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

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December 23, 1948

W.F.A.S.No. 724

SUBJECT : Data of Industrial Plants

TO : Wakayama Military Government Team, APO 25

FROM : Wakayama Prefectural Government

With reference to your letter dated Dec. 11, 1948, a report furnished by Pref. authorities concerned is herewith submitted. As for the rest of the plants under investigation, the report will be submitted later.

for S. Yoshida
Shigemi Miyai
Chief, Foreign Affairs Section,
Wakayama Prefectural Government

MY.TO/ei

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

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

DATA ON INDUSTRIAL PLANTS

A. Chemical Plants

Name	Location	Raw materials	Finished Products	Storage method	Noxious Gas
Nippon Paulownia Oil Industry K.K.	Yawata-cho, Tanabe City	Paulownia Oil, benzol pigment, synthetic resin of phenol acid	Enamel, varnish	in 5 gal. can	None
Nippon Oil Industry K.K.	Ogo-mura, Ito-gun	Pine root pitch,	"	"	"
Natecho	Hikata, Kainan City	Zinc oxide	Paint	"	"
Yura Seiko Goshi Co.	Kozaika, Wakayama City	Caustic soda, nitric acid, sulphuric acid, hydrochloric acid.	Medium-tar dye-stuff	Ware-house	"
Sugai Chemical Plant	183, Uzu, Wakayama City	"	"	"	"
Nankai Dyestuff Plant	"	"	Dyestuff	"	"
Wakayama Godo Chemical Plant	48, Kitadejima, Wakayama City	Caustic soda, nitric acid, hydrochloric acid	"	In barrel	"
Nippon Acetic Industry K.K.	Uzu, Wakayama City	Acetic acid, lime	Acetic acid, spicery	in 2 kg. bottle	"
Sanei Chemical Industry K.K.	Yuasa-cho, Arida-gun	Summer tangerine, plum-juice	Citric acid,	Wooden case	"
Chemical	Yata-mura,				

Sugai Chemical Plant	183, Uzu, Wakayama City	"	"	"	"
Nankai Dyestuff Plant	"	"	Dyestuff	"	"
Wakayama Godo Chemical Plant	48, Kitadejima, Wakayama City	Caustic soda, nitric acid, hydrochloric acid	"	In barrel	"
Nippon Acetic Industry K.K.	Uzu, Wakayama City	Acetic acid, lime	Acetic acid, spicery	in 2 kg. bottle	"
Sanei Chemical Industry K.K.	Yuasa-cho, Arida-gun	Summer tangerine, plum-juice	Citric acid,	Wooden case	"
Takasago Chemical Industry K.K.	Yata-mura, Hidaka-gun	"	"	"	"
Komatsuya Chemical Spicery Co.	Uchihara-mura, Hidaka-gun	-	Spicery	"	"
Shimada Pharmaceutical Plant	Miyabara-mura, Arida-gun	"	Citric acid	"	"
Nankai Chemical Industry K.K.	417, Kozaika, Wakayama City	Sulphide, industrial salt	Caustic soda, sulphuric acid	Bottle, drum-can	"
Nippon Yuki K.K.	Minato, Wakayama City	Animal & vegetable benzol	Spicery, pomade	Drum-can	"
Showa Chemical Plant	Kimiidera, Wakayama City	Caustic soda	Medium dyestuff	barrel	"
Nippon Chemical Plant	Kozaka, Wakayama City	"	"	"	"
Kyowa Kasei Plant	"	Critic acid, aniline	Acetic anilide	"	"

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

Daido Oxygen K.K.	Nozyo, Wakayama City	-	Oxygen	Bomb	None
Goni Chemical Plant	933, Kinokawa-cho, Wakayama City	Gall-nut	Tannic acid	Can	"
Fuji Chemical Plant	940, Kinokawa-cho, Wakayama City	"	"	"	"
Daiwa Chemical Plant	Kozaika, Wakayama City	Medium-tar	Sweet	"	"
Wakayama Plant, Toa Fuel Industry K.K.	Hajikami-mura, Kaiso-gun	-	Oxygen	Bomb	"
Rinsan Chemical Plant	Kudoyama-cho, Ito-gun	-	Japan cypress oil	"	"

B. Pharmaceutical Plants

Name	Location	Raw materials	Finished Products	Storage method	Noxious Gas
Sumiko Wada	766, Wakaura, Wakayama City	(1) Salicylic acid, acetic acid, alcohol & water	Hifusui	Ware-house	None
		(2) Iron-dust, pachyma & starch	Hoketsu Shinzo Gan	"	"
Hidaka Seiyaku K.K.	Nakatsugawa, Yata-mura, Hidaka-gun	(3) Cinnamon oil, ipecac, carrot, Ferri-ammonium citricum, mentha oil, sugar & millet-jelly	Toraya Tanseki Ame	"	"

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

B. Pharmaceutical Plants

Name	Location	Raw materials	Finished Products	Storage method	Noxious Gas
Sumiko Wada	766, Wakaura, Wakayama City	(1) Salicylic acid, acetic acid, alcohol & water	Hifusui	Warehouse	None
		(2) Iron-dust, pachyma & starch	Hoketsu Shinzo Gan	"	"
Hidaka Seiyaku K.K.	Nakatsugawa, Yata-mura, Hidaka-gun	(3) Cinnamon oil, ipecac, carrot, Ferri-ammonium citricum, mentha oil, sugar & millet-jelly	Toraya Tanseki Ame	"	"
		(4) Ferri-ammonium citricum, ginger, common fennel, saccharine, cinnamon bark, millet-jelly	Neo-tetsu Ame	"	"
		(5) Coptis japonica, carrot, iris root, cinnamon, Bengal quince, atractylis ovata, Chinese bellflower, peppermint, etc.	Banno Sokkō San	"	"
Komaya Seiyaku K.K.	1685, Kokawa, Kokawa-cho, Naga-gun	(6) Extracts of greater plantain, & of garlic; powdered rikotagin	Rikotagin	"	"
Nankai Seiyaku K.K.	809, Sakaedani, Wakayama City	(7) Salicylic acid, acetic acid, alcohol & water	Hifusui	"	"

