DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175015

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

Description of contents

(1) Box no. 3049

(2) Folder title/number: (15)
Nissin Chemical Synthetic Rubber Plant

(3) Date: Nov. 1949 - Dec. 1950

(4) Subject:

Classification	Type of record
9230, 9621	a, c, k

(5) Item description and comment:

Ehime

(6) Reproduction: (Yes) No

(7) Film no. Sheet no.

(Compiled by *National Diet Library*)

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E-# 08-

as of 15 Nov 49

Reparation

(#08)

Nissin Chemical Co. Ltd. Niihama Works.

(1) Temporary use

(A) Synthetic Rubber Pilot Plant

III-12	Hot-water pump
III-15	5 HP motor to the above
IKI-7	Alkari pump
IKI-8	5 HP motor to the above
IKI-21	Air-compressor
IKI-22	Motor to the above
IIA2-1	15 HP Refrigerator
IIA1-2	Motor to the above
IIAI-5	Ammonia receiver
IIAI-6	" "
IIAI-7	Ammonia cooler
IIAI-8	" "
IIAI-9	Brine cooler
IIAI-10	Brine tank
IIA-11	Brine pump
IIAI-12	" "
IIAI-13	Motor to the above
IIAI-14	" " " "

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研究施設

(2) Authorized use

(A) Synthetic Rubber Pilot Plant

IAI-1 Acetylene gas generator

IAI-2 Supply tank to the above

IA2-1 Acetylene gas holder

IA3-1 Acetylene gas purifier

IA3-2 " " "

III-13 Hot-water pump

111-14 " "

III-15 Motor to the above

III-17 " " " "

IIAI-3 5 HP Refrigerator

IIAI-4 Motor to the above

IHI-9 3 HP Vacuum pump

IHI-10 Motor to the above

III-18 Nash pump

III-19 Motor to the above

IJI-6 Nash pump

IJI-7 " "

IJI-8 Motor to the above

IJI-9 " " " "

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Auth. Use

(B) Synthetic Rubber plant

II2-10	Porcelain pump
II2-11	Motor to the above
IKI-51	2 HP Pump
IKI-52	" " "
IKI-53	Motor to the above
IKI-54	" " " "
IIAI-3	30,000 kcal. Cooling Apparatus
IIAI-8	Inter cooler
IIAI-11	Brine pump
IIAI-12	" "
IIAI-13	20 HP motor
IIAI-14	20 HP motor

(C) Caustic Soda Plant

IA3-50	Inter Cooler
IA3-51	Oil Separator
IA3-52	" "
IA3-53	Brine Cooler
IA3-54	Accumulator
IA3-55	Brine tank
IA3-56	Ammonia Receiver
IA3-57	Ammonia condenser
IIA2-27	Motor for ammonia Booster

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(C) Caustic Soda Plant (Continued)

IIA2-28 Motor for Ammonia Compressor

IIA2-29 Motor for Brine Pump

IIIBI-17 Ammonia Booster

IIIBI-18 Ammonia Compressor

IIIB2-19 Brine pump

(D) Sulphuric Acid Plant

All equipment of 1 set and 3 set

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Okada Seisakusho (#05-07)

(1) Authorized use:

05-7-41	Lathe
05-7-45	"
05-7-46	"
05-7-47	"
05-7-53	"
05-7-55	"
05-7-56	"
05-7-60	"
05-7-64	"
05-7-65	"
05-7-66	"
05-7-67	"
05-7-68	"
05-7-69	"
05-7-70	"
05-7-71	"
05-7-72	"
05-7-75	"
05-7-76	"
05-7-77	"
05-7-78	"
05-7-79	"

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Okada, Ehime (cont'd)

(1) Authorized use: (Continued)

05-7-80	Lathe
05-7-81	"
05-7-82	"
05-7-83	"
05-7-84	"
05-7-85	"
05-7-101	"
05-7-102	"
05-7-103	"
05-7-104	"
05-7-137	Drilling Machines
05-7-138	" "
05-7-139	" "
05-7-140	" "
05-7-141	" "
05-7-144	Miscellaneous Machines
05-7-146	Mechanical press
05-7-147	Planers
05-7-154	Motor
05-7-156	Motor

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File: 00
Reparations
Nisshin Chemical
Rubber Plant

cau

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 115013

22 December 1950

CERTIFICATION

Ownership of two (2) machines and/or equipment listed herein has been verified this date. These items of Nisshin Chemical Company, Rubber Plant, are exempt from reparations custody and control.

John R. Aden

JOHN R. ADEN, GS-12
Shikoku Civil Affairs Region

Incl:
List of Verified
Exempt Equipment

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 115013

File: 00
Reparations
Nisshin Chemical
Rubber Plant
eau

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 113013

mr. Adair A
information

10/3/50

LIAISON SECTION
EHIME KEN

EL-664 (E-250)

Com & Ind/Yokota

2 Oct., 1950

TO : Chief, Shikoku Civil Affairs Region
(Attn: Economic Section)

FROM : Chief, Com. & Ind. Sect., Ehime Ken

SUBJECT: Report on Ex Machines

I beg to report to you that the Synthetic Rubber Pilot Plant of Nisshin Chemical Industry Co. (K.K.), reparation plant, installed the attached machines as Ex Machines and that we have confirmed that the 18 machines are EX machines by the delivery slips or the cirtificates. And I further beg to inform you that out of the 145 EX machines of the same plant which were recognized by the authorities on 14 August the following unnecessary machines have been taken out. Accordingly the number of EX machines which are installed at present in the Niihama Plant of Nisshin K.K. are as follows:

a. EX No. of the machines taken out:

EX 52-53, 57, 105-106 & 107-108 (Total: 7)

b. Number of the EX machines at present:

At the Sulphuric acid plant 29

At the Synthetic Rubber Plant 156

Ishikawa

M. Ishikawa
Chief, Com & Ind Sect.,
Ehime Ken

Y:I

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 115013

7 October 1950

* CERTIFICATION *

Ownership of eighteen (18) machines and/or equipment listed herein has been verified this date. These items of Nisshin Chemical Company, Rubber Plant, are exempt from reparations custody and control.

JOHN R. ADEN, GS-12
Shikoku Civil Affairs Region

Incl
List of Verified
Exempt Equipment

Additional EX Items of Vinyl Chloride Experimental Plant

21 Sept. 1950
Niihama Works, (05-08)
Nissin Chemical Co., Ltd.

EX No.	Name of Equipment	Unit	Specification	Date of Purchase or Manufacture	Manufacturer	Purchase Price (¥)
156	Dehumidifier	1	200 ϕ x 4,000	5, July 1950	Nisshin	7,670
157-158	Dehydrator	2	200 ϕ x 3,000	8, July 1950	"	27,747
159	Rectification Vessel	1	622 ϕ x 500	24, June 1950	Takahashi Tekko	14,000
160	Centrifuge	1	800 r/m	-	-	-
161	Motor	1	7.5 HP, 1,400 r/m	23, Oct. 1948	Fuji	21,111
162	Compressor	1	2 HP	-	-	-
163	Motor	1	3 HP	9, Aug. 1948	Fuji	6,339
164	Hot Water Tank	1	980 ϕ x 1,530	12, Sep. 1950	Nisshin	13,000
165	Oil Trap	1	300 ϕ x 400	"	"	2,900
166	Air Filter	1	290 ϕ x 890	"	"	5,750
167	Conductive Sieve	1	¼ HP	-	-	-
168	Motor	1	"	-	-	-
169	Gas Blower	1	2 HP	-	-	-
170	Motor	1	2 HP 1,155 r/m	-	Fuji	-
171	Hot Water Pump	1	ϕ 3' 5 HP	-	Toyo Kikai	-
172	Motor	1	5 HP, 1,740 r/m	-	Fuji	-
173	Motor for Air Mill	1	5 HP, 1,800 r/m	-	-	-
	Total	18				

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DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 113013

File: O C

Reparations
Nisshin Chem.
Rubber plant
case

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 115013

14 August 1950

* Certification *

Ownership of One hundred and forty-five (145) machines and/or equipment listed herein has been verified this date. These items of Nisshin Chemical Company, Niihama Plant, are exempt from reparations custody and control.

