DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

(4) Item No.	(5) Bld. No.	(6) Code No.	(7) Name, size, quantity of materials		(8) Estimated weight	(9) Remarks
11	Warehouse No.13	None	Cock All iron screw type	3/8"	70 44 kg.	
12	"	"	"	3/4"	229 115	
13	"	"	"	2"	101 140	
14	"	"	Cock (with flange)	1½"	4 24	
15	"	"	"	2"	14 113	
16	"	"	"	2½"	3 10	
17	"	"	Acid proof cock with all iron flange	3/4"	6 20	
18	"	"	Screw valve of zinc coating	3/4"	4 2	
19	"	"	"	1½"	44 9	
20	"	"	"	2"	2 6	
21	"	"	Gun metal cock	3/8"	15 18	
22	"	"	"	1/2"	37 7	
23	"	"	Chlorine proof (Screw valve)	1/4"	1 0.5	
24	"	"	"	3/8"	10 5	
25	"	"	Chlorine proof (Stop with flange)	1"	8 51	
26	"	"	"	3/4"	11 63	
27	"	"	"	1.1/4"	20 160	
28	"	"	Alkali proof valve with flange	2"	4 40	
29	"	"	Ferrosilicon valve with flange	1.1/2"	45 216	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

(4) Item No.	(5) Rld. No.	(6) Code No.	(7) Name, size, quantity of materials	(8) Estimated weight	(9) Remarks
30	Warehouse No.13	None	Stop valve cock 1" 17	22 kg.	
31	"	"	" 1½" 10	57	
32	"	"	Bolt 3/8"x3"	7.3	
33	"	"	" 3/8"x4"	18.4	
34	"	"	" 3/8"x4.3/4"	7.4	
35	"	"	" 1/2"x4"	14.4	
36	"	"	" 1/2"x4½"	11.8	
37	"	"	" 5/8"x4"	18	
38	"	"	" 5/8"x6½"	20.2	
39	"	"	" 5/8"x12"	24.5	
40	"	"	" 5/8"x15½"	16.1	
41	"	"	" 5/8"x16½"	26.8	
42	"	"	" 5/8"x16.3/4"	28.1	
43	"	"	Washer (Round) 5/8"	85.3	
44	"	"	" 3/4"	105.6	
45	"	"	Water proof socket 276	4.5	
46	"	"	Key socket 63	2	
47	"	"	Keyless socket 46	1.5	
48	"	"	Receptacle 21	26	
49	"	"	Shade holder 200	45.5	
50	"	"	Baby switch 64	34	
51	"	"	Three poles concent and plug 15	15	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

(4) Item No.	(5) Bld. No.	(6) Code No.	(7) Name, size, quantity of materials		(8) Estimated weight	(9) Remarks
52	Warehouse No.13	None	T-type concent and plug	6	0.666	
53	"	"	Cord pendant	9	4	
54	"	"	30A Wire fuse	8	9	
55	"	"	20A "	3	4	
56	"	"	5A "	2	4	
57	"	"	10A "	5	5	
58	"	"	5A "	5	2	
59	"	"	1A "	3	1	
60	"	"	Ribbon fuse 100V. 20A	4	23	
61	"	"	Wooden screw	1.1/4"	1	
62	"	"	"	1"	0.5	
63	"	"	"	1.3/4" 36	16	
64	"	"	"	2.1/4" 9	7	
65	"	"	"	1.1/2" 33	16.5	
66	"	"	"	2" 1	1.5	
67	"	"	Screw	3/8"x1.1/2" 7	1	
68	"	"	"	1/2"x1.1/8" 3	0.5	
69	"	"	"	3/16"x1" 23	2.5	
70	"	"	Knife switch			
				DP-DT 250V 30A 3		
71	"	"	"	DP-DT 250V 75A 19		
72	"	"	"	DP-ST 250V 75A 16		
73	"	"	"	DP-ST 250V 50A 17		

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

List of Inventoried Materials

(1) Date, July 20th 1948.

(2) Name of Plant:

Toa Gosei Kagaku Kogyo Co., Ltd.
Takaoka Plant.

(3) Signature of Reporter:

K. Shibuya

(4) Item No.	(5) Bld. No.	(6) Code No.	(7) Name, Size, Quantity of Materials	(8) Estimated weight	(9) Remarks

All materials included in Fushiki Plant's List.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773013

1. LIST OF MACHINES CLASSIFIED ACCORDING TO OPERATION.

2. NUMBER OF REPARATION MACHINES DIRECTLY CONNECTED WITH MOTOR.

3. LIST OF MACHINE, NOT CORRESPONDING TO REPARATION MACHINES.

Code #42-9

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TOA GOSEI KAGAKU KOGYO CO., LTD.

FUSHIKI PLANT.

Toa Gosei Kagaku Kogyo Co., Ltd.
Fushiki Plant.

List of Machines classified according to operation
(A. B. Class machines)

Code No.	Item	Class			Machines in Operation			Remarks
		A	B	Total	In Operation	Prepare to operate	Machines not operated	
I.A.1. 1-74	Electrolytic cell	-	74	74	65	-	9	
I.A.2. 1	Double effect vacuum evaporator	-	1	1	-	1	-	
I.A.3. 1	Air receiver	-	1	1	-	-	1	
2	Elevator	-	1	1	1	-	-	
3	Reducing machine for the elevator	-	1	1	1	-	-	
4	Screw conveyer (downstair)	-	1	1	1	-	-	
5	Reducing machine for the screw conveyer	-	1	1	1	-	-	
6	Air receiver	-	1	1	1	-	-	
7	Soda ash dissolving tank	-	1	1	1	-	-	
8	Caustic liquor storage	-	1	1	1	-	-	
9	Weak caustic preheater	-	1	1	-	-	1	
10	Condenser	-	1	1	-	-	1	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 73 013

Code No.	Item	Class A	Class B	Total	Machines in Operation: In Operation	Machines in Operation: Prepare to operate	Machines in Operation: Machines not operated	Remarks
I.A.3. 11-13	Strong caustic liquor cooler	-	3	3	-	-	3	
14-15	Preheating kettle	-	2	2	-	-	2	
16-19	Caustic fusion kettle	-	4	4	-	-	4	
20-21	Caustic soda storage	-	2	2	2	-	-	
22	Travelling hoist	-	1	1	1	-	-	
23-24	Caustic soda receiver	-	2	2	2	-	-	
25-26	Caustic soda receiver	-	2	2	2	-	-	
27	Travelling hoist	-	1	1	1	-	-	
II.A.2. 1-2	Motor for the cell (12 KW)	-	2	2	2	-	-	
3-4	Motor for the chlorine gas blower(15HP)	-	2	2	2	-	-	
5	Motor for the hydrogen gas blower (10 HP)	-	1	1	1	-	-	
6-7	Chlorine gas blower motor (15 HP)	-	2	2	-	2	-	
8-10	Geared motor for the cell(10 HP)	-	3	3	3	-	-	
11-12	Chlorine gas blower motor (15 HP)	-	2	2	2	-	-	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773013

Code No.	Item	Class A	Class B	Total	Machines in Operation: In Operation	Machines in Operation: Prepare to operate	Machines in Operation: Machines not operate	Remarks
II.A.2. 13	25 HP motor	1	-	1	1	-	-	
14	5 HP motor	-	1	1	1	-	-	
15-16	30 HP motor	-	2	2	2	-	-	
II.A.3. 1-3	Motor generator	-	3	3	-	-	3	
II.A.5. 1-4	Rotary converter	2	2	4	3	1 (B)	-	
II.B.1. 1-3	Transformer 75 KVA	3	-	3	3	-	-	
4	- " - 36 KVA	1	-	1	1	-	-	
5-7	- " - 1548 KVA	3	-	3	2	1	-	
8	- " - 780 KVA	1	-	1	1	-	-	
9	- " - 38 KVA	-	1	1	1	-	-	
10-12	- " - 75 KVA	3	-	3	3	-	-	
13-15	- " - 75 KVA	3	-	3	3	-	-	
16	- " - 36 KVA	1	-	1	1	-	-	
17	- " - 35 KVA	1	-	1	1	-	-	
18-19	- " - 5 KVA	2	-	2	2	-	-	
20-23	- " - 480 KVA	-	4	4	-	-	4	
24-26	- " - 1500 KVA	3	-	3	3	-	-	
27-30	- " - 1000 KVA	4	-	4	4	-	-	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDC NO. 773 013

Code No.	Item	Class A	Class B	Class Total	Machines in Operation: In Operation	Machines in Operation: Prepare to operate	Machines in Operation: Machines not operate	Remarks
II.B.2. 1-3	Switch M-G M side	3	-	3	3	-	-	
4-6	" M-G G "	3	-	3	-	-	3	
7	" 75-T-H.T.	1	-	1	1	-	-	
8	" 35T-H.T.	1	-	1	1	-	-	
9	" L.T.-Motor	1	-	1	1	-	-	
10	" " -Lamp	1	-	1	1	-	-	
11	" W.H.M.	1	-	1	1	-	-	
12-14	" 1320 K H.T.	3	-	3	2	1	-	
15	" 720 K H.T.	1	-	1	1	-	-	
16	" " Start	1	-	1	1	-	-	
17-19	" 1320 K D.C.	3	-	3	2	1	-	
20	" 720 K D.C.	1	-	1	1	-	-	
21-23	" 1320 K A.C.B.	3	-	3	2	1	-	
24	" 720 K A.C.B.	1	-	1	1	-	-	
25-27	" 1320 K L.S.	3	-	3	2	1	-	
28	" 720 K L.S.	1	-	1	1	-	-	
29	" 75/35T-H.T. (MR)	1	-	1	1	-	-	
30	" 35T-H.T.	1	-	1	1	-	-	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773 013

Code No.	Item	Class A	Class B	Total	Machines in Operation: In Operation	Machines in Operation: Prepare to operate	Machines in Operation: Machines not operated	Remarks
II.B.2. 31	Switch L.T.-Motor(MR)	1	-	1	1	-	-	
32	" L.T.-Lamp(MR)	1	-	1	1	-	-	
33-34	" L.T.-Motor	-	2	2	2	-	-	
35	" S.H.M.	-	1	1	1	-	-	
36	" S.H.T.-O.C.B.	1	-	1	-	-	1	
37	" H.T-Main	-	1	1	-	-	1	
38	" S.H.T.-O.C.B.	1	-	1	1	-	-	
39	" Branch O.C.B.	-	1	1	1	-	-	
40	" H.T.-Main 2	1	-	1	1	-	-	
41	" H.T.-Main 1	1	-	1	1	-	-	
42	" 75T.-H.T.	1	-	1	1	-	-	
III.A.3. 1-2	Lancashire boiler	-	2	2	2	-	-	
3-4	- " -	-	2	2	2	-	-	
III.B.1. 1-2	Air compressor	-	2	2	1	-	1	
3	Vacuum pump	-	1	1	-	-	1	
4	Air compressor	-	1	1	1	-	-	
5	- " -	-	1	1	1	-	-	
6	Rotary ammonia compressor	1	-	1	1	-	-	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773013

Code No.	Item	Class A	Class B	Total	Machines in Operation: In Operation	Prepare to operate	Machines not operated	Remarks
III.B.1. 7	Vertical ammonia compressor	-	1	1	1	-	-	
III.B.2. 1-2	Brine pump	-	2	2	-	-	2	
3-4	- " -	-	2	2	-	-	2	
5-6	Pump for the mud	-	2	2	-	-	2	
7	Pump for the soda ash liquor	-	1	1	-	-	1	
8-9	Brine pump (3")	-	2	2	-	-	2	
10-11	Brine pump (2")	-	2	2	-	-	2	
12-13	Pump for the saturation tank	-	2	2	2	-	-	
14	Soda ash liquor pump	-	1	1	1	-	-	
15	Brine pump	-	1	1	1	-	-	
16	- " -	-	1	1	1	-	-	
17	Pump for the mud	-	1	1	1	-	-	
18	Weak caustic liquor pump	-	1	1	-	-	1	
19-21	Weak caustic liquor feed pump	-	3	3	-	-	3	
22-23	Drain pump	-	2	2	-	-	2	
24-25	Feed water pump	-	2	2	-	-	2	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 743 013

Code No.	Item	Class A	Class B	Total	Machines in Operation In Operation	Machines in Operation Prepare to operate	Machines not operated	Remarks
III.B.2. 26	Drain pump	-	1	1	-	-	1	
27	Strong caustic liquor pump	-	1	1	-	-	1	
28-29	Washing solution pump	-	2	2	-	-	2	
30	Recovered liquor pump	-	1	1	-	-	1	
31-32	Brine pump	-	2	2	2	-	-	
33	Caustic soda pump	-	1	1	1	-	-	
34	Water feeding pump	-	1	1	1	-	-	
35-36	- " -	-	2	2	2	-	-	
37	Caustic soda pump	-	1	1	1	-	-	
38	Caustic soda pump dia. 75 mm.	-	1	1	1	-	-	
39-42	Brine pump (C),(S)	-	4	4	4	-	-	
43	Caustic soda pump	-	1	1	1	-	-	
44	Sulphuric acid pump	-	1	1	1	-	-	
45	Sulphuric acid feeding pump	-	1	1	1	-	-	
46	Water feeding pump	-	1	1	1	-	-	
47	Hydrochloric acid pump	-	1	1	1	-	-	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Code No.	Item	Class A	Class B	Total	Machines in Operation: In Operation	Prepare to operate	Machines not operated	Remarks
III.B.2. 48-49	2" Turbine pump	2	-	2	2	-	-	
50	Washington pump	-	1	1	1	-	-	
51	Water feed pump	-	1	1	1	-	-	
52	Brine pump	-	1	1	1	-	-	
	Total	68	192	260	192	9	59	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Toa Gosei Kagaku Kogyo Co., Ltd.

Fusniki Plant.

List of Machines classified according to Operation
(C. Class machines)

Item	No. of machine	Machines in Operation		Machines not operated	Remarks
		In Operation	Prepare to operate		
Soda ash dissolving tank	3	-	-	3	
Caustic soda storage	1	-	-	1	
Brine pump	1	-	-	1	
- " -	1	-	-	1	
Raw salt dissolving tank	3	-	-	3	
Brine receiver	3	-	-	3	
Brine purification tank	15	-	-	15	
Brine feed tank	1	-	-	1	
Caustic soda storage	1	-	-	1	
Brine feed tank	1	-	-	1	
Brine purification tank	5	-	-	5	
Screw conveyer (upstairs)	1	1	-	-	
Pumps for the saturation tank with 15 HP motor	2	2	-	-	
Recovered brine pump	1	1	-	-	
Saturation tank	2	2	-	-	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773013

Item	No. of machine	Machines in Operation: In Operation	Machines in Operation: Prepare to operate	Machines in Operation: Machines not operated	Remarks
Brine purification tank	5	5	-	-	
Recovered brine storage	1	1	-	-	
Vertical diaphragm cell	267	-	-	267	
Cl_2 gas blower motor '7.5 HP)	2	-	-	2	
Weak caustic storage	3	-	-	3	
Washing solution tank	3	-	3	-	
Drain storage	1	-	1	-	
Drain receiver	1	-	1	-	
Weak caustic liquor storage	1	-	1	-	
High Level water storage	1	-	1	-	
Strong caustic liquor storage	4	-	4	-	
Recovered Liquor tank	1	-	1	-	
Strong caustic liquor storage	1	-	-	1	
Furnace for the fusion kettle	4	-	-	4	
Coal sander with 1.5HP motor	4	-	-	4	
Mercury process cell	6	6	-	-	
Coal tar tank for the graphite electrode	2	2	-	-	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773 013

Item	No. of machine	Machines in Operation			Remarks
		In Operation	Prepare to operate	Machines not operated	
Brine recovering pump	1	1	-	-	
Brine tank (B),(C),(D),(E)	7	7	-	-	
Brine purification tank	4	4	-	-	
Kettle for the joint mud of cell	1	1	-	-	
Washing tank for the secondary electrode	1	1	-	-	
Tank for the mercury dregs	1	1	-	-	
Feed water tank	1	1	-	-	
Brine pump	1	1	-	-	
Mercury process cell	46	-	46	-	
Secondary graphite washing tank	2	-	2	-	
Travelling hoist	2	1	1	-	
Brine pump and motor	4	-	4	-	
Brine tank (C),(D),(E)	6	2	4	-	
Geared motor for the cell	2	-	2	-	
Feed water tank	2	-	2	-	
High level water tank	1	-	1	-	
Caustic liquor storage	4	3	1	-	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773 013

Item	No.of machine	Machines in operation: In Operation	Prepare to operate	Machines not operated	Remarks
Electrical hoist	1	1	-	-	
Sulphuric acid pump	1	-	1	-	
Mercury process cell	1	-	1	-	
Feed water tank	2	-	2	-	
High level water tank	1	-	1	-	
Secondary grephite washing tank	2	-	2	-	
Travelling hoist	1	1	-	-	
Coal-tar tank for the electrode	1	1	-	-	
Kettle for joint mud cell	1	1	-	-	
Brine tank (C),(D),(E)	6	6	-	-	
Caustic soda liquor storage	2	2	-	-	
Total -	453	55	82	316	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 73013

Number of reparation machines directly connected with motor

(A. B. Class machines)

Code No.	Item	With motor	No motor	Total	Remarks
I.A.3 3	Reducing machine for the elevator	1	-	1	
II.A.3 1-3	Motor generator	3	-	3	
III.B.2. 1-2	Brine pump	-	2	2	custody in E. Sub. 2
3-4	- " -	1(4)	1(3)	2	custody in E. Sub. 1
5-6	Pump for the mud	-	2	2	" 2
7	Pump for the soda ash liquor	-	1	1	" 1
8-9	Brine pump (3")	-	2	2	" 2
10-11	Brine pump (2")	-	2	2	" 2
12-13	Pump for the saturation tank	2	-	2	
14	Soda ash liquor pump	1	-	1	
15	Brine pump	1	-	1	
16	- " -	1	-	1	
17	Pump for the mud	1	-	1	
18	Weak caustic liquor pump	-	1	1	custody in E. Sub. 1
19-21	Weak caustic liquor feed pump	1(19)	2(20,21)	3	"
22-23	Drain pump	-	2	2	" 2

Code No.		Item	With motor	No motor	Total	Remarks
III.B.2.	24-25	Feed water pump	-	2	2	custody in E.Sub. 2
	26	Drain pump	1	-	1	" 1
	27	Strong caustic liquor pump	-	1	1	" 1
	28-29	Washing solution pump	1(28)	1	2	" 1
	30	Recovered liquor pump	-	1	1	" 1
	31-32	Brine pump	2	-	2	
	33	Caustic soda pump	1	-	1	
	34	Water feeding pump	-	1	1	custody in E. Sub. 1
	35-36	- " -	1	1	2	"
	37	Caustic soda pump	1	-	1	
	38	Caustic soda pump dia. 75 mm.	1	-	1	
	39-42	Brine pump (C),(E)	4	-	4	
	43	Caustic soda pump	1	-	1	
	44	Sulphuric acid pump	1	-	1	
	45	Sulphuric acid feeding pump	1	-	1	
	46	Water feeding pump	1	-	1	
	47	Hydrochloric acid pump	1	-	1	
	48-49	2" Turbine pump	2	-	2	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Code No.	Item	With motor	No motor	Total	Remarks
III.B.2. 61	Waterfeed pump	1	-	1	
62	Brine pump	1	-	1	
	Total	33	22	55	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773 013

Number of reparation machines directly connected with motor
(C class machine)

Item	No. of machine	With motor	No motor	Total	Remarks
Brine pump	1	-	1	1	custody in E. Sub. 1
- " -	1	-	1	1	"
Recovered brine pump	1	1	-	1	
Coal sender with 1.5HP motor	4	-	4	4	custody in E. Sub. 4
Brine recovering pump	1	1	-	1	
Brine pump	1	-	1	1	custody in E. Sub. 1
Brine pump and motor	4	-	4	4	" 4
Sulphuric acid pump	1	4	1	1	" 1
Total		2	12	14	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Tos Gosei Kagaku Kogyo Co., Ltd.
Fushiki Plant.