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

Nankai Seiyaku K.K.	809, Sakaedani, Wakayama City	(8) Iron-dust, potato starch, pachyma	Hoketsu Shinzo Gan	Ware-house	None
		(9) Dried orange peels, cinnamon, minor fennel, Bengal quince, atractylis ovata, pachyma, peony, bitter-stem, licorice	Kagen Homei San	"	"
Yoshimoto Senda	551, Uchida, Tanaka-mura, Naga-gun	(10) Colloid of hydrated magnesium	Mirumaku	"	"
Wakanoura Seiyaku Kaisha	898, Wakaura, Wakayama City	(11) Same as (9)	Kagen Homei San	"	"
		(12) Same as (9), plus chinese bell-flower, licorice, ginger, rhubarb, betel-nut etc.	Kagen Homei Gan for children	"	"
		(13) Acetic anilide, caffeine	Genetsu San	"	"
Kishu Seiyaku Kaisha	1-chome, Kataoka-cho, Wakayama City	(14) Gentian, juniper seed, greater plantain, deer-berry leaf, akebia, cape jasmine, Indian bean, licorice, etc.	Kaishun To	"	"
		(15) Phosphate of lime, iodine natrium, lactic acid lime, pow-dered rhubarb,	Ruireki Gusuri	"	"

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

		betel-nut etc.			
		(13) Acetic anilide, caffeine	Genetsu San	"	"
Kishu Seiyaku Kaisha	1-chome, Kataoka-cho, Wakayama City	(14) Gentian, juniper seed, greater plantain, deer-berry leaf, akebia, cape jasmine, Indian bean, licorice, etc.	Kaishun To	"	"
		(15) Phosphate of lime, iodine natrium, lactic acid lime, powdered rhubarb, & starch	Ruireki Gusuri	"	"
Inada Seiyakusho	37, 9-chome, Higashinaga-machi, Wakayama City	(16) Digenea simplex, Japanese pepper, etc.	Makuri-yu	"	"
		(17) Almost same as (14)	Jitsubosan	"	"
		(18) Cinnamon, Chinese bealflower, greater plantain, ginger, millet-jelly, etc.	Zensoku-ame	"	"
Shigeru Okada	15, Kita Shinebisu-cho, Wakayama City	(19) Minium, vegetable wax, gingili (or rape-oil)	Sokuyukō	"	"
Torao Tsujimoto	234, Shobutani, Hashimoto-cho, Ito-gun	(20) Almost same as (9)	Anchūsan	"	"
		(21) Coptis japonica, senna, akebia, rhubarb, etc.	Ōrento	"	"

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

Torao Tsujimoto	234, Shobutani, Hashimoto-cho, Ito-gun	(22) Bile of bear or cow, carrot, agallo-chum, Sumatra camphor, horn dust, & salicylic acid	Kiōgan	Ware-house	None
		(23) Arrowroot, ginger, cinnamon, licorite, etc.	Someisan	"	"
		(24) Extract of yellow Quercus dentata	Daranisuke-Gan	"	"
		(25) Aminopirin, acetic anilide	Tsuji-pirin	"	"
		(26) Aspirin, acetic anilide, & caffeine	Korichiiru	"	"
		(27) Migrenine, acetic anilie, & caffeine	Meiro	"	"
		(28) Benzoin acid, cinnamon, caffeine, iron-dust, hypophos-phorous acid, etc.	Hoketsu Kyoshin Gan	"	"
		(29) same as (9)	Kagen Homei San	"	"
		(30) Same as (16)	Taichū-makuri	"	"
Hase Seiyaku K.K.	178, Tebira, Wakayama City	(31) Same as (16)	Kansai Makuri	"	"
		(32) Herbs such as mentioned so far. (Details are omitted hereafter, for mentioning herb	Tainai Sōji Gan	"	"

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

		& caffeine			
		(28) Benzoin acid, cinnamon, caffeine, iron-dust, hypophosphorous acid, etc.	Hoketsu Kyoshin Gan	"	"
	"	(29) same as (9)	Kagen Homei San	"	"
		(30) Same as (16)	Taichū-makuri	"	"
Hase Seiyaku K.K.	178, Tebira, Wakayama City	(31) Same as (16)	Kansai Makuri	"	"
		(32) Herbs such as mentioned so far. (Details are omitted hereafter, for mentioning herb names is not considered so important)	Tainai Sōji Gan	"	"
		(33) "	Zitsubo-san	"	"
		(34) "	Furidashi Yaku	"	"
Wakayama Pref. Yakuhin Seisan K.K.	95, Ota, Wakayama City	(35) "	EFetoru	"	"
		(36) "	Sekidome San	"	"
		(37) "	Astomin	"	"
		(38) "	Kyūkatsu Gan	"	"
		(39) "	Kagen Homei San	"	"
		(40) "	Ichōyaku	"	"
		(41) "	Haraita Tompuku	"	"

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

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

Wakayama Pref. Yakuhin Seisan K.K.	95, Ota, Wakayama City	(42)	"	Kuchū Makuriyu	Ware-house	None
		(43)	"	Astomin	"	"
		(44)	"	Mankin Kō	"	"
		(45)	"	Jitsubo San	"	"
		(46)	"	Kikuman	"	"
		(47)	Acetic anilide, caffeine & carbonate of lime	Genetsu Tompuku	"	"
		(48)	Acetic anilide, caffeine & Chinese bell-flower	Nōberu Jō	"	"
		(49)	Sulphur, quicklime, casein, mentha oil, phenol, & water	Pasumeru	"	"
		(50)	Zinc white, salicylic acid, & paraffin ointment	Rassa	"	"
		(51)	Bicarbonate of soda, magnesium carbonate, diastase, etc.	Apotaze	"	"
		(52)	Copper sulphate, vegetable wax, rape oil, pine-resin	Suidashi	"	"
		(53)	Zinc white, resin, raw gum, menthol, rape oil, Sumatra camphor,	Roimaban	"	"

		(50) Zinc white, salicylic acid, & paraffin ointment	Rassa	"	"
		(51) Bicarbonate of soda, magnesium carbonate, diastase, etc.	Apotaze	"	"
		(52) Copper sulphate, vegetable wax, rape oil, pine-resin	Suidashi	"	"
		(53) Zinc white, resin, raw gum, menthol, rape oil, Sumatra camphor, Salicylic acid, etc.	Roimaban	"	"
		(54) Almost same as (53)	Mintosu	"	"
Kamo Branch,	101, Komatsu-bara, Kamo-mura, Kaiso-gun	(55) Same as (35)	Efetoru	"	"
		(56) Same as (53)	Roimaban	"	"
		(57) Same as (46)	Kikuman	"	"
		(58) Same as (50)	Rassa	"	"
		(59) Same as (52)	Suidashi	"	"
		(60) Same as (54)	Mintosu	"	"
		(61) Gingelly-oil, Pine-resin, minium, etc.	Mankinko	"	"
Kinan Seiyaku K.K.	485, Minato, Tanabe City	(62) Herbs such as mentioned so far. (Details are omitted for convenience' sake)	Ninjin Sokkoen	"	"

