W	ATER GAS.	T	t	土	2.1						I			L	-	4
H	I	60	1	Į			+	1	+	5.7	1	5.	7 75	-	-	╀		5	N	2	PL
H	ł	161	+	t		,	\pm	t	1	5.	71	5.	7 75			1		5	1) 5	PL.
\I	1		1	1	11/4755	GAS PLANT	\mp	Ŧ	+		-	8.	-	+	-	+	IGHT	10	+	3 V	14
廾	+	162	+	1	VVATER	C GAS I LADI	6	5 3	5	2.3	3	0.	3	5	35 •	+			I	1	
H			+	ь			10		_	4.	-		11	-	40 .	+	<u>'</u>	+	+	+	\dashv
П			1	С			3	0	30	2.1	2	-	17	2	30	+		+	+	+	\dashv
Н		16	5	-			2	35 3	50	11.	71	11.	74	0	50 .	1	IGHT	Δ2	3	N	/4
							+	+	+		+	-	+	+	7	+	W000/C	, [+	ch	V4
Н	_	16	4	_			- 11	0	30	3.	31	3	31	-	30'	+	Wood		1		
Н	_	16	.5		BLD RE	PORTED TO CON	TAIN RS	1	1		1	34	.1			1	LIGHT	A	2.3	n	V4
				a				25		24	\neg	-	_	50	75	\neg		+	+	-	-
	L	1		b	-		- 3	25	30	9.	7	+-	- 1	.5	30	1		+	+	1	
-	1	16	6	-	CARBOT	PLANT.	SION	25	35	4	4	4	1.4	0	35	1	W000/	6	D	C	٧4
	1			-			-		-		+	1 6	3.4	+	+	-	Liant	FA	23	N	V4
-	ł	1	67	0	ROTA	RY KILD		245	35	8	3.6			30	35×	18		1			
-	t	\dagger	_	+	CRUS	HING & BRIQUET		135	90	12	1.5	_	_	20	30			+	-		-
	1	1		1		TRIC REDUCT					3.7	+-	\dashv	30	45	15		+	-		
-	4	1	_	+	CARROT	L-BAG FILTE	RS.	75	20		3. 4 3.3	+	-	25		××		1			
-	+	+		-	f	PLANT		80	-		4.0			25		×N					
	+	+	-	-+	g			-	30	-	7.5			25	30			1		-	_
-		H			h			50	45	_	2.2	1		30	45		-	-	-		\vdash
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			16	8		•		90	80	-	7.2	1	7.2	15	86	٠ .	Ligh	17	D	c	٧,
								+	+												F
\smile [П				, N=NON-COMBUSTIN	RIF C	-00	MRUS	15	2.1	R (MULT	52,	RY BI	DGS ON	LY) -	"C" ROO	F, RF	MAINI	DER "F	3"

C	Į.	00	BU NS AN	TR AL	DING RUCTION LYSIS CONTINUED	,		4. 2						CONF PAGE 16 DATE: 2 REVISED	OF 19 2 M	PAGE NY 19	L s 45
	R=REVISED	SSECOMBANY	NUMBER	SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES T	TO RIDGE TH	SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION	COMBUSTI. BILITY*	H E VULNERA.
	-	Н	169	Н	RETORT BLOG& POSSIBLE ALLOYING & CASTING	+	╀			79.4	-					-	_
	Г	П	,	a	ALLOYING & CASTING	_	60	2,1	-	37.4	25	-	60 .	LIGHT	A23	D	V4
				Ь		_	35		H		40		35×12				
				c		90		8.1			25		45 .	,			\vdash
				d		llo		4.9			25	-	45 .			2	
•		Ц		e		90	50				30		50 .				
	Ц	Ц		f		90	65	5.8			30	7	65.				
1		Ц		g	•	120	65	7.8			25		65 .				
	Н	Ц		Ц		1											
	H	Н	170	Н		1			1	123.2				LIGHT	B2	2	V2
	Н	Н			ALUMINUM POT ROOMS	17/	150		Ц		30		25 .		_		
	Н	Н		Ь	PROBABLE ALUMINA STORAGE	7''	60		Н		30		20 .				
