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

GHQ/SCAP Records (RG 331, National Archives and Records Service)

Description of contents

(1) Box no. 2904

(2) Folder title/number: (2)
412.31: Nihon Seitetsu K.K. - Hirohata, Kanegafuchi Boseki - Amagasaki, etc.

(3) Date: Nov. 1946 - Dec. 1950

(4) Subject:

Classification	Type of record
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(5) Item description and comment:
i) Hyogo
ii) Includes Contents List

(6) Reproduction: (Yes) No

(7) Film no. Sheet no.

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

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

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

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

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

Index

Company Correspondences

No.	Date	Subject
	13 Nov 46	Production Tables of Sulphuric Acid & Fertilizer in Ten Years
	1 Dec	Progress Report
	8 Apr 47	Inventory Form for Sulphuric Acid Plants
	14 Apr 47	Inventory Form for Sulphuric Acid Plants
	18 Apr 47	Inventory Form for Sulphuric Acid Plants
	24 Apr 47	Inventory of Sulphuric Acid Plants
		Appendix to Inventory of Kanegafuchi Kogyo - Amagasaki Sulphuric Plant
		" " Nihon Jukagaku Kogyo KK, Amagasaki Plant
	19 May 47	Inventory Form for Sulphuric Acid Plants
		Appendix to Inventory of Kansai Kyusan - Amagasaki Plant
	19 May 47	Inventory Form for Sulphuric Acid Plants
	23 May 47	Revised Inventory of Sulphic Acid Plants
	16 Sept 49	Removal of Non-Reparations Equipment
	11 Nov 50	Report on Disposal of Released Equipment as Melt Down Scrap
	4 Dec 50	Application for Release of Equipment as Melt Down Scrap Kanegafuchi Kogyo KK, 13-79
	27 Dec 50	Application for Release of Equipment as Melt Down Scrap- Nihon Jukagaku Kogyo KK, 13-81

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

891-1d Hyogo
13-81

HEADQUARTERS
KINKI CIVIL AFFAIRS REGION
APO 15 c/o Postmaster San Francisco

RAS/sy

27 December 1950

SUBJECT: Application for Release of Equipment as Melt-Down Scrap - Nihon Jukagaku Kogyo K.K.. 13-81

TO : Chief
Civil Affairs Section
GHQ. SCAP
APO 500

1. Transmitted herewith is an application from Hyogo Prefectural Government requesting release as melt-down scrap of 80 items of equipment at subject plant.

2. Inspection of the installation revealed that all of the equipment applied for is beyond economical repair due to deterioration. Deterioration is principally due to frequent inundation of the plant area over a long period by high tides from Osaka Bay, adjacent to which the plant is situated. Inundation is a frequent occurrence due to subsidence of the ground in the area of the Osaka Bay shoreline. The equipment was further seriously damaged by the typhoon of 3 September 1950. Average age of the items applied for is fifteen years.

3. The only reparations equipment at the installation other than those desired for melt-down are three 300 KVA transformers, inventory numbers IA5-1, 2 and 3, and one 20 KVA transformer, inventory number IA5-4. Although repair of these transformers is economically feasible, their reparations value is questionable due to cost of repairs and the fact that they are more than 12 years old.

4. Release as melt-down scrap of the items listed in inclosure is recommended. Considering that the four transformers mentioned in the preceding paragraph will be the only reparations items remaining at the installation if the equipment listed in inclosure is scrapped, release of the transformers for disposition as desired by the plant management is recommended.

FOR THE CHIEF:

1 Incl:
Application

STERLIN C. MOORE
Major Infantry
Deputy Chief

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

4 Dec 50

Mr. Sussemann

1. Reference attached.

2. In compliance with your instruction, all items listed in the attached were inspected on 2 Dec 50 by Mr. Otani and the undersigned.

3. Survey revealed that all items including all motors were badly deteriated by rust and corrosion. It is believed that these items are economically non-repairable.

4. Recommend release as melt-down scrap.

J. Ito

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

Zussemann

KINKI LIAISON & COORDINATION OFFICE TS/ai

Prefectural Building
OSAKA

30 November 1950

KKLCO No. 793 ER

TO : Chief, Kinki Civil Affairs Region
(ATTN: Commerce & Industry, Economic Section)

SUBJECT: Application for Release of Reparations Machines for Melt-Down Purpose - Nihon Jukagaku Kogyo K.K. ~~(13-83)~~ (13-81)

For your approval.

S. Shima
Director

Incl: Letter from Hyogo Prefectural Government, dated 28 November 1950.

1-154

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

HYOGO PREFECTURAL GOVERNMENT

OFFICE OF GOVERNOR

KOBE, JAPAN.

HPG-528

November 28, 1950

Chief, Headquarters
Kinki Civil Affairs Regioh,
O s a k a.

Through: Kinki Liaison & Coordination Office.

Sir:

Application for Release of Machinery from
Reparations Designation --
Nihon Jukagaku Kogyo K. K. (Code No. ~~13-85~~ 13-81)

We have received from the Nihon Jukagaku Kogyo K.K. (Japan Heavy Chemical Industry Co., Ltd.) the accompanying application, in which you will note that they ask for the release from reparations designation of 80 items in their Main Plant, Code No. 13-8~~5~~1, (which comprise all the machinery and equipment in the Plant except 4 transformers, and of which 53 are inventoried and the remaining 27 non-inventoried) on condition that these items shall be melted down as scrap.

As will be clear from the application, all of these machines and equipment are corroded inside to such an extent that it is not at all worth while to repair them; and, besides, the Plant is not found suitable for the maintenance and custody of the said machinery and equipment on account of its location and other reasons.

Under these circumstances, we consider it proper to dispose of the machinery, etc. in question by melting them down as scrap. We would, therefore, ask you kindly to give the matter your favorable consideration and see fit to let the Company have your approval of their present application.

Yours truly,
FOR THE GOVERNOR:

Yoshio Satoh,
Chief,
Foreign Affairs Section.

Encls.

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

APPLICATION FOR RELEASE OF REPARATION DESIGNATED MACHINERY AND EQUIPMENT

Date: 24 November 1950

TO : Governor, Hyogo Prefecture

FROM: Nihon Jukagaku Kogyo K.K.
Address: 14, Minami Hatsushima-cho, Amagasaki-shi

1. Name, Code No., and Category of plant:

Name : Nihon Jukagaku Kogyo K.K., Main Plant
Code No.: 13 - 81
Category: Sulphuric acid

2. Location of plant:

14, Minami Hatsushima-cho, Amagasaki-shi, Hyogo-ken.

3. Machinery and equipment applied for release permission:

We apply for release permission of eighty (80) items of reparations machinery and equipment (53 inventoried items and 27 non-inventoried items) as melt-down scrap.

Details will be given on attached list.

4. Summary of the plant:

1) Outline of the plant:

The company had been established in 1937. Construction of facilities started, at the same time, including Osame contact process sulphuric acid producing system, synthetic tannin producing equipment and sodium sulphite producing equipment, at present location. Commencement of operation was in June 1939. But there were much embarrasement technically throughout business since the commencement of business and finally, in March 1945, the company went out of production.
24 August 1946, the facilities had been designated as a reparations plant, and has been under custody as non-operative plant.

2) State of damaged plant:

a.	17 Sept. 1944.	Flood by typhoon covered the plant over two meters deep.
b.	15 June 1945.	All facilities except contact process sulphuric acid producing equipment had been burned down by air-raids.

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

c. 18 Sept. 1945. Flood by typhoon covered over the plant.

d. 3 Sept. 1950. Flood by typhoon covered the plant 4 meters deep and banks around the plant were broken about 200 meters.

3) State of the land and buildings:

a. The plant is located along the seashore and the both sides are rivers. It is not only low-land but the land is subsiding year after year. In order to use this land continuously, rearrangement of the ground is inevitable, moreover, the surrounding banks of the plant must be reinforced or embanked.

b. The plant buildings have been rather inferior, in addition to this, recent typhoon and tidal waves gave extreme damage on the buildings. Some houses have been carried away by the flood, some buildings have been collapsed, fences, the guard house, substation are all collapsed. We therefore, are much in difficulty for preservation of designated items.

5. Reasons applying for release permission:

1) During the operation, since the first started, the machinery had accompanied much trouble. Average output up to January 1941 since operation commenced (for 20 months) is 561 tons per month against the expected capacity production 900 tons per month. The maximum output during those 20 months was 820 tons. From January to August in 1941, the plant had been inactive for complete repair of machinery. The troubles of machinery still happened after resumption in September of the same year. 20 monthms average output after resumption was 362 tons, and the operation were kept intermittently up to August 1943, in such a low efficiency. In August 1943, we could not help stopping production. By flood damage of 17 September 1944, the plant became almost incapable to be rehabilitated, finally, went out of business on 22 March 1945.

2) The air-raids on 5 June 1945 gave fatal damage on the sulphuric acid producing equipment, then the floods of which twice brought disasters upon the plant gave remained equipment more and more inferiority.

3) The plant, since designated as a reparations plant, we have made every effort to maintain the designated machinery. However, we were unable to do a drastic repair owing to the labor, material and funds ofwhich all restricted. (Should it be unrestricted it might be waste of money)

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

For the heavy corrosion of inside of machinery, they seem to be unserviceable in future and the pipes in-between machines are all unserviceable.

4) As above reasons, the reparation desigaated machinery are almost unserviceable except four (4) transformers, we should like to apply for release permission of reparation designated machinery and equipment as melt-down scrap.

Shigekichi Kitamura

SHIGEKICHI KITAMURA
Representative Managing Director
Nihon Jukagaku Kogyo K.K.

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

LIST OF MACHINERY AND EQUIPMENT

Inventory No.	Machine Name
13-81-IA1-1	Roaster
" -2	"
IA2-1	Hot cottrell
" -2	Cooling tower
" -3	Cooling tank
" -4	Settling tank
" -5	"
" -6	Circulating tank
" -7	"
" -8	Scrubbing tower
" -9	Mist cottrell
" -10	Drying tank
" -11	Cooling tank
" -12	Circulating tank
" -13	Rectifier set
" -14	"
" -15	Cooling piping
IA3-1	Absorbing tank
" -2	Cooling pipe
" -3	Circulating tank
" -4	Surge tank
" -5	Pump
" -6	Oleum tower
" -7	Irrigation cooler
" -8	Circulating tank
" -9	Pump
" -10	"
" -11	Surge tank
" -12	Pump
" -13	Guage tank
" -14	"
" -15	Pump
" -16	"
" -17	Preheating furnace
" -18	Preheater (tubler)
" -19	Coke filter
" -20	"
" -21	Converter (large)
" -22	" (small)
" -23	Gas cooler
IA4-1	Blower
" -2	"
" -3	"
" -4	"
" -5	"
" -6	"
" -7	"
IIA1-1	Backet elevater
" -2	Raw acid tank
" -3	Filtering tank
" -4	Storage tank
" -5	"
" -6	Reaervoir tank

Total.....53

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

Inventory No.	Machine name.	No.of items
None	Pumps for circulating tank (gas cleaning equip.)	4
None	Drying tower	1
None	Pumps for circulating tank (contact equip.)	2
None	Large heat exchanger	1
None	Small heat exchanger	1
None	Blower	1
None	Water pumps	2
None	Storage tank	1
None	Motors for circulating tank pumps (including one spare motor)	7
None	Motors for guage tank pumps	2
None	Motor for preheater	1
None	Motors for blowers	2
None	Motors for water pumps	2
	Total.....	27

Grand total..... 80 Items

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

M1-16 Kyogo

DRAFT

13-79 KAS

HEADQUARTERS
KINKI CIVIL AFFAIRS REGION
APO 15 (Osaka, Honshu)

MEMO FOR RECORD

4 December 1950

SUBJECT: Application for Release of Equipment as Melt-Down Scrap - Kanegafuchi Kogyo K.K., 13-79

TO: Chief
Civil Affairs Section
GHQ, SCAP
APO 500

1. Transmitted herewith as Inclosure No. 1 is an application from the Kanegafuchi Kogyo K.K. requesting release as melt-down scrap of 53 items of equipment at their Amagasaki sulfuric acid plant, reparations code number 13-79. The items desired for release comprise the total complement of inventoried equipment at the plant.