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

Kinan Seiyaku K.K.	485, Minato, Tanabe City	(63)	"	Tetsu Ame	Warehouse	None
		(64)	"	Furidashi Yaku	"	"
Nishimura Sanko K.K.	Inambara. Inahara-mura, Hidaka-gun	(65)	"	Mandaraha Ekisu	"	"
		(66)	"	Kiōgan.	"	"
		(67)	"	Daranisuke-Gan	"	"
		(68)	"	Kyukatsu-gan	"	"
		(69)	"	Kyōshin	"	"
		(70)	"	Kagen Homei San	"	"
		(71)	Bicarbonate of soda, bismuth nitrate, oxidized magnesium, etc.	Urukusu Jō	"	"
Hirakoshi Seiyakusho	1616, Kudoyama, Kudoyama-cho, Ito-gun	(72)	Herbs such as mentioned so far.	Jippōsan	"	"
		(73)	"	Undosan	"	"
		(74)	"	Ōgan	"	"
		(75)	"	Daranisuke-gan	"	"
Shionogi Seiyaku K.K.	1200, Hikata, Kainan City	(76)	Ergot bacteria, & alkalloid soluble in water	Neo-sekaruchin	"	"
Nippon Yuki K.K.	1334, Yakushu-bata, Wakayama City	(77)	Camphor, peppermint, boracic acid	Kawo Sarubu	"	"

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

Hirakoshi Seiyakusho	1616, Kudoyama, Kudoyama-cho, Ito-gun	(72) Herbs such as mentioned so far.	Jippōsan	"	"
		(73) "	Undosan	"	"
		(74) "	Ōgan	"	"
		(75) "	Daranisuke-gan	"	"
Shionogi Seiyaku K.K.	1200, Hikata, Kainan City	(76) Ergot bacteria, & alkalloid soluble in water	Neo-sekaruchin	"	"
Nippon Yuki K.K.	1334, Yakushu-bata, Wakayama City	(77) Camphor, peppermint, boracic acid, paraffin, glycerin etc.	Kawo Sarubu	"	"
		(78) Boracic acid, glycerin, setanol	Bōru ointment	"	"
		(79) Zinc white, pig's grease	Chinku Ointment	"	"
		(80) Mercury, pig's grease, & lanoline	Mercury Ointment	"	"
		(81) Acetic acid & aniline	Acetic Anilide	"	"
		(82) Zinc white, benzoin, pig's grease	Zinc white Ointment	"	"
		(83) Setanol & peanut-oil	Setanol Ointment	"	"
		(84) Bee's wax & gingilli-oil	Simple Ointment	"	"

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

Nippon Yuki K.K.	1334, Yakushubata, Wakayama City	(85) Boracic acid, glycerin, bee's wax & gingilli-oil	Boracic Ointment	Warehouse	None
		(86) Vegetable wax & rice-bran oil	Vegetable Wax Ointment	"	"
		(87) Naphthaline, iron-dust, sulphuric acid, nitric acid, & hydrochloric acid	Kawo Antsu	"	"
		(88) Sulphur, lime, etc.	Kawo Bath Happu	"	"
		(89) Phenel acetic acid, zinc sulphate, pepton, lactose, magnesium sulphate, acetone, sodium nitrate, etc.	Penicillin Kawo	"	"
		(90) Menthol, camphor, sulphur, glycerin, carbolic acid, etc.	Kawo Soap	"	"
Miki Seiyaku K.K.	1610, Yuasa-cho, Arida-gun	(91) Phenol, & creosote	Lysol	"	"
		(92) Paraffin & vaseline	Wax Ointment	"	"
		(93) Aspirin, acetic anilide, caffeine etc.	Anoiraaru	"	"
		(94) Bicarbonate of soda, magnesium carbonate, diastase,	Māgen-jō	"	"

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

		(90) Menthol, camphor, sulphur, glycerin, carbolic acid, etc.	Kawo Soap	"	"
Miki Seiyaku K.K.	1610, Yuasa-cho, Arida-gun	(91) Phenol, & creosote	Lysol	"	"
		(92) Paraffin & vaseline	Wax Ointment	"	"
		(93) Aspirin, acetic anilide, caffeine etc.	Anoiraaru	"	"
		(94) Bicarbonate of soda, magnesium carbonate, diastase, etc.	Māgen-jō	"	"
		(95) Citrate of lime	Bitakaruku	"	"
		(96) Zinc white, carbolic acid solution & peppermint	Aporu	"	"
		(97) Salicylic acid, creosote, glycerin & alcohol	Hauto Skin Medicine	"	"
		(98) Zinc sulphate, sulphamine, etc.	Daiyu Eye-lotion	"	"
Sambo Seiyaku K.K.	153-1, Higashi, Kaseda-cho, Ito-gun	(99) Acetic anilide, caffeine, etc.	Suparomin	"	"
Japan Acetification Industry Co., Ltd.	176, Uzu, Wakayama City	(100) Aniline & acetic acid	Acetic Anilid	"	"
		(101) Soda ash & acetic acid	Acetic soda	"	"

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

Yura Seiko K.K.	518, Kozaika,	(102) Same as (100)	Acetic Anilide	Ware-house	None
		(103) Dichromic acid soda, sulphuric acid, bicarbonate soda, ammonium, caustic soda, ice, etc.	Saccharin	"	"
		(104) Acetic anilide, ammonium, ice, hydro-chloric acid, soda ash, etc.	Sulphamin	"	"
		(105) Benzol, sulphuric acid, soda ash, caustic soda	Carbolic acid	"	"
Shusuke Hori	418, Minato, Tanabe City	(106) Plums	Bainiku Ekisu	"	"
Sanei Kagaku Kogyo K.K.	2693, Yuasa, Yuasa-cho, Arida-gun	(107) Citrate lime, sulphuric acid	Citric acid	"	"
Kasano Kagaku Kogyo K.K.	587, Ota, Wakayama City	(108) Aniline & acetic acid	Acetic Anilide	"	"
Sugai Kagaku Goshi Kaisha	63, Uzu, Wakayama City	(109) Creosote, carbon, mentha oil, etc.	Creo Sugai	"	"
		(110) Alpha Naphthyl, & urea	Antsū Sugai	"	"
		(111) Sulphurized terebene, salicylic acid, etc.	Paintōru	"	"
Daiwa Kasei K.K.	518, Kozaika, Wakayama City	(112) Same as (103)	Saccharin	"	"
Takasago Kagaku	Habu, Yata-	(113) Same as (107)	Citric acid	"	"