List of Machines, Not corresponding to Reparation Machines.

Item	No. of machine	Accessory machine
Motor for the soda ash tank (1 HP)	1	
Sulphuric acid tank	2	
Acid lifter	1	
Weak acid tank	1	
Chlorine gas blower	2	
Chlorine gas dryer	2	
Chlorine gas cooler	4	
Air blower	1	2 HP motor
Hydrogen gas blower	1	3 HP motor
Chlorine gas damper	4	
Hydrogen cooler	1	
Hydrogen gas damper	1	
Chlorine gas blower	1	
- " -	1	
Chlorine gas dryer	1	
- " -	1	
Chlorine gas cooler	1	
- " -	1	
- " -	1	
- " -	1	
- " -	1	
Chlorine gas damper	1	
- " -	1	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Item	No.of machine	Accessory machine
Sulphuric acid receiver	1	
- " -	1	
Sulphuric acid montage	1	
- " -	1	
Sulphuric acid storage	1	
- " -	1	
Waste sulphuric acid tank	1	
Hydrogen gas blower	1	
- " -	1	2 HP motor
- " -	2	
Hydrogen gas cooler, large	2	
- " - small	2	
Hydrogen gas damper, small	2	
- " - large	1	
Chlorine gas cooler	4	
Chlorine gas dryer	4	
Chlorine gas blower	2	
Chlorine gas damper	2	
Sulphuric acid tank	2	
Hydrogen gas blower	3	
Hydrogen gas cooler, large	2	
- " - small	2	
Hydrogen gas damper, small	2	
- " - large	11	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Item	No. of machine	Accessory machine
Chlorine gas cooler	4	
Chlorine gas dryer	4	
Chlorine gas damper	2	
Sulphuric acid feeding tank	1	
Sulphuric acid tank	2	
Waste Sulphuric acid tank	1	
2 HP motor	1	
Backet elevator	1	
1 HP motor	1	
Backet elevator	1	
1 HP motor	1	
Gear coupling	1	
48" Induced fan	2	
Economizer	2	
2 HP motor	1	
Reducing gear	1	
2 HP motor	1	
Feed water tank	2	
Chimney	2	
Total	104 (7)	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

LIST OF I.M.D. MACHINE

Name of Plant	Toa Gosei Kagaku Kogyo Co.,Ltd. Fushiki Plant.
Code No.	42-9
Address	No.90, Fushiki-Shinshima, Takaoka City, Toyama Pre.

Total I.M.D. Machine	55
1. Withmotor	33
2. Missing motor	22

.....

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

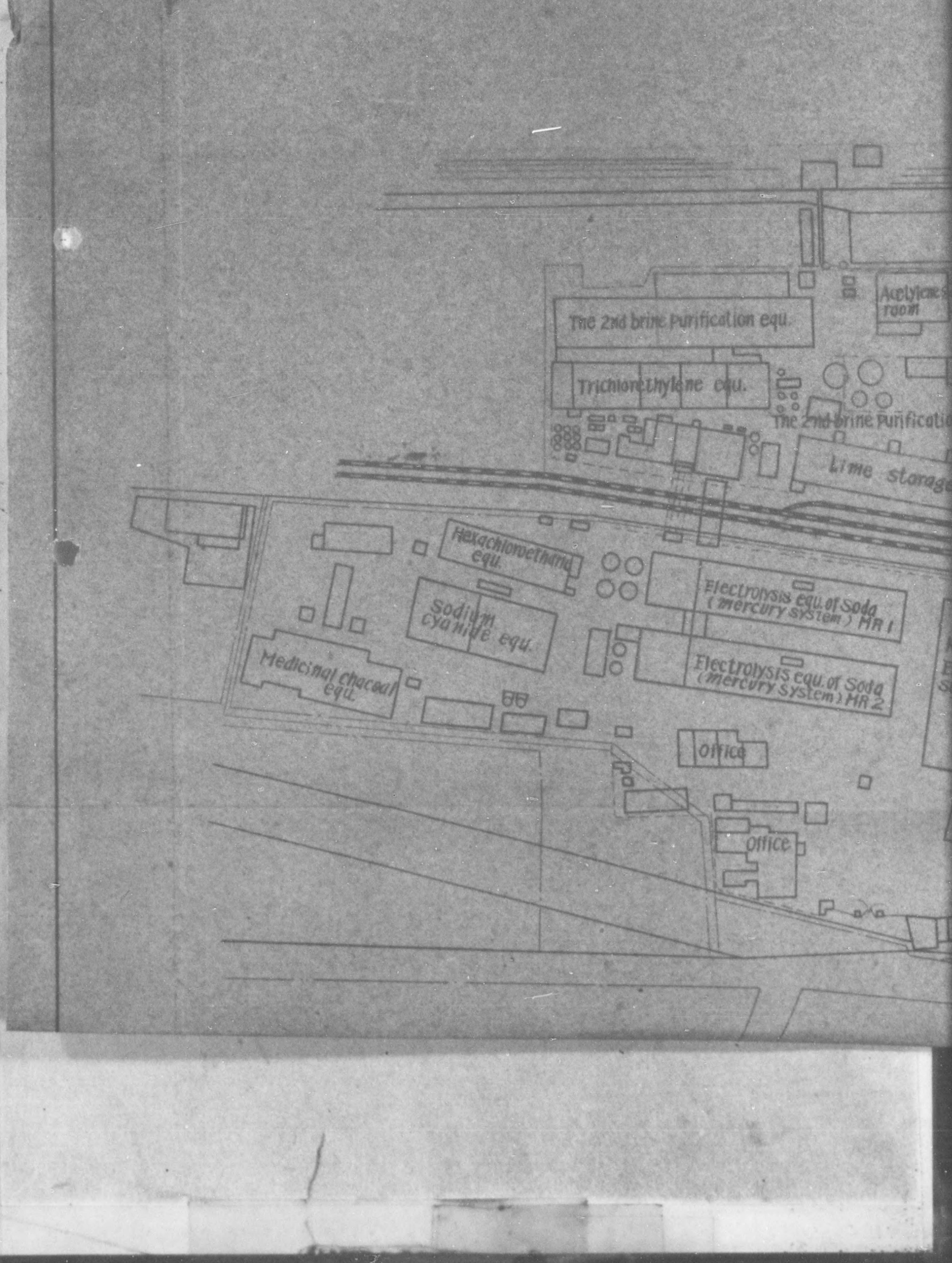
Particulars of a transformer,
Electric Dept.

Place	Code No.	Name of Machines	Description	Manufacture	Weight kg.	Size m. m. m.
The 1st E. Sub.	II B1-1	Transformer	75 K.V.A. 3300/210 105 V.	Naigai make	617	1.0x1.6x2.9
"	II B1-2	"	- " -	"	617	"
"	II B1-3	"	- " -	"	617	"
"	II B1-4	"	35 K.V.A. 3300/210 105 V.	Shibaura make	300	0.4x0.67x0.92
The 2nd E. Sub.	II B1-5	"	1320 KW For rotary convertor use 1548 K.V.A. 3 Ph. 60 lbs. 3960/172 V.	"	5,000	2.0x2.6x3.9
"	II B1-6	"	- " -	"	5,000	"
"	II B1-7	"	- " -	"	5,000	"
"	II B1-8	"	720 KW For rotary convertor use 780 K.V.A. 3 Ph. 60 cy. 4290/91.2 V.	"	5,000	1.55x1.75x3.0
"	II B1-9	"	720 KW For rotary convertor use 38 KW 3 Ph. 60 cy. 3300/3400 3500V. Sec. A 110	Osaka Henatsuki	500	0.67x0.7x1.05
"	II B1-10	"	75 K.V.A. 3300/210 105 V. 1 Ph. 60V.	Shibaura make	617	0.71x0.86x0.95
"	II B1-11	"	- " -	"	617	"
"	II B1-12	"	- " -	"	617	"
"	II B1-13	"	- " -	"	617	"
"	II B1-14	"	- " -	"	617	"
"	II B1-15	"	- " -	"	617	"
"	II B1-16	"	35 K.V.A. 3300/210 105 V. 1 Ph. 60 cy.	"	300	0.4x0.67x0.92

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Plase	Code No.	Name of Machines	Description	Manufacturer	Weight	Size
The 2nd E. Sub.	II B1-17	Transformer	35 K.V.A. 3300/210 105 V. 1 Ph. 60 cy.	Shibaura make	300	0.4x0.67x0.92
"	II B1-18	"	5 K.V.A. 3300/210 105 V. 1 Ph. 60 cy.	"	105	0.34x0.45x0.505
"	II B1-19	"	- " -	"	105	"
The 1st E. Sub.	II B1-20	"	480 K.V.A. 40,000/3500 20,000/3300 1 Ph. 60 cy.	"	4,500	1.0x1.6x2.9
"	II B1-21	"	- " -	"	4,500	"
"	II B1-22	"	- " -	"	4,500	"
"	II B1-23	"	- " -	"	4,500	"
The 2nd E. Sub.	II B1-24	"	1,500 K.V.A. 22,000/3,300 V. 1 Ph. 60 cy.	"	6,600	2.15x2.2x3.6
	II B1-25	"	- " -	"	6,600	"
	II B1-26	"	- " -	"	6,600	"
	II B1-27	"	1,000 K.V.A. 40,000 / 20,000 / 3,500 V.	"	5,500	1.9x2.0x3.2
	II B1-28	"	- " -	"	5,500	"
	II B1-29	"	- " -	"	5,500	"
	II B1-30	"	- " -	"	5,500	"

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013



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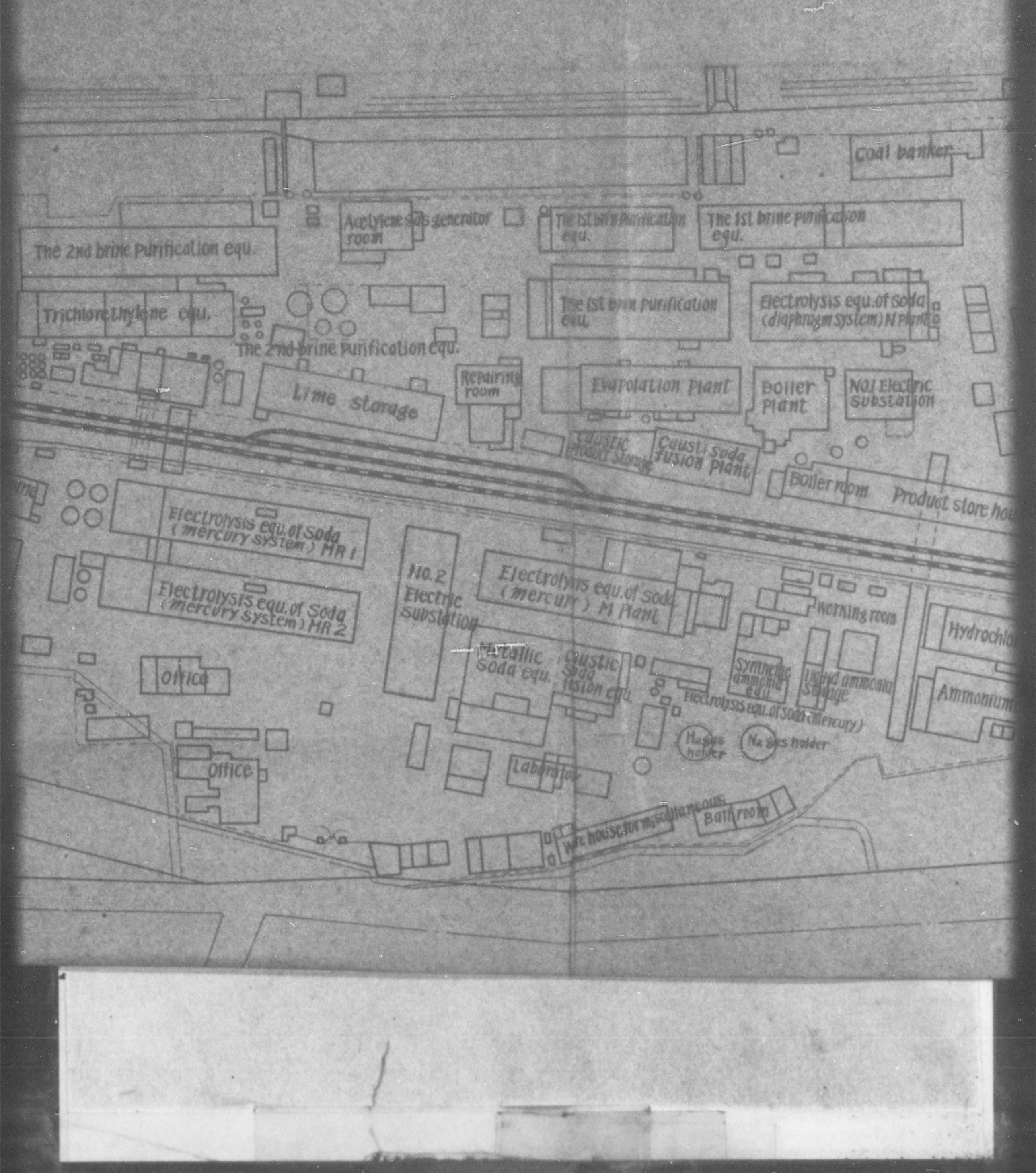