John R. Aden

JOHN R. ADEN, GS-12
Shikoku Civil Affairs
Region

Incl:
List of Verified
Exempt Equipment

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 115013

" EX " Equipment in Synthetic Rubber Pilot Plant (Code No. C

EX No.	Name of Equipment	No. of Unit	Specification	Date of Purchase (or manufacture)	Manufacturer	Purc Pr
1	Nash Pump	1	2 KW, ϕ35, 10m³/hr	Feb. 13, 1950	Torishima	
2	Motor for Above	1	2 KW, 1800 r/m	Mar. 16, 1949	Fuji Denki	
3	Oil Heating Furnace	1	200x2000x1800 (Coil for Heating) ϕ25x30			
6	Hydrochloric Acid Generating Pan	1	3000 x 1500 x 1000	Dec. 10, 1949	Ito Chikuro	5
9	Salt Drying Furnace	1	250 x 500 x 800			
4-5	Hydrochloric Acid Generating Pan	2	ϕ900 x 1400, Ferrosilicon	Dec. 15, 1949	Niihama Tekko	25
8	Salt Drying Pan	1	2000 x 750 x 450	Oct. 30, 1949	Home Made	
10	Sulphuric Acid Pump	1	ϕ35, 5HP, 1800 r/m Head 15m	June 7, 1950	Shikoku Kikai	3
11	Motor for Above	1	5 HP, 1800 r/m	Dec. 31, 1948	Fuji Denki	
12	Sulphuric Acid Washing Tank	1	ϕ400 x 5400	Nov. 12, 1949	Home Made	
13	Mist Catcher	1	ϕ200 x 3372	Nov. 12, 1949	"	
14	Sulphuric Acid Pump	1	ϕ35, 5HP 1800r/m Head 15m	Mar. 19, 1949	Shikoku Kikai	3
15	Motor for Above	1	5 HP	May 31, 1948	Fuji Denki	1
16	Sulphuric Acid Tank	1	ϕ900 x 1000	Nov. 30, 1949	Home Made	
17	Hydrochloric Acid Gas Holder	1	ϕ1200 x 2500	Nov. 9, 1949	Ito Kosaku	1
18-19	Hydrochloric Acid Gas Blower	2	ϕ31, 1HP, 400 r/m 0.346m³/m	Nov. 19, 1949	Mikuni Juko	8
20-21	Motor for Above	2	1 HP	June 4, 1949	Fuji Denki	0

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Equipment in Synthetic Rubber Pilot Plant (Code No. 05-8)

21 July 1950
Nihama Works,
Nissin Chemical Co., Ltd.

Specification	Date of Purchase (or manufacture)	Manufacturer	Purchased Price	Date of Installation	Remarks
KW, ϕ35, 10m³/hr	Feb. 13, 1950	Torishima	-	Feb. 20, 1950	
KW, 1800 r/m	Mar. 16, 1949	Fuji Denki	6,860	"	
00x2000x1800 (Coil or Heating) ϕ25x30	Dec. 10, 1949	Ito Chikuro	51,710	Dec. 10, 1949	
000 x 1500 x 1000					
50 x 500 x 800					
900 x 1400, Ferrosilicon	Dec. 15, 1949	Nihama Tekko	250,000	Jan. 10, 1950	
000 x 750 x 450	Oct. 30, 1949	Home Made	-	Dec. 15, 1949	
35, 5HP, 1800 r/m Head 15m	June 7, 1950	Shikoku Kikai	38,000	June 10, 1950	
5 HP, 1800 r/m	Dec. 31, 1948	Fuji Denki	8,548	Nov. 10, 1949	
ϕ400 x 5400	Nov. 12, 1949	Home Made	-	Dec. 15, 1949	
ϕ200 x 3372	Nov. 12, 1949	"	-	"	
ϕ35, 5HP 1800r/m Head 15m	Mar. 19, 1949	Shikoku Kikai	38,000	Jan. 10, 1950	
5 HP	May 31, 1948	Fuji Denki	11,790	"	
ϕ900 x 1000	Nov. 30, 1949	Home Made	-	Dec. 7, 1949	
ϕ1200 x 2500	Nov. 9, 1949	Ito Kosaku	14,624	Dec. 15, 1949	
ϕ31, 1HP, 400 r/m 0.346m³/m	Nov. 19, 1949	Kikuni Juko	82,400	"	
1 HP	June 4, 1949	Fuji Denki	@ 4,664	Dec. 5, 1949	

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EX No.	Name of Equipment	No. of Unit	Specification	Date of Purchase (or manufacture)	Manufact
22	Sulphuric Acid Washing Tower	1	ϕ200 x 5422	Nov. 30, 1949	Takachih
23	Mist Catcher	1	ϕ200 x 3372	Nov. 12, 1949	Home Ma
24	Sulphuric Acid Pump	1	5 HP ϕ35, 50 l/min.	Nov. 18, 1949	Shikoku
25	Motor for Above	1	5 HP 1800 r/m	June 4, 1949	Fuji De
26	Sulphuric Acid Tank	1	ϕ900 x 1000	Nov. 30, 1949	Home Ma
27	Acetylene Gas Gauge	1	10 Bulbs Type	Aug. 26, 1949	Shinagaw
28	Gas Mixer	1	ϕ250 x 1200	Feb. 25, 1950	Home Ma
29	Oil Heating Tank	1	ϕ800 x 900	Nov. 10, 1949	"
30	Oil Gear Pump	1	1 HP, 25ϕ, 400 r/m 5.4m^3/hr	Nov. 19, 1949	Aoki Se
31	Motor for Above	1	1 HP	Nov. 20, 1948	Fuji De
32	Oil Gear Pump	1	2 HP, 50ϕ, 300 r/m, 12.15m^3/hr	Nov. 19, 1949	Aoki Se
33	Motor for Above	1	2 HP	Nov. 5, 1948	Fuji D
34	Mixed Gas Preheater	1	ϕ300 x 800	Feb. 28, 1950	Home M
35-36	Reaction Tower	2	ϕ280 x 40	Dec. 15, 1949	Takach
37	Oil Gear Pump	1	1 HP, 25ϕ, 400 r/m, 5.4m^3/hr	Nov. 19, 1949	Aoki S
38	Motor for Above	1	2 HP	Nov. 5, 1948	Fuji D
39	Oil Gear Pump	1	2HP, 50ϕ, 300 r/m, 12.15m^3/hr	Nov. 19, 1949	Aoki S
40	Motor for Above	1	2 KW	Dec. 13, 1947	Fuji I
41	Oil Heating Tank	1	ϕ800 x 900	Nov. 10, 1949	Home M
42	Thermometer	1 set	Thermal-couple Type	Sept. 3, 1949	Chino
43	Washing Tower	1	ϕ200 x 350	Jan. 23, 1950	Home M
44	Alkali Tank	1	ϕ600 x 1000	Nov. 10, 1949	"
45	Alkali Pump	1	1HP, 1750r/m, 0.2m^3/m	Nov. 19, 1949	Awamu