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

Kogyo K.K.	Wakayama City	acetic acid	Acetic Anilide	"	"
Sugai Kagaku Goshi Kaisha	63, Uzu, Wakayama City	(109) Creosote, carbon, mentha oil, etc.	Creo Sugai	"	"
		(110) Alpha Naphthyl, & urea	Antsū Sugai	"	"
		(111) Sulphurized terebene, salicylic acid, etc.	Paintōru	"	"
Daiwa Kasei K.K.	518, Kozaika, Wakayama City	(112) Same as (103)	Saccharin	"	"
Takasago Kagaku K.K.	Habu, Yata-mura, Hidaka-gun	(113) Same as (107)	Citric acid	"	"

C. Petroleum Products Storage Areas

Name of Proprietors	Location	Type	Quantity	Storage
Eiichi Kawai	597, Hokko, Minoshima-cho, Arida-gun	Light oil Heavy "	100 k.l. 50	Steel tank
Fukusaburo Kawaguchi	Shimotsu-cho, Kaiso-gun	Heavy oil Light oil	115 30	
Hidekichi Iwamoto	1570 Minato, Wakayama City	Heavy oil Light oil	100 90	
Yoshitaro Nomura	Kitashioya, Shioya-mura, Hidaka-gun	" "	94.5	
Shinichi Yamazaki	Kamiyashiki-machi, Tanabe City	" " Heavy "	145 150	

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

Mohe Oura	Omiyadori, Yuasa-cho, Arida-gun	Light oil	52	Steel tank
Kaku Yamagata	485, Katsuura-cho, Higashimuro-gun	Heavy oil	24	
Denjiro Shibuya	1433, Hiro, Hiro-mura, Arida-gun	Light "	53.5	
Yoshigusu Asamoto	Susami, Susami-cho, Nishimuro-gun	" "	100	
		Heavy oil	50	
Seikichi Kirimoto	Hiki-cho, Nishimuro-gun	" "	50	
Shinjiro Ikeda	Masago-cho, Wakayama City	Light oil	6	
Eizo Naka	Katsuura-cho, Higashimuro-gun	" "	20	
		Heavy "	20	
Kaichiro Ozawa	"	" "	10	
		" "	27	
Tokukichi Awata	"	Light "	7	
Kiyoe Shimomura	82, Egawa-cho, Tanabe City	" "	360	
Naoichi Sakamoto	772, Shimotsu, Shimotsu-cho, Kaiso-gun	Heavy "	47	
		Light "	175	
Kusuo Katagiri	Wakaura, Wakayama City	" "	50	Under construction

D. Ice Plant

Name	Location	Raw materials	Finished Products	Storage method	Noxious gas
Wakayama Factory, Nippon Cold Storage K.K.	Motomachibugyo-cho, Wakayama City	Water	Ice	Ammonia expansion	None

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

Riyoe Shimomura	82, Egawa-cho, Tanabe City	"	"	360	
Naoichi Sakamoto	772, Shimotsu, Shimotsu-cho, Kaiso-gun	Heavy Light	" "	47 175	
Kusuo Katagiri	Wakaura, Wakayama City	"	"	50	Under construction

D. Ice Plant

Name	Location	Raw materials	Finished Products	Storage method	Noxious gas
Wakayama Factory, Nippon Cold Storage K.K.	Motomachibugyo-cho, Wakayama City	Water	Ice	Ammonia expansion method	None
Tanabe Factory, N.C.S.K.K.	Egawa-cho, Tanabe City	"	"	"	"
Kushimoto Factory, N.C.S.K.K.	Kushimoto-cho, Nishimuro-gun	"	"	"	"
Katsuura Factory N.C.S.K.K.	Katsuura-cho, Higashimuro-gun	"	"	"	"
Wakayama Cold Storage K.K.	Nakanoshima, Wakayama City	"	"	"	"
Yura Seiko Goshi Co.	Kozaika, Wakayama City	"	"	"	"
Toa Nenryo Kogyo K.K.	Hajikami-mura, Kaiso-gun	"	"	"	"
Nakayama Factory, Nippon [illegible] K.K.	Gobo-cho, Hidaka-gun	"	"	"	"
Yuasa Seihyo Seizo K.K.	Yuasa-cho, Arida-gun	"	"	"	"

E. Sewage Treatment Plants: None

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

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

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A. Chemical Plants

Name	Location	Raw materials	Finished Products	Storage method	Noxious Gas
Nippon Paulownia Oil Industry K.K.	Yawata-cho, Tanabe City	Paulownia oil, benzol pigment, synthetic resin of phenol acid	Enamel, varnish	In 5 gal. can	None
Nippon Oil Industry K.K.	Ogo-mura, Ito-gun	Pine root pitch,	"	"	"
Natecho	Hikata, Kainan City	Zinc oxide	Paint	"	"
Yura Seiko Goshi Co.	Kozaika, Wakayama City	Caustic soda, nitric acid, sulphuric acid, hydrochloric acid	Medium-tar dyestuff	Wearhouse	"
Sugai Chemical Plant	183, Uzu, Wakayama City	"	"	"	"
Nankai Dyestuff Plant	"	"	Dyestuff	"	"
Wakayama Godo Chemical Plant	48, Kitadejima, Wakayama City	Caustic soda, nitric acid, hydrochloric acid	"	In barrel	"
Nippon Acetic Industry K.K.	Uzu, Wakayama City	Acetic acid, lime	acetic acid, spicery	In 2 kg. bottle	"
Sanei Chemical Industry K.K.	Yuasa-cho Arida-gun	Summer tangerine, plum-juice	Citric acid,	Wooden case	"
Takasago Chemical Industry K.K.	Yata-mura, Hidaka-gun	"	"	"	"
Komatsuya Chemical	Uchihara-mura,	-	Spicery	"	"