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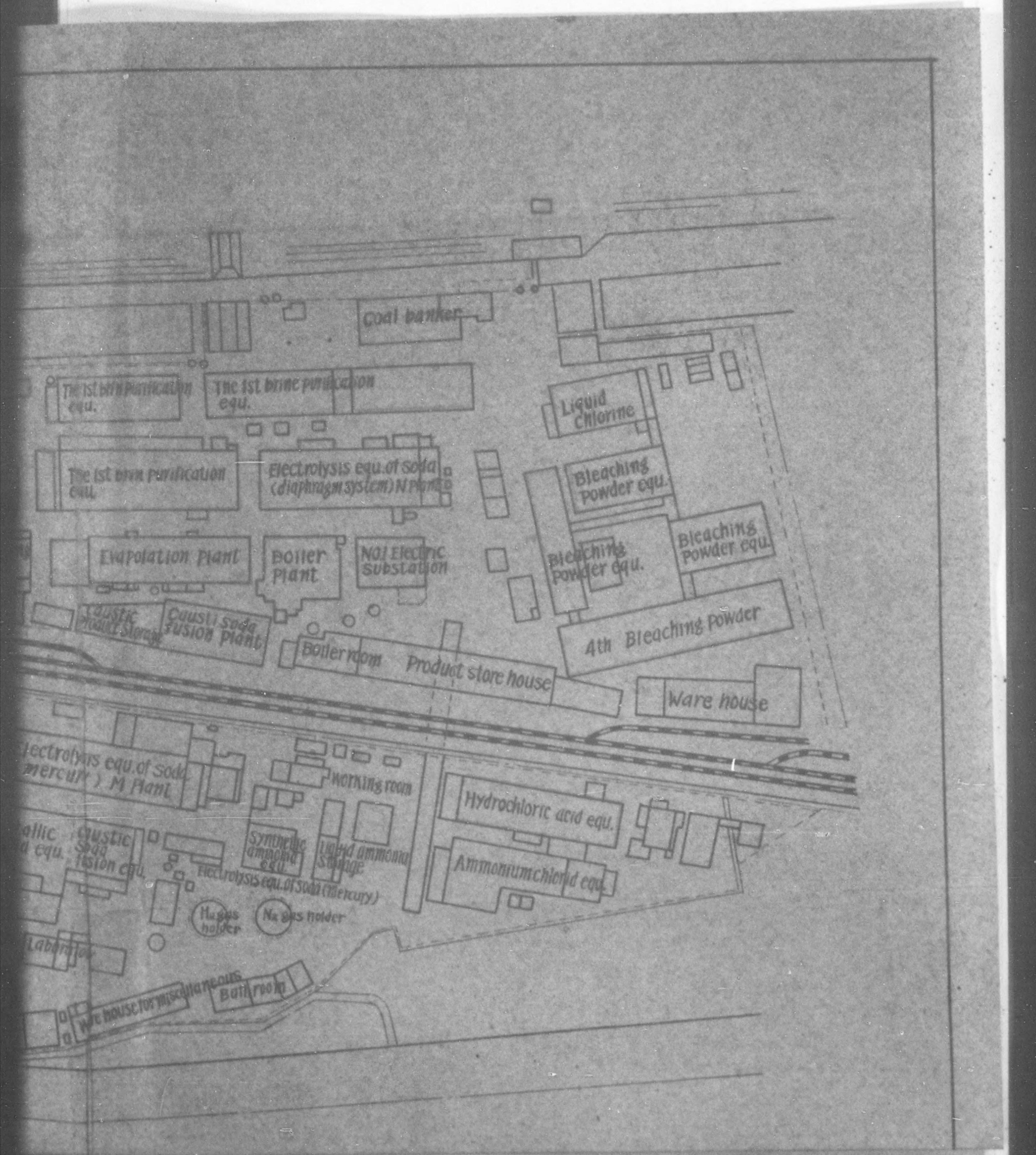

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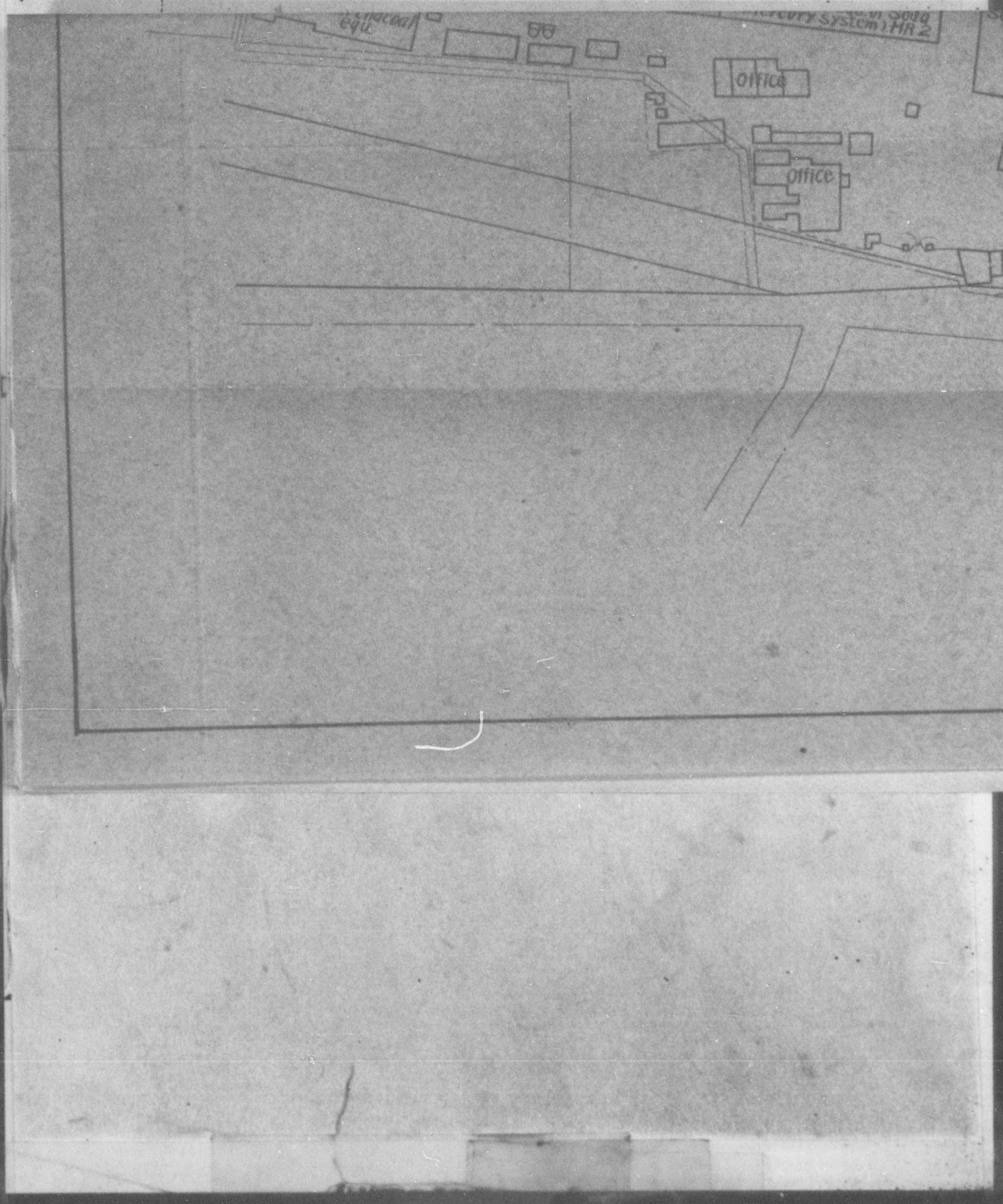

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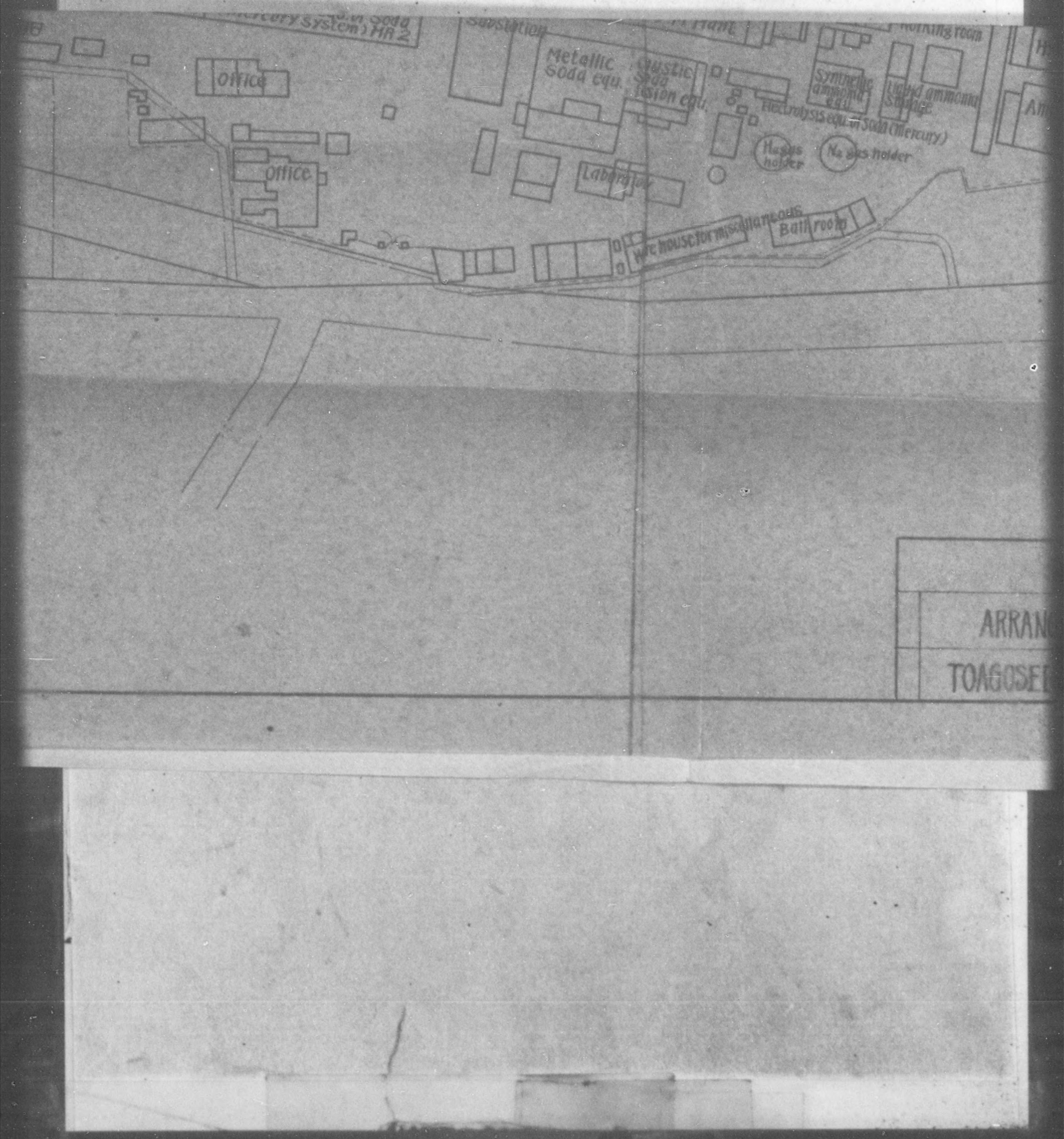
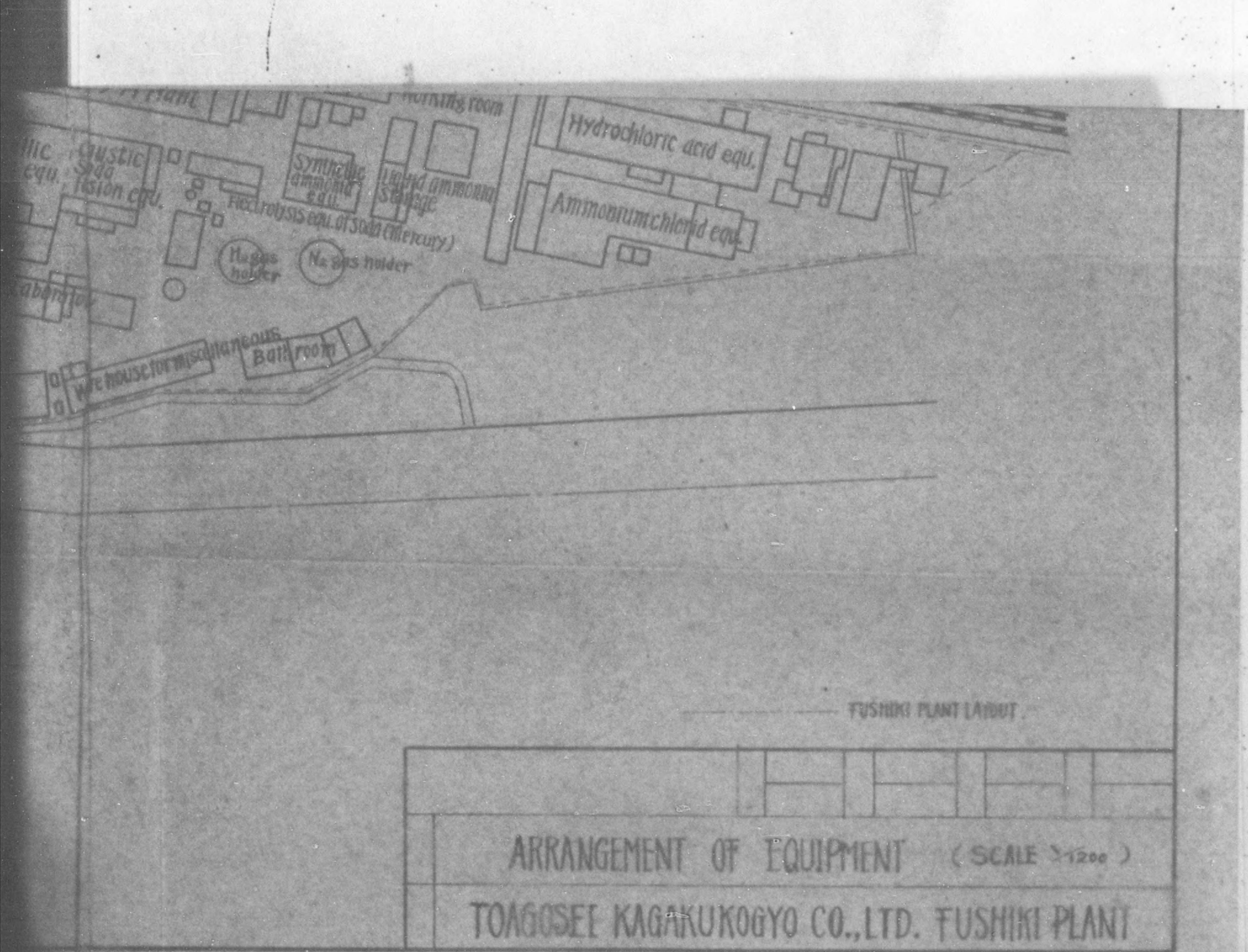


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013



ARRANGEMENT OF EQUIPMENT (SCALE 1:1200)

TOAGOSEI KAGAKUKOGYO CO.,LTD. FUSHIKI PLANT

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 301

386.3

17 July 1948

SUBJECT: Reteurn of Application to Produce Potassium Chloride.

THRU: Toyama Liason Office

TO: Toa Gosei Kagaku KK., Fushiki Plant.

1. Reference "Application to Produce Potassium Chloried", submitted through this headquarters by you on 24 June 1948.

2. It is requested that you submit an application for exeution of land and buildings not needed for reparations. It is understood by this headquarters that the land and buildings contempilated to be used to produce Potassium Chloride are not needed for reparations.

3. Upon approval of this application from higher headquarters a conversion permit will not be needed to produce essential commodities.

BY ORDER OF LIEUTENANT COLONEL HICKMAN:

TEMPLE S. RYLAND
Major, FA.
Economics Officer

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

HEADQUARTERS
TOKAMA MILITARY GOVERNMENT TEAM
APO 719

441 5 March 1948

SUBJECT: Application for use of Uranyl Acetate

THRU : Commanding Officer
Tokai-Hokuriku Mil Govt Region
APO 710

TO : Supreme Commander for the Allied Powers, APO 500
ATTN: Dr.H.C. Kelly, Special Projects Unit ESS/ST,GHE,FEC

1. Transmitted herewith is six (6) copies of an application for permission to use radioactive compounds submitted by the Tos Gosei Kagaku Kogyo, Fushiki Plant to this headquarters.

2. This headquarters not knowing the policy of higher headquarters on such matters forwards this application without recommendation.

FOR THE COMMANDING OFFICER:

1 Incl:
Six (6) Copies of Application
to use Radioactive Compounds

KENNETH R. SPEAS
Captain, FA
Adjutant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

441

BASIC: Ltr, Hq Toyama Mil Govt Team, APO 713, dtd 5 Mar 48,
Subj: "Application for use of Uranyl Acetate."

7th Ind GNM/ss

Hq Tokai-Hokuriku Mil GovtRegion, APO 710, 19 Apr 48

TO: Commanding Officer, Toyama Mil Govt Team, APO 713

Your attention is directed to the 4th indorsement.

BY ORDER OF COLONEL DUMONT:

Walter O. Wade

WALTER O. WADE
Capt, Inf
Adjutant

1 Incl:
n/c

858 19 APR 1948

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 713

441

5 March 1948

SUBJECT: Application for use of Uranyl Acetate

THRU : Commanding Officer
Tokai-Hokuriku Mil Govt Region
APO 710

TO : Supreme Commander for the Allied Powers, APO 500
ATTN: Dr.H.C. Kelly, Special Projects Unit ESS/ST,GHQ,FEC

1. Transmitted herewith is six (6) copies of an application for permission to use radioactive compounds submitted by the Toa Gosei Kagaku Kogyo, Fushiki Plant to this headquarters.

2. This headquarters not knowing the policy of higher headquarters on such matters forwards this application without recommendation.

FOR THE COMMANDING OFFICER:

Kenneth R. Speas

KENNETH R. SPEAS
Captain, FA
Adjutant

1 Incl:
Six (6) Copies of Application
to use Radioactive Compounds

684

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

BASIC: Ltr, Hq Toyama Mil Govt Team, APO 713, dtd 5 March 1948,
Subj: "Application for use of Uranyl Acetate."

1598

1st Ind GNM/ss

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 12 Mar 48

TO: CG, I Corps, APO 301
ATTN: Mil Govt Section

Submitted in compliance with par. 3, Ltr AG 387.3 (MG-En), Headquarters Eighth Army, subject: Impounding of Uranium and Tharuium Compounds, dated 27 Dec 1947. (Classified)

FOR THE COMMANDING OFFICER:

Walter O. Wade

WALTER O. WADE
Capt, Inf
Adjutant

4692

1 Incl:
n/c
1cc w/d

AG 471- BA 2nd Ind ABH/vv

Hq I Corps, APO 301,

TO: CG, Eighth Army, APO 343

MAR 16 1948

Walt

1 Incl:
n/c
cy w/o

BA 7889

661 13 MAR 1948

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

975

Ltr, Hq Toyama Mil Govt Team, file 441, subj: "Application for use of Uranyl Acetate," dtd 5 Mar 48.