2. Inspection of the installation revealed that all of the listed equipment is beyond economical repair, with the exception of electric transformers IIA1-10 and IIA1-11. Deteriorated state of the equipment is principally due to damage inflicted by the typhoon of 3 September 1950, which virtually demolished the installation. Extent of typhoon damage to the plant is illustrated by the photographs attached as Inclosure No. 2, taken on 10 September 1950. COST OF REPAIRS IS ESTIMATED AT 3,500,000 yen. ~~A1so.~~ The equipment suffered progressive deterioration prior to the typhoon due to frequent inundation of the whole plant area by high tides from Osaka Bay, on the shore of which the plant is situated. Inundation is a frequent occurrence due to subsidence of the ground in this area of the Osaka Bay shoreline.

3. Release as melt-down scrap of the items listed in Inclosure No. 1, with the exception of transformers IIA1-10 and IIA1-11, is recommended. Although repair of the transformers is economically feasible, their reparations

Original filed M1-126

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

value is questionable due to cost of repair together with the fact that the items are more than 13 years old. Further considering that the 2 transformers will be the only reparations items remaining at the installation if the equipment listed in Inclosure No. 1 is scrapped, release of the transformers for disposition as desired by the Kanegafuchi Company is recommended.

FOR THE CHIEF:

2 Incls:
1 - Application (dup)
2 - 4 photographs

STERLIN C. MOORE
Major, Infantry
Deputy Chief

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

CABLE ADDRESS
"KANEBO OSAKA"

KANEGAFUCHI SPINNING CO., LTD.

(KANEBO)

123, Tomobuchi-cho, Miyakojima-ku,
Osaka, Japan.

Nov. 25, 1950

To: Commanding Officer,
Kinki Civil Affairs Region.

Through: Governor of Hyogo Prefecture.

From: The Kanegafuchi Kogyo Kabushiki Kaisha,
(The Kanegafuchi Spinning Co., Ltd.)
123 Tomobuchi-cho, Miyakojima-ku, Osaka.

Subject: Petition for relense of equipment from reparation custody at Amagasaki Sulphuric Acid Plant. (Code No.13-79) for melt down purposes

Due to the remarkable ground sinking and the typhoon "Jane" that hit Kwansai district on September 3, 1950, the facilities at the aforesaid plant was conspicuously damaged beyond economical repair. It would be greatly appreciated if you would favorably consider release of the equipment enlisted in the attached sheets, so that the equipment may be melted down.

(Itoji Muto)
President Director,
KANEGAFUCHI SPINNING CO., LTD.

1 Enclosure:
List as stated above.

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

List of conspicuously damaged equipments at the Amagasaki plant of the Kanegafuchi Kogyo K.K.

Nov. 21, 1950

Section	Inv. No.	Name	Date of Manuf.	Quantity
Roaster	IA1 1/3	Roasters	1939 2. 10	3
Gas cleanning equipment	IA2 1	Hot cottrell	1939 1. 30	1
	2	Cooling tower	1939 2. 15	1
	3	Settling tank	1944 1. 8	1
	4	Scrubbing tower	1939 2. 15	1
	5	Acid cooler	1939 1. 20	1
	6/7	Surge tanks	1944 1. 8	2
	8/9	Cooling pumps	1939 12. 30	2
	10	Mist cottrell	1939 3. 1	1
	11/14	Rotary rectifiers	1939 2. 1	4
	15	Coke filter	1939 3. 1	1
	16	Drying tower	1939 2. 20	1
	17/20	Acid pumps	1939 1. 10	4

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

Section	Inv. No.	Name	Date of Manuf.	Quantity
Contact equipment	IA3 1	Small converter	1939 2. 5.	1
	2	Large converter	1939 2. 5.	1
	3	Gas cooler	1939 1. 10	1
	4/11	Acid pumps	1939 1. 10	8
	12/13	Volume gauge tanks	1939 2. 1	2
Blower	IA4 1/2	Blower	1938 12. 30	2
	3/6	Fan	1939 2. 10	4
All other equipment	IIA1 1	Brake crusher	1939 5. 10	1
	2	Cone crusher	1939 6. 1	1
	3/4	Eleveters (chain conveyor)	1939 6. 1	2
	5/6	Eleveters (bucket)	1939 2. 15	2
	7/8	Reservoir tanks	1939 12. 31	2
	9	Acid pump	1939 1. 10	1
	Total	52		

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

List of the equipments (to be repaired) at the Amagasaki Plant of the Kanegafuchi Kogyo K.K.

Section	Inv. No.	Name	Date of Manuf.	Quantity
All other equipment	IIA1 10/11	Transformers	1937 7. 1.	2
	Total	2		

Remark; Economical repairing can be done.

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

M1-1d
B-80

COPY

Report on Disposal of Released Equipment as Melt-down Scrap

Date : 11 November 1950

Plant Name : Amagasaki Kojo, Kansai Ryusan K.K.

& Code No.: 13 - 80

Reference 1. Date : 21 Aug. 1950

Subject: Release of Reparations Equipment

Total No. of Equipment Disposed:

87 Items

List of Equipment

Inventory No.	Name of Equipment	No. of Items
13-80- IA4- 1	Turbo Blower	1
" IA4- 2	"	1
" IA2- 7	Settling Tank	1
" IA2- 8	"	1
" IA2- 9	"	1
" IIA1- 8	Storage Tank	1
" IIA1- 9	"	1
" IIA1-10	"	1
" IIA1-11	"	1
" IIA1-12	"	1
" IIA1-17	"	1
" IIA1-20	"	1
" IIA1-21	"	1
" IIA1-22	"	1
" IIA1-23	Measuring Tank	1
" IIA1-24	"	1
" IA2- 1	Preduster Set	1
" IA2-49	Mist Catcher	1
None	Hot-Cottrells	2
"	Pumps	10
"	Heat Exchangers	2
"	SO Coolers	4
"	Acid Coolers	1
"	Storage Tanks	6
"	Pumps	8
"	Water Pumps	9
"	Motors for Pumps	27

Copy of rpt submitted to SCAP thru Japanese channel.

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

The equipment listed above were disposed as melt-down Scra on 4 November 1950.

MASAKICHI UKITA
Chief Custodian of Amagasaki Kojo,
Kansai Ryusan K.K.

I certify that above report has been found to be correct and true.

S. Takaoka
Chief, Industry Section,
Commerce & Industry Department,
Hyogo Prefecture.

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

FILE

HEADQUARTERS
HYOGO CIVIL AFFAIRS TEAM
APO 317

JHS/ym/d1

412.31 16 September 1949

SUBJECT: Removal of Non-Reparations Equipment

THRU : Hyogo Liaison Office

TO : Kanegafuchi Kogyo K. K.
Amagasaki Kojo (13-79)
6 Tsurumachi, Amagasaki-shi, Hyogo Prefecture

1. Reference is your application, dated 10 September 1949, requesting permission for the removal of four (4) transformers, located in your plant, which were neither inventoried nor evaluated for they are not integral part of your sulphuric acid plant.

2. Permission is hereby granted to remove the following non-reparations equipment from your plant:

Four (4) Transformers, 350 KVA
22000-V/3300-V
with accessories

FOR THE CHIEF:

DAVID B. CROWE
Capt FA
Asst Adjutant

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

AMAGASAKI PLANT
6 Tsuru-machi

KANEGAFUCHI KOGYO K.K.
Amagasaki Hyogo-ken

Sept. 10 1949

TO ; Hyogo Civil Affairs Team

SUBJECT ; Application for permission of removal of non-reparations items.

1. With regard to the above subject, we like to state here that an arrangement has been made at our Head Office to sell the following items to the Kanzaki Plant, Nippon Celluloid Manufacturing K.K. for the purpose of promoting the production activities of the latter plant.

1. Transformer 4 sets , capacity 350 KVA
1st voltage 22,000V
2nd voltage 3,300V

2. Accessaries to the above items.

2. We futher add that the above items have no relation with the manufacture of Sulphric Acid, accordingly are they neither listed on the reparations inventory sheet nor the evaluation work sheet.

3. It would be highly appreciated if you would kindly grant us permission for the transfer of the said items from our plant to the Kanzaki Plant, Nippon Celluloid Manufacturing K.K. .

Yours Truly

Plant Manager.

Minoo Arai

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

Cover Sheets in Sec Verification
Folder #2

FILE

HYOGO MILITARY GOVERNMENT TEAM
APO 317

LWJ/di

412.31

23 May 1947

SUBJECT: Revised Inventory of Sulfuric Acid Plants

TO : Commanding General
I Corps
APO 301

Attn: Mil Govt Section

1. Forwarded herewith is a revised inventory of the following listed sulfuric acid plants:

Kansai Ryusan K.K. - Amagasaki Plant
Nihon Jukagaku Kogyo K.K. - Amagasaki Plant
Kanegafuchi Kogyo K.K. - Amagasaki Plant

2. The original inventory of plants listed in paragraph 1, above, included numerous uneconomically repairable equipment. Enclosed revised inventories do not include unserviceable equipment and all other minor discrepancies have been amended.

FOR THE COMMANDING OFFICER:

LOUIS C. HUTTON
Major, Cav
Executive Officer

Incl: Inventory Forms of
Plants listed above.
(3 copies of each)

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

FILE

HYOGO MILITARY GOVERNMENT TEAM
APO 317

LWJ/di

412.31

23 May 1947

SUBJECT: Revised Inventory of Sulfuric Acid Plants

TO : Mr. S. Kishida
Governor of Hyogo Ken

1. Transmitted herewith is a revised inventory of the following listed sulfuric acid plants:

Kansai Ryusan K.K. - Amagasaki Plant
Nihon Jukagaku Kogyo K.K. - Amagasaki Plant
Kanegafuchi Kogyo K.K. - Amagasaki Plant

2. Enclosed revised inventories will replace original inventories forwarded to your office on 24 April 1947.

FOR THE COMMANDING OFFICER:

LOUIS C. HUTTON
Major, Cav
Executive Officer

Incl: Inventory Forms of
Plants listed above.
(1 copy each)

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

FILE

6 copies

INVENTORY FORM FOR SULPHURIC ACID PLANTS

REVISED

Date ~~8 April 1947~~ 19 May 1947

Name of Company Kanegafuchi Kogyo K.K. Related SCAPIN # 1132

Name of Plant Amagasaki Plant Code # 13 - 79

Address of Plant Tsurumachi, Amagasaki

	Number Marked
I. Chemical Manufacturing	~~56~~ 42
A. Equipment	~~56~~ 42
1. Roaster	~~4~~ 3
2. Gas cleaning equipment	~~8~~ 20
3. Contact equipment	~~5~~ 13
4. Blower	6
5. All other chemical manufacturing equipment	~~35~~ 0
II. All Other Equipment	~~10~~ 11
A. Equipment	~~10~~ 11
1. Items	~~10~~ 11

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

Appendix to Inventory Form (Revised) of Kanegafuchi Kogyo K.K. Amagasaki Plant (Sulphuric Acid Plant), Amagasaki, Hyogo-pref., Code No. 13-79, dated 19 May 1947.

REMARKS

1. The following unserviceable or economically unreparable chemical manufacturing equipments located in the plant were not inventoried.

Roaster	1
Gas Cleaning Equipment:	
. Acid Tanks	2
Contact Equipment:	
Small Heat Exchanger	1
Large " "	1
Preheater	1
Acid Tanks	4
Absorbing Tower	1
Cooling Pumps	1
Motors:	
For Blowers	2
" Cone Crusher	1

OVER

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

(Continued)

For Cooling Pumps	2
" Jaw Crusher*	1
" Acid Pumps	4
" Roasters	4
" Roaster Fans	4
" Cooling Water Pump	1

2. All equipments in the fertilizer plant (not operating) located in the same compounds were not inventoried.

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

Kanegafuchi Kogyo - Amagasaki 13-79

Details of Equipment

IA1- 1/3 3. Roasters

IA2- 20. Gas Cleaning Equipment

1 Hot Cottrell
2 Cooling Tower
3 Settling Tank
4 Scrubbing
5 acid Cooler
6/7 Surge Tanks
8/9 Cooling Pumps
10 Mist Cottrell
11/14 Rotary Rectifiers
15 Coke Filter
16 Drying Tower
14/20 Acid Pumps

IA3- 13. Contact Equipment

1 Small Converter
2 Large Converter
3 Gas Cooler
4/11 Acid Pumps
12/13 Gauge Tanks

IA4- 6. Blowers

1/2 Large Blowers
3/6 Fans

IA5- 0. All Other Chemical Mfg. Equip't

IIA1- 11 All Other Equipment

1/2 Crushers
3/6 Elevators ~~Transformers~~
7/8 Storage Tanks
9 Acid Pump (for loading)
10/11 Transformers

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

File
148
6 copies

INVENTORY FORM FOR SULPHURIC ACID PLANTS

REVISED

Date 19 May 1947
~~8 April 1947~~

Name of Company Kansai Ryusan K. K. Related SCAPIN # 1132

Name of Plant Amagasaki Plant Code # 13 - 80

Address of Plant 2 Nishi Kangancho, Amagasaki

	Number Marked	
I. Chemical Manufacturing	~~139~~ 72	
A. Equipment	~~139~~ 72	
1. Roaster	4 ✓	0
2. Gas cleaning equipment	~~60~~ 51	0
3. Contact equipment	~~10~~ 9	0
4. Blower	8 ✓	6 remain
5. All other chemical manufacturing equipment	~~33~~ 0	
II. All Other Equipment	~~3~~ 27	
A. Equipment	~~3~~ 27	
1. Items	~~3~~ 27	

(99)

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

Appendix to Inventory Form (Revised) of Kansai Ryusan K.K. Amagasaki Plant (Sulphuric Acid Plant), Amagasaki, Hyogo pref., Code No. 13-80, dated 19 May 1947.