Plant	Wakayama City				
Nankai Dyestuff Plant	"	"	Dyestuff	"	"
Wakayama Godo Chemical Plant	48, Kitadejima, Wakayama City	Caustic soda, nitric acid, hydrochloric acid	"	In barrel	"
Nippon Acetic Industry K.K.	Uzu, Wakayama City	Acetic acid, lime	acetic acid, spicery	In 2 kg. bottle	"
Sanei Chemical Industry K.K.	Yuasa-cho Arida-gun	Summer tangerine, plum-juice	Citric acid,	Wooden case	"
Takasago Chemical Industry K.K.	Yata-mura, Hidaka-gun	"	"	"	"
Komatsuya Chemical Spicery Co.	Uchihara-mura, Hidaka-gun	-	Spicery	"	"
Shimada Pharmaceutical Plant	Miyabara-mura, Arida-gun	"	Citric acid	"	"
Nankai Chemical Industry K.K.	417, Kozaika, Wakayama City	Sulphide, industrial salt	Caustic Soda, sulphuric acid	Bottle, drum-can	"
Nippon Yuki K.K.	Minato, Wakayama City	Animal & vegetable benzol	Spicery, pomade	Drum-can	"
Showa Chemical Plant	Kimiidera, Wakayama City	Caustic soda	Medium dyestuff	barrel	"
Nippon Chemical Plant	Kozaika, Wakayama City	"	"	"	"
Kyowa Kasei Plant	"	Critic acid, aniline	Acetic anilide	"	"

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

Daido Oxygen K.K.	Nozyo, Wakayama City	-	Oxygen	Bomb	None
Goni Chemical Plant	933, Kinokawa-cho, Wakayama City	Gall-nut	Tannic acid	Can	"
Fuji Chemical Plant	940, Kinokawa-cho, Wakayama City	"	"	"	"
Daiwa Chemical Plant	Kozaika, Wakayama City	Medium-tar	Sweet	"	"
Wakayama Plant, Toa Fuel Industry K.K.	Hajikami-mura, Kaiso-gun	-	Oxygen	Bomb	"
Rinsan Chemical Plant	Kudoyama-cho, Ito-gun	-	Japan cypress oil	"	"

B. Pharmaceutical Plants

Name	Location	Raw materials	Finished products	Storage method	Noxious Gas
Sumiko Wada	766, Wakaura, Wakayama City	(1) Salicylic acid, acetic acid, alcohol & water	Hifusui	Ware-house	None
		(2) Iron-dust, pachyma & starch	Hoketsu Shinzo Gan	"	"
Hidaka Seiyaku K.K.	Nakatsugawa, Yata-mura, Hidaka-gun	(3) Cinnamon oil, ipecac, carrot, Ferri-ammonium citricum, mentha oil, sugar & millet-jelly	Toraya Tanseki	"	"
		(4) Ferri-ammonium			

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

		acid, alcohol & water			
		(2) Iron-dust, pachyma & starch	Hoketsu Shinzo Gan	"	"
Hidaka Seiyaku K.K.	Nakatsugawa, Yata-mura, Hidaka-gun	(3) Cinnamon oil, ipecac, carrot, Ferri-ammonium citricum, mentha oil, sugar & millet-jelly	Toraya Tanseki	"	"
		(4) Ferri-ammonium citricum, ginger, common fennel, saccharine, cinnamon bark, millet-jelly	Nen-tetsu Ame	"	"
		(5) Coptis japonica, carrot, iris root, cinnamon, Bengal quince, atractylis ovata, Chinese bell-flower, peppermint, etc.	Banno Sokkō San	"	"
Komaya Seiyaku K.K.	1685, Kokawa, Kokawa-cho, Naga-gun	(6) Extracts of greater plantain, & of garlic; powdered rikotagin	Rikotagin	"	"
Nankai Seiyaku K.K.	809, Sakaedani, Wakayama City	(7) Salicylic acid, acetic acid, alcohol & water	Hifusui	"	"

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

Nankai Seiyaku K.K.	809, Sakaedani, Wakayama City	(8) Iron-dust, potato starch, pachyma	Hoketsu Shinzo Gan	Ware-house	None
		(9) Dried orange peels, cinnamon, minor fennel, Bengal quince, atractylis ovata, pachyma, peony, bitter-stem, licorice	Kagen Homei San	"	"
Yoshimoto Senda	551, Uchida, Tanaka-mura, Naga-gun	(10) Colloid of hydrated magnesium	Mirumaku	"	"
Wakanoura Seiyaku Kaisha	898, Wakaura, Wakayama City	(11) Same as (9)	Kagen Homei San	"	"
		(12) Same as (9), plus chinese bell-flower, licorice, ginger, rhubarb, betel-nut etc.	Kagen Homei Gan for children	"	"
		(13) Acetic anilide, caffeine	Genetsu San	"	"
Kishu Seiyaku Kaisha	1-chome, Kataoka-cho, Wakayama City	(14) Gentian, juniper seed, greater plantain, deer-berry leaf, akebia, cape jasmine, Indian bean, licorice, etc.	Kaishun To	"	"
		(15) Phosphate of lime, iodine natrium, lactic acid lime, pow-	Ruireki Gusuri	"	"

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

		(13) Acetic anilide, caffeine	Genetsu San	"	"
Kishu Seiyaku Kaisha	1-chome, Kataoka-cho, Wakayama City	(14) Gentian, juniper seed, greater plantain, deer-berry leaf, akebia, cape jasmine, Indian bean, licorice, etc.	Kaishun To	"	"
		(15) Phosphate of lime, iodine natrium, lactic acid lime, powdered rhubarb, & starch	Ruireki Gusuri	"	"
Inada Seiyakusho	37, 9-chome, Higashinaga-machi, Wakayama City	(16) Digenea simplex, Japanese pepper, etc.	Makuri-yu	"	"
		(17) Almost same as (14)	Jitsubosan	"	"
		(18) Cinnamon, Chinese bell-flower, greater plantain, ginger, millet-jelly, etc.	Zensoku-ame	"	"
Shigeru Okada	15, Kita Shin-ebisu-cho, Wakayama City	(19) Minium, vegetable wax, gingili (or rape-oil)	Sokuyukō	"	"
Torao Tsujimoto	234, Shobutani, Hashimoto-cho, Ito-gun	(20) Almost same as (9)	Anchūsan	"	"
		(21) Coptis japonica, senna, akebia, rhubarb, etc.	Ōrento	"	"