AG 387.7 (MG-En) 5th Ind

Headquarters Eighth Army, APO 343 8 APR 1948

TO: Commanding General, I Corps, APO 301

Your attention is invited to the preceding indorsement.

8

BY COMMAND OF LIEUTENANT GENERAL EICHELBERGER:

1 Incl:
n/c

R. SCHAFER
Lt Col, AGD
Asst Adj Gen

AG 441 - BA 6th Ind EHN/mk

Hq I Corps, APO 301, APR 14 1948

TO: CO, Tokai-Hokuriku Mil Govt Region, APO 710

Your attention is directed to 4th indorsement.

BY COMMAND OF MAJOR GENERAL SWING:

WILDER A. JOHNSON
Capt., A.G.D.
Asst. Adj. Gen.

1 Incl:
n/c

BA 81357

355

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

WG,

Ltr, Hq, Toyama Mil Govt Team, file 441, subj: "Application for use of Urenyl Acetate," dtd 5 Mar 48.

LETTER RECEIVED 26 MAR 1948 2nd Lt. U.S.

AG 387.7 (MC-En) 3rd Ind

Headquarters Eighth Army, APO 343

TO: Supreme Commander for the Allied Powers, APO 500
(Attn: Scientific and Technicel Div, ESS)

Submitted in compliance with paragraph 3 of letter, GHQ, SCAP, file AG 410.2 (20 Dec 47) ESS/ST, 20 December 1947, (Classified).

8

FOR THE COMMANDING GENERAL:

R. SCHAFER
Lt Col, AGD
Asst Adj Gen

1 Incl:
1 copy w/d

6736

AG 410.2 (5 Mar 48)ESS/ST 4th Ind

GENERAL HEADQUARTERS, SUPREME COMMANDER FOR THE ALLIED POWERS, APO 500

2APR 48

TO: Commanding General, Eighth Army, APO 343

Request contained in inclosure to basic communication is approved.

BY COMMAND OF GENERAL MacARTHUR:

1 Incl
2 cc w/d

J. F. BRADSHAW
Major, AGD
Asst Adj Gen

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

TOA GOSEI KAGAKU KOGYO CO., LTD.
FUSHIKI PLANT.

The List and Explanation of D Class Machines

Serial No.	Name of Machine	No. of machine	Remarks
17	Caustic soda storage	1	All parts are corroded and start a leak.
57	Vertical diaphragm cell	265	All parts are corroded, damaged and have many holes.
99	Recovered liquor pump	1	Case, runner and 2 HP motor are damaged.
105	Coal sender	4	Accessory motor is damaged and without many accessories.
107	Mercury process cell	1	is very damaged and without accessories, case iron trough and mercury pump.
119	Brine pump	1	Ebonite lined pump, case and runner are very damaged and accessory motor also damaged.
134	Kettle for the joint mud of cell	1	All parts are corroded and very damaged.
135	Washing tank for the secondary electrode	1	- " -
136	Tank for the mercury dregs	1	All parts are corroded and have many holes.
137	Feed water tank	1	All parts are corroded and very damaged.
139	Motor for the chlorine gas blower	1	Accessory 15 H.P. motor is applicated for exemption as machine of caustic potash manufacturing.
"	- " -	1	- " -

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Serial No.	Name of Machine	No. of machine	Remarks
126	Motor for the hydrogen gas blower	1	Accessory 10 HP motor is applicated for exemption as machine of caustic potash manufacturing.
156	Mercury process cell	1	Without accessory screw conveyer.
157	Geared motor for the cell	1	Without accessories.
"	- " -	1	- " -
158	Feed water tank	1	All parts are corroded and very damaged.
"	- " -	1	- " -
159	High level water tank	1	- " -
172	Electrical hoist	1	Starting apparatus is very corroded and damaged.
180	Sulphuric acid pump	1	Case, runner and accessory 2 HP motor are damaged.
237 & 239	Rotary convertor (720 KW. D.C. 120V. 600A with induction voltage regulator one set)	1 1	is applicated for exemption as machine of caustic potash manufacturing.
241	Transformer For 720 KW Rotary 780 KVA	1	- " -
242	Transformer For 720 KW Rotary 38 KVA	1	- " -
244	- " - 75 "	1	Transformer 75 KVA is applicated for exemption as motor circuit.
"	- " - " "	1	- " -
"	- " - " "	1	- " -

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Serial No.	Name of Machine	No. of Machine	Remarks
246	Transformer For 720 KW Rotary 36 KVA	1	is applicated for exemption as lamp circuit.
247	- " - 5 "	1	is applicated for exemption as control and si_nal circuit.
"	- " - 5 "	1	- " -
623	- " - 1,000 KVA 20/3.3 KV	1	is applicated for exemption as primary receive.
"	- " -	1	- " -
"	- " -	1	- " -
"	- " -	1	- " -
249	Switch board For 720 KW Rotary high tension side	1	is applicated for exemption as caustic potash manufacturing.
250	Knife switch panel For 720 KW Rotary low tension side	1	- " -
252	Switch board For 720 KW Rotary D.C. side	1	- " -
254	A.C.S. panel For 120 KW Rotary D.C. side	1	- " -
256	Knife switch board D.C. side	1	- " -
258	Switch board 100 KW 3 ph. 3 ∠ 60 cy.	1	is applicated for exemption as lamp circuit.
261	- " - for low tension power distribution	1	is applicated for exemption as motor circuit.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Serial No.	Name of Machine	No. of Machine	Remarks
262	Switch board for lamp circuit	1	is applicated for exemption as lamp circuit
263	- " - for W.H.M.	1	is applicated for exemption as watt hour meter.
626	Oil circuit breaker	1	is applicated for exemption as W.H.T. branch.
629	Switch board 6000 KW 3 ph. 3 W.60 cy.	1	is applicated for exemption as high tension receive.
630	- " - 2500 KW 3 ph. 3 W. 60 cy.	1	is applicated for exemption as motor circuit.
271	Lancashire boiler	1	is applicated for exemption as machine of other chemicals manufacturing than caustic soda (with complete accessory machines).
274	- " -	1	- " -
	Grand Total	316	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

TOA GOSEI KAGAKU KOGYO CO., LTD.
FUSHIKI PLANT.

Toa Gosei Fushiki Plant

Date, May 20, 1948.

To : Commanding Officer of Toyama Mil. Govt. Team.

Thru : Reparation Section of Economic Dept. of Toyama Prefectural Office.

Subject: Application for the permission of installing equipment of producing potassium chloride in the reparation plant designated.

Name and address of Applicant:

No.90, Fushiki-Shinshima, Takaoka City, Toyama Pref.

Toa Gosei Kagaku Kogyo Co., Ltd. Fushiki Plant.

Representative of Fushiki Plant:

Iguma Nonaka.

Lately, with the increase of coal output, the demand for the purest caustic potash used for the safety lamp in the coal mines remarkably increased; and its improvement in quality is a matter of urgency. But potassium chloride which is receivable at present contains some quantity of sodium chloride, and this sodium chloride makes the production of the purest caustic potash impossible by mercury process, and such sorts of materials are not available for the above purpose.

Consequently this plant has planned to refine potassium chloride urgently and supply articles of good quality for the welfare of our peoples by making use of the part of equipment designated except reparation machines.

Regarding to the equipment, I wish to use the part of building in which the 1st Brine Purification Equipment was installed; and details, of machines to be conveyed in and building to be used, are shown in the enclosed paper.

I, hereby heartily beg of you to grant my application.

(Sgd) Shuzo Ishige.

Title: For the Master of Fushiki Plant.

Authorize the above application (not authorize).

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Date, Feb. 26, 1948.

To : Dr. H. C. Kelly.

Special Projects Unit, ESS/ST, GHQ, FEC, APO 500.

Thru : Commanding Officer of Toyama Mil. Govt. Team.

Subject : Application for the permission of using radioactive compounds.

Location and Name of Applicant.

No.80, Fushiki-Shinshima, Takaoka City, Toyama Pref.

Toa Gosei Kagaku Kogyo Co., Ltd. Fushiki Plant.

I heartily apply for the permission of using radio-active compounds stock in this plant, the details of which are:

1. Name of radioactive compounds:

Uranyl acetate.

2. Quantity:

26gr.

3. Use :

Use as an indicator when operate quantitative analysis of zinc chloride (material for making active carbone).

P.S.

I submit this application by the advice of Mr. K.Inouye, GHQ, TID, who visited this plant on 21st, Feb. 1948.

(Sgd) K. Shibuya

Title: For Master of Fushiki Plan

Encl 1/2

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

TOYAMA
LIAISON OFFICE

24 June 1948

TO : Commanding Officer, Toyama Mil. Govt. Team

FROM : Vice-Governor of Toyama Ken.

SUBJECT: Application for Approval of Installing Potassium Chloride Manufacturing Equipment within Reparations-Designated Plant.

In order to install potassium chloride manufacturing equipment within a reparations-designated plant under the following circumstances, application has been made by Iyu Nonaka, custodian of Takaoka Plant, Toa Synthetic Chemical Industry Co.,Ltd. at 90 Nishima, Fushiki, Takaoka city for the approval of using some portions of the 1st Melting sub-Plant building which is listed in the reparation program within the same plant. The plant will be glad very much if you would take into consideration the following circumstances and approve the contents of the application and so; we hereby recommend you to realize the above in such a way as to favor the plant with approval upon investigations.
The machineries which are to be carried in for that use, portions to be used of the building and total floor space (tsubo) are as per attached plan.

Following:

Recently subsequent to the increased production of coal in this country, there can be seen ever-increasing demand for caustic potassium (pure, mercury type) which is absolutely necessary as the use for safety-light in a pit. At the same time, however, the reality is that the qualitative betterment of caustic potassium is essential.

But, since potassium chloride which can be obtainable at present as the sole raw material for caustic potassium contains salinity, it is quite useless as material for the purest caustic potassium (mercury type).

In this situation, the plant as mentioned above desires heartily to re-crystallize potassium chloride and produce manufactures of superior quality as soon as possible by making use of some of the previously installed equipment being not included in the reparations-designated machineries, believing that such may greatly contribute towards the stabilization of public welfare.

Signed T. Takatsuji

TAKATSUJI TOKUTAI
Vice-Governor, the Acting
Governor, Toyama Ken.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

TOA GOSEI KAGAKU KOGYO CO., LTD.
FUSHIKI PLANT.

Date, June 19, 1948.

To : Commanding Officer of Toyama Mil. Govt. Team.

Thru : Reparation Section of Economic Dept. of Toyama Prefectural Office.

Subject: Application for the permission of installing equipment of producing potassium chloride in the reparation plant designated.

Name and address of applicant:

No.90, Fushiki-Shinshima, Takaoka City, Toyama Pref.

Toa Gosei Kagaku Kogyo Co., Ltd. Fushiki Plant.

Representative of Fushiki Plant:

Iguma Nonaka.

Lately, with the increase of coal output, the demand for the purest caustic potash used for the safety lamp in the coal mines remarkably increased; and its improvement in quality is a matter of urgency. But potassium chloride which is receivable at present contains some quantity of sodium chloride, and this sodium chloride makes the production of the purest caustic potash impossible by mercury process, and such sorts of materials are not available for the above purpose.

Consequently this plant has planned to refine potassium chloride urgently and supply articles of good quality for the welfare of our peoples by making use of the part of equipment designated except reparation machines.

Regarding to the equipment, I wish to use the part of building in which the 1st Brine Purification Equipment was installed; and details, of machines to be conveyed in and building to be used, are shown in the enclosed paper.

I, hereby heartily beg of you to grant my application.

(Sgd) Shuzo Ishige.

Title: For Master of Fushiki Plant.

Authorize the above application (not authorize).

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

List of Machine

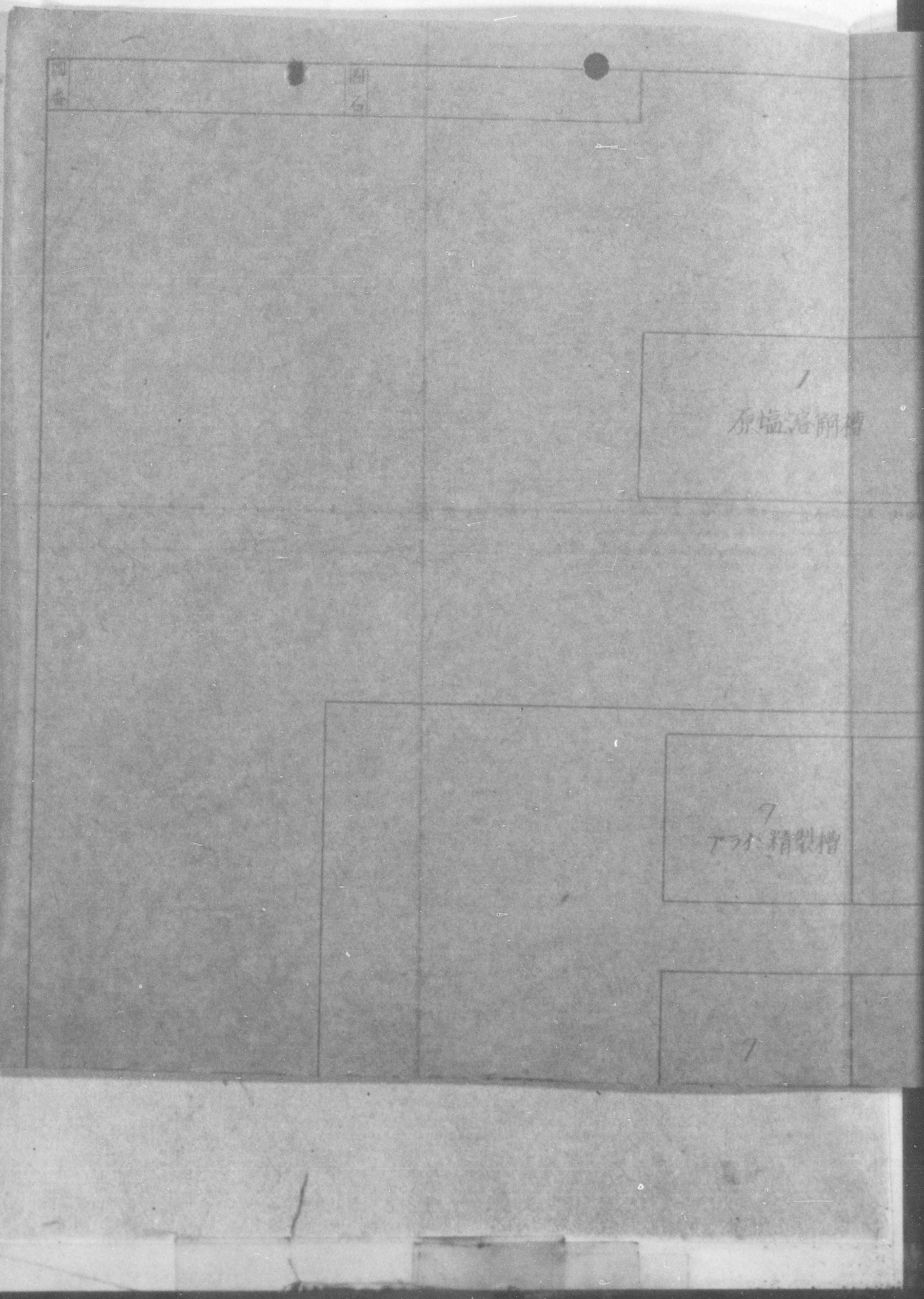
Name	Unit	Capacity	Remarks
Dissolving tank	2	6 m.^{3}x10m.^{2} with coil	Trichlen reaction tank agitator
Crysterizer	2	5 ₹/day 25 r.p.m.	1 unit divert cover of agitator(new)
Reducing gear	2	1:60 worm gear	salt screw conveyer common bed (new)
Sirocco fan	2	60m.^{3}/min.x1,000	KCl crysterizer fan
Centrifugal separator	1	30" dia.x900	Ba Cl_2 centrifugal separator
Mother liquor tank	1	11 m.^{3}	Former CCl_4 still
Motor	9	10 H.P.x1,200 1	use shafting
		3 H.P.x1,800 2	use reducing gear
		2 H.P.x1,800 2	use fan
		5 H.P.x 900 1	use centrifugal separator
		2 H.P.x1,200 1	use leak liquid pump
		2 H.P.x1,300 2	use vertical pump
Shafting	1	50 dia.x4,200	Pulley bleaching-powder scrap bearing (new) V pulley (new)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013