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Specification	Date of Purchase (or manufacture)	Manufacturer	Purchased Price	Date of Installation	Remarks
00 x 5422	Nov. 30, 1949	Takachiho	6,840	Dec. 15, 1949	
00 x 3372	Nov. 12, 1949	Home Made	-	"	
P ϕ35, 50 l/min.	Nov. 18, 1949	Shikoku Kikai	-	Dec. 27, 1949	
P 1800 r/m	June 4, 1949	Fuji Denki	8,548	Dec. 15, 1949	
00 x 1000	Nov. 30, 1949	Home Made	-	"	
Bulbs Type	Aug. 26, 1949	Shinagawa Keiki	4,000	May 15, 1950	
50 x 1200	Feb. 25, 1950	Home Made	4,000	Feb. 25, 1950	
00 x 900	Nov. 10, 1949	"	-	Dec. 2, 1949	
HP, 25ϕ, 400 r/m $4m^3/hr$	Nov. 19, 1949	Aoki Seisaku	15,000	Mar. 10, 1950	
HP	Nov. 20, 1948	Fuji Denki	4,664	Mar. 10, 1950	
HP, 50ϕ, 300 r/m, $.15m^3/hr$	Nov. 19, 1949	Aoki Seisaku	25,000	"	
HP	Nov. 5, 1948	Fuji Denki	9,629	Dec. 12, 1949	
00 x 800	Feb. 28, 1950	Home Made	7,000	Feb. 28, 1950	
80 x 40	Dec. 15, 1949	Takachiho	23,380	Jan. 6, 1950	
HP, 25ϕ, 400 r/m, $.4m^3/hr$	Nov. 19, 1949	Aoki Seisaku	15,000	Dec. 5, 1949	
HP	Nov. 5, 1948	Fuji Denki	9,629	"	
HP, 50ϕ, 300 r/m, $2.15m^3/hr$	Nov. 19, 1949	Aoki Seisaku	25,000	"	
KW	Dec. 13, 1947	Fuji Denki	6,860	"	
00 x 900	Nov. 10, 1949	Home Made	-	"	
hermal-couple Type	Sept. 3, 1949	Chino	10,000	Feb. 5, 1950	
00 x 350	Jan. 23, 1950	Home Made	3,100	Jan. 23, 1950	
00 x 1000	Nov. 10, 1949	"	-	Nov. 30, 1949	
HP, 1750r/m, $0.2m^3/m$	Nov. 19, 1949	Awamura	11,000	"	

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EX No.	Name of Equipment	No. of Unit	Specification	Date of Purchase (or manufacture)	Manufac	Spec
46	Motor for Above	1	2 HP 1750 r/m	Nov. 5, 1948	Fuji De	P 17
47	Washing Tower	1	ϕ200 x 2000	Nov. 15, 1949	Home Ma	0 x
48	V.C. Holder	1 20	ϕ1200 x 2500	Nov. 9, 1949	Ito Kos	00 x
49	Compressor	1	1HP, 400r/m, 0.6T/D	Mar. 20, 1949	Sanyo T	, 40
50	Motor for Above	1	2 KW	June 4, 1948	Yasukaw	W
51	Condenser	1	ϕ500 x 1200	Dec. 13, 1949	Takahas	0 x
52-53	V.C. Measuring Tank	2	ϕ500 x 600	Oct. 1, 1949	Nishiya	0 x
54-55	Solvent Cooler	2	ϕ100 x 2000	Dec. 30, 1949	Home Ma	0 x
56	Recovering V.C. Condenser	1	ϕ130 x 1200	Jan. 5, 1950	"	0 x
57	V.C. Measuring Tank	1	ϕ500 x 600	Oct. 1, 1949	Nishiya	00 x
58-59	Solvent Absorbing Tower	2	ϕ100 x 3000	Nov. 25, 1949	Takachi	00 x
60	Seal Tank	1	ϕ75 x 2000	Dec. 30, 1949	Toyo Te	5 x 2
61	V.C. Measuring Tank	1	ϕ100 x 500	Oct. 1, 1949	Nishiya	00 x
62-63	V.C. Preheater	2	ϕ200 x 1100	Dec. 15, 1949	Toyo Te	00 x
64-65	Total Condenser	2 31	ϕ250 x 1323	Dec. 10, 1949	Shincho	50 x
66-68	Packed Tower	3	ϕ100 x 5000	"	"	00 x
69	Partial Condenser	1	ϕ100 x 1000	"	"	00 x
70	Liquid Surface Regulator	1	ϕ200 x 600	Apr. 15, 1950	Home Ma	00 x
71	Pure V.C. Tank	1	ϕ622 x 500	Dec. 10, 1949	Shincho	22 x
72	Ethylidene Dichloride Tank	1	ϕ300 x 445	Apr. 26, 1950	Home Ma	00 x
73-74	Pure V.C. Measuring Tank	2 40	ϕ500 x 600	Oct. 1, 1949	Nishiya	00 x
75	Seal Tank	1	ϕ100 x 2000	Dec. 15, 1949	Toyo T	00 x
76	Thermometer	1	Thermal-Couple Type MV-Meter	Nov. 30, 1949	Hokush	ermo -Met

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Specification	Date of Purchase (or manufacture)	Manufacturer	Purchased Price	Date of Installation	Remarks
P 1750 r/m	Nov. 5, 1948	Fuji Denki	4,629	Nov. 30, 1949	
0 x 2000	Nov. 15, 1949	Home Made	-	"	
00 x 2500	Nov. 9, 1949	Ito Kosakusho	7,558	Dec. 15, 1949	
, 400r/m, 0.6T/D	Mar. 20, 1949	Sanyo Tekko	7,000	Dec. 7, 1949	
W	June 4, 1948	Yasukawa	6,730	"	
0 x 1200	Dec. 13, 1949	Takahashi Tekko	12,900	Dec. 25, 1949	
0 x 600	Oct. 1, 1949	Nishiyama	-	"	
0 x 2000	Dec. 30, 1949	Home Made	5,250	Jan. 30, 1950	
0 x 1200	Jan. 5, 1950	"	9,500	"	
0 x 600	Oct. 1, 1949	Nishiyama	-	Dec. 25, 1949	
0 x 3000	Nov. 25, 1949	Takachiho	-	Jan. 30, 1950	
5 x 2000	Dec. 30, 1949	Toyo Tekko	900	"	
0 x 500	Oct. 1, 1949	Nishiyama	-	Dec. 27, 1949	
0 x 1100	Dec. 15, 1949	Toyo Tekko	4,000	"	
0 x 1323	Dec. 10, 1949	Shinohara	-	"	
0 x 5000	"	"	-	"	
0 x 1000	"	"	-	"	
0 x 600	Apr. 15, 1950	Home Made	5,950	Apr. 19, 1950	
2 x 500	Dec. 10, 1949	Shinohara	-	Dec. 27, 1949	
0 x 445	Apr. 26, 1950	Home Made	3,150	Apr. 30, 1950	
0 x 600	Oct. 1, 1949	Nishiyama	-	Dec. 27, 1949	
0 x 2000	Dec. 15, 1949	Toyo Tekko	900	"	
ermal-Couple Type -Meter	Nov. 30, 1949	Hokushin Denki	14,000	Dec. 10, 1949	