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

Torao Tsujimoto	234, Shobutani, Hashimoto-cho, Ito-gun	(22) Bile of bear or cow, carrot, agallo-chum, Sumatra camphor, horn dust, & salicylic acid	Kiōgan	Ware-house	None
		(23) Arrowroot, ginger, cinnamon, licorite, etc.	Someisan	"	"
		(24) Extract of yellow Quercus Dentata	Daranisuke-Gan	"	"
		(25) Aminopirin, acetic anilide	Tsuji-pirin	"	"
		(26) Aspirin, acetic anilide, & caffeine	Korichiiru	"	"
		(27) Migrenine, acetic anilie, & caffeine	Meiro	"	"
		(28) Benzoin acid, cinnamon, caffeine, iron-dust, hypophos-phorous acid, etc.	Hoketsu Kyoshin Gan	"	"
		(29) same as (9)	Kagen Homei San	"	"
		(30) Same as (16)	Taichū-makuri	"	"
Hase Seiyaku K.K.	178, Tebira, Wakayama City	(31) Same as (16)	Kansai Makuri	"	"
		(32) Herbs such as mentioned so far. (Details are omitted hereafter, for mentioning herb names is not con-sidered so important)	Tainai Sōji Gan	"	"

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

		(27) Migrenine, acetic anilie, & caffeine	Meiro	"	"
		(28) Benzoin acid, cinnamon, caffeine, iron-dust, hypophos-phorous acid, etc.	Hoketsu Kyoshin Gan	"	"
		(29) same as (9)	Kagen Homei San	"	"
		(30) Same as (16)	Taichū-makuri	"	"
Hase Seiyaku K.K.	178, Tebira, Wakayama City	(31) Same as (16)	Kansai Makuri	"	"
		(32) Herbs such as mentioned so far. (Details are omitted hereafter, for mentioning herb names is not con-sidered so important)	Tainai Sōji Gan	"	"
		(33) "	Zitsubo-san	"	"
		(34) "	Furidashi Yaku	"	"
Wakayama Pref. Yakuhin Seisan	95, Ota Wakayama City	(35) "	Efetoru	"	"
		(36) "	Sekidome San	"	"
		(37) "	Astomin	"	"
		(38) "	Kyūkatsu Gan	"	"
		(39) "	Kagen Homei San	"	"
		(40) "	Ichōyaku	"	"
		(41) "	Haraita Tompuku		

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

Wakayama Pref. Yakuhin Seisan K.K.	95, Ota, Wakayama City	(42)	"	Kuchū Makuriyu	Ware-house	None
		(43)	"	Astomin	"	"
		(44)	"	Mankin Kō	"	"
		(45)	"	Jitsubo San	"	"
		(46)	"	Kikuman	"	"
		(47) Acetic anilide, caffeine & carbonate of lime		Genetsu Tompuku	"	"
		(48) Acetic anilide, caffeine & Chinese bell-flower		Nōberu Jō		
		(49) Sulphur, quicklime, casein, mentha oil, phenol, & water		Pasumeru	"	"
		(50) Zinc white, salicylic acid, & paraffin ointment		Rassa	"	"
		(51) Bicarbonate of soda, magnesium carbonate, diastase, etc.		Apotaze	"	"
		(52) Copper sulphate, vegetable wax, rape oil, pine-resin		Suidashi	"	"
		(53) Zinc white, resin, raw gum, menthol, rape oil, Sumatra camphor, Salicylic acid, etc.		Roimaban	"	"
		(54) Almost same		Kintōsu	"	"

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

		(49) Sulphur, quicklime, casein, mentha oil, phenol, & water	Pasumeru	"	"
		(50) Zinc white, salicylic acid, & paraffin ointment	Rassa	"	"
		(51) Bicarbonate of soda, magnesium carbonate, diastase, etc.	Apotaze	"	"
		(52) Copper sulphate, vegetable wax, rape oil, pine-resin	Suidashi	"	"
		(53) Zinc white, resin, raw gum, menthol, rape oil, Sumatra camphor, Salicylic acid, etc.	Roimaban	"	"
		(54) Almost same as (53)	Mintosu	"	"
Kamo Branch,	101, Komatsu-bara, Kamo-mura, Kaiso-gun	(55) Same as (35)	Efetoru	"	"
		(56) Same as (53)	Roimaban	"	"
		(57) Same as (46)	Kikuman	"	"
		(58) Same as (50)	Rassa	"	"
		(59) Same as (52)	Suidashi	"	"
		(60) Same as (54)	Mintosu	"	"
		(61) Gingelly-oil, Pine-resin, minium, etc.	Mankinko	"	"
Kinan Seiyaku K.K.	485, Minato, Tanabe City	(62) Herbs such as mentioned so far. (Details are omitted for convenience' sake)	Ninjin Sokkoen	"	"

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

Kinan Seiyaku K.K.	485, Minato, Tanabe City	(63)	"	Tetsu Ame	Ware-house	None
		(64)	"	Furidashi Yaku	"	"
Nishimura Sanko K.K.	Inambara. Inahara-mura, Hidaka-gun	(65)	"	Mandaraha Ekisu	"	"
		(66)	"	Kiōgan	"	"
		(67)	"	Daranisuke-Gan	"	"
		(68)	"	Kyukatsu-gan	"	"
		(69)	"	Kyōshin	"	"
		(70)	"	Kagen Homei San	"	"
		(71) Bicarbonate of soda, bismuth nitrate, oxidized magnesium, etc.		Urukusu Jō	"	"
Hirakoshi Seiyakusho	1616, Kudoyama, Kudoyama-cho, Ito-gun	(72) Herbs such as mentioned so far.		Jipposan	"	"
		(73)	"	Undosan	"	"
		(74)	"	Ōgan	"	"
		(75)	"	Daranisuke-gan	"	"
Shionogi Seiyaku K.K.	1200, Hikata, Kainan City	(76) Ergot bacteria, & alkalloid soluble in water		Neo-sekaruchin	"	"
Nippon Yuki K.K.	1334, Yakushu-bata, Wakayama City	(77) Camphor, Peppermint, boracic acid, paraffin, Cinnamic		Kawo Sarubu	"	"