REMARKS

1. The following unserviceable or economically unreparable equipments located in the plant were not inventoried.

Gas Cleaning Equipment:	
Hot-Cottrells	2
Pumps	10
Contact Equipment:	
Heat Exchangers	2
SO_3 Coolers	4
Other Equipment:	
Acid Cooler	1
Storage Tanks	6
Pumps	8
Water Pumps	9
Motors for Pumps	24

OVER

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

(Continued)

~~Motors~~:

2. All equipments in the Chloro-sulfonic acid plant, (not operating) located in the same compounds were not inventoried.

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

Sulphuric Acid Plants

Re-inventoried
19 May 1947

Kansai Ryusan
Kanegafuchi Kogyo
Nihon Jukogaku

Classification submitted to GHQ

APPENDIX TO INVENTORY
of
Kansai Ryusan - Amagasaki Plant

IA1 Roasters ---------- 4

IA2 Gas Cleaning Equipment ---------- ~~60~~ 51

IA1 - 9

	1.	Pre-duster set ---------- 1		1
	~~2/3~~	~~Hot-Cottrell ---------- 2~~	unserviceable	
2/3	3.	Washing Towers ---------- 2		1
4/6		Inter-mediate Tanks ---------- 3		1
7/9		Settling Tanks ---------- 3		3
10/20		Lead Coolers ---------- 11		1
		~~Pumps (with motor) ---------- 4~~	unserviceable	
21/26	4.	Mist Precipitators ---------- 6		2
30	5.	Inter-mediate Tower ---------- 1		1
31		Inter-mediate Tank ---------- 1		1
27/29 Rectifiers 3				
32/34		Lead Coolers ---------- 3		1
		~~Pumps ---------- 3~~	unserviceable	
35/36	6.	Drying Towers ---------- 2		1
37/38		Inter-mediate Tanks ---------- 2		2
39		Receiving Tank ---------- 1		2
40/45		Mixing Tanks ---------- 6		2
46/48		Lead Coolers ---------- 3		1
		~~Pumps ---------- 4~~	unserviceable	
49	7.	Mist Catcher ---------- 1		1
50/51	8.	Asbestos Filters ---------- 2		2

IA3 Contact Equipment ---------- ~~10~~ 9

	~~1.~~	~~Heat Exchangers ---------- 2~~	unserviceable	
1/2	2.	Converters ---------- 2		2
	~~3.~~	~~SO_3 Coolers ---------- 4~~	unserviceable	
3	4.	Pre-heater ~~and air compressor~~ ---------- 1		2
		~~Air Compressors ---------- 1~~		1
4/5		absorbtion Towers 2		
6/7		Inter-mediate Tanks 2		
8/9		Receiving Tanks 2		

IA4 Blowers ---------- 8 3

IA5 All other Chemical Manufacturing Equipment ~~57~~ ~~51~~ 0

~~1. Absorbtion Towers ---------- 2~~		1
~~2. Inter-mediate Tanks ---------- 2~~		2
~~3. Receiving Tanks ---------- 2~~		2
~~4. Pumps ---------- 8~~	unserviceable	

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

IA5 Continued

~~5. Irrigation Cooler ---------- 1~~ unserviceable
~~6. Storage Tanks ---------- 22~~ 15 (2 measuring tanks & 1 unserviceable
~~7. Water Pumps ---------- 0~~ unserviceable
~~8. Transformers, 150 KVA, Single Phase -- 0~~ 1
~~" 75 KW, Single Phase -- 0~~ 1
~~9. Rectifiers ---------- 3~~ 3
~~10. Crushers (Jaw, Roll) ---------- 2~~ 2

IIA1 All other Equipment ---------- ~~27~~
1/2 Crushers 2
25 4. Derrick Crane ---------- 1 2
26 5. Lathe, (Engine Standard) ---------- 1 1
27 3. Drilling machine (up right) -------- 1 1

Total Number of Items ---~~148~~

3/7 Transformers 5
8/22 Storage Tank 15
23/24 Measuring Tanks 2

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

File

141 6 copies

INVENTORY FORM FOR SULPHURIC ACID PLANTS

REVISED

Date 19 May 1947 ~~14 April 1947~~

Name of Company Nihon Jukogyaku Kogyo Co. Ltd. Related SCAPIN # 1132

Name of Plant Amagasaki Plant Code # 13 - 81

Address of Plant No. 14 Minamihatsushima, Amagasaki City, Hyogo-ken

	Number Marked
I. Chemical Manufacturing	~~68~~ 47
A. Equipment	47 ~~68~~
1. Roaster	2 ✓
2. Gas cleaning equipment	~~20~~ 15
3. Contact equipment	~~22~~ 23
4. Blower	~~8~~ 7
5. All other chemical manufacturing equipment	~~10~~ 0
II. All Other Equipment	~~10~~ 8
A. Equipment	~~10~~ 8
1. Items	~~10~~ 8

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

Appendix to Inventory Form (Revised) of Nihon Jukagaku Kogyo Co. Ltd. Amagasaki Plant (Sulphuric Acid Plant), Amagasaki, Hyogo pref., Code No. 13-81, dated 19 May 1947.

REMARKS

1. The following unserviceable or economically unreparable equipments located in the plant were not inventoried.

Gas Cleaning Equipment:

Pumps ~~with motors~~ for circulating tanks	4
Drying Tower	1
~~Motor (spare) for circulating tank~~	~~1~~

Contact Equipment:

Pumps ~~with motors~~ for circulating tanks	2
Large Heat Exchanger	1
Small " "	1
~~Motors f~~	
Blower ~~with motor~~	1
Water Pumps	2
Storage Tank	1

OVER

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

APPENDIX TO INVENTORY
of
NIHON JUKAGAKU KOGYO K.K., AMAGASAKI PLANT

IA1 Roasters ---------- 2 ✓

IA2 Gas Cleaning Equipment ---------- ~~20~~ 15

1. Hot Cottrell (with motor) ------ 1
2. Cooling Tower ---------- 1 ✓
3. Cooling Tank ---------- 1 ✓
4/5 Settling Tanks ---------- 2 ✓
6/7 Circulating Tanks ---------- 2 ✓
~~6. Pumps ----------~~ 2X insert No 28.33.
~~7~~.8 Scrubbing Tower ---------- 1 ✓
~~8~~.9 Mist Cottrell ---------- 1 ✓
~~9~~.10 Drying Tower ---------- 1 ✓ x — Cont Jar 400 KG 20/6
~~10~~.11 Cooling Tank ---------- 1 ✓ x
~~11~~.12 Circulating Tank ---------- 1 ✓
~~12. Pumps ----------~~ 2X No. 40. 41.
13. ~~Drying Tower ----------~~ 1X No 46
13/14. Rectifier sets ---------- 2 ✓
15. ~~Cooling Piping~~ acid Cooler ---------- 1 ✓

IA3 Contact Equipment ---------- ~~20~~ 23

1. Absorbing Tank ---------- 1 ✓ x
2. ~~Cooling Pipe~~ acid Cooler ---------- 1 ✓
3. Circulating Tank ---------- 1 ✓
~~4. Pumps ----------~~ 2X No. 51. 52.
~~3~~.4 Surge Tank ---------- 1 ✓
~~4~~.5 Pump ---------- 1 ✓
~~5~~.6 Oleum Tower ---------- 1 ✓ x
~~6~~.7 Irrigation Cooler acid Cooler ---------- 1 ✓
~~7~~.8 Circulating Tank ---------- 1 ✓
9/10. Pumps ---------- 2 ✓
11. Surge Tank ---------- 1 ✓
12. Pumps ---------- 1 ✓
13/14 Gauge Tanks ---------- 2 ✓
15/16 ~~14~~. Pumps ---------- 2 ✓
~~15~~.17 Preheating Furnace ---------- 1 ✓
~~16~~.18 Preheater (Tubular) ---------- 1 ✓
19/20 Coke Filter 2.
~~17. Heat Exchanger (Large) ----------~~ 1X No. 101
~~18. " " (Small) ----------~~ 1X No. 102
19. ~~Gas Cooler~~ ---------- 1 ✓
~~20~~.21 Converter (Large) ---------- 1 ✓
~~21~~ 22 " (Small) ---------- 1 ✓
~~22~~ 23 Gas cooler 1.
~~22. Mist Filters ----------~~ ~~2~~ ✓
~~23. Storage Tank (Round) ----------~~ 1X ✓ 1 unserviceable No. 145
~~24. " " (Concrete) ----------~~ 1 ✓

Chloro-sulphonic acid equt 7/6 10/6.

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

Appendix to Inventory Form (Revised) of Nihon Jukagaku Kogyo Co. Ltd. Amagasaki Plant (Sulphuric Acid Plant), Amagasaki, Hyogo pref., Code No. 13-81, dated 19 May 1947.

REMARKS

1. The following unserviceable or economically unreparable equipments located in the plant were not inventoried.

Gas Cleaning Equipment:	
Pumps ~~with motors~~ for circulating tanks	4
Drying Tower	1
~~Motor (spare) for circulating tank~~	~~1~~
Contact Equipment:	
Pumps ~~with motors~~ for circulating tanks	2
Large Heat Exchanger	1
Small " "	1
~~Motors~~	
Blower ~~with motor~~	1
Water Pumps	2
Storage Tank	1

OVER

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

(Continued)

Motors:

For circulating tank pumps (including one spare motor)	~~8~~ 7
" gauge tank pumps	2
" preheater	1
" blowers	2
" water pumps	2

2. The following motors are missing from the equipment.

One (1) motor for roaster fan
One (1) " " bucket elevator
one (1) " " rectifier set

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

APPENDIX TO INVENTORY
of
NIHON JUKAGAKU KOGYO K.K., AMAGASAKI PLANT

IA1 Roasters ---------- 2 ✓

IA2 Gas Cleaning Equipment ---------- ~~20~~ 15

1. Hot Cottrell (with motor) ------ 1
2. Cooling Tower ---------- 1 /
3. Cooling Tank ---------- 1 /
4/5 Settling Tanks ---------- 2 /
6/7 Circulating Tanks ---------- 2 /
~~6. Pumps ----------~~ 2X insert No. 28. 33.
~~8~~.8 Scrubbing Tower ---------- 1 /
~~9~~.9 Mist Cottrell ---------- 1 /
~~10~~.10 Drying Tower ---------- 1 / x
~~11~~.11 Cooling Tank ---------- 1 / x
~~11~~.12 Circulating Tank ---------- 1 /
~~12. Pumps ----------~~ 2X No. 40. 41.
13. ~~Drying Tower ----------~~ 1X No. 46
13/14. Rectifier sets ---------- 2 /
15. ~~Cooling Piping~~ Acid Cooler ---------- 1 /

Cond Tow 400 KG 20/6

IA3 Contact Equipment ---------- ~~24~~ 23

1. Absorbing Tank ---------- 1 / x
2. ~~Cooling Pipe~~ Acid Cooler ---------- 1 /
3. Circulating Tank ---------- 1 /
~~4. Pumps ----------~~ 1X No. 51. 52.
~~8~~.4 Surge Tank ---------- 1 /
~~8~~.5 Pump ---------- 1 /
~~8~~.6 Oleum Tower ---------- 1 / x
8.7 Irrigation Cooler Acid Cooler ---------- 1 /
~~8~~.8 Circulating Tank ---------- 1 /
9/10. Pumps ---------- 2 /
11. Surge Tank ---------- 1 /
12. Pumps ---------- 1 /
13/14 Gauge Tanks ---------- 2 /
15/16 ~~14~~. Pumps ---------- 2 /
~~15~~.17 Preheating Furnace ---------- 1 /
~~16~~.18 Preheater (Tubular) ---------- 1 /
19/20 17. ~~Heat Exchanger (Large)~~ Coke Filter 2 (Large) ---------- 1X No. 101
18. " " (Small) ---------- 1X No. 102
19. ~~Gas Cooler~~ ---------- 1 /
~~20~~.21 Converter (Large) ---------- 1 /
~~21~~ 22 " (Small) ---------- 1 /
~~22~~ 23 Gas cooler 1. ~~Coke Filters ----------~~ ~~2~~ /
~~23. Storage Tank (Round) ----------~~ 1X / 1 unserviceable No. 145
~~24.~~ " " (Concrete) ---------- 1 /

Chloro-sulphonic acid eqpt 7/6 10/6.