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EX No.	Name of Equipment	No.of Unit	Specification	Date of Purchase (or manufacture)	Manufact
77	Brine Tank	1	ϕ600 x 900	Aug. 16, 1949	Home Mad
78	Brine Pump	1	1 HP	Mar. 7, 1950	Torishi
79	Motor for Above	1	1 HP	Nov. 20, 1948	Fuji De
80	Brine Tank	1	ϕ350 x 800	Mar. 5, 1950	Home Ma
81	Alkali Pump	1	1 HP	Mar. 7, 1950	Torishi
82	Motor for Above	1	2 KW	Jan. 22, 1948	Fuji De
83	V.C. Evaporator	1	ϕ100 x 1500	Dec. 15, 1949	Home Ma
84-85	Copper Solution Tower	2	ϕ440 x 1730	Feb. 5, 1950	Home Ma
86	Washing Tower	1	ϕ300 x 1875		
90	Intermediate Tank	1	ϕ250 x 1405		
87	Alkali Washing Tower	1	ϕ200 x 4000	Feb. 10, 1950	"
88	Alkali Tank	1	ϕ600 x 900	Nov. 12, 1949	"
89	Alkali Pump	1	2 HP ϕ35 Head 15m 1720r/m	May 2, 1950	Torishi
91	Sulphuric Acid Washing Tower	1	ϕ200 x 4000	Nov. 12, 1949	Home Ma
92	Sulphuric Acid Tank	1	ϕ600 x 900	"	"
93	Mist Catcher	1	ϕ200 x 3372	"	"
94	Pure V.C. Condenser	1	1500 x 800 x 300	Dec. 10, 1949	Taguchi
95-96	Pure V.C. Measuring Tank	2	ϕ500 x 600, Stainless	Oct. 1, 1949	Nishiy
97-98	Pure V.C. Tank	2	ϕ620 x 900, Stainless	Nov. 15, 1949	Home M
105-106	Un-Polymerized V.C. Condenser	2	ϕ450 x 1200	Nov. 30, 1949	Shinch
107-108	Un-Polymerized V.C. Measuring Tank	2	ϕ500 x 500	Oct. 1, 1949	Nishiy
109	Hot Water Tank	1	1300 x 900 x 1100	Feb. 3, 1950	Home M

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Specification	Date of Purchase (or manufacture)	Manufacturer	Purchased Price	Date of Installation	Remarks
00 x 800	Aug. 16, 1949	Home Made	-	Apr. 10, 1950	
HP	Mar. 7, 1950	Torishima	-	Mar. 10, 1950	
HP	Nov. 20, 1948	Fuji Denki	4,664	"	
50 x 800	Mar. 5, 1950	Home Made	-	Mar. 5, 1950	
HP	Mar. 7, 1950	Torishima	-	Mar. 10, 1950	
KW	Jan. 22, 1948	Fuji Denki	6,860	"	
00 x 1500	Dec. 15, 1949	Home Made	3,500	Dec. 15, 1949	
40 x 1730	Feb. 5, 1950	Home Made	13,150	Feb. 5, 1950	
00 x 1875					
50 x 1405					
00 x 4000	Feb. 10, 1950	"	-	Feb. 15, 1950	
00 x 900	Nov. 12, 1949	"	-	Dec. 15, 1949	
HP ø35 ad 15m 1720r/m	May 2, 1950	Torishima	-	May 15, 1950	
00 x 4000	Nov. 12, 1949	Home Made	-	Dec. 6, 1950	
00 x 900	"	"	-	Dec. 15, 1949	
00 x 3372	"	"	-	Dec. 15, 1949	
00 x 800 x 300	Dec. 10, 1949	Taguchi	-	Jan. 30, 1950	
00 x 600, Stainless	Oct. 1, 1949	Nishiyama	-	Jan. 30, 1950	
20 x 900, Stainless	Nov. 15, 1949	Home Made	-	Nov. 20, 1949	
50 x 1200	Nov. 30, 1949	Shinohara	-	Dec. 25, 1949	
00 x 500	Oct. 1, 1949	Nishiyama	-	"	
00 x 900 x 1100	Feb. 3, 1950	Home Made	6,050	Feb. 3, 1950	

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EX No.	Name of Equipment	No. of Unit	Specification	Date of Purchase (or manufacture)	Manufa
110	V.C. Measuring Tank	1	ϕ8600 x 1000 Stainless	Oct. 1, 1949	Nishiy
111	Distilled Water Measuring Tank	1	ϕ500 x 600	"	"
112	V.C. Measuring Tank	1	ϕ500 x 600 Stainless	"	"
113-116	Washing Tank	4	ϕ900 x 1200	Nov. 20, 1949	Home M
117-120	Methanol Washing Tank	4	ϕ900 x 1200	Dec. 23, 1949	Takaha
121-128	Portable Agitator	8	1/8 HP, 350r/m	Nov. 19, 1949	Satake
129-130	Centrifuge	2	2 HP, ϕ600	Nov. 9, 1949	Fujiwa Mitsub
131-132	Motor for Above	2	2 HP, 1730r/m		
134	Motor for Above	1	1 HP	Sept. 10, 1948	Fuji E
135	Methanol Condenser	1	ϕ500 x 1500	Nov. 30, 1949	Fujiwa
137	Distillated Water Tank	1	Stainless, 1000 x 1000 x 2000	Nov. 20, 1949	Home E
139	Motor for Compressor	1	3 HP	June 4, 1949	Fuji E
140	Oil Separator	1	ϕ25 x 1000	Nov. 25, 1949	Home E
141	Distilled Water Supply Apparatus	1	Stainless, ϕ600 x 1000	Dec. 16, 1949	Makin
142	Rotor Meter	1	Athetylene Use	Nov. 15, 1949	Shima
143	"	1	HCl Use	"	"
144	Vacuum Pump	1	3 HP 0.1m/m Hg	Mar. 1, 1950	Nishi Kika
145	Motor for Above	1	2 HP	Nov. 5, 1948	Fuji
146-147	Dehydration Tower	2	ϕ30 x 1700	Feb. 25, Feb. 25, 1950	Home
150	Brine Tank	1	ϕ500 x 800		
148	Brine Pump	1	2 HP 0.2m³/m Head 10 m	Apr. 27, 1950	Ebara