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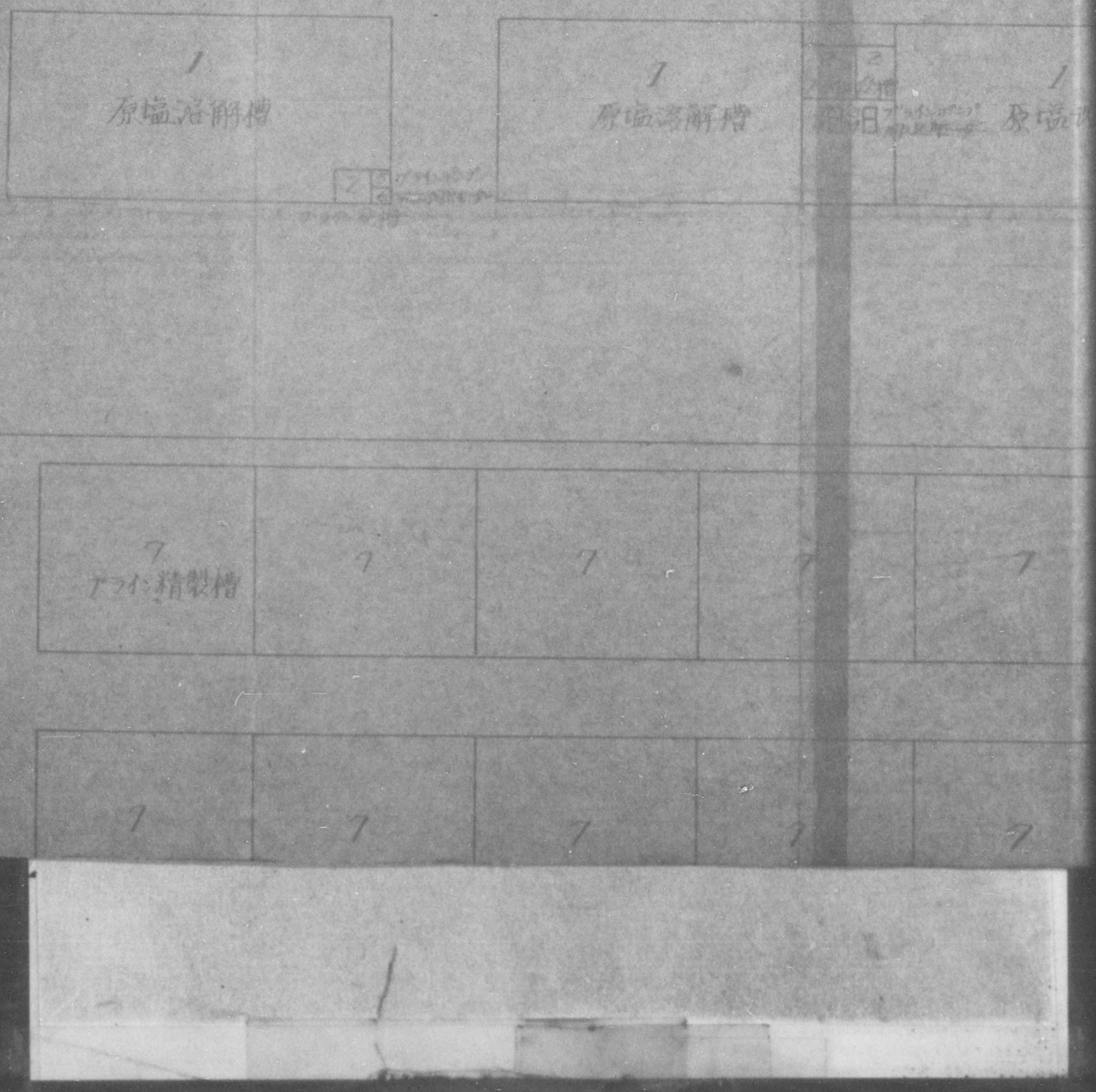

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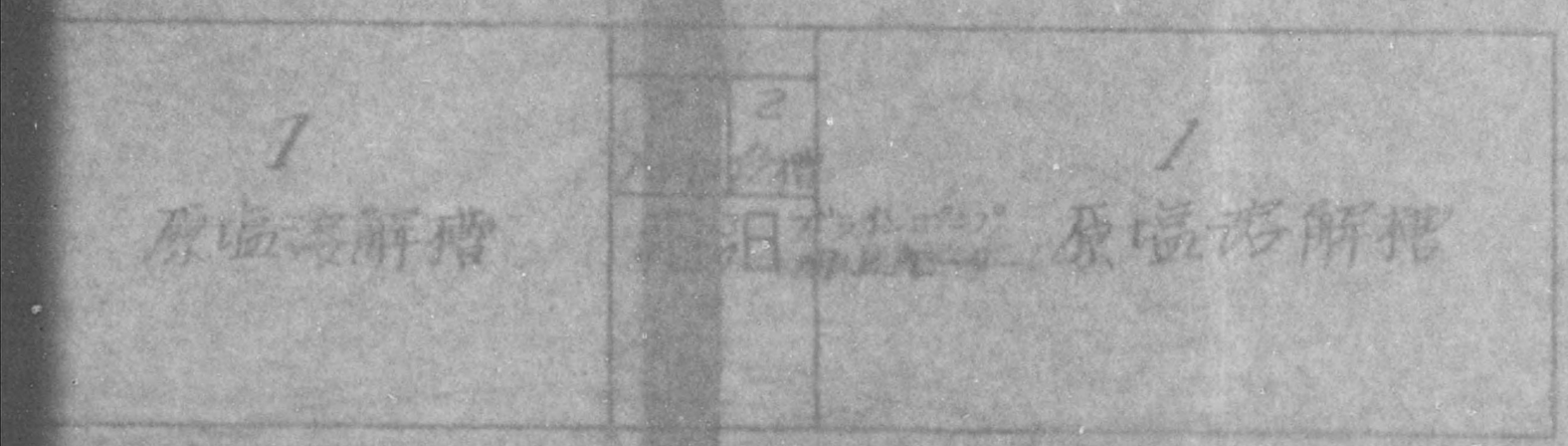

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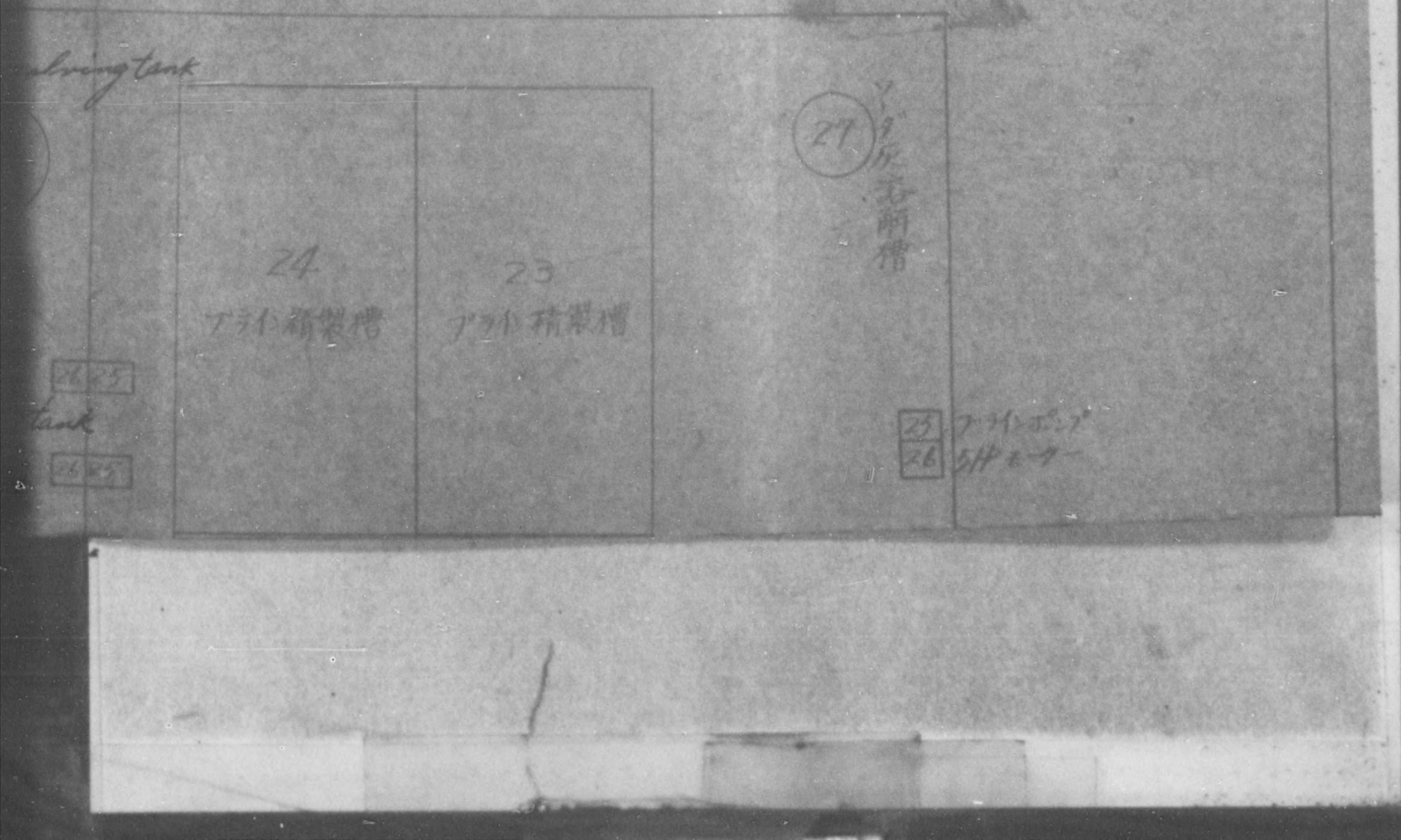

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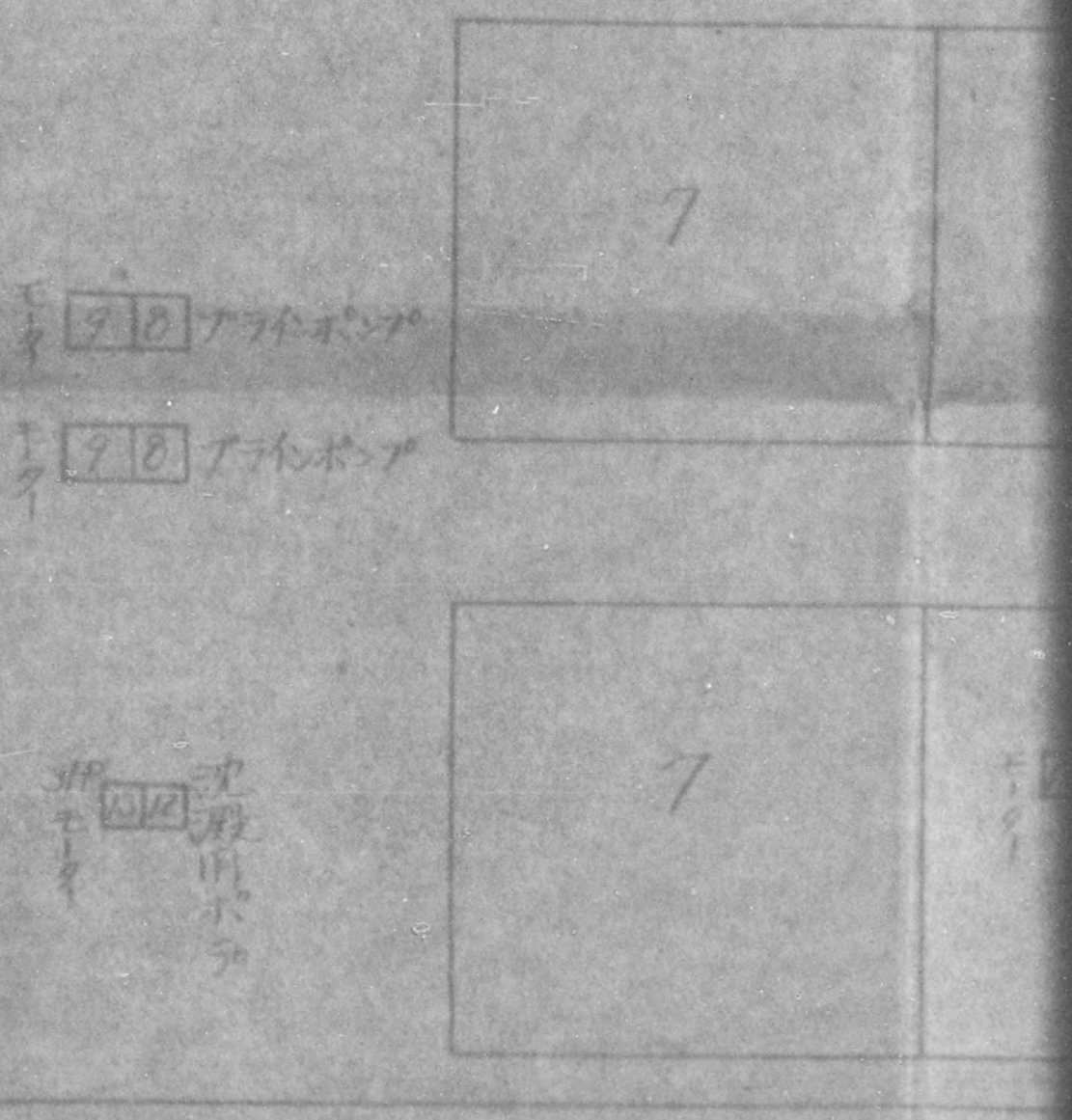

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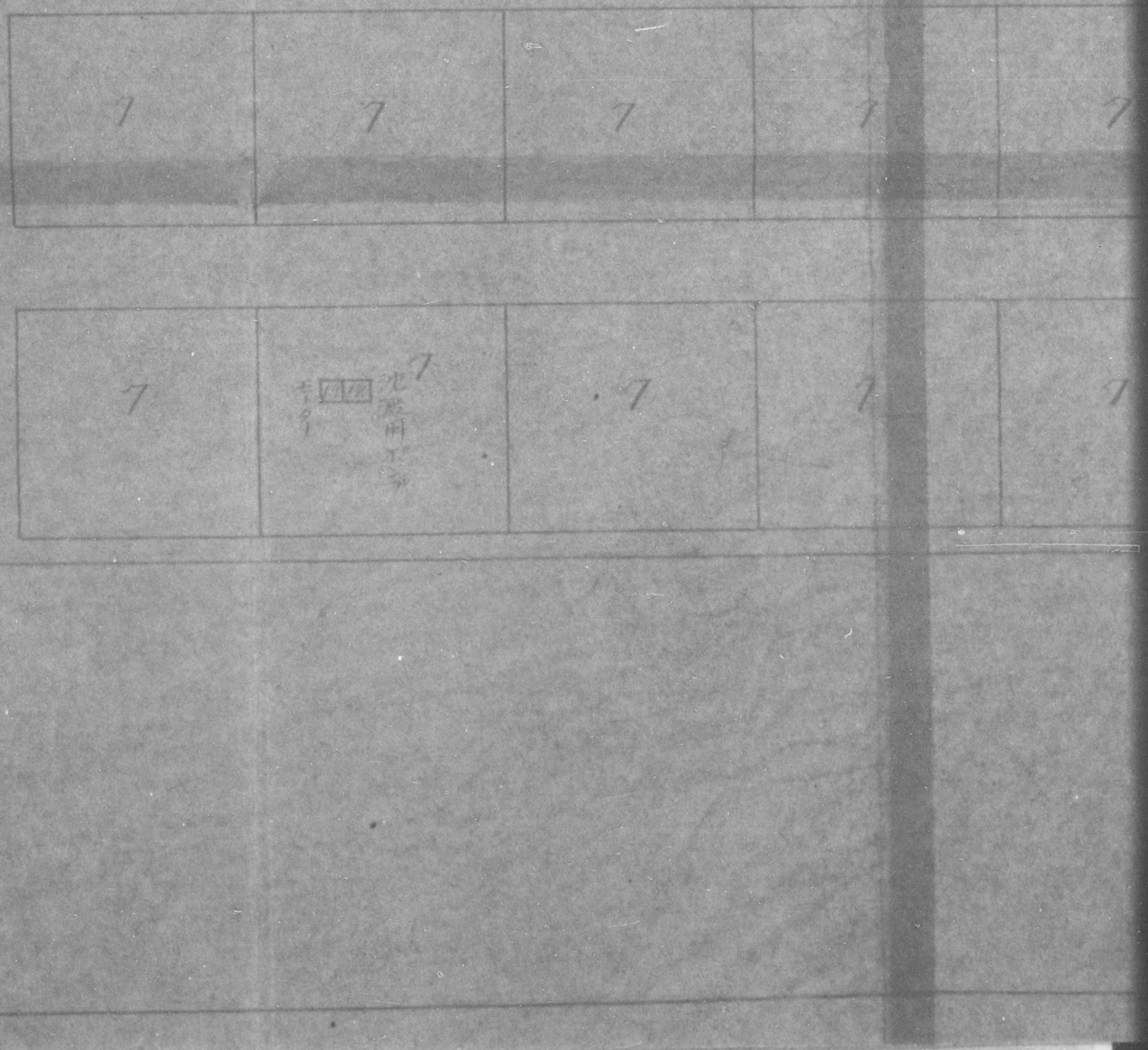