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

IA4 Blowers (Including Fans) - - - - - - - - - ~~7~~ 1 unserviceable No. 90

IA5 All other Chemical Manufacturing Equipment- ~~9~~ 10

IIA1 - All other equipment

1 1/3	Bucket Elevator		
	Transformers	(300 KVA) - - - - - - - - -	3
4.	"	(20 KVA) - - - - - - - - -	1
2 ~~5~~.	Raw Acid Tank	- - - - - - - - - - - - - - - - - - - -	1
3 ~~6~~4.	Filtering Tank	- - - - - - - - - - - - - - - - - - - -	1
~~5.~~	~~Water Pumps~~	~~- - - - - - - - - - - - - - - - - - - -~~	~~2~~ X No. 152 153
6 ~~7~~6.	Reservoir Tank	- - - - - - - - - - - - - - - - - - - -	1
4/5 8/9	Storage Tank	2	
7/10	Transformer		

Total Number of Items - - - ~~58~~ 56 54

~~IIA1 - All other equipment~~

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

APPENDIX TO INVENTORY
OF
KANEGAFUCHI KOGYO - AMAGASAKI SULPHURIC PLANT

IA1 Roasters ---------- 4

IA2 Gas Cleaning Equipment ---------- 6

1. Hot Cottrell ---------- 1
2. Cooling Tower ---------- 1
3. Scrubbing ---------- 1
4. Mist Cottrell ---------- 1
5. Coke Filter ---------- 1
6. Drying Tower ---------- 1

IA3 Contact Equipment ---------- 5

1. Small Converter ---------- 1
2. Large Converter ---------- 1
3. Small Heat Exchanger---------- 1
4. Large Heat Exchanger ---------- 1
5. Preheater ---------- 1

IA4 Blowers ---------- 6

1. Large Blowers ---------- 2
2. Fans ---------- 4

IA5 All Other Chemical Manufacturing Equipment------ 35

1. Rotary Rectifiers ---------- 4
2. Gas Cooler ---------- 1
3. Absorbing Tower ---------- 1
4. Acid Pumps ---------- 13
5. Acid Coolers ---------- 2
6. Acid Tanks ---------- 6
7. Cooling Pumps ---------- 3
8. Volume Gauging Tanks ------ 2
9. Surge Tanks ---------- 2
10. Settling Tank ---------- 1

IIA1 Transformers (300 KVA, Single phase)-2

IIA2 Crushers ---------- 2

IIA3 Elevators ---------- 4

1. Chain Conveyor ---------- 2
2. Bucket ---------- 2

IIA4 Reservoir Tanks ---------- 2

Total No. of Items -------- 66

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

Cover Sheet for Verification Folder #2

FILE

HYOGO MILITARY GOVERNMENT TEAM
APO 317

ABH/di

P-15

24 April 1947

SUBJECT: Inventory of Sulfuric Acid Plants

TO : Commanding General
I Corps
APO 301

ATTN: Mil Govt Section

1. In compliance with paragraph 3 of letter, AG 004 (Rep) - BA, Hq, I Corps, dated 13 March 1947, subject: "Inventory Instructions for Sulfuric Acid Plants," inventories of the following listed plants are transmitted herewith:

Nihon Jukagaku	-	Amagasaki Plant
Kanegafuchi Kogyo	-	Amagasaki Plant
Nihon Seitetsu	-	Hirohata Plant
Kansai Ryusan	-	Amagasaki Plant

2. Attention is invited to the appendix to each plant inventory which offers additional information pertinent to inventoried items.

FOR THE COMMANDING OFFICER:

LOUIS C. HUTTON
Major, Cav
Executive Officer

Incl: As indicated.
(3 copies)

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

F I L E

HYOGO MILITARY GOVERNMENT TEAM
APO 317

ABH/d1

P-15

24 April 1947

SUBJECT: Inventory of Sulfuric Acid Plants

TO : Mr. S. Kishida
Governor of Hyogo Prefecture

Transmitted herewith are inventories of the following sulfuric acid plants:

Nihon Jukagaku	-	Amagasaki Plant
Kanegafuchi Kogyo	-	Amagasaki Plant
Nihon Seitetsu	-	Hirohata Plant
Kansai Ryusan	-	Amagasaki Plant

FOR THE COMMANDING OFFICER:

LOUIS C. HUTTON
Major, Cav
Executive Officer

Incls: As indicated
(1 copy each)

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

A12.31 #78

FILE
136

INVENTORY FORM FOR SULPHURIC ACID PLANTS

Date 18 April 1947

Name of Company Nihon Seitetsu K. K. Related SCAPIN # 1132

Address of Plant Hirohata, Himeji City, Hyogo Pref.

	Number Marked	
I. Chemical Manufacturing		20
A. Equipment	20	
1. Roaster	3	
2. Gas cleaning equipment	7	
3. Contact equipment	6	
4. Blower	4	
5. All other chemical manufacturing equipment	0	
II. All Other Equipment		23
A. Equipment	23	
1. Items	23	

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

FILE

APPENDIX

Appendix to Inventory Form of Nihon Seitetsu K.K., Hirohata Plant (Sulfuric Acid Plant), Hirohata, Himeji City, code # 13-78, dated 18 April 1947.

REMARKS

There are located in the plant fourteen (14) items of unserviceable or economically unrepairable equipment which were not inventoried.

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

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INVENTORY FORM FOR SULPHURIC ACID PLANTS

Date 14 April 1947

Name of Company Nihon Jukagaku Kogyo Co. Ltd. Related SCAPIN # 1132

Name of Plant Amagasaki Plant Code #13 - 81

Address of Plant No. 14 Minamihatsushima, Amagasaki City, Hyogo-ken

	Number Marked	
I. Chemical Manufacturing		68
A. Equipment	68	
1. Roaster	2	
2. Gas cleaning equipment	20	
3. Contact equipment	29	
4. Blower	8	
5. All other chemical manufacturing equipment	9	
II. All Other Equipment		0
A. Equipment	0	
1. Items	0	

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

APPENDIX TO INVENTORY
of
NIHON JUKAGAKU KOGYO K.K., AMAGASAKI PLANT

IA1 Roasters ---------- 2

IA2 Gas Cleaning Equipment ---------- 20

1.	Hot Cottrell (with motor) ----------	1
2.	Cooling Tower ----------	1
3.	Cooling Tank - ----------	1
4.	Settling Tanks ----------	2
5.	Circulating Tanks ----------	2
6.	Pumps ----------	2
7.	Scrubbing Tower ----------	1
8.	Mist Cottrell ----------	1
9.	Drying Tower ----------	1
10.	Cooling Tank ----------	1
11.	Circulating Tank ----------	1
12.	Pumps ----------	2
13.	Drying Tower ----------	1
14.	Rectifier sets ----------	2
15.	Cooling Piping ----------	1

IA3 Contact Equipment ---------- 29

1.	Absorbing Tank ----------	1
2.	Cooling Pipe ----------	1
3.	Circulating Tank ----------	1
4.	Pump ----------	1
5.	Surge Tank ----------	1
6.	Pump ----------	1
7.	Oleum Tower ----------	1
8.	Irrigation Cooler ----------	1
9.	Circulating Tank ----------	1
10.	Pumps ----------	2
11.	Surge Tank ----------	1
12.	Pump ----------	1
13.	Gauge Tanks ----------	2
14.	Pumps ----------	2
15.	Preheating Furnace ----------	1
16.	Preheater (Tubelar) ----------	1
17.	Heat Exchanger (Large) ----------	1
18.	" " (Small) ----------	1
19.	Gas Cooler ----------	1
20.	Converter (Large) ----------	1
21.	" (Small) ----------	1
22.	Coke Filters ----------	2

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

IA3 (Cont'd)

23.	Storage Tank (Round) ------	2
24.	" " (Coucrete) ----	1

IA4 Blowers (Including Fans) - - - - - - - 8

IA5 All other Chemical Manufacturing Equipment - 9

1.	Transformers (300 KVA) -----	3
2.	" (20 KVA) -----	1
3.	Raw Acid Tank ----------	1
4.	Filtering Tank ----------	1
5.	Water Pumps ----------	2
6.	Reservoir Tank ----------	1

Total Number of Items - - - - 68

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

INVENTORY FORM FOR SULPHURIC ACID PLANTS

Date 8 April 1947

Name of Company Kanegafuchi Kogyo K.K. Related SCAPIN # 1132

Name of Plant Amagasaki Plant Code # 13 - 79

Address of Plant Tsurumachi, Amagasaki

	Number Marked
I. Chemical Manufacturing	56
A. Equipment	56
1. Roaster	4
2. Gas cleaning equipment	6
3. Contact equipment	5
4. Blower	6
5. All other chemical manufacturing equipment	35
II. All Other Equipment	10
A. Equipment	10
1. Items	10

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

INVENTORY FORM FOR SULPHURIC ACID PLANTS

Date 8 April 1947

Name of Company Kansai Kyusan K. K. Related SCAPIN # 1132

Name of Plant Amagasaki Plant Code # 13 - 80

Address of Plant 2 Nishi Kangancho, Amagasaki

	Number Marked
I. Chemical Manufacturing	139
A. Equipment	139
1. Roaster	4
2. Gas cleaning equipment	60
3. Contact equipment	10
4. Blower	8
5. All other chemical manufacturing equipment	57
II. All Other Equipment	3
A. Equipment	3
1. Items	3

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

APPENDIX TO INVENTORY
of
Kansai Ryusan - Amagasaki Plant

IA1 Roasters ---------- 4

IA2 Gas Cleaning Equipment ---------- 60

1. Pre-duster set ---------- 1
2. Hot-Cottrell ---------- 2
3. Washing Towers ---------- 2
   Inter-mediate Tanks ---------- 3
   Settling Tanks ---------- 3
   Lead Coolers ---------- 11
   Pumps (with motor) ---------- 4
4. Mist Precipitators ---------- 6
5. Inter-mediate Tower ---------- 1
   Inter-mediate Tank ---------- 1
   Lead Coolers ---------- 3
   Pumps ---------- 2
6. Drying Tower ---------- 2
   Inter-mediate Tanks ---------- 2
   Receiving Tank ---------- 1
   Mixing Tanks ---------- 6
   Lead Coolers ---------- 3
   Pumps ---------- 4
7. Mist Catcher ---------- 1
8. Asbestos Filters ---------- 2

IA3 Contact Equipment ---------- 10

1. Heat Exchangers ---------- 2
2. Converters ---------- 2
3. SO_3 Coolers ---------- 4
4. Pre-heater ---------- 1
   Air Compressors ---------- 1

IA4 Blowers ---------- 8

IA5 All other Chemicel Manufacturing Equipment -81

1. Absorbtion Towers ---------- 2
2. Inter-mediate Tanks ---------- 2
3. Receiving Tanks ---------- 2
4. Pumps ---------- 8

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

IA5 Continued

5.	Irrigation Cooler	1
6.	Storage Tanks	23
7.	Water Pumps	9
8.	Transformers, 150 KVA, Single Phase	3
	" 15 KW, Single Phase	2
9.	Rectifiers	3
10.	Crushers (Jaw, Roll)	2

IIA1 All other Equipment ---------- 3

1.	Derrick Crane	1
2.	Lathe, (Engine Standard)	1
3.	Drilling machine (up right)	1

Total Number of Items ---142

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

PROGRESS REPORT

Date 1sr, Dec.