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175015

Specification	Date of Purchase (or manufacture)	Manufacturer	Purchased Price	Date of Installation	Remarks
3600 x 1000 Stainless	Oct. 1, 1949	Nishiyama	-	Jan. 10, 1950	
500 x 600	"	"	-	"	
500 x 600 Stainless	"	"	-	Dec. 25, 1949	
900 x 1200	Nov. 20, 1949	Home Made	-	Nov. 29, 1949	
900 x 1200	Dec. 23, 1949	Takahashi	108,400	Feb. 15, 1950	
1/8 HP, 350r/m	Nov. 19, 1949	Satake	188,960	Feb. 15, 1950	
2 HP, ø600 3 HP, 1730r/m	Nov. 9, 1949	Fujiwara Mitsubishi	190,000	Nov. 26, 1949	
1 HP	Sept. 10, 1948	Fuji Denki	5,631	Nov. 11, 1949	
1500 x 1500	Nov. 30, 1949	Fujiwara	-	Dec. 25, 1949	
Stainless, 1000 x 1000 x 2000	Nov. 20, 1949	Home Made	-	Nov. 30, 1949	
3 HP	June 4, 1949	Fuji Denki	6,339	Apr. 15, 1950	
ø25 x 1000	Nov. 25, 1949	Home Made	-	Nov. 27, 1949	
Stainless, ø300 x 1000	Dec. 16, 1949	Makino Komu	13,790	Dec. 20, 1949	
Athetylene Use	Nov. 15, 1949	Shimazu	12,000	May 10, 1950	
HCl Use	"	"	12,000	"	
3 HP 0.1m/m Hg	Mar. 1, 1950	Nishihara Kikai	-	Mar. 10, 1950	
2 HP	Nov. 5, 1948	Fuji Denki	9,629	"	
ø30 x 1700 ø500 x 800	Feb. 25, Feb. 25, 1950	Home Made	15,340	Mar. 6, 1950	
2 HP 0.2m³/m Head 10 m	Apr. 27, 1950	Ebara	-	May 15, 1950	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175015

EX No.	Name of Equipment	No. of Unit	Specification	Date of Purchase (or manufacture)	Manuf
149	Motor for Above	1	2 HP	Nov. 1, 1948	Fuji
151	Gas Meter	1	10 Bulbs Type	Aug. 26, 1949	Shina
152	Nash Pump	1	2 HP 50m^3/hr	Mar. 7, 1950	Toria
153	Motor for Above	1	2 HP	Oct. 4, 1948	Fuji
154	Air Mill	1	200 - 300 kg/clay	June 21, 1950	Nakan
155	Pure V.C. Tank	1	Press. 10 kg/cm^2	June 24, 1950	Takah
	T o t a l	145			

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175013

Specification	Date of Purchase (or manufacture)	Manufacturer	Purchased Price	Date of Installation	Remarks
HP	Nov. 1, 1948	Fuji Denki	9,534	May 15, 1950	
Bulbs Type	Aug. 26, 1949	Shinagawa	4,000	May 15, 1950	
HP 50m^3/hr	Mar. 7, 1950	Torishima	12,000	Apr. 15, 1950	
HP	Oct. 4, 1948	Fuji Denki	5,457	"	
00 - 300 kg/clay	June 21, 1950	Nakanihon	-	June 25, 1950	
ress. 10 kg/cm^2	June 24, 1950	Takahashi	-	June 30, 1950	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175013

File Chem Nisshin Plant Rubber Ean

Reparation Equipments
of
Synthetic Rubber Plant

Inventory No.	Name of Equipment	Unit	Present Location	Remark
IA1- 1 to 2	C_2H_2 Generator	2	Synthetic Rubber Plant	
IA1- 3	C_2H_2 Supply Tank for Generating	1	"	
IA1- 4 to 5	Water Sealed Tank	2	"	
IA1- 6 to 7	Separator	2	"	
IA2- 1	C_2H_2 Gas Reservoir	1	"	
IA3- 1 to 2	C_2H_2 Purifier	2	"	
IH1- 1 to 5	Cyanhydrine Reaction Machine	5	"	
IH1- 6 to 9	5 HP Motor	4	Warehouse	Dead Storage
IH1-10 to 11	Methanol Measuring Tank	2	Synthetic Rubber Plant	
IH1-12 to 16	Cyan Soda Measuring Tank	5	"	
IH1-17 to 18	Ethylene Chlorhydrine Measuring Tank	2	"	
IH1-19 to 28	Vacuum Receiver	10	"	
IH1-29 to 33	Reaction Liquid Filter	5	"	
IH1-34	5 HP Vacuum Pump	1	"	
IH1-35	5 HP Motor	1	Warehouse	Dead Storage
IH1-36	3 HP Vacuum Pump	1	Synthetic Rubber Plant	

DECLASSIFIED E.O. 12055 SECTION 3-402/NNDG NO. 13

Reparation Equipments
of
Synthetic Rubber Plant

Inventory No.	Name of Equipment	Unit	Present Location	Remark
IA1- 1 to 2	C_2H_2 Generator	2	Synthetic Rubber Plant	
IA1- 3	C_2H_2 Supply Tank for Generating	1	"	
IA1- 4 to 5	Water Sealed Tank	2	"	
IA1- 6 to 7	Separator	2	"	
IA2- 1	C_2H_2 Gas Reservoir	1	"	
IA3- 1 to 2	C_2H_2 Purifier	2	"	
IH1- 1 to 5	Cyanhydrine Reaction Machine	5	"	
IH1- 6 to 9	5 HP Motor	4	Warehouse	Dead Storage
IH1-10 to 11	Methanol Measuring Tank	2	Synthetic Rubber Plant	
IH1-12 to 16	Cyan Soda Measuring Tank	5	"	
IH1-17 to 18	Ethylene Chlorhydrine Measuring Tank	2	"	
IH1-19 to 28	Vacuum Receiver	10	"	
IH1-29 to 33	Reaction Liquid Filter	5	"	
IH1-34	5 HP Vacuum Pump	1	"	
IH1-35	5 HP Motor	1	Warehouse	Dead Storage
IH1-36	3 HP Vacuum Pump	1	Synthetic Rubber Plant	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 1 5 0 1 3

Inventory No.	Name of Equipment	Unit	Present Location	Remark
II4- 3	Receiver	1	Synthetic Rubber Plant	
II4- 4	Condenser	1	"	
II4- 5	Vacuum Pump	1	"	
II4- 6	7.5 HP Motor	1	Warehouse	Dead Storage
IJ1- 1 to 2	M.V.A. Reaction Apparatus	2	Synthetic Rubber Plant	
IJ1- 3 to 4	15 HP Motor	2	Warehouse	Dead Storage
IJ1- 5 to 6	Sub-Apparatus for Above	2	Synthetic Rubber Plant	
IJ1- 7	Nash Pump	1	"	
IJ1- 8	2 HP Motor	1	Warehouse	Dead Storage
IJ1- 9	Separator	1	Synthetic Rubber Plant	
IJ1-10	Gas Mixing Tank	1	"	
IJ1-11	Nash Pump	1	"	
IJ1-12	7½ HP Motor	1	Warehouse	Dead Storage
IJ1-13	Separator	1	Synthetic Rubber Plant	
IJ1-14	Supply Water Tank	1	"	
IJ1-15	Condenser	1	"	
IJ1-16	Distillated Water Tank	1	"	
IJ1-17	½ HP Pump	1	"	