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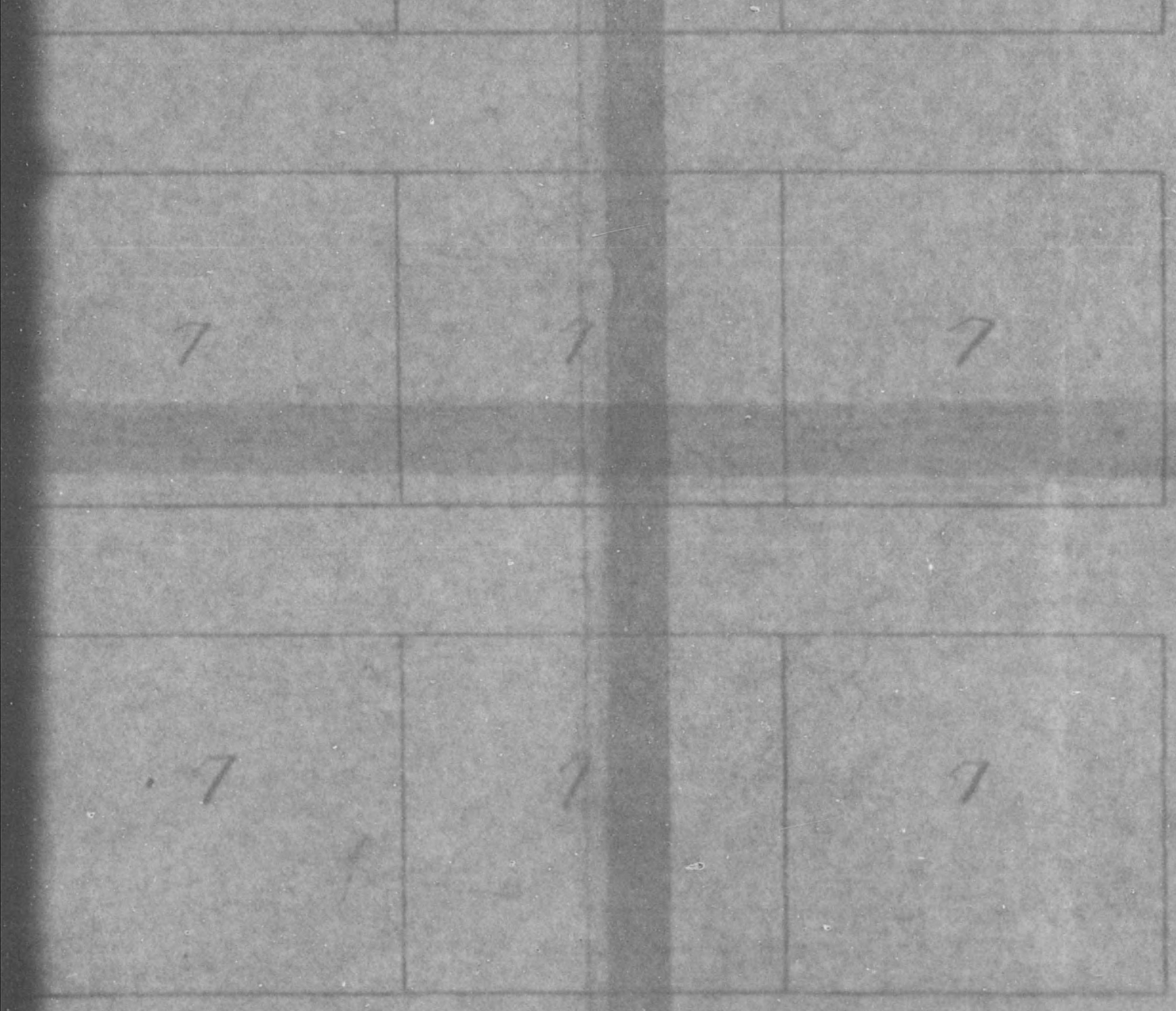

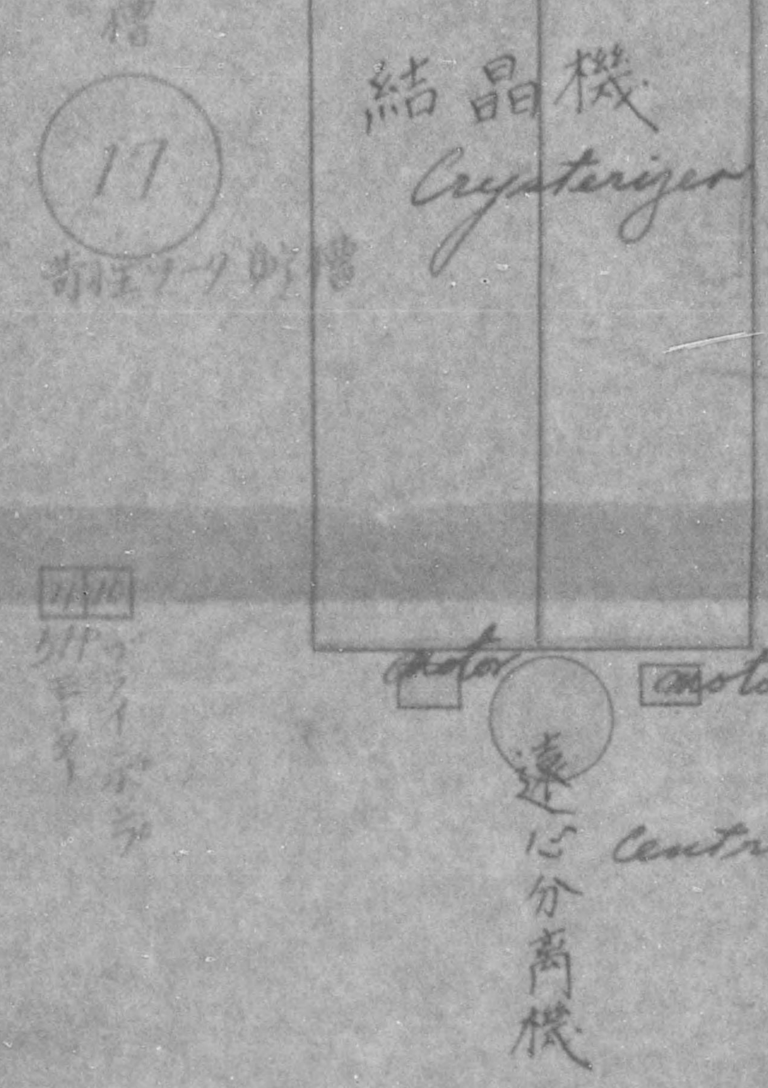

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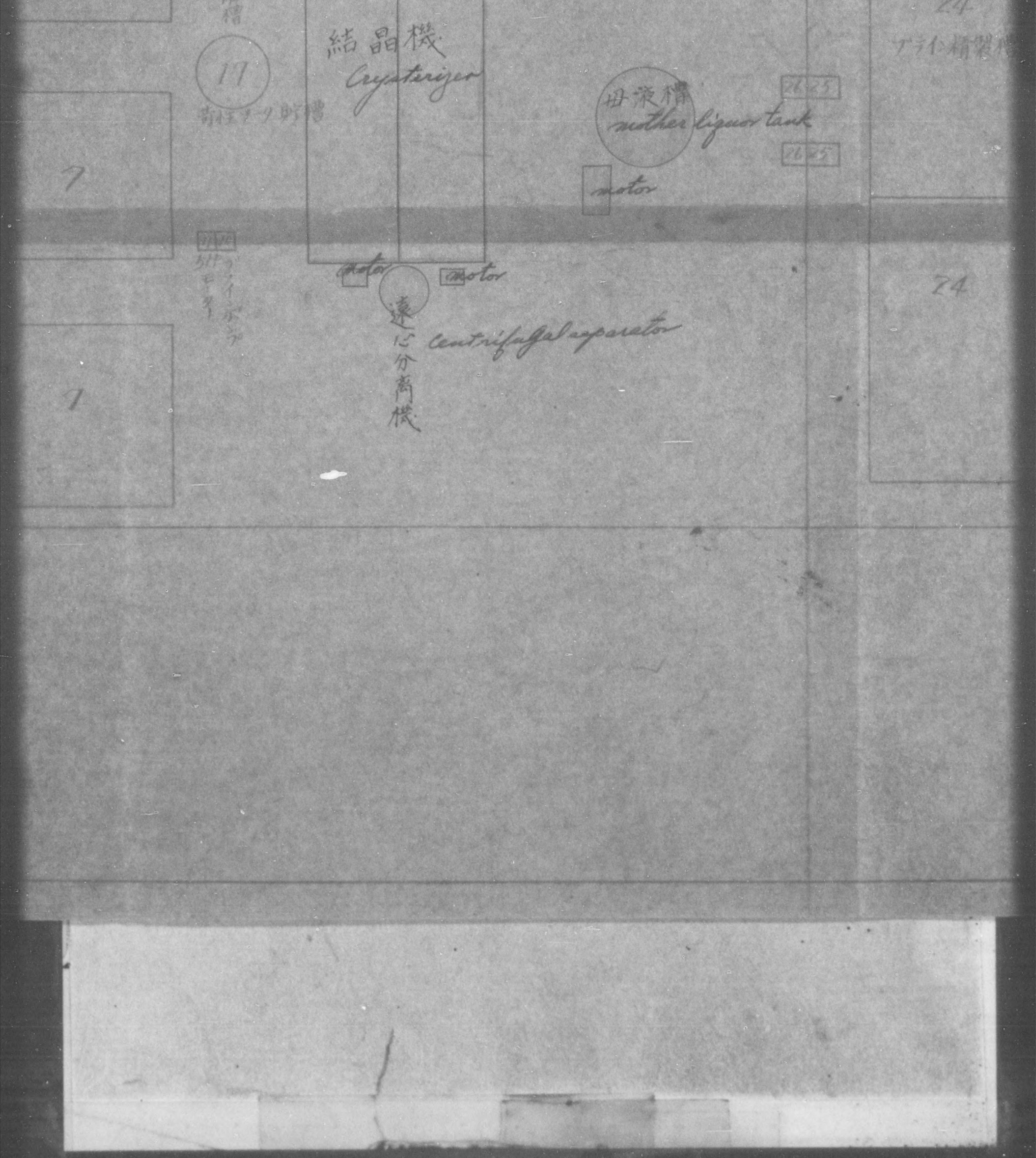

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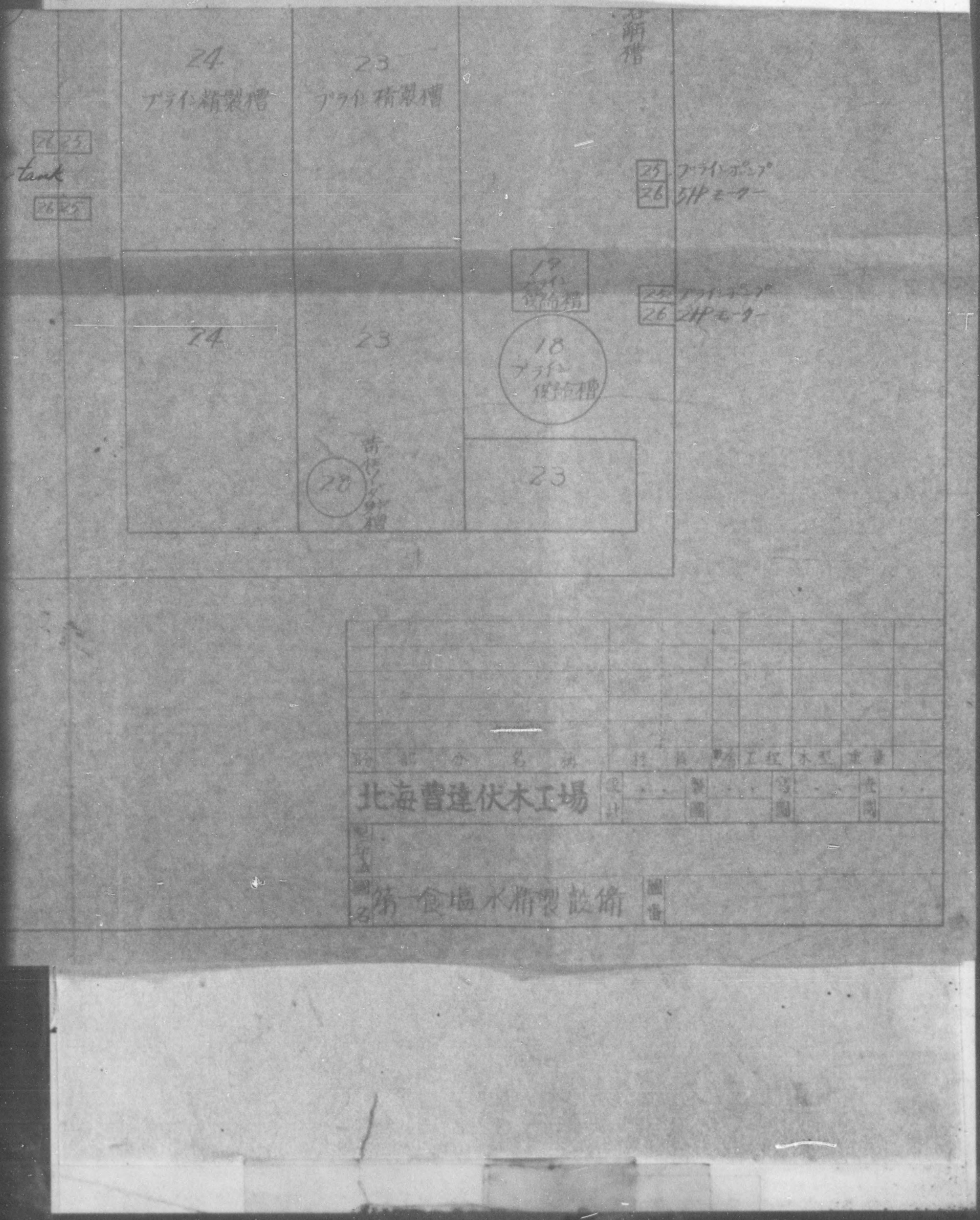

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 713

16 September 1947

SUBJECT: Exemption of Registered Material

TO : Commanding General, Eighth Army, APO 343
ATTENTION: Military Government Section

1. In compliance with GO 89, Hq Eighth Army, dated 20 November 1947 the reparations plant materials of the Toa Gosei Kagaku Kogyo Co. were registered as directed.

2. The inventory of subject material was taken by the Nippon Construction Industry Controlling Association, and through their error several items of equipment inventoried for reparations were also included in the registration.

3. The enclosed application gives the names and code numbers of the items of equipment designed for reparation which were erroneously registered under provisions of GO 89.

4. It is requested by this headquarters that these items of equipment be excluded from registration to avoid confusion in case of the removal of these items through reparations.

FOR THE COMMANDING OFFICER:

/s/ Virgil L. Cordell
/t/ VIRGIL L. CORDELL
Captain, AC
Executive Officer

1 Incl:
Five (5) copies of
Exclusion Application
for Registered Materials

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

BASIC: Ltr, Hq Toyama Mil Govt Team, APO 713, dtd 16 Sept 1947
Subj: "Exemption of Registered Material"

1st Ind

Hq Tokai-Hokuriky Mil Govt Region, APO 710, 20 September 1947

TO: CG, Hq I Corps, APO 301
(ATTN: Mil Govt Section)

This headquarters recommends that the items of equipment inventoried under the direction of O D 89 as listed on Incl. 1 herewith, be withdrawn from the O D 89 list, as subject equipment is listed for reparations claim under Code Number 22-25A.

FOR THE COMMANDING OFFICER:

/s/ Frank M. Wilkins
/t/ FRANK M. WILKINS
Maj, FA
Adjutant

1 Incl:
n/c
1 cc w/d

AG 004 - BA 2nd Ind EHN/abh/tn

Hq I Corps, APO 301,

TO: CG, Eighth Army, APO 343

1. Inclosure to basic communication indicates that transformers, motors, and boilers inventoried for reparations, have been registered as available for procurement by the General Contractor's Association.

2. It is recommended that subject items be deleted from the list of stockpiled materials available for procurement.

FOR THE COMMANDING GENERAL:

/s/ O. H. Schmidt
/t/ O. H. SCHMIDT
Major AGD
Asst Adj Gen

1 Incl:
n/c

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

NND

BASIC: Ltr, Hq Toyama Mil Govt Team, APO 713, dtd 16 Sept 1947
Subj: "Exemption of Registered Material"

1st Ind

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 20 September 1947

TO: CG, Hq I Corps, APO 301
(ATTN: Mil Govt Section)

4137

This headquarters recommends that the items of equipment inventoried under the direction of O D 89 as listed on Incl. 1 herewith, be withdrawn from the O D 89 list, as subject equipment is listed for reparations claim under Code Number 22-25A.

FOR THE COMMANDING OFFICER:

Frank M. Wilkins

FRANK M. WILKINS
Maj, FA
Adjutant

B-716

HQ. I CORPS
AG 004

1 Incl:
n/c
1 cc w/d

AG 004 - BA 2nd Ind EMN/abh/tn

Hq I Corps, APO 301, 24 SEP 1947

TO: CG, Eighth Army, APO 343

1. Inclosure to basic communication indicates that transformers, motors, and boilers inventoried for reparations, have been registered as available for procurement by the General Contractor's Association.

2. It is recommended that subject items be deleted from the list of stockpiled materials available for procurement.

FOR THE COMMANDING GENERAL:

O H Schmidt

O. H. SCHMIDT
MAJOR, AGD
ASST. ADJ. GEN.

1 Incl:
n/c

61017 1194 20 SEP 1947

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 713

16 September 1947

SUBJECT: Exemption of Registered Material

TO : Commanding General, Eighth Army, APO 343
ATTENTION: Military Government Section

1. In compliance with CD 89, Hq Eighth Army, dated 20 November 1947 the reparations plant materials of the Toa Gosei Kagaku Kogyo Co. were registered as directed.

2. The inventory of subject material was taken by the Nippon Construction Industry Controlling Association, and through their error several items of equipment inventoried for reparations were also included in the registration.

3. The enclosed application gives the names and code numbers of the items of equipment designed for reparation which were erroneously registered under provisions of CD 89.

4. It is requested by this headquarters that these items of equipment be excluded from registration to avoid confusion in case of the removal of these items through reparations.

FOR THE COMMANDING OFFICER:

Virgil Cordell

VIRGIL L. CORDELL
Captain, AC
Executive Officer

1 Incl:
Five (5) copies of
Exclusion Application
for Registered Materials

1194

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Toa Gosei

TOA GOSEI KAGAKU KOGYO CO., LTD.
FUSHIKI PLANT.