Covering The Period of 11.11 - 24.11

Name of Plant: Kanegafuchi Spinning Co., Ltd.

Location: 6 c/o Tsurumachi, Amagasaki, Hyogo Prefecture.

No. of Employees working in constructive maintenance & repair 14

1 - ITEMS INVENTORIED

	1st Class	2nd Class	3rd Class
Machine Tools	0	0	0
Industrial Machines	10	40	6
Electrical Machinery and Equipment	0	14	19

2 - CONSTRUCTIVE MAINTENANCE REPAIR

	1st Class	2nd Class	3rd Class
Machine Tools	0	0	0
Industrial Machines	0	0	0
Electrical Machinery and Equipment	0	0	12 Oiling
	0	4	2

3 - NUMBER OF ENGINEERING DATA COMPLETED

	1st Class	2nd Class	3rd Class
Machine Tools	0	0	0
Industrial Machines	0	0	0
Electrical Machinery and Equipment	0	0	0

4 - Maintenance Repair of Spare Parts and Accessories(includes pulleys, chucks, change gears, steady rests, etc):

0

5 - REMARKS: (Repair of Buildings, Difficulties, etc.)

0

Signed

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

Chemical Plant Report.

This form must be completed and returned to the Chemical Branch, Industrial Division, Economic and Scientific Section, GHQ, SCAP, before _____ 1946, and is to contain data about ONE plant only.

A plant, as referred to herein, shall mean a single building, a group of buildings, or any outdoor area in which processing or auxiliary equipment has been installed which has been or is used in part or in whole to produce the principal product named in Section 1 below.

1. Name of Product. Give the general name of the principal product of the plant, such as, "Caustic Soda", or "Sulphuric Acid",

Selphuric Acid

2. Name of Process. Give the name of the system used in the plant. Thus, for caustic soda the correct entry might be "Electrolytic", or for sulphuric acid, "Contact".

Contact

3. Name and Address of Plant. Give the complete name and address of the plant. Use the Hepburn system of Romaji writing.

Kanegafuchi Spinning Co.,Ltd., Amagasaki Works, 6 Tsurumachi, Hyogo Prefecture.

4. Designed Capacity. Give the name of the principal product and the strength or purity, such as, "Sulphuric Acid, 50 Be," or "Caustic Soda, 92%". If there is more than one grade of the product manufactured, such as 92% caustic soda and 98% caustic soda, list them separately. Give the designed capacity for each principal product listed.

Product	Metric Tons per month(Principal product)
98% Sulphuric acid	3,000

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

5. Peack Production. Give the month and year which had the greatest production since the plant started operation and the production for that month.

Month January Year 1941

Product	Metric Tons Produced
98% Sulphuric acid	2492,497

6. Requirements per month at Designed Capacity. In sub-sections A through G below, give the requirements per month of this plant when it operates at designed capacity as stated in Section 4 above.

A. Raw Materials. Raw material is any material which is transformed or consumed in the process described in this report. It may be a natural material (ore, lime-stone, water) or a manufactured one (acid, salt, pulp). The description of the material must be clear and comprehensive. Thus, an acid would be described by its name or formula and by its strength or purity, indicated by degrees Be, percentage, sp. gr., etc.; an ore or other natural material by percent (salt might be described as "85% NaCL"), etc.

Material	Description	Metric Tons/Month
Pyrite	S. 48.5%	2520 (as dry)
Water	City water	710

B. Fuel. Give the kind and amount of fuel needed at designed capacity. If two or more grades of a given fuel are used, show them separately.

Kind	Metric Tons	Heat Value (Kcal/lkg)	Purpose for which used

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

C. Electric Energy. Give the electric energy per month required by this plant at designed capacity.

KWH	129,000
KVA	300
Voltage	3,300
Phases	3
Cycles	60

D. Steam. Give the total amount of steam required.

	Metric Tons	Pressure
Total	None	

E. Labor. Include only the number of workers required and the plant. Do not include supervisory, administrative or clerical personnel.

Number of workers	36
Man-hours worked	12960

F. Cooling Water. Give the volume of cooling water required and the maximum allowable water supply temperature.

1008 Kilometers at 25 C.

G. Plant Area and Volume. Give the area and volume of all buildings required to enclose process and auxiliary equipment and ground area required for outdoor equipment.

	m2	m3
Buildings	410327	33,354.27
Unenclosed equipment	630.39	

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

Products and Primary By-Products per Month at Designed Capacity.
Give description and quantity of all products and by-products.
Description must be comprehensive, including strength or purity
in degree Be, percentage, sp. Gr., Etc.

Material	Description	Metric Tons
Sulphuric acid	98%	3000
Pyrite Cinder	Fe 62.5% SiO2 7,639 S 0.99%	2000

Red figures = indicates classes determined at the Office of GHQ on 6 Nov. 1946.

8. Process Equipment. The listing of process equipment in a plant should follow the flow of the process. For example, in a Sulphuric Acid plant the listing should ~~be~~ in this order: Crusher, kiln, gas-cleaning apparatus, contact apparatus, with other equipment, such as the materials handing equipment, at the proper place in this order.

Give the type of each piece of equipment. Thus, an electrolytic Caustic Soda cell might be of the "Nelson Diaphragm" or the "Krebs Mercury" type.

The dimensions of the equipment should always be given, as well as the capacity of the equipment in terms of the quantity produced or treated within a certain time, and the name of the manufacturer. Other description, such as the electrical capacity of caustic soda cells, the heating surface and the operating pressure in evaportators, should always be given. Whenever possible, the capacity of a single unit of equipment should be given rather than the combined capacity of a group of similar units.

Item	Name	Type	Manufacturer	Size and Capacity	No. of Unit	Year Built
II 1.	Furnace	Herreshoff	Fukushima Seisakusho	25T/D D ± 6.5m	4	1939
	No.1 Furnace:-Has no ball bearing shaft is cracked.		ball bearing case box, and its center			
	Fan and fan motor have no couplings. Fan shaft has no bearing.					
II 2.	Hot Cotrell	Chamber	Fukushima Seisakusho	20KVA D-700m/m	1	1939
I 3.	Rectifier		Fuji Denki K.K.		4	"
II 4.	Cooling Tower	Tower	Fukushima Seisakusho	D-4m H-6m	1	"
II 5.	Scrubbing Tower	Tower	"	D-4m H-6m	1	"
II 6.	Mist Cottrell	Monsanto	Takeuchi Seisakusho			
III 7.	Coke Filter	Boxid Chamber	"	12m x 16m x 2.5m	1	"
	Coke Filter:- Tertiary broken with incendiary shell.					
II 8.	Drying Tower	Tower	Fukushima Seisakusho	D-4m H-6m	1	"

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

Item	Name	Type	Manufacturer	Size and Capacity	No. of Unit	Year Built
II 9.	Gas Blower	Turbo	Hidachi Seisakusho	300m3/M 500m/m.	2	1939
III 10.	Heat Exchanger	Tubo	Fukushima Seisakusho	large D=2.8m Small=2.35m.	2	"
	Heat Exchanger:- Partiary broken with a incendiary shell.					
III 11.	Converter	Monsanto	Fukushima Seisakusho	D=4m	2	"
III 12.	Preheater	Coke Heating	"	D=2.68m H=4.085m.	1	"
	Preheater:- Top round plate is cracked.					
I 13.	Gas Cooler	Air Cooling	"	D=117.4m D=780m/m	1	"
II 14.	Absorbing Tower	Tower	"	D=4m H=6m	1	"
II 15.	Strong Acid Cooler	Pipe	"	D=150m/m	1	"
II 16.	Weak Acid Cooler	Cylinder	"	Coiled Pipe D=25m/m	1	"
II 17.	Acid Pump	Vertical	Kyodo Kikai Seisakusho	120m3/H 120m/m	4	"
18.	" "	"	"	24m3/H 65m/m	4	"
19.	" "	Centrifugal	"	24m3/H 15m/m	4	"
II 20.	Cooling Water Pump	"	Torishima Seisakusho	42m3/H 200m/m	2	"
21.	" "	"	Takeuchi	15m3/H 100m/m	1	"
II 22.	Acid Tank	Cylinder	Takeuchi Seisakusho)	271m3 D=7.67m	2	
II 23.	" "	"	Fukushima Seisakusho	11m3 D=2.6m	6	"
I 24.	Surge Tank	Square	"	1.5m3 1.82m x 0.92m	2	1944
II 25.	Gauge Tank	Cylinder	"	6.69m3 D=2m	2	1939
I 26.	Settling Tank	Square	Amagasaki Home Made	1.5m3 1.82m x 0.92m	1	1944.

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

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

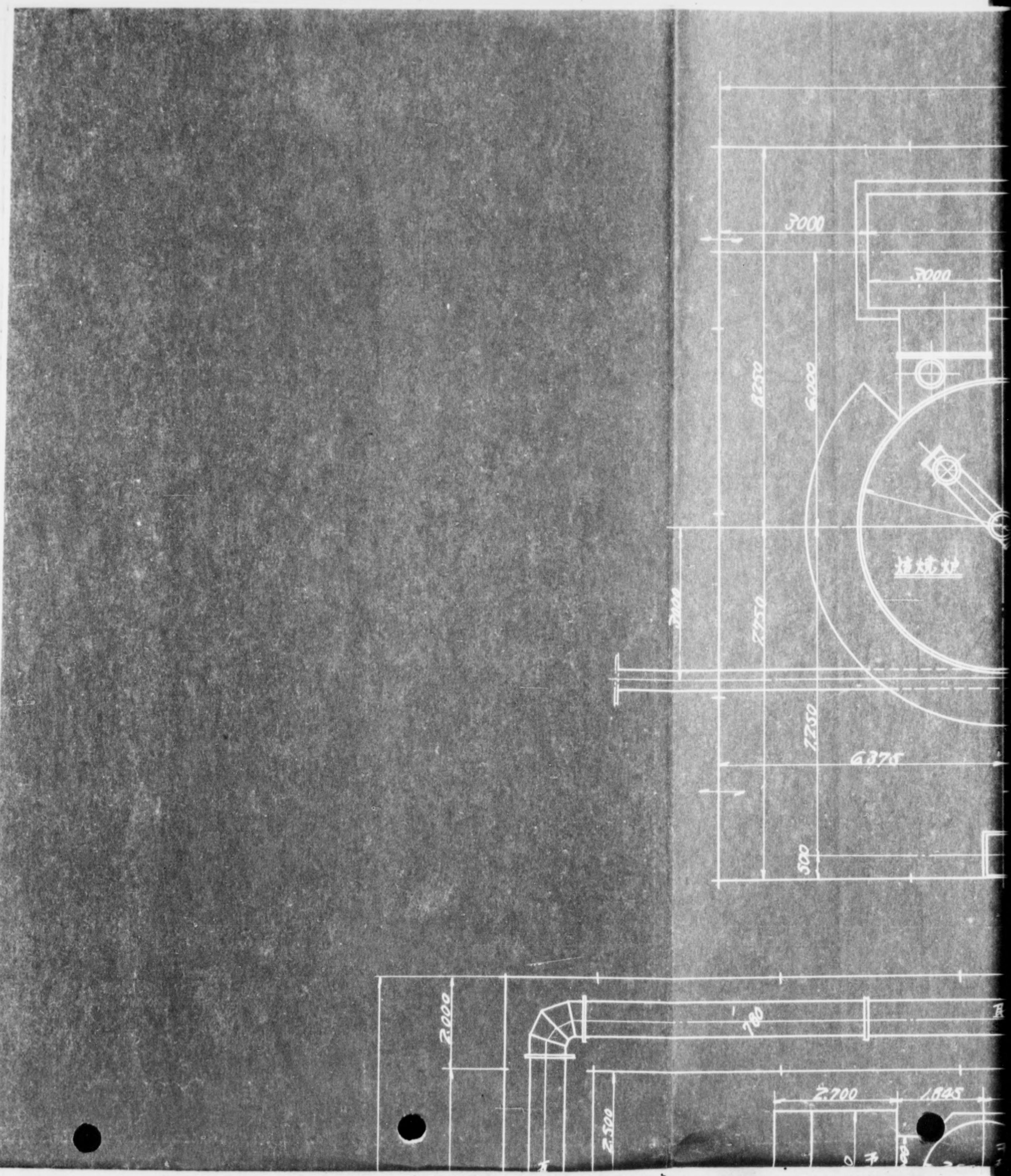
S. B. Auxiliary Equipment. List all auxiliary equipment used either wholly or ~~in~~ part by the plant described herein.