Inventory No.	Name of Equipment	Unit	Present Location	Remark
II4- 3	Receiver	1	Synthetic Rubber Plant	
II4- 4	Condenser	1	"	
II4- 5	Vacuum Pump	1	"	
II4- 6	7.5 HP Motor	1	Warehouse	Dead Storage
IJ1- 1 to 2	M.V.A. Reaction Apparatus	2	Synthetic Rubber Plant	
IJ1- 3 to 4	15 HP Motor	2	Warehouse	Dead Storage
IJ1- 5 to 6	Sub-Apparatus for Above	2	Synthetic Rubber Plant	
IJ1- 7	Nash Pump	1	"	
IJ1- 8	2 HP Motor	1	Warehouse	Dead Storage
IJ1- 9	Separator	1	Synthetic Rubber Plant	
IJ1-10	Gas Mixing Tank	1	"	
IJ1-11	Nash Pump	1	"	
IJ1-12	7½ HP Motor	1	Warehouse	Dead Storage
IJ1-13	Separator	1	Synthetic Rubber Plant	
IJ1-14	Supply Water Tank	1	"	
IJ1-15	Condenser	1	"	
IJ1-16	Distillated Water Tank	1	"	
IJ1-17	½ HP Pump	1	"	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 81013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175013

file

HEADQUARTERS
SHIKOKU CIVIL AFFAIRS REGION
APO 1050

JRA/CAI/st

Takamatsu, Shikoku
6 November 1949

AG 004

SUBJECT: Application for Conversion of Synthetic Rubber Plant, Missin Chemical Co., Ltd., Ehime Prefecture

THRU: Commanding General
Eighth Army
APO 500
ATTN: Civil Affairs Section

TO: Supreme Commander for the Allied Powers,
APO 500
ATTN: Economic & Scientific Section

ECON

1. Inclosed herewith is a copy of an application of the Missin Chemical Co., Ltd, Niihama Works, Ehime Prefecture for the conversion of the Synthetic Rubber Plant (Code No. 05-8) to the production of Vinyl Chloride.

2. This application has been submitted to the Japanese Government by subject company for porper submission to the Supreme Commander for the Allied Powers in accordance with SCAPIN 1355, 22 November 1946, AG 004, (22 November 1946)ESS/IN, subject "Permits for Conversion and Reconversion of Industrial Plants." Reparations machinery which the company is seeking approval for authorized use in conjunction with the conversion permit is listed in inclosure to the application (Inc 1-1).

3. In view of the fact that the vinyl Chloride produced will be sold to the Sumitomo Electric Co, Osaka, thereby directly stimulating the export program of electrical products this headquarters recommends favorable consideration.

Incl
As indicated

L. E. TOOLS
Colonel, Inf.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175013

2 Dec. 1949

TO : Commanding Officer, Shikoku Civil Affairs Region APO 1050 Takamatsu, Kagawa-ken

ATTENTION TO : Chief of Economic Sec., Shikoku Civil Affairs Region

SUBJECT : Application Concerning Permit for Conversion of Reparation Plant

FROM : Niihama Works, Nissin Chemical Co., Ltd. 31 Otsu, Niihama, Ehime-ken

Dear Sir;

In reference to the above subject I have separately submitted a conversion application to the Trade and Industry Minister of Japanese Government in order to utilize the Synthetic Rubber Pilot Plant for the manufacture of vinyl chloride on experimented basis as stated in the separate paper attached hereto.

With your valued guidance and support, I am firmly convinced that we will be able to put into practice the 100-ton plant construction plan for vinyl chloride production as soon as the interim experiment is completed. For your reference I enclosed herewith a copy of the said application.

Wishing your esteemed attention on this matter and your valued recommendation for permission,

Very respectfully yours,

Y. Harada

Yoshishige Harada

Custodian of Niihama Works,
Nissin Chemical Co., Ltd.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175013

25 Nov. 1949

TO : Heitaro Inagaki Esq.
Minister of Trade & Industry

SUBJECT : Application Concerning Permit for Conversion of Reparation Plant

FROM : Niihama Works, Nissin Chemical Co., Ltd.
31 Otsu, Niihama, Ehime-ken

1. Name of the designated plant

Synthetic Rubber Pilot Plant (Code No. 05-8),
Niihama Works, Nissin Chemical Co., Ltd.
(Former Sumitomo Kagaku K.K.)

2. Location of the plant

31 Otsu, Niihama, Ehime-ken

3. Name of products planned

Vinyl Chloride

4. Experience of the production planned

None

5. 1949 - 1945 production

a. Synthetic Rubber
1943 ..... 3,176 Kg
1944 ..... 10,670 Kg
1945 ..... 2,856 Kg

b. Acetaldehyde (Research purpose)
Sept. 1946 (Approx. 10 days) 50 Kg

c. Ethyl Alcohol (Research purpose)
Oct. 1946 (Approx. 10 days) 50 Kg

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175013

6. Period of desired permission

From the date authorized to such time as the equipment is removed for reparation or until policies established by the Supreme Commander for Allied Power dictated otherwise.

7. Scale of production planned by months for the period on this application

Vinyl Chloride ..... 100 Kg/Day

8. Name or Location to which products are to be delivered

A part of vinyl chloride will be used for experimentation to industrialize the scale in our Works. The remain will be delivered to Sumitomo Denki Kōgyo K.K., Osaka for the material of insulating electrical wires.

9. Scale of proposed changes in physical facilities

No changes in the physical facilities, although several equipments will be newly installed and few changes will be done in arrangement of piping. The electric supply lines will used as it is.

10. Intended expense for conversion

Piping	100,000
Electric Work	20,000
Lagging Work	200,000
Miscellaneous	80,000
	400,000 Yen

Remark: Excluding the expense for purchasing new equipments

11. Plan and location to continue the production after reparation removal.

In view of the importance of vinyl production, we plan to continue the operation of its production even after the reparation removal. For the purpose, we will have to remodel or repair some of the equipments from the other plants and the necessary equipments which are not available in the plants will be purchased.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175013

It is really difficult to install a new plant to commence the vinyl production immediately without utilizing the reparation facilities because it requires certain time of period and huge amount of expense to gather the necessary equipments for the process.

Y. Harada
Yoshishige Harada

Custodian of Niihama Works,
Nissin Chemical Co., Ltd.

M. Doi
Masaharu Doi

President of
Nissin Chemical Co., Ltd.

3 Incl: 1. Equipments Desired for Authorized Use
2. Number of Employees
3. Blue Print .... Arrangement of Synthetic Rubber Pilot Plant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 115013

OHR

Equipments Desired for Authorized Use

1. Name of Plant: Synthetic Rubber Pilot Plant (Code No.05-8)
2. Total Number of Equipments: 141
3. Number of Equipments in Authorized Use: 37
   Balance 104
4. Required Number of Equip. for Use on Experimental Basis in Producing Vinyl Chloride: 62
   Balance 42

Inventory No.	Name of Equipments	Unit
IH1-14	½ HP Pump	1
IH1-15	½ HP Motor	1
II1- 1 to 4	Polymerization Tank	4
II1- 5 to 8	1 HP Motor	4
II1- 9	Condenser for Butadiene Measuring Tank	1
II1-10	Butadiene Measuring Tank	1
II1-20	Na-Oleate Solution Reservoir	1
II1-21 to 24	Latex Reservoir	4
II3- 1	Roll	1
II3- 2	30 HP Motor	1
II4- 1	Vacuum Dryer	1
II4- 2	Vacuum Pump	1
II4- 3	15 HP Motor	1
II4- 4 to 5	Vacuum Tank	2
IJ2- 1	Water Cooling Condenser	1
IJ2- 2	Separation Water Tank	1
IJ3- 1	Ice Condenser	1
IJ3- 3	Directly Brine Contact Dehydrator	1
IJ4- 3 to 4	Toluol Circulation Pump	2