Date, Aug. 25, 1947.

To : Commanding Officer of Toyama Mil. Govt. Team.

Thru : Toyama Prefectural Office.

Subject: Report of Mercury theft in Fushiki Plant.

Kikuo Nakayama, one of the workmen of the Construction Section, was in conspiracy with Toshiji Makino, the workman of MR Works of The First Manufacturing Section, stole mercury totalling 10,110 gr. from the electrolytic equipment of mercury system (MR Works) to which Makino's post belongs on 19th of this month. They were arrested by the policeman of the Fushiki Harbour Police-Office when they were just in the course of carrying away.

At the Police-office, they confessed that they drew out above mercury from the storage tank prepared for the supply of mercury in the cell. After the minute investigation on the scene, found out that there left marks in the tank, and moreover the analysis of the stolen mercury proved that no alkali was contained in it. (Mercury in the cell contains alkali).

Judging from these results, I believe that their confession is true and mercury in question was drawn from the above storage tank. Besides, when I investigated the quantity of mercury in the other mercury storage tank, no change in quantity was recognized; therefore, it is certain that their theft was only this time but no more. Though the stolen mercury was sent to the Takaoka Prosecutors' Office by the Fushiki Harbour Police-office together with these convicts as an evidence, yet they gave their words that this mercury totalling 10,110 gr. deserves to be restored to this plant after the examination in the law-court is finished.

As I stated, the theft case with mercury occured for the first time in this plant and really have not experienced before, and moreover it is certain that mercury was drawn out from the storage tank, not from the electrolytic cell, and the mercury in question is rightly restored to this plant before long.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

I, hereby, heartily beg for your understanding.

Sign: Shuzo Ishige.

Title: For Master of Fushiki Plant.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

(39) - 2378

Toa Gosei, Fushiki Plant

INVENTORY FOR CAUSTIC SODA PLANT

Date, April 17th, 1947.

Name of Company Toa Gosei Kagaku Kogyo Co.,Ltd. Related SCAPIN No.1129

Name of Plant Fushiki Plant Code No. 48-9

Address of Plant No.90, Fushiki-Shinshima, Takaoka city, Toyama Pref.

	Number Marked
I. Chemical Manufacturing	102
A. Equipment	102
1. Electrolytic cells	74
2. Evaporators for caustic	1
3. All other equipment used for manufacturing caustic soda (except that listed below)	27
II. Electrical Machinery and Apparatus	95
A. Electrical Rotating Equipment	23
1. Generators	-
2. Motors	16
3. Motor generators	3
4. Frequency changers	-
5. Converters and inverters	4
6. Generator sets (direct coupled to prime mover)	-
B. Primary Electric Power Transmission and Distribution	72
1. Transformers	30
2. Switches	42

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

INVENTORY FOR CAUSTIC SODA PLANTS

Date, April 17th, 1947.

Name of Company Toa Gosei Kagaku Kogyo Co.,Ltd. Related SCAPIN No. 1129

Name of Plant Fushiki Plant Code No. 42-9

Address of Plant No.90, Fushiki-Shinahima, Takaoka city, Toyama Pref.

	Number Marked
II. General Purpose Industrial Machinery and Equipment	63
A. Engines, Turbines and Boilers	4
1. Steam engines	-
2. Steam turbines	-
3. Boilers power	4
4. Internal combustion engines	-
B. Compressors and Pumps	59
1. Compressors and dry vacuum	7
2. Pumps	52

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

TOA GOSEI KAGAKU KOGYO CO., LTD.
FUSHIKI PLANT.

List of Machines Classification

Code No.		Item	Class A	Class B	Class Total	C	Grand total
I.A.1.	1-74	Electrolytic cells	-	74	74	320	394
I.A.2.	1	Evaporators for caustic	-	1	1	-	1
I.A.3.	1-26	All other equipment used for manufacturing caustic soda (except that list below)	-	26 (1)	26 (1)	117 (4)	143 (5)
II.A.2.	1-16	Motors	1	15	16	4	20
II.A.3.	1-3	Motor generators	-	3 (2)	3 (2)	- -	3 (2)
II.A.5.	1-4	Converters and inverters	2 (2)	2 (2)	4 (4)	-	4 (4)
II.B.1.	1-30	Transformers	25	5	30	-	30
II.B.2.	1-42	Switches	37	5	42	-	42
III.A.3.	1-4	Boilers, power	-	4 (4)	4 (4)	- -	4 (4)
III.B.1.	1-7	Compressors and dry vacuum	1 -	6 (4)	7 (4)	- -	7 (4)
III.B.2.	1-51	Pumps	2 (2)	49 (46)	51 (48)	12 (12)	63 (60)
		Total	68 (4)	190 (58)	258 (63)	453 (16)	711 (79)
		Number of Machines, not corresponding to reparation machines					105 (7)
		Grand total					816 (86)

Note: Number in ( ) shows the number of accessory machines registered in the principal machine.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

A. - Machines directly serviceable.

B. - Machines economically repairable.

C. - Machines economically unable to repair, or unable to remove.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

TOA GOSEI KAGAKU KOGYO CO., LTD.
FUSHIKI PLANT.

List of Machines Registered in the Inventory

(1)

Code No.		Item	Class A	Class B	Total	Accessory machine
I.A.1.	1-74	Electrolytic cell	-	74	74	
I.A.2.	1	Double effect vacuum evaporator	-	1	1	
I.A.3.	1	Air receiver	-	1	1	
	2	Elevator	-	1	1	
	3	Reducing machine for the elevator	-	1	1	
	4	Screw conveyer (downstairs)		1	1	5 HP motor 1
	5	Reducing machine for the screw conveyer	-	1	1	
	6	Air receiver	-	1	1	
	7	Soda ash dissolving tank	-	1	1	
	8	Caustic liquor storage	-	1	1	
	9	Weak caustic preheater	-	1	1	
	10	Condenser	-	1	1	
	11-13	Strong caustic liquor cooler	-	3	3	
	14-15	Preheating kettle	-	2	2	
	16-19	Caustic fusion kettle	-	4	4	
	20-21	Caustic soda storage	-	2	2	
	22	Travelling hoist	-	1	1	
	23	Caustic soda receiver	-	2	1	
	24-25	Caustic soda receiver	-	2	2	
	26	Travelling hoist	-	1	1	
		I.A.3. Total	-	26	26	

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Code No.		Item	Class A	Class B	Total	Accessory machine
II.A.2.	1-2	Motor for the cell	-	2	2	
	3-4	Motor for the chlorine gas blower	-	2	2	
	5	Motor for the hydrogen gas blower	-	1	1	
	6-7	Chlorine gas blower motor	-	2	2	
	8-10	Geared motor for the cell	-	3	3	
	11-12	Chlorine gas blower motor	-	2	2	
	13	25 HP motor	1	-	1	
	14	5 HP motor	-	1	1	
	15-16	30 HP motor	-	2	2	
		II.A.2. Total	1	15	16	
II.A.3.	1-3	Motor generator	-	3	3	Armature 1 Exciter 1
II.A.5.	1-4	Rotary converter	2	2	4	Induction voltage regulator 4
II.B.1	1-3	Transformer 75 KVA	3	-	3	
	4	- " - 35 "	1	-	1	
	5-7	- " - 1548 "	3	-	3	
	8	- " - 750 "	1	-	1	
	9	- " - 38 "	-	1	1	
	10-12	- " - 75 "	3	-	3	

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Code No.		Item	Class A	Class B	Total	Accessory machine
II.B.1.	13-15	Transformer 75 KVA.	3	-	3	
	16	" 36 "	1	-	1	
	17	" 35 "	1	-	1	
	18-19	" 5 "	2	-	2	
	20-23	" 480 "	-	4	4	
	24-26	" 1500 "	3	-	3	
	27-30	" 1000 "	4	-	4	
		II.B.1. Total	25	5	30	
II.B.2.	1-3	Switch 15-6 K side	3	-	3	
	4-6	" 15-6 G "	3	-	3	
	7	" 75T-H.T.	1	-	1	
	8	" 35T-H.T.	1	-	1	
	9	" L.T.-Motor	1	-	1	
	10	" " -Lamp	1	-	1	
	11	" V.H.M.	1	-	1	
	12-14	" 1320 K H.T.	3	-	3	
	15	" 720 K H.T.	1	-	1	
	16	" " Start	1	-	1	
	17-19	" 1320K D.C.	3	-	3	
	20	" 720 K D.C.	1	-	1	
	21-23	" 1320K A.C.B.	3	-	3	
	24	" 720K A.C.B.	1	-	1	

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Code No.		Item	Class A	Class B	Total	Accessory machine
II.B.2.	26-27	Switch 1320K L.S.	3	-	3	
	28	" 720K L.S.	1	-	1	
	29	" 75-35 T-H.T.(Mk)	1	-	1	
	30	" 35T-H.T.	1	-	1	
	31	" L.T.-Motor(Mk)	1	-	1	
	32	" L.T.-Lamp(Mk)	1	-	1	
	33-34	" L.T.-Motor	-	2	2	
	35	" S.H.M.	-	1	1	
	36	" S.H.T.-C.C.B.	1	-	1	
	37	" H.T.-Main	-	1	1	
	38	" S.H.T.-C.C.B.	1	-	1	
	39	" Branch C.C.B.	-	1	1	
	40	" H.T.-Main 2	1	-	1	
	41	" H.T.-Main 1	1	-	1	
	42	" 75T.-H.T.	1	-	1	
		II.B.2. Total	37	5	42	
III.A.3.	1-2	Lancashire boiler	-	2	2	Venis stokers 2
	3-4	- " -	-	2	2	Uhui's stokers 2
		III.A.3. Total	-	4	4	

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Code No.		Item	Class A	Class B	Total	Accessory machine	
III.B.1.	1-2	Air compressor	-	2	2	20HP motor 10HP "	1 1
	3	Vacuum pump	-	1	1	20HP "	1
	4	Air compressor	-	1	1	10HP "	1
	5	- " -	-	1	1		
	6	Rotary ammonia compressor	1	-	1		
	7	Vertical ammonia compressor	-	1	1		
		III.B.1. Total	1	6	7		
III.B.2.	1-2	Brine pump	-	2	2	3HP motor	2
	3-4	- " -	-	2	2	10HP "	2
	5-6	Pump for the mud	-	2	2	3HP motor 5 HP "	1 1
	7	Pump for the soda ash liquor	-	1	1	2HP motor (damaged)	1
	8-11	Brine pump	-	4	4	2HP motor 5HP " (damaged)	2 2
	12-13	Pump for the saturation tank	-	2	2	15HP motor	2
	14	Soda ash liquor pump	-	1	1	2HP motor	1
	15	Brine pump	-	1	1	6HP motor	1
	16	- " -	-	1	1	" "	1
	17	Pump for the mud	-	1	1	" "	1

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Code No.		Item	Qty A	Qty B	Qty Total	Accessory machine
III.3.2.	18	Weak caustic liquor pump	-	1	1	2HP motor 1
	19-21	Weak caustic liquor feed pump	-	3	3	3HP motor 1 3HP motor 2 (damaged)
	22-23	Drain pump	-	2	2	3HP motor 1 1HP motor 1
	24-25	Feed water pump	-	2	2	10HP " 2
	26	Drain pump	-	1	1	2HP " 1
	27	Strong caustic liquor pump	-	1	1	3HP " 1 (damaged)
	28-29	Washing solution pump	-	2	2	3HP motor 2 (one of them damaged)
	30	Recovered liquor pump	-	1	1	2HP motor 1 (damaged)
	31-32	Brine pump	-	2	2	5HP motor 1 3.2KW motor (damaged)
	33	Caustic soda pump	-	1	1	0.9 KW motor 1
	34	Water feeding pump	-	1	1	2HP motor 1
	35	- " -	-	12	1	" " 1
	36	Caustic soda pump	-	1	1	" " 1
	37	Caustic soda pump dia.76mm.	-	1	1	7.5HP motor 1
	38-41	Brine pump (C), (E)	-	4	4	15HP " 4

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Code No.		Item	Class A	Class B	Total	Accessory machine
III.B.2.	42	Caustic soda pump	-	1	1	2 HP motor 1
	43	Sulphuric acid pump	-	1	1	" " 1
	44	Sulphuric acid feeding pump	-	1	1	" " 1
	45	Water feeding pump	-	1	1	" " 1
	46	Hydrochloric acid pump	-	1	1	" " 1
	47-48	2" Turbine pump	2	-	2	" " 2
	49	Washington pump	-	1	1	
	50	Water feed pump	-	1	1	
	51	Brine pump	-	1	1	
		III.B.2. Total	2	49	51	
		Grand total	68	190	258	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

TOA GOSEI KAGAKU KOGYO CO., LTD.
FUSHIKI PLANT

List of Machines, Not-Registered in the Inventory

Item	No. of machine	Note
Soda ash dissolving tank	3	Entirely corroded and economically unable to repair.
Caustic soda storage	1	Lot of damaged places.
Brine pump	1	Entirely damaged.
Brine pump	1	Rotation parts entirely damaged.
Raw salt dissolving tank	3	Reinforced concrete and unable to remove.
Brine receiver	3	- " -
Brine purification tank	15	- " -
Brine feed tank	1	- " -
Caustic soda storage	1	Inside frailed much by caustic soda.
Brine feed tank	1	Wooden made, unable to remove.
Brine purification tank	5	Reinforced concrete, unable to remove.
Screw conveyer (upstairs)	1	Entirely corroded, economically unable to repair.
Pumps for the saturation tank	2	Case, runner, inner ebonite, much corroded.
Recovered brine pump	1	Entirely corroded, economically unable to repair.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Item	No. of machine	Note
Saturation tank	2	Reinforced concrete, unable to remove.
Brine purification tank	5	- " -
Recovered brine storage	1	- " -
Vertical diaphragm cell	257	Entirely corroded, economically unable to repair.
Cl_2 gas blower motor	2	Coil needs entirely rolling up afresh, economically unable to repair.
Weak caustic storage	3	Reinforced concrete, unable to remove.
Washing solution tank	3	Inner side frailed much by caustic soda.
Drain storage	1	Entirely much corroded.
Drain receiver	1	- " -
Weak caustic liquor storage	1	Frailed much by caustic soda, unable to assemble.
High level water storage	1	Reinforced concrete made, unable to remove.
Strong caustic liquor storage	4	Frailed much by caustic soda, unable to assemble.
Recovered liquor tank	1	Reinforced concrete, unable to remove.
Strong caustic liquor storage	1	Corroded, much frailed by caustic soda.
Furnace for the fusion kettle	4	Built of brick, unable to remove.

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Item	No. of machine	Note
Coal sender	4	Only remains burnt out motor and no other parts.
Mercury process cell	6	No mercury and electrode.
Coal tar tank for the graphite electrode	2	Bottom damaged much.
Brine recovering pump	1	Runner and inner case damaged.
Brine tank (B), (C), (D), (E)	7	Reinforced concrete, unable to remove.
Brine purification tank	4	- " -
Kettle for the joint mud of cell	1	Entirely much corroded and damaged much.
Washing tank for the secondary electrode	1	- " -
Tank for the mercury dregs	1	Entirely corroded and lot of holes.
Feed water tank	1	Entirely corroded and damaged.
Brine pump	1	Ebonite lining case, runner much damaged.
Mercury process cell	46	No mercury and electrode.
Secondary graphite washing tank	2	Decayed and unable to use.
Travelling hoist	2	No chain block.
Brine pump	4	Ebonite lining runner, case, damaged.
Brine tank (C),(D),(E)	6	Reinforced concrete, unable to remove.
Geared motor for the cell	2	Cover damaged.
Feed waterturk	2	Entirely corroded and much damaged.

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Item	No. of machine	Note
High level water tank	1	Entirely corroded and much damaged
Caustic liquor storage	4	Decayed and frailed much by caustic soda, unable to assemble.
Electrical hoist	1	Motive equipment corroded and damaged much.
Sulphuric acid pump	1	Case, runner damaged.
Mercury process cell	1	No mercury and electrode.
Feed water tank	2	Decayed and corroded much.
High level water tank	1	- " -
Secondary graphite washing tank	2	- " -
Travelling hoist	1	No chain block.
Coal-tar tank for the electrode	1	Decayed and corroded much.
Kettle for joint mud cell	1	- " -
Brine tank (C),(D),(E)	6	Reinforced concrete, unable to remove.
Caustic soda liquor storage	2	Decayed and corroded by caustic soda, unable to assemble.
Total	453	
	(16)	
Number of machines, not corresponding to reparation machine	106	
	(7)	
Grand total	568	
	(23)	

Note: Number in ( ) shows the number of accessory machines.

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TOA GOSEI KAGAKU KOGYO CO., LTD.
FUSHIKI PLANT.

(R) According to the directives dated Feb. 24, 1947, the limit of chemical plant reparation became clear and accordingly the full names of machines concerning to the reparation equipment of hydrochloric acid, bleaching powder, and liquid chlorine are listed in the attached paper.

(Item)

Name of Equipment	No. of Inventoried machine	No. of Not-Inventoried machine
Bleaching powder equip.	--	22
Liquid chlorine equip.	5	16
Hydrochloric acid equip.	1	83
Total	6	121

Note: Refer to the attached arrangement of machines.

Inventoried machine.

Not-inventoried machine.

(Sgd) K. Shibuya

Title: For Master of Fushiki Plant.