Give for all equipment a complete description, including dimansions, capacity, and the percentage of the output of the equipment used by the plant described herein. Thus, for boilers one would give the overall dimansions, heating surface, tons of water evaporated in a certain time, steam pressure and temperature, superheat pressure and temperature, etc. For electrical equipment, such as transformers, rotary converters, etc., be sure to give all the information which appears on the rating plate.

Question as to usage ?

Item	Name	Type	Manufacturer	Size and Capacity (Single Unit)	By %	No. of Units.	Year Built
I 1.	Transformer	Oil Cooling	Hidachi Seisakusho	300 KVA		2	1939
2.	Motors	Three-Phase Induction	"	* 180 HP 3,300V		2	"
3.	"	"	"	* 75HP 3,300V		1	"
				50HP 3,300V		4	"
4.	"	"	"	* 30HP 220V		2	"
5.	"	"	"	* 25HP 220V		1	"
6.	"	"	"	* 15HP 220V		48	"
7.	"	"	"	10HP 220V		1	"
8.	"	"	"	* 7.5HP 220V		9	"
9.	"	"	"	5 HP 220V		3	"
10.	"	"	"				
	* Marked Motors:- Are dipped in major tide of last year.						
I 11.	Acid Pump	Vertical	Shimazu	24m3/H		1	"
I 12.	Brake Crusher	"	Takeuchi	10T/H		1	"
I 13.	Cone Crusher	"	Toyokogyo K.K.	7T/H		1	"
	Crusher:- Are under construction and not completed.						
I 14.	Eleveter for Furnace	Bucket	Fukushima	100T/D		2	"
I 15.	Eleveter for Crusher	"	Takeuchi	10T/H		2	"
I 16.	Fan of Furnace			120m3/H 300m/m		4	"

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



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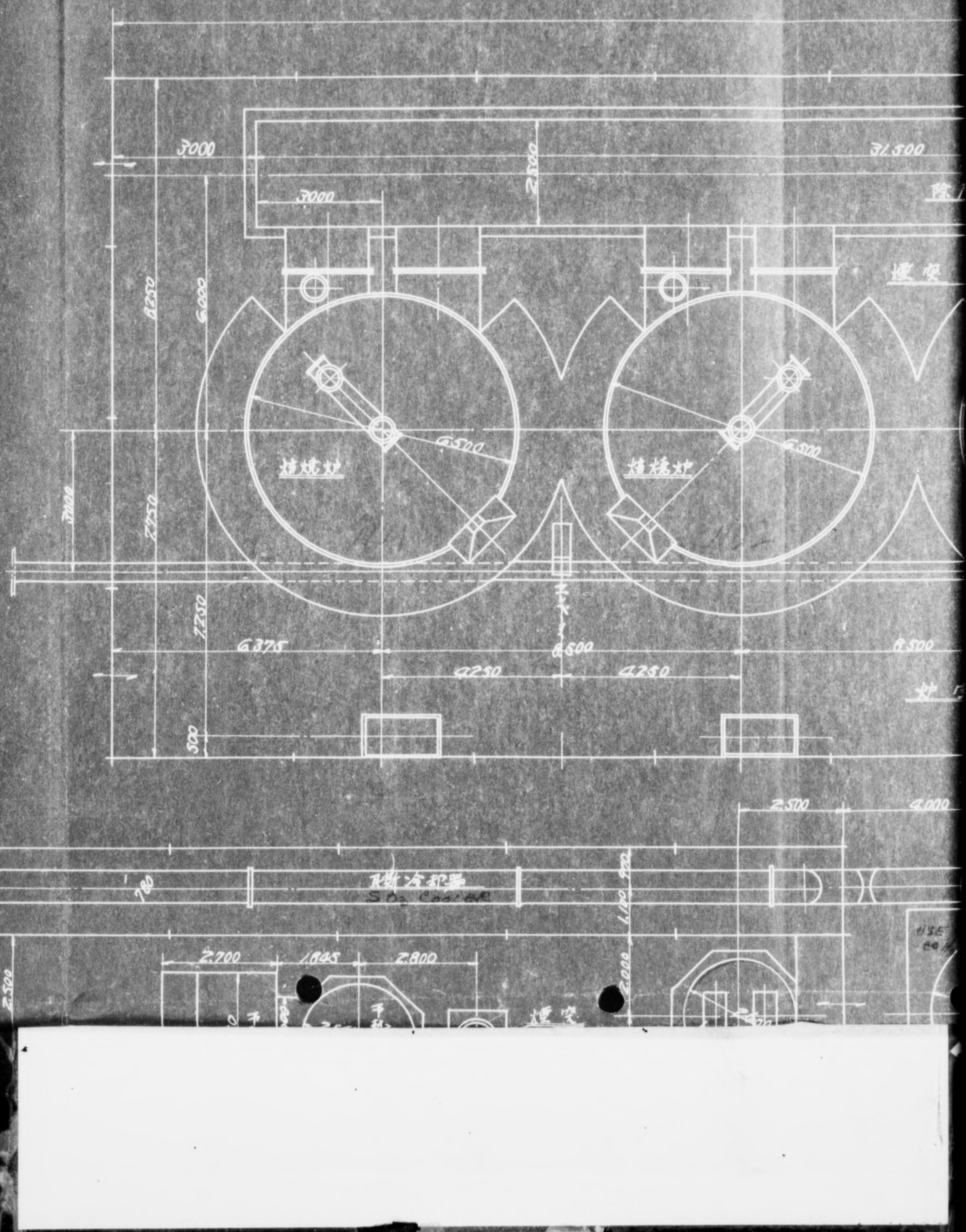

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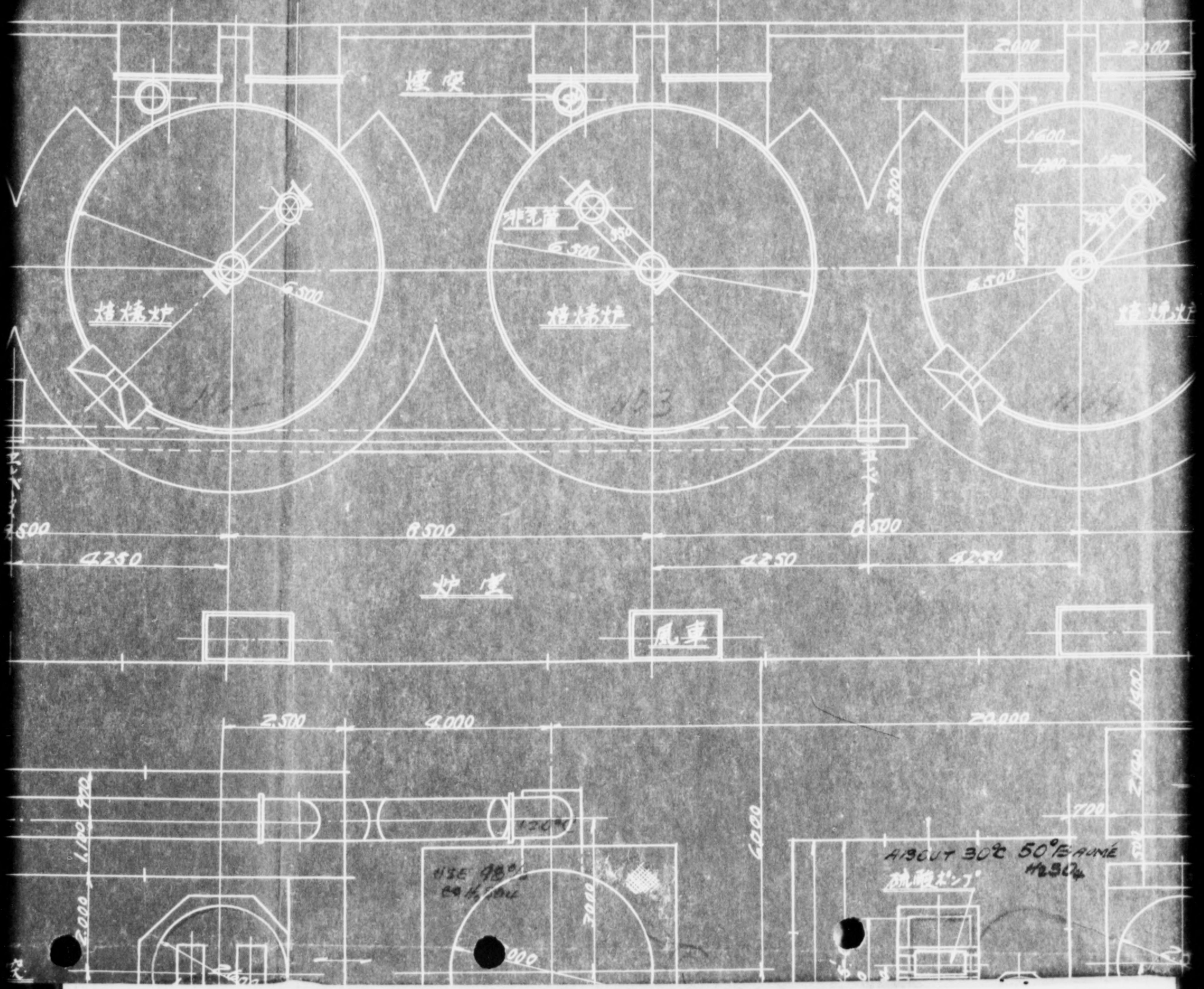
PG750

31500

Ash Precipitator (Gravity)

除塵室

煙突


#1
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4250
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炉床
風車
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2000
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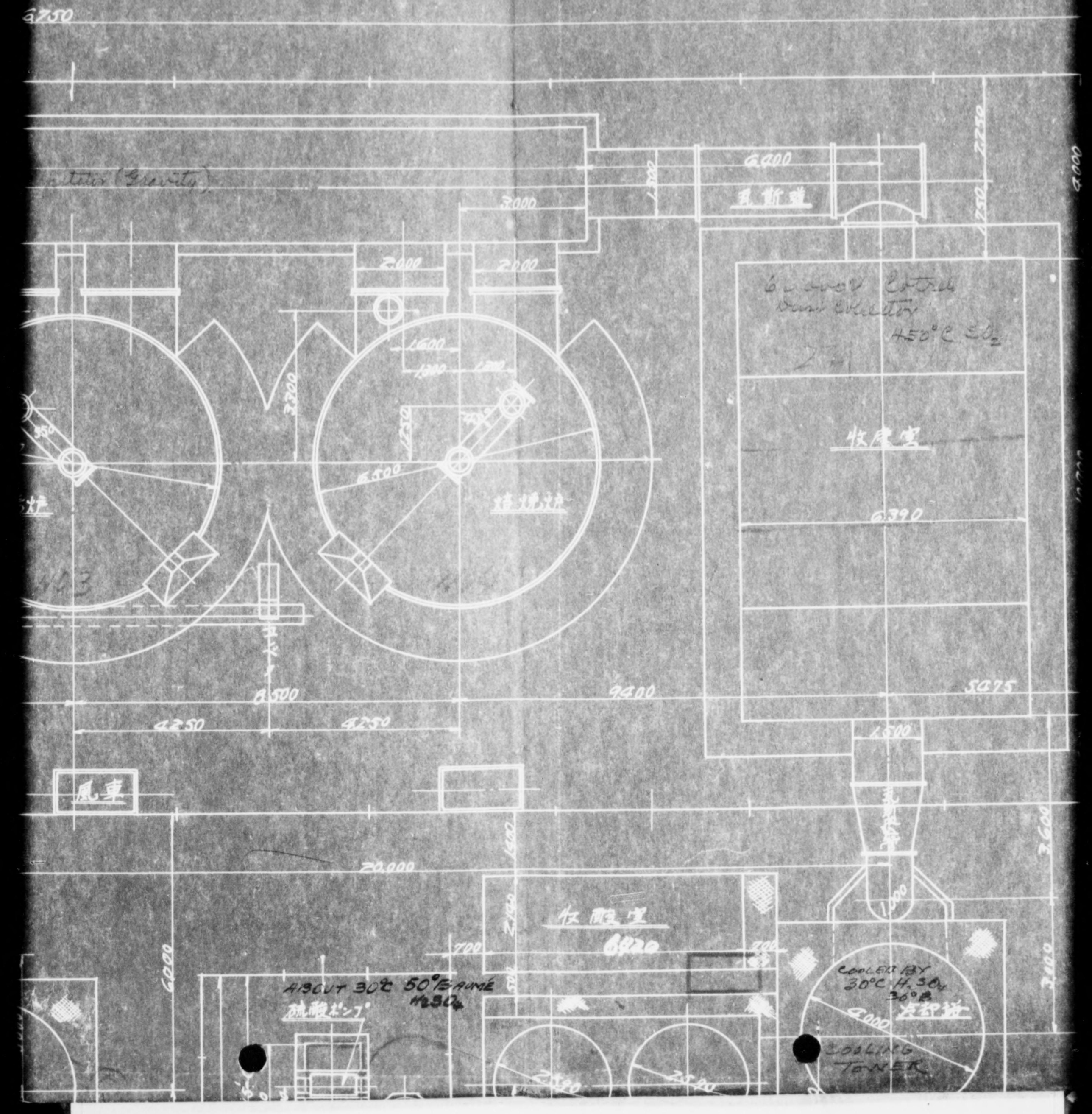