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 115013

CAK

Inventory No.	Name of Equipments	Unit
IJ4- 5 to 6	1 HP Motor	2
IJ4- 7	Toluol Heating Apparatus	1
IJ4- 8	Toluol Fractionating Column	1
IJ4- 9	Toluol Receive Tank	1
IJ4-10	Toluol Reservoir	1
IJ4-11	Toluol Drying Apparatus	1
IJ4-15 to 18	M.V.A. Reservoir	4
IK1- 1 to 2	M.V.A. Reduction Tank	2
IK1- 3 to 4	5 HP Motor	2
IK1-10 to 20	Butadiene Purifier	11
IK3- 1	Not-Reduced M.V.A. Condenser	1
IK3- 2	Butadiene Condenser	1
IK3- 3 to 6	Butadiene Reservoir	4
	T o t a l	62

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 115015

Equipment in Authorized Use

1. Name of Plant: Synthetic Rubber Pilot Plant (Code No.05-8)
2. Total Number of Equipments: 141
3. Number of Equipment in Authorized Use: 37
   Balance 104

Inventory No.	Name of Equipments	Unit
II1 - 12	Hot Water Pump	1
II1 - 15	2 HP Motor	1
* IK1 - 7	Alkali Pump	1
* IK1 - 8	2 HP Motor	1
IK1 - 21	Air Compressor	1
IK1 - 22	5 HP Motor	1
* IIA1 - 1	Refrigerator	1
* IIA1 - 2	15 HP Motor	1
* IIA1 - 5 to 6	Ammonia Receiver	2
* IIA1 - 7 to 8	Ammonia Cooler	2
* IIA1 - 9	Brine Cooler	1
* IIA1 - 10	Brine Tank	1
* IIA1 - 11 to 12	Brine Pump	2
* IIA1 - 13 to 14	1 HP, 2 HP Motor	2
II1 - 13 to 14	Hot Water Pump	2
II1 - 16 to 17	1 HP, $\frac{1}{4}$ HP Motor	2
IIA1 - 3	Refrigerator	1
IIA1 - 4	5 HP Motor	1
* IA1 - 1	C_2H_2 Generator	1
* IA1 - 2	C_2H_2 Supply Tank for Generating	1
* IA2 - 1	C_2H_2 Holder	1
* IA3 - 1 to 2	C_2H_2 Purifier	2
IH1 - 9	Vacuum Pump	1
IH1 - 10	3 HP Motor	1
II1 - 18	Nash Pump	1
II1 - 19	7.5 HP Motor	1
IJ1 - 6 to 7	Nash Pump	2
IJ1 - 8 to 9	2 HP Motor	2
	T o t a l	37

Remark: The listed equipments were approved for "Authorized Use", by 4th indorsement, dated 9 Aug. 1949, GHQ, for producing Methyl Chloride and Acetylene on an experimental basis. However, we desire to utilize the (*) marked equipments in parallel with the additional equipments listed on page 1 & 2 (incl. 1-1) for producing Vinyl Chloride on an experimental basis.

incl. 1 - 2

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175015

Number of Employees

Synthetic Rubber Pilot Plant (Code No. 05-8)

	Laborer	Engineer	Clerk	Total
Present No. of Personnel	7	3	1	11
No. of Personnel to be Increased or Decreased for this Manufacturing	Shift of Working Place 58	3	0	61
Total	65	6	1	72

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 115015

SYNTHETIC RUBBER PLANT

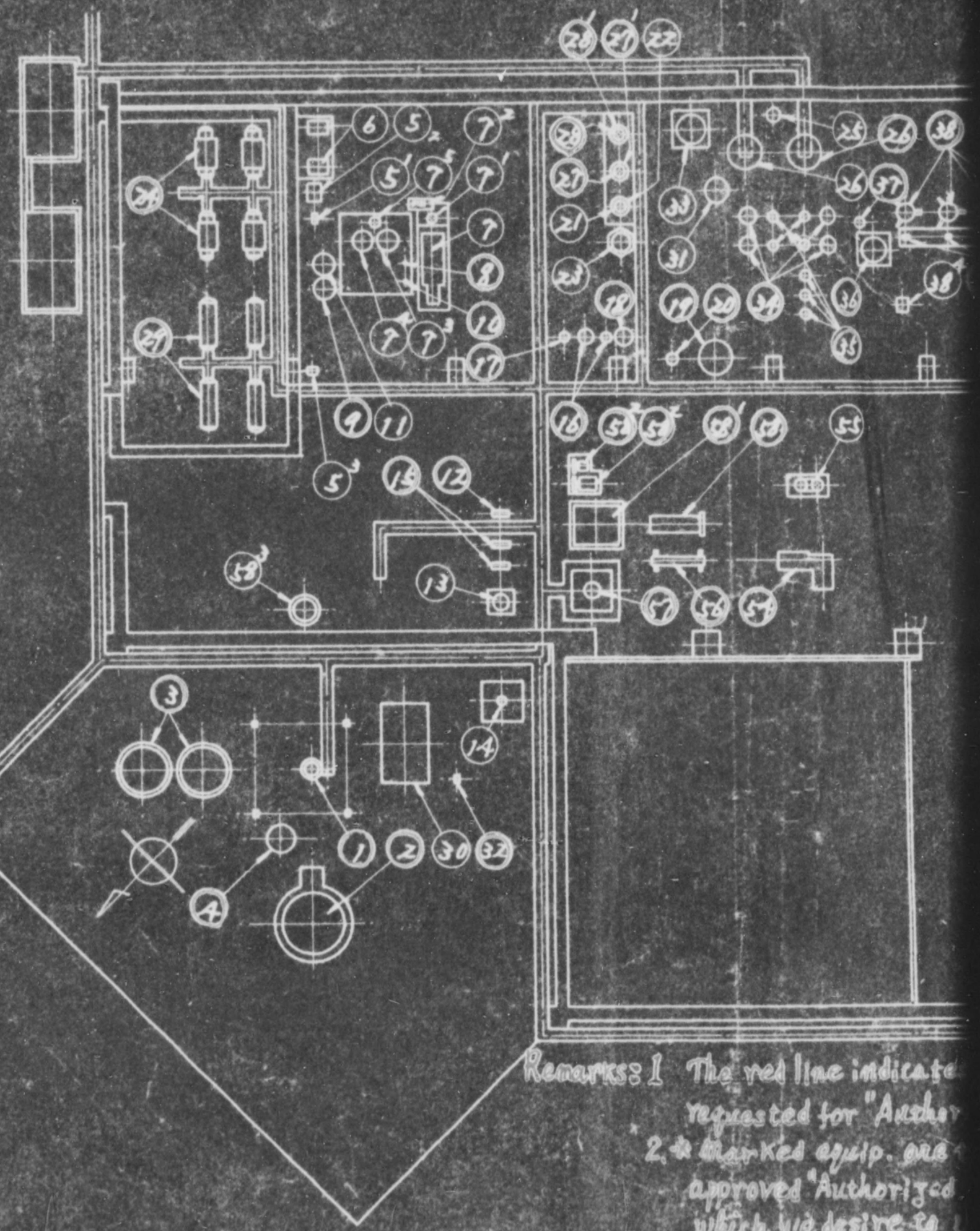
NISSHIN CHEMICAL Co.