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

		(70)	"	Kagen Homei San	" "
		(71)	Bicarbonate of soda, bismuth nitrate, oxidized magnesium, etc.	Urukusu Jō	" "
Hirakoshi Seiyakusho	1616, Kudoyama, Kudoyama-cho, Ito-gun	(72)	Herbs such as mentioned so far.	Jipposan	" "
		(73)	"	Undosan	" "
		(74)	"	Ōgan	" "
		(75)	"	Daranisuke-gan	" "
Shionogi Seiyaku K.K.	1200, Hikata, Kainan City	(76)	Ergot bacteria, & alkalloid soluble in water	Neo-sekaruchin	" "
Nippon Yuki K.K.	1334, Yakushu-bata, Wakayama City	(77)	Camphor, Peppermint, boracic acid, paraffin, glycerin etc.	Kawo Sarubu	" "
		(78)	Boracic acid, glycerin, setanol	Bōru ointment	" "
		(79)	Zinc white, pig's grease	Chinku Ointment	" "
		(80)	Mercury, pig's grease, & lanoline	Mercury Ointment	" "
		(81)	Acetic acid & aniline	Acetic Anilide	" "
		(82)	Zinc white, benzoin, Pig's grease	Zinc white Ointment	" "
		(83)	Setanol & peanut-oil	Setanol Ointment	" "
		(84)	Bee's wax & gingilli-oil	Simple Ointment	" "

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

Nippon Yuki K.K.	1334, Yakushubata, Wakayama City	(85) Boracic acid, glycerin, bee's wax & gingilli-oil	Boracic Ointment	Warehouse	None
		(86) Vegetable wax & rice-bran oil	Vegetable Wax Ointment	"	"
		(87) Naphthaline, iron-dust, sulphuric acid, nitric acid, & hydrochloric acid	Kawo Antsu	"	"
		(88) Sulphur, lime, etc.	Kawo Bath Happu	"	"
		(89) Phenel acetic acid, zinc sulphate, pepton, lactose, magnesium sulphate, acetone, sodium nitrate, etc.	Penicillin Kawo	"	"
		(90) Menthol, camphor, sulphur, glycerin, carbolic acid, etc.	Kawo Soap	"	"
Miki Seiyaku K.K.	1610, Yuasa-cho, Arida-gun	(91) Phenol, & creosote	Lysol	"	"
		(92) Paraffin & vaseline	Wax Ointment	"	"
		(93) Aspirin, acetic anilide, caffeine etc.	Anoiraaru	"	"
		(94) Bicarbonate of soda, magnesium carbonate, diastase, etc.	Māgen-jō	"	"
		(95) Citrate of lime	Bitakaruku	"	"

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

		acid, zinc sulphate, pepton, lactose, magnesium sulphate, acetone, sodium nitrate, etc.	Kawo		
		(90) Menthol, camphor, sulphur, glycerin, carbolic acid, etc.	Kawo Soap	"	"
Miki Seiyaku K.K.	1610, Yuasa-cho, Arida-gun	(91) Phenol, & creosote	Lysol	"	"
		(92) Paraffin & vaseline	Wax Ointment	"	"
		(93) Aspirin, acetic anilide, caffeine etc.	Anoiraaru	"	"
		(94) Bicarbonate of soda, magnesium carbonate, diastase, etc.	Māgen-jō	"	"
		(95) Citrate of lime	Bitakaruku	"	"
		(96) Zinc white, carbolic acid solution & peppermint	Aporu	"	"
		(97) Salicylic acid, creosote, glycerin & alcohol	Hauto Skin Medicine	"	"
		(98) Zinc sulphate, sulphamine, etc.	Daiyu Eye-lotion	"	"
Sambo Seiyaku K.K.	153-1, Higashi, Kaseda-cho, Ito-gun	(99) Acetic anilide, caffeine, etc.	Suparomin	"	"
Japan Acetification Industry Co., Ltd.	176, Usu, Wakayama City	(100) Aniline & acetic acid	Acetic Anilide	"	"
		(101) Soda ash & acetic acid	Acetic soda	"	"

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

Yura Seiko K.K.	518, Kozaika,	(102) Same as (100)	Acetic Anilide	Ware-house	None
		(103) Dichromic acid soda, sulphuric acid, bicarbonate soda, ammonium, caustic soda, ice, etc.	Saccharin	"	"
		(104) Acetic anilide, ammonium, ice, hydro-chloric acid, soda ash, etc.	Sulphamin	"	"
		(105) Benzol, sulphuric acid, soda ash, caustic soda	Carbolic acid	"	"
Shusuke Hori	418, Minato, Tanabe City	(106) Plums	Bainiku Ekisu	"	"
Sanei Kagaku Kogyo K.K.	2693, Yuasa, Yuasa-cho, Arida-gun	(107) Citrate lime, sulphuric acid	Citric acid	"	"
Kasano Kagaku Kogyo K.K.	587, Ota, Wakayama City	(108) Aniline & acetic acid	Acetic Anilide	"	"
Sugai Kagaku Goshi Kaisha	63, Uzu, Wakayama City	(109) Creosote, carbon, mentha oil, etc.	Creo Sugai	"	"
		(110) Alpha Naphthyl, & urea	Antsū Sugai	"	"
		(111) Sulphurized terebene, salicylic acid, etc.	Paintōru	"	"
Daiwa Kasei K.K.	518, Kozaika, Wakayama City	(112) Same as (103)	Saccharin	"	"
		(113) Same as (107)		"	"

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

	Tanabe City		Bainiku Ekisu	"	"
Sanei Kagaku Kogyo K.K.	2693, Yuasa, Yuasa-cho, Arida-gun	(107) Citrate lime, sulphuric acid	Citric acid	"	"
Kasano Kagaku Kogyo K.K.	587, Ota, Wakayama City	(108) Aniline & acetic acid	Acetic Anilide	"	"
Sugai Kagaku Goshi Kaisha	63, Uzu, Wakayama City	(109) Creosote, carbon, mentha oil, etc.	Creo Sugai	"	"
		(110) Alpha Naphthyl, & urea	Antsū Sugai	"	"
		(111) Sulphurized terebene, salicylic acid, etc.	Paintōru	"	"
Daiwa Kasei K.K.	518, Kozaika, Wakayama City	(112) Same as (103)	Saccharin	"	"
Takasago Kagaku K.K.	Habu, Yata-mura, Hidaka-gun	(113) Same as (107)	Citric acid	"	"

C. Petroleum Products Storage Areas

Name of Proprietors	Location	Type	Quantity	Storage
Eiichi Kawai	597, Hokko, Minoshima-cho, Arida-gun	Light oil Heavy "	100 k.l. 50	Steel tank
Fukusaburo Kawaguchi	Shimotsu-cho, Kaiso-gun	Heavy oil Light oil	115 30	
Hidekichi Iwamoto	1570 Minato, Wakayama City	Heavy oil Light oil	100 90	
Yoshitaro Nomura	Kitashioya, Shioya-mura, Hidaka-gun	" "	94.5	
Shinichi Yamazaki	Kamiyashiki-machi, Tanabe	"		