	Н	Н		9			45	9.0	Н		25	-	22 •			_	_
	Н	Н		9	PROBABLE POT ROOM (EXCAVATIONS ONLY)	350	35	12.2	Н		25	40	17 '			_	_
	Н	Н		-	(EXCAVATIONS ONLY)	دراه	65	_	Н		\vdash					_	-
	Н	Н	171	Н	POSSIBLE CARBON PASTE BUILDING.	+	\vdash		H	1/ 0						_	-
	ī			a	PASTE DOILDING.	135	45	. 6.1	ť	16.8	25		45 •	LIGHT	A23	C	V4
				Ь		65		2.3	Н		30		35 .				
				c		50		2.2	П		25		45 .		-	-	-
				d	(UNDER CONSTRUCTION	-	_	5.2	ī		25		65				
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		Ц	172		PROBABLE CRYOLITE RECOVERY BUILDING				1	9.4				LIGHT	D	C	¥4
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		Ц	_	Ь		90	60	54			20		30 .				
	_	+		Н	POSSIBLE FURNACES	-	Н		Ц								
	-	+	173		(EXCAVATIONS ONLY)	+											
		+		b			170		\mathbb{H}								
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		+	174	H	UNIDENTIFIED	+	\vdash		H	71.4		-			-		
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	L	**	VI IS	LEA	SISTANT, N=NON-COMBUSTIBLE, C ST VULNERABLE TO H E ATTACK, 1	COM	BUST	IBLE; C/R	(ML	AND SO	Y BLE	OGS	ONLY) -"	C" ROOF, RE	MAIND	R"R"	

	C	0	BU NS AN	IL[TR AL	DING UCTION YSIS CONTINUED		8	AREA 34	& TARG	SET	no 1		- 3		CONF PAGE 170 DATE: 2: REVISED:	F 19	PAGES		
	R=REVISED	S.S.CONDARY	NUMBER	SUBDIVISION		UPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES	TO RIDGE T	SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION TYPE	COMBUSTI. BILITY*	H E VULNERA. BILITY**	
			175		UNIDEN	TIFIED	135	35	4.7	1	4.7	10		35 :	LIGHT	0	С	V4	_
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		i	177				135	70	9.5	1	9.5	10		35.	LIGHT	D	С	٧4	~
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	\vdash	Н	178	+	-		150	35	5.2	1	5.2	10	-	35.	LIGHT	5		74	`
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	t		100	1		<u> </u>			———	ľ									
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	1		+	-	1			+	-	+		+	+	·		+	+] '
	1	2.4					1	1	169	.2	179	.6	D: 0	OS ONLY	-"C" POOF	DEMA	NDER	B	-
			*R-F	INE I	RESISTANT, N- EAST VULNERA	NON-COMBUSTIBLE, BLE TO HE ATTACK	V2 I	S MO	RE VULN	ERA	BLE AND	SO O	N. S	EE JTG ME	MO NO JTG/	M/3/1,	REVIS	EĎ.	

C	BI ONS AI	JIL STF NAI	DING RUCTION LYSIS CONTINUED		څ	B4	. Z	ET -	1				CONF PAGE 18 C DATE: 22 REVISED:	F 19	PAGES	
P-PKIKARY.		SUBDIVISION		UPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES	TO RIDGE T	SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION	COMBUSTI. BILITY*	H E VULNERA. BILITY**
t	18	5			Н										*	
T		a	SINTERING.	PROCESS	185	55	10.2	١	10.2	35		55 .	LIGHT	423	N	V4
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1	I	d	, ,	,	120	35	4.2	1	4.2	15		35 ·	LIGHT	D	N	V4
+	18	6	Possible	BOILER	Н	\vdash		-	17.0		-	-	LIGHT	423	c	V4
†	+	a		OSE	70	40	2.8	'	17.0	25		40.		/		1
†	+	b	-		125		6.2			50	-	50.				
1	1	c	1		75		52			35		35 .				