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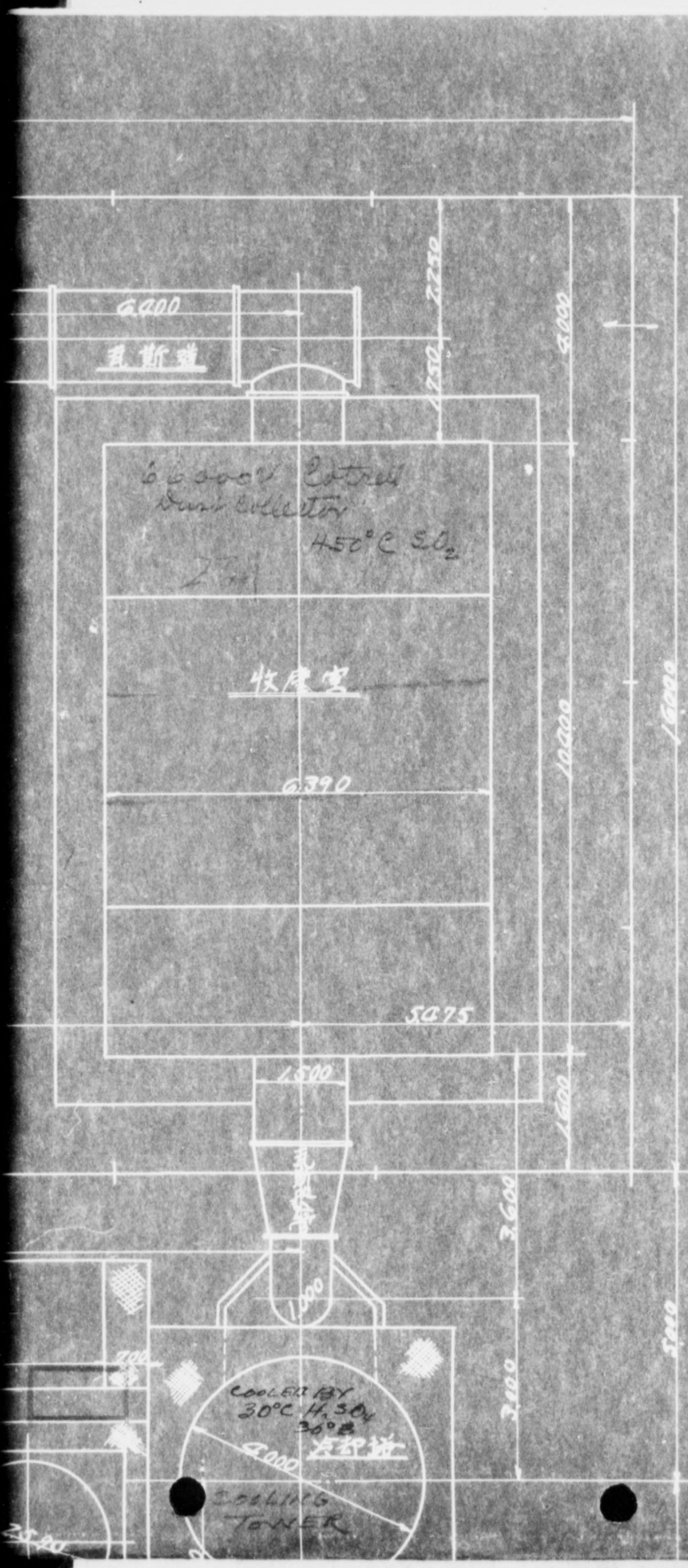

番号	名工事	名分科	
第	硫酸工場	酒巴置図	
號		入	
		1/100	
昭和 年 月 日			
調査		枚	
設計		数	
製図			
記号	材質	個数	重量

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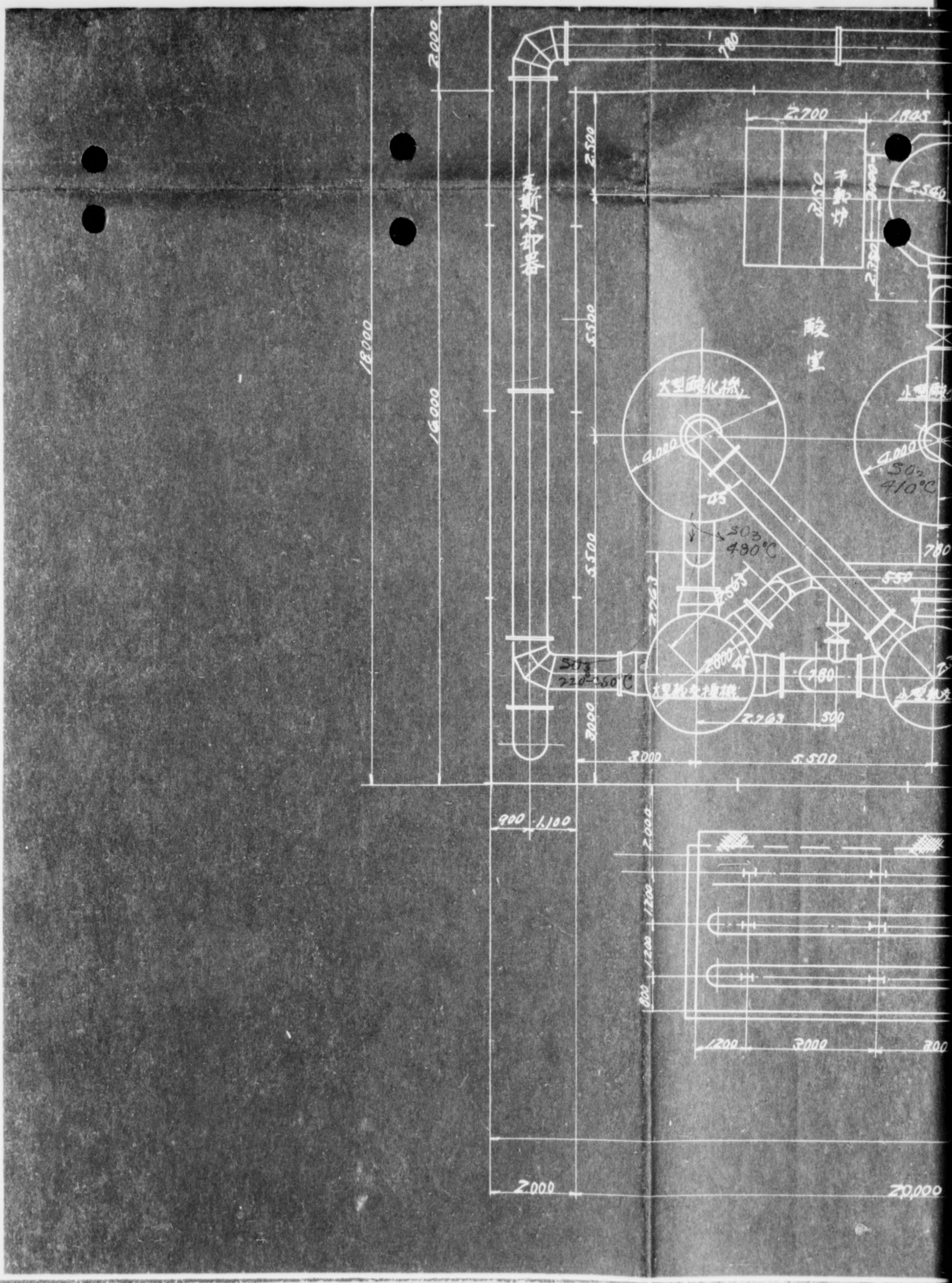

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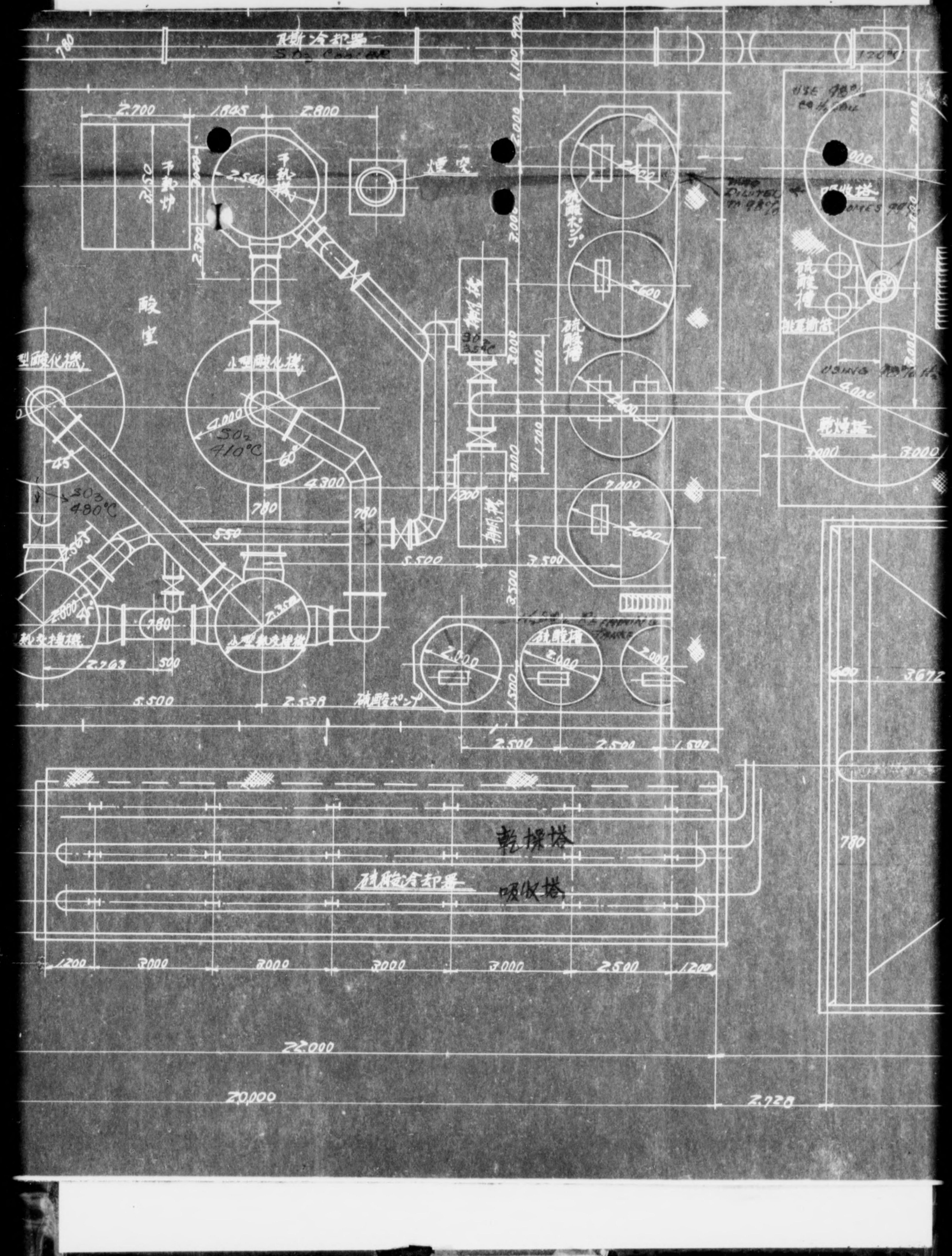