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Serial No.	Name of Equipment and Machinery	No.of unit	Type & Capacity	Maker's name	Code No.
	Bleaching Powder Equip.				
1	Reaction channel	20	Brick W.14.3xL.29xH.6.1m.	Home-made	
2	- " -	1	Lead Size - do -	"	
3	Sieving machine	1	Wooden 2.64xl.65x2.30 m. including 2HP motor	"	
	Total	22			
	Liquid Chlorine Equip.				
4	Charge tank	2	dia.0.64xl,200m/m Steel,Horizontal	Okura Shoji	
5	Air compressor	1	dia.3"x3" 500r/m including 2HP motor	Fuji Denki	III. B.1-5
6	Liq. Cl_2 receiver	2	dia.6'x20' Shell & tube	Okura Shoji	
7	- " -	1	780 m/mx3,640m/m	Home-made	
8	Brine tank	1	4'x2'x30"	Okura Shoji	
9	Brine pump	1	3" Turbine including 5HP motor	"	III.B.2-52
10	Rotary ammonia compressor	1	Filter type 910 r/m 2.8m/m³ including 20HP motor	"	III.B.1-6
11	Inter cooler	1	15"x5'-0"	"	
12	Vertical ammonia compressor	1	Suction 0.5-1 kg/cm. G.P. delivery 10-12kg/cm. 2 cylinder 8"x12" 75 r/m including 40HP motor		III.B.1-7
13	Main blower	2	2" Rash type	Home-made	

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Serial No.	Name of Equipment and Machinery	No.of unit	Type & Capacity	Maker's name	Code No.
14	25HP motor for the Nash blower	1		Shibaura Seisakusho	II.A.2-13
15	Ammonia condencer	1	dia.2"x6.18x17 double tube	Unknown	
16	Liq. NH_3 receiver	1	Steel 13"dia.x8'-0"	Okura Shoji	
17	Brine tank	1	Steel 2'x2'x36"	Home-made	
18	Bomb dryer	1	Brick 7.75 KW	"	
19	Brine cooler	1	Double tube 2"/3"x5.18x7	Okura Shoji	
20	- " -	1	dia.2"x1.83m.x35 Shell tube	"	
21	Chlorine condenser	1	Double tube 2"/3"x5 m.x10 Shell & tube dia.$1\frac{1}{2}$"x2.44m.x14	"	
	Total	21			
	Hydrochloric Acid Equip.				
22	Charcoal oven	3	Hydrogen chloride 1,500kg/day	Home-made	
23	Hydrogen gas oven	4	Hydrogen chloride 2,600kg/day	Unknown	
24	Wolf bottle	68	Acid-proof earthenware	Nippon Gaishi	
25	HCl gas catcher	2	Acid-proof earthenware 0.5m.dia.x3m.	Home-made	
26	Draft tower	1	Acid-proof earthenware 0.46m.diax2.75		

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Serial No.	Name of Equipment and Machinery	No. of unit	Type & Capacity	Maker's name	Code No.
27	Storage tank for hydrochloric acid	3	dia.2m.x0.9m. Steel & rubber lining	Kuroita	
28	Water tank	1	Steel 1.36m.x1.5m.		
29	- " -		Wooden, 1.34m.dia.x1.4m.	Home-made	
30	Water supply pump	1	dia.2" Centrifugal	Unknown	III. s.2-31
	Total	84			
	Grand total	127			

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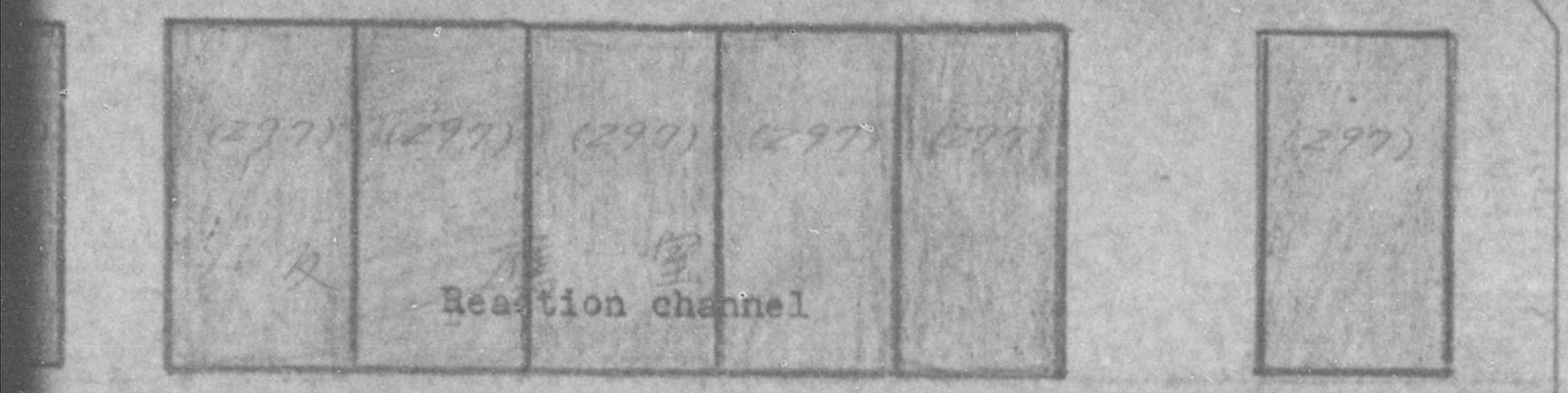
(Lead made	Reaction channel			
298	(297)	(297)	(297)	(297)

Reaction ch		
(297)	(297)	(297)

Reaction channel				
(297)	(297)	(297)	(297)	(297)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013



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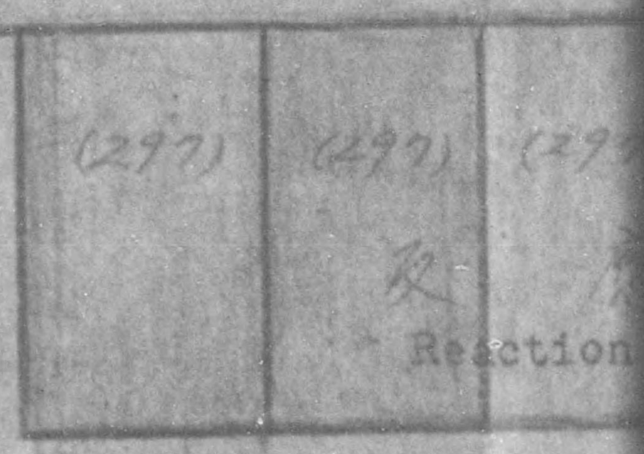

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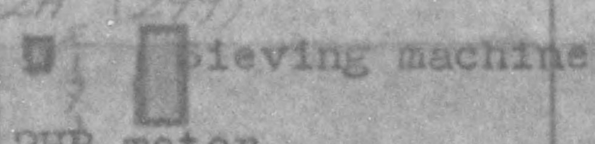

番符	部分名称		打	個/台	工程	木型	重量
北海曹達伏木工場		設計		製図		写図		査閲	
英文名	Arrangement of Bleaching Powder Equipment						
図名	晒粉工場設備図			別番			

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

2HP motor

301 Air compressor

MB/ B-5

Liquid chl

302

Liquid chlorine

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Liquid chlorine receiver

302 液体塩素貯槽

Liquid chlorine receiver

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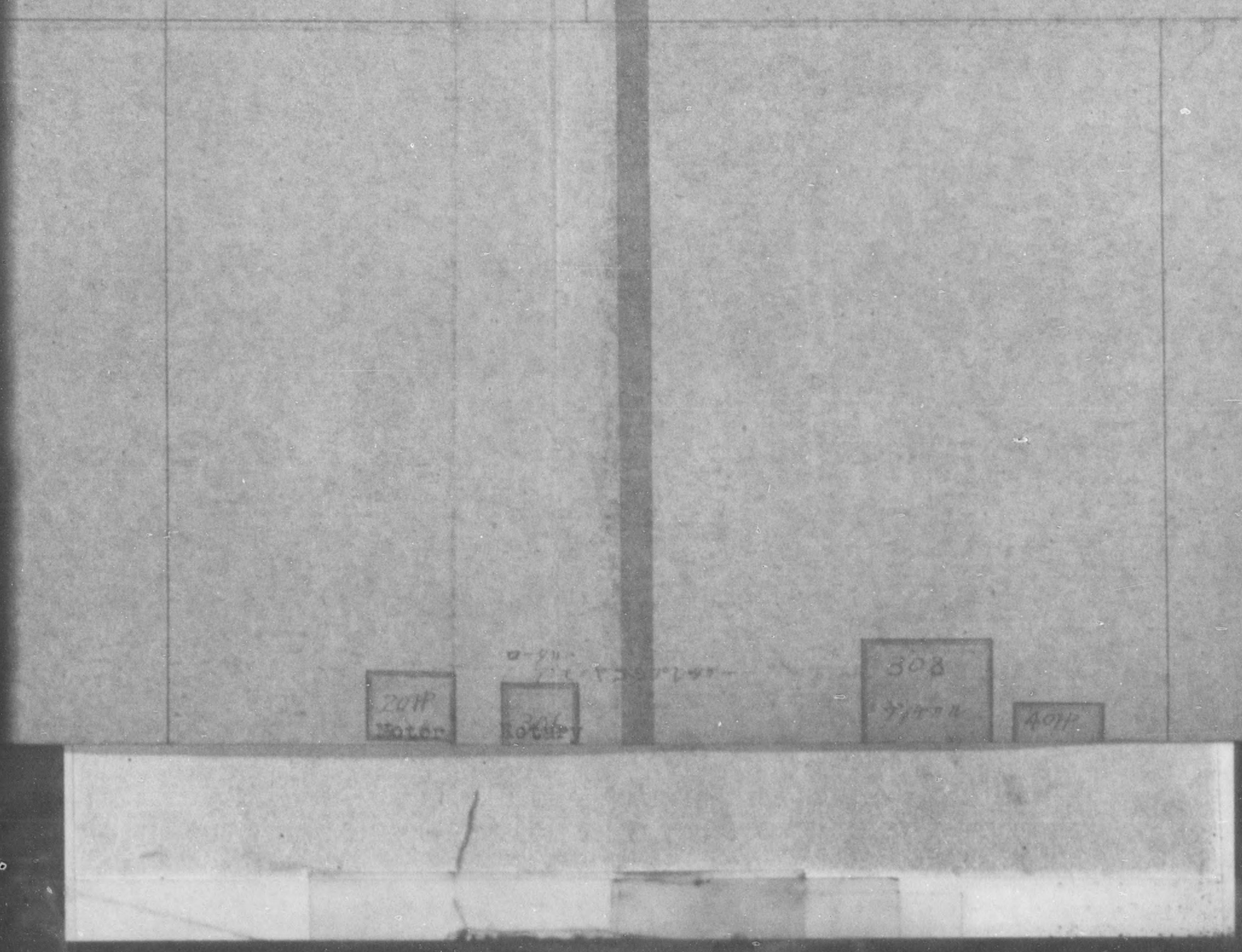

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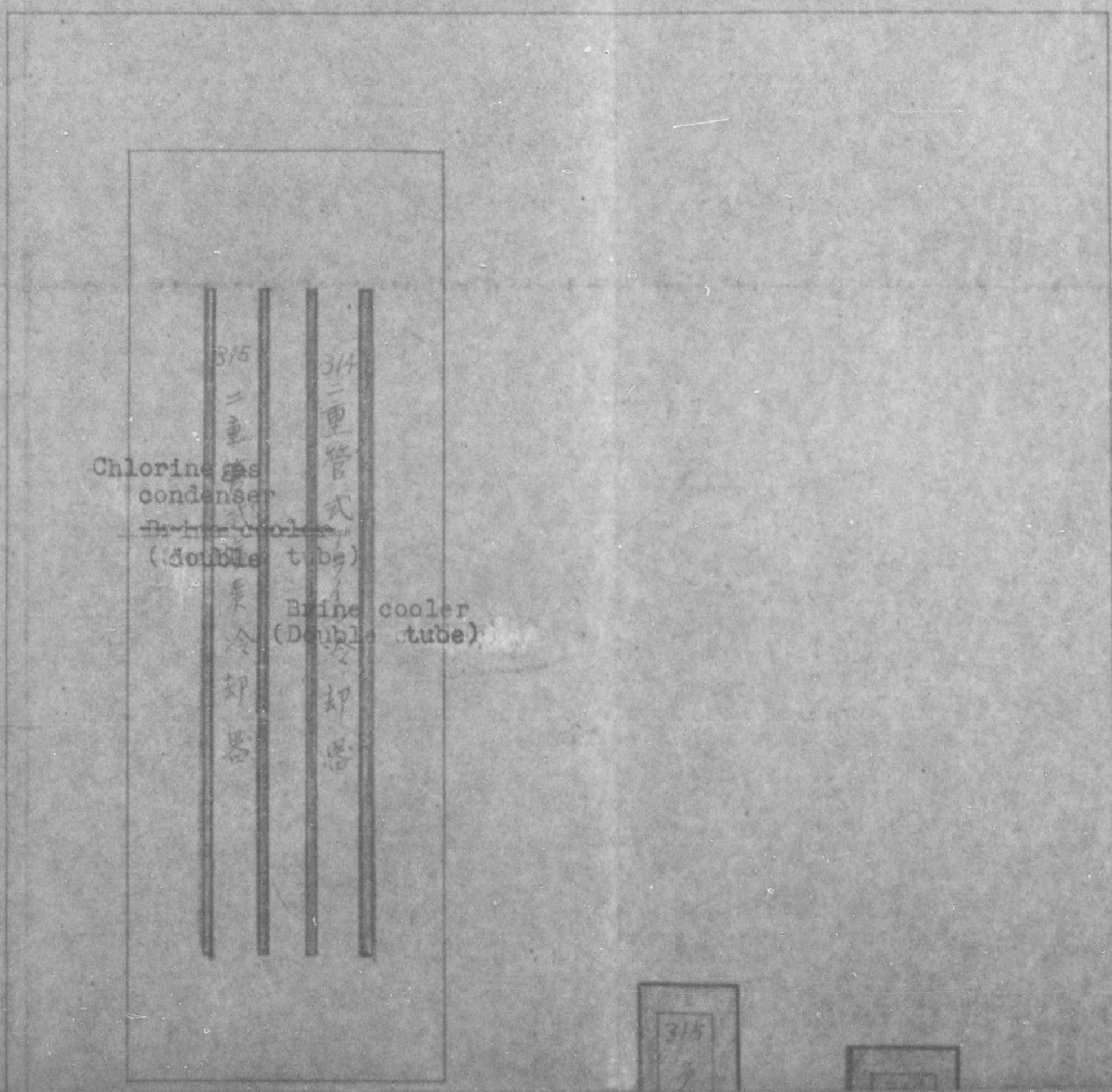
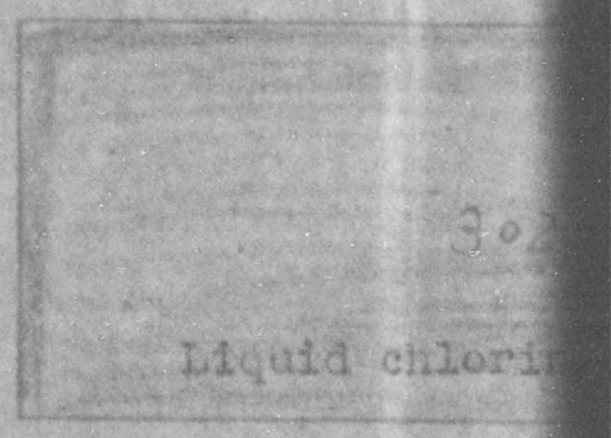
階　上　Upstairs

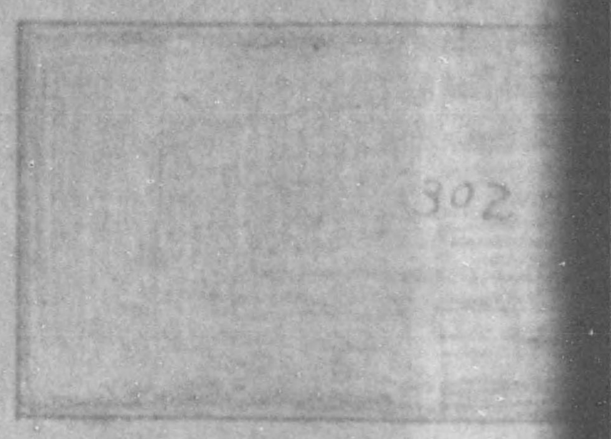


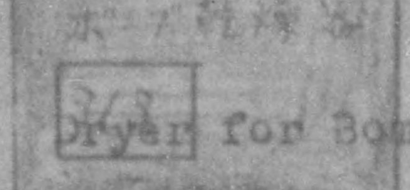
DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

301 Air compressor

IIB/ B-5







DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

302 液体塩素貯槽

Liquid chlorine receiver

302

20H
Motor

ⅢB1 A

305 50H
Motor
Brine pump
ⅢB2 B-52

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

20HP Motor

ロータリー
Rotary
Ammonia compressor

306

ⅢB1 A-6

308
Vertical
ammonia
compressor

40HP Motor

Inner cooler

ⅢB1 B-7

502
Motor

25HP
Motor

ⅢA2 A-

Brine tank

5HP Motor
Brine pump

ⅢB2 B-52

Brine tank

Liquid ammonia receiver

310
Ammonia compressor

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

308
ブライン
ポンプ
Vertical
ammonia
compressor

40HP
Motor

Inner cooler

IIB1 B-7

25HP
Motor

IIA2 A-13

Brine tank

Liquid ammonia receiver

310 アンモニア冷却器
Ammonia compressor