1	1	d	1		70	40	2.8			35		40 .		-		L
1	lé	37	55' GAS	HOLDER			2.4	1	2.4	25				5	и	SPL
4	+.,	20	PROBABI	LE CRUSHING	\vdash		•	-	12.5	\vdash	\vdash		LIGHT	423	N.	V4
+	115	38		M ALUMINATE		60	-	۲	13.5	25	+	60 .	LIGHT	44.7	+~	1"
	\pm	-	b	•	90			-	·	25		45 .				
-	10	39	PROBABL	KILN.	-	-	1	1	10.3	+	+	+-	LIGHT	A23	N.	Y4
	110	-1	a		95	50	4.7	+	10.7	30	,	50		1	†	
			Ь	<u> </u>	1,	35	5/	_		30		35 .				1
	1	90	PRELIMINA	RY DRIERS	+	-		1	38.	0	+	-	LIGHT	A2:	S N	V
			a		140	135	18.			3	0	45 .		-		
			Ь		4			Т		3	5	45				
			С		120	25	3.	9		3	0	2.5				
			d		125	45	5.	6	1	3	0	45		1	-	1
			e		+	35	+	+		30		35.	1	-	-	-
	1		t	V	8	0 45	3.	6	-	30	0	45	-	+	+	+
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		92		<u> </u>	11	0 70	7.	7	7	.7	5	35 .	LIGHT	D	C	¥4
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L	Ш		DEGISTANT A	NON-COMBUSTIBLE, BLE TO HE ATTACK	0.00		113,		113.				USU BOOK		IDED :	.D

L	CC	NS.	TR	DING UCTION YSIS CONTINUED			4. 2					CONF PAGE 19 DATE: 2 REVISED	OF 19 2 MA	PAGE	S
R=REVISED	S-SECONDARY	NUMBER	SUBDIVISION	OCCUPANCY	LENGTH, FT	WIDTH, FT	PLAN AREA 1000'S OF SQ FT	NO OF FLOORS	FLOOR AREA 1000'S OF SQ FT	TO EAVES T	SIZE OF BAY	ROOF MATERIAL	CONSTRUCTION	COMBUSTI. BILITY*	HE VULNERA.
H	+	193	Н	ORE CRUSHING, WASHI	NG,		-32	H	229		+		A23	N	V
r	t	''/	a	4 PREMARATION		45	8.5	Н	26.7	30	45 .	LIGHT	ALI	-~	1
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	T		c		95		2.8	Н		10	30.		-		t
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Γ	T	194		SECONDARY ALUMINA	PLT IOU)			П	52.3			LIGHT	A23	N	V
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	T		Ь		140		4.9			15	35 .				T
Γ	Т		c		80		2.8			25	35 ·				T
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Г	Τ		e		35		2.4			25	35.				
	1		f		8.	30	2.4			35	30 .				Г
Г	Τ		g		95	35	3.7	_		35	35 ·				T
	L		h		210	35	7.3			35	35 -				Г
	1		j		135	60	8.1			30	60.				Г
L	L		k		75	30	2.2			30	30.				
L	L		1	•	190	65	12.4			30	32				Г
L	L	·						Ц					,		
L	L	195						1	30.7			LIGHT	42.3	N	1
L	┸		a		105	75	7,9	Ц		30	18				
L	L	_	b		110	60	GG	Ш		35	60				
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L	₽	1	L					Ц							
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	T	-	-	,		4,	4.7	Ì	Τ.)	70	45 ·	LIGHT	D	C	Y
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L	+	-	0		65	45	2.9	Ц		35	45 .		_		!
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L	I				120		2.1	Ħ	7.7			E-IGH I			ľ
H	+	200	-	TRANSFORMERS	320	30	9.6	1	9,6	25	-		9	N	51
H	+	201	-	CONTROL HOUSE FO	OR T	65	4.9	H	40	25	20 . 45	LIGHT	D	c	V
-	1		1	HANDFURNIER PIATI	- ·	97	150.6	•	150.6		45	LIGHT	1	-	+