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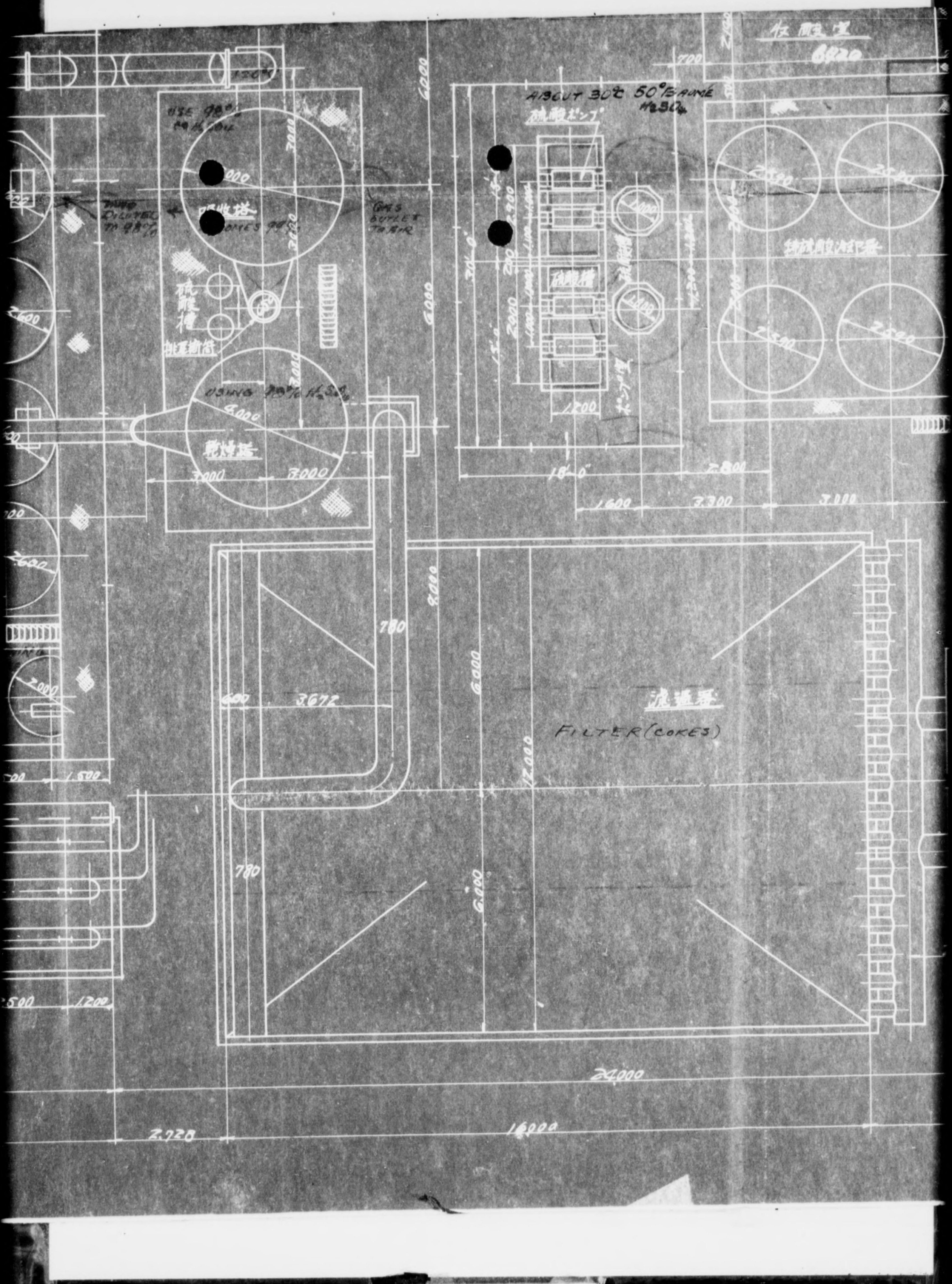

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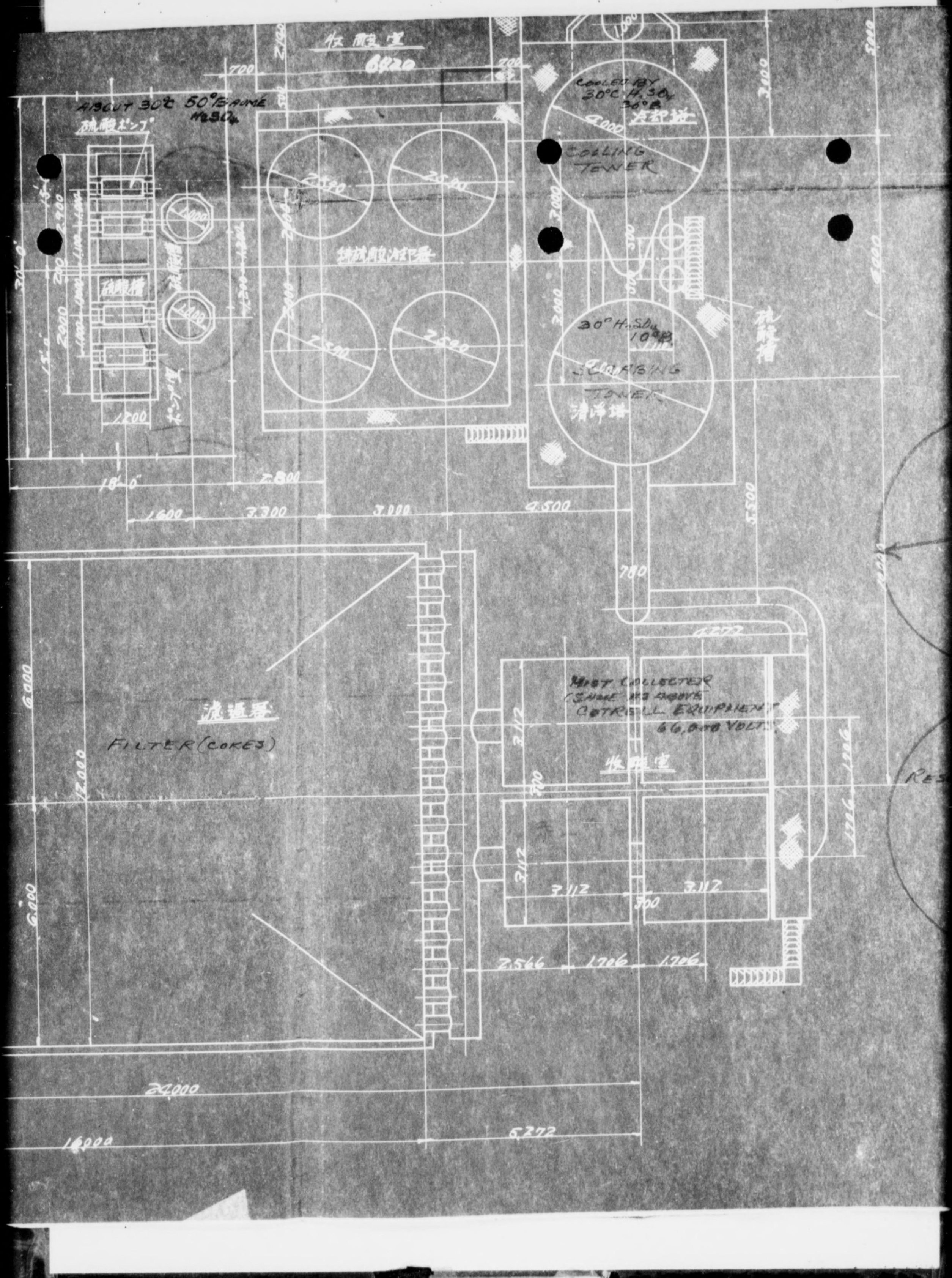
ABOUT 30℃ 50°BAUMÉ
硫酸ポンプ
硫酸貯槽
硫酸貯槽
硫酸貯槽

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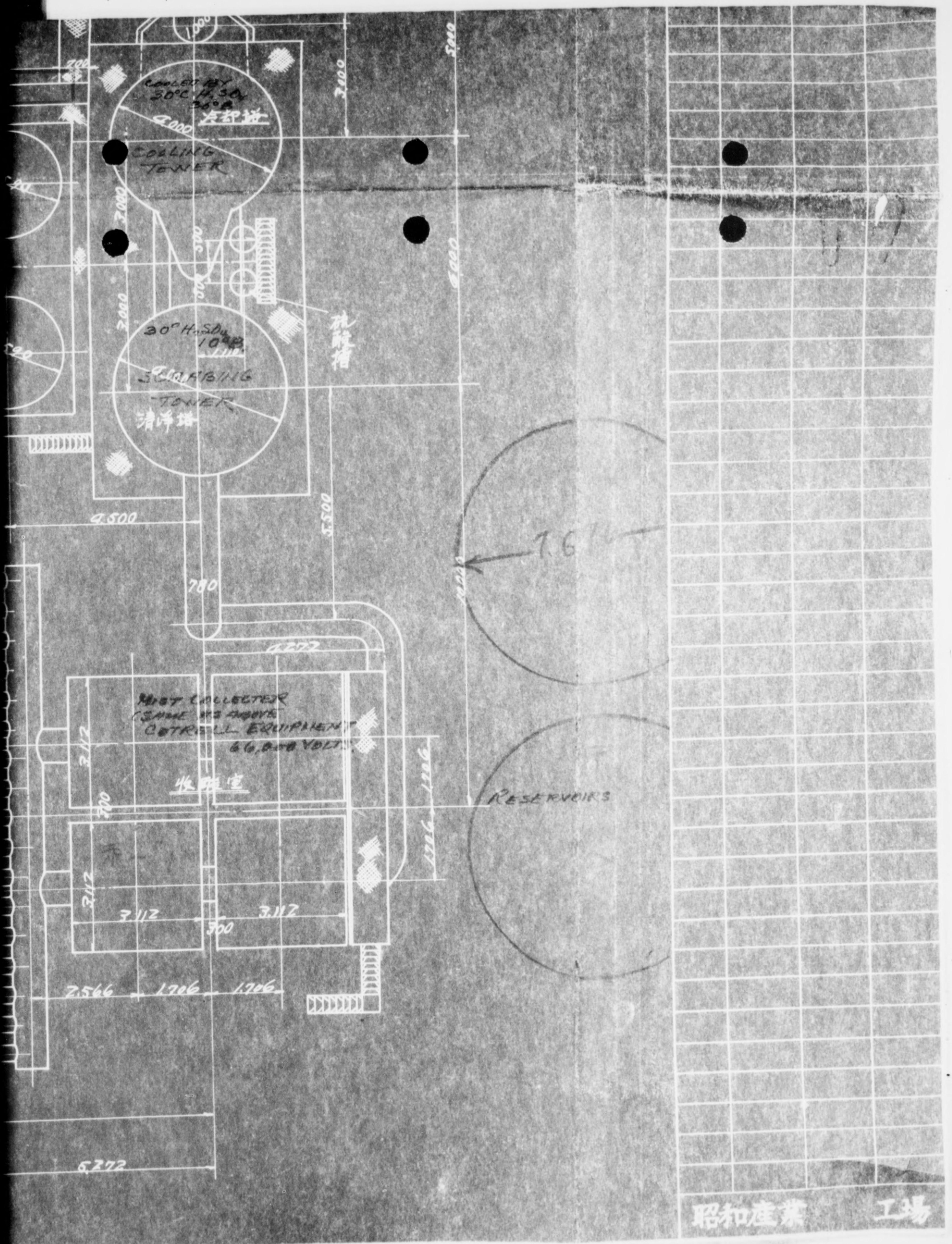

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Production tables of Sulphuric Acid & Fertilizer in Ten (10) years.

Kanegafuchi Spinning Co., Ltd.
Amagasaki Factory.

Investigation on 13th of Nov, 1946

Item \ Year		1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	Total
		12	13	14	15	16	17	18	19	20	21	
Sulphuric Acid 98%	Quantity	Gm.ton. 0	〃 1,710	〃 20,898	〃 22,456	〃 17,510	〃 5,065	〃 3,213	〃 194	〃 236	〃 0	〃 71,282
	%		45.1	47.1	40.8	56.1	65.5	43.1	100	100		
Fertilizer	Quantity	1,116	2,084	23,488	32,551	13,680	2,664	4,242	0	0	0	79,825
	%		54.9	52.9	59.2	43.9	34.5	56.9				
Total		1,116	3,794	44,386	55,007	31,190	7,729	7,455	194	236	0	151,107

Unit, per Gm.ton.

As this factory was designated for reparation our best attention is being paid for custody.
For future producing program we have no plan at present.