NIIHAMA

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 175015

26 42 42 2

Arrangement for Synthetic Rubber Pilot

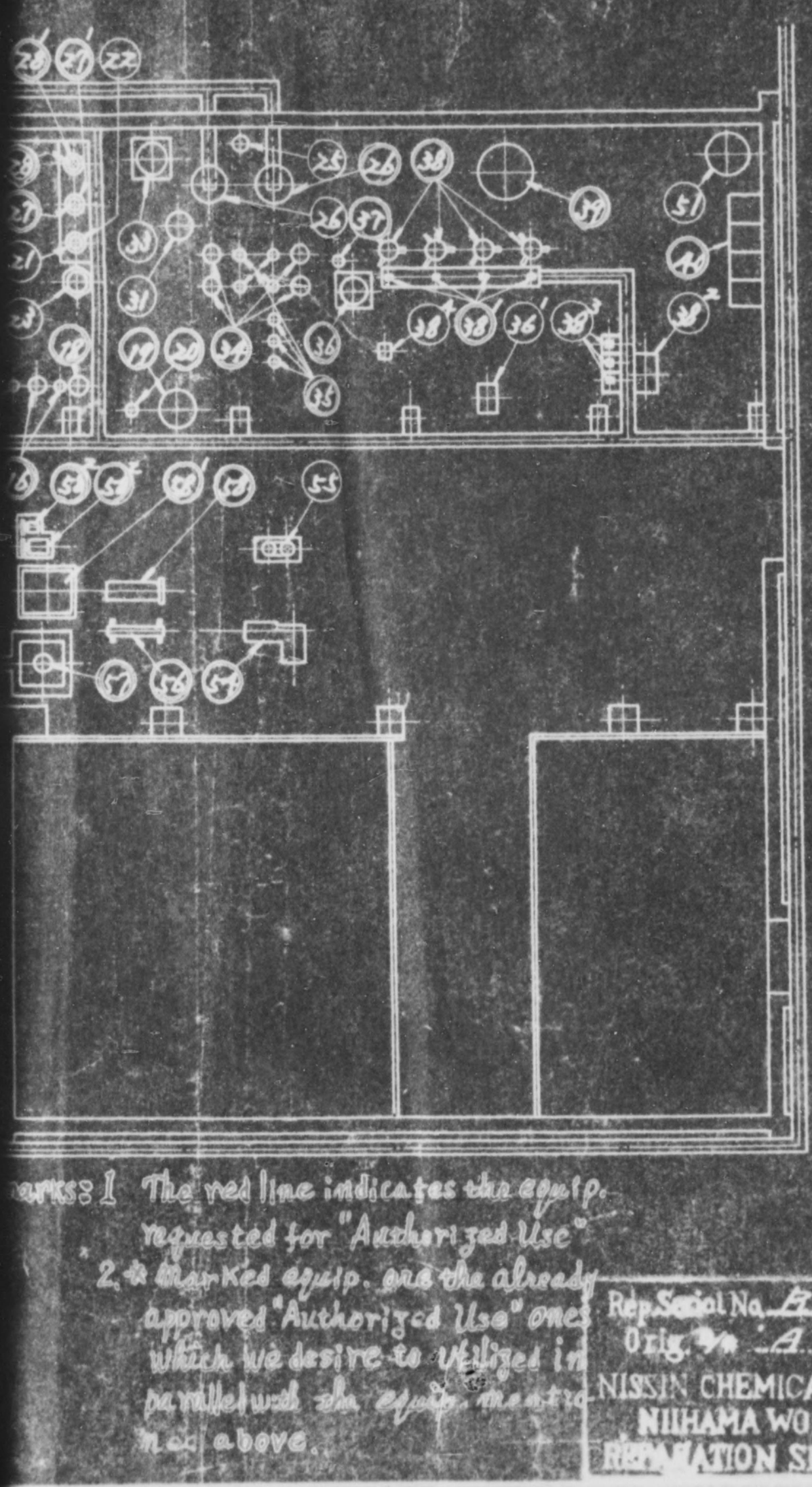


Incl: 3

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 115015

tic Rubber Pilot Plant No. 1.

Code No. 05-8



Remarks: 1 The red line indicates the equip. requested for "Authorized Use"

2. The marked equip. are the already approved "Authorized Use" ones which we desire to utilized in parallel with the equip. mentioned above.

Rep. Serial No. B-1-8

Orig. No. A-12

NISSIN CHEMICAL Co. LTD.
NIIHAMA WORKS
REGULATION SECTION

No.	Name	No. of Inventory
1	C_2H_2 Generator	IA1-1
2	C_2H_2 Holder	IA2-1
3	C_2H_2 Purifier	IA3-1~2
4	C_2H_2 Supply Tank for Generating	IA1-2
5.1	C_2H_2 Flow Meter (Supply)	IJ1-3
2	C_2H_2 Flow Meter (Circulation)	IJ1-4
3	C_2H_2 Flow Meter (Recovered)	IJ1-5
6	2 HP Nash pump	IJ1-6~7
7	Reaction Tank	IH1-1
7.1	Acetylene Pre-Heater	IB1-1
2	7.5 HP Motor	IH1-2
3	Distilated Water Tank	IJ1-8
4	Condenser (For Steam)	IJ1-9
5	Water Tank (Supply)	IJ1-10
8	Water Condenser	IJ2-1
9	Separated water Tank	IJ2-2
10	Ice Condenser	IJ3-1
11	D.V.A. Tank	IJ3-2
12	Dehydration Pre-Condenser	IJ3-3
13	No. 1 Column Absorption	IJ4-1
14	No. 2 Column Absorption	IJ4-2
15	Toluol Circulation Pump Motor	IJ4-3~6
16	Toluol Heating Apparatus	IJ4-7
17	Toluol Fraction Bubbling Column	IJ4-8
18	Toluol Receive Tank	IJ4-9
19	Toluol Tank	IJ4-10
20	Toluol Drying Apparatus	IJ4-11
21	M.V.A. Fractionating Column	IJ4-12
22	M.V.A. Receive Tank	IJ4-13
23	M.V.A. Intermediate Tank	IJ4-14
24	M.V.A. Reservoir	IJ4-15
25	M.V.A. Motor	IJ4-16
26	M.V.A. Reduction Tank Motor	IK1-5
27	No. 1 Reducing M.V.A. Condenser	IK2-1
27.1	No. 2 Reducing M.V.A. Receiver	IK3-1
28	Butadiene Condenser	IK3-2
28.1	Butadiene Reducer	IK3-3
29	Butadiene Reservoir	IK3-4
30	Alkali Reservoir (Out of Door)	IK1-5
31	Alkali Reservoir (On Board)	IK1-6
32	Alkali Pump	IK1-7
33	Alkali Motor	IK1-8
34	Butadiene Purifier	IK1-9
35	Butadiene Purifier	IK1-10
36	Butadiene Motor	IK1-11
36.1	Air Compressor	IK1-12
37	Condenser to Butadiene Motor	III-1
38	Polymerisation Tank	III-2
38.1	1 HP Motor	III-3
2	Hot Water Tank	III-11
3	Hot Water Pump	III-12
4	Nash Pump	III-13
39	Skim Brid Soda Reservoir	III-20
40	Latex Reservoir	III-21
51	Acrylnitril Still	IH1-5
54	1.5 HP Condenser motor	IA1-1~2
55	5 HP Condenser	IA1-3
56	Ammonia Receivers	IA1-5~6
57	Ammonia Coolls	IA1-7
58	Brine Cooler	IA1-9
58.1	Brine Tank	IA1-11
2	Brine Pump motor	IA1-12
3	Cold Circulating Tank	IA1-13