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

Mohe Oura	Omiyadori, Yuasa-cho, Arida-gun	Light oil	52	Steel tank	
Kaku Yamagata	485, Katsuura-cho, Higashimuro-gun	Heavy oil	24		
Denjiro Shibuya	1433, Hiro, Hiro-mura, Arida-gun	Light "	53.5		
Yoshigusu Asamoto	Susami, Susami-cho, Nishimuro-gun	" "	100		
		Heavy oil	50		
Seikichi Kirimoto	Hiki-cho, Nishimuro-gun	" "	50		
Shinjiro Ikeda	Masago-cho, Wakayama City	Light oil	6		
Eizo Naka	Katsuura-cho, Higashimuro-gun	" "	20		
		Heavy "	20		
Kaichiro Ozawa	"	" "	10		
Tokukichi Awata	"	" "	27		
		Light "	7		
Kiyoe Shimomura	82, Egawa-cho, Tanabe City	" "	360		
Naoichi Sakamoto	772, Shimotsu, Shimotsu-cho, Kaiso-gun	Heavy "	47		
		Light "	175		
Kusuo Katagiri	Wakaura, Wakayama City	" "	50	Under construction	

D. Ice Plant

Name	Location	Raw materials	Finished products	Storage method	Noxious gas
Wakayama Factory, Nippon Cold Storage K.K.	Motomachibugyo-cho, Wakayama City	Water	Ice	Ammonia expansion method	None

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

		"	"	10	
Tokukichi Awata	"	"	"	27	
		Light	"	7	
Kiyoo Shimomura	82, Egawa-cho, Tanabe City	"	"	360	
Naoichi Sakamoto	772, Shimotsu, Shimotsu-cho, Kaiso-gun	Heavy	"	47	
		Light	"	175	
Kusuo Katagiri	Wakaura, Wakayama City	"	"	50	Under construction

D. Ice Plant

Name	Location	Raw materials	Finished products	Storage method	Noxious gas
Wakayama Factory, Nippon Cold Storage K.K.	Motomachibugyo-cho, Wakayama City	Water	Ice	Ammonia expansion method	None
Tanabe Factory, N.C.S.K.K.	Egawa-cho, Tanabe City	"	"	"	"
Kushimoto Factory, N.C.S.K.K.	Kushimoto-cho, Nishimuro-gun	"	"	"	"
Katsuura Factory N.C.S.K.K.	Katsuura-cho, Higashimuro-gun	"	"	"	"
Wakayama Cold Storage K.K.	Nakanoshima, Wakayama City	"	"	"	"
Yura Seiko Goshi Co.	Kozaika, Wakayama City	"	"	"	"
Toa Nenryo Kogyo K.K.	Hajikami-mura, Kaiso-gun	"	"	"	"
Wakayama Factory, Nippon Comestibles K.K.	Gobo-cho, Hidaka-gun	"	"	"	"
[illegible]suura Reito Kaiun K.K.	Katsuura-cho, Higashimuro-gun	"	"	"	"
Yuasa Seih[illegible]yo Reizo	Yuasa-cho, Arida-gun	"	"	"	"

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

Mohe Oura	Omiyadori, Yuasa-cho, Arida-gun	Light oil	52	Steel tank
Kaku Yamagata	485, Katsuura-cho, Higashimuro-gun	Heavy oil	24	
Denjiro Shibuya	1433, Hiro, Hiro-mura, Arida-gun	Light "	53.5	
Yoshigusu Asamoto	Susami, Susami-cho, Nishimuro-gun	" "	100	
		Heavy oil	50	
Seikichi Kirimoto	Hiki-cho, Nishimuro-gun	" "	50	
Shinjiro Ikeda	Masago-cho, Wakayama City	Light oil	6	
Eizo Naka	Katsuura-cho, Higashimuro-gun	" "	20	
		Heavy "	20	
Kaichiro Ozawa	"	" "	10	
		" "	27	
Tokukichi Awata	"	Light "	7	
Kiyoe Shimomura	82, Egawa-cho, Tanabe City	" "	360	
Naoichi Sakamoto	772, Shimotsu, Shimotsu-cho, Kaiso-gun	Heavy "	47	
		Light "	175	
Kusuo Katagiri	Wakaura, Wakayama City	" "	50	Under construction

D. Ice Plant

Name	Location	Raw materials	Finished products	Storage method	Noxious gas
Wakayama Factory, Nippon Cold Storage K.K.	Motomachibugyo-cho, Wakayama City	Water	Ice	Ammonia expansion method	None
	"	"	"	"	"

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

Kiyoe Shimogura	82, Egawa-cho, Tanabe City	"	"	360	
Naoichi Sakamoto	772, Shimotsu, Shimotsu-cho, Kaiso-gun	Heavy Light	" "	47 175	
Kusuo Katagiri	Wakaura, Wakayama City	"	"	50	Under construction

D. Ice Plant

Name	Location	Raw materials	Finished products	Storage method	Noxious gas
Wakayama Factory, Nippon Cold Storage K.K.	Motomachibugyo-cho, Wakayama City	Water	Ice	Ammonia expansion method	None
Tanabe Factory, N.C.S.K.K.	Egawa-cho, Tanabe City	"	"	"	"
Kushimoto Factory, N.C.S.K.K.	Kushimoto-cho, Nishimuro-gun	"	"	"	"
Katsuura Factory N.C.S.K.K.	Katsuura-cho, Higashimuro-gun	"	"	"	"
Wakayama Cold Storage K.K.	Nakanoshima, Wakayama City	"	"	"	"
Yura Seiko Goshi Co.	Kozaika, Wakayama City	"	"	"	"
Toa Nenryo Kogyo K.K.	Hajikami-mura, Kaiso-gun	"	"	"	"
Nakayama Factory, Nippon Comestibles K.K.	Gobo-cho, Hidaka-gun	"	"	"	"
Katsuura Reito Kaisha K.K.	[illegible]	-	"	"	"
Yuasa Seihyo Reito K.K.	[illegible]	"	"	"	"

E. Sewage Treatment

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

DATA ON INDUSTRIAL PLANTS

A. Chemical Plants

Name	Location	Raw materials	Finished Products	Storage method	Noxious Gas
Nippon Paulownia Oil Industry K.K.	Yawata-cho, Tanabe City	Paulownia oil, benzol pigment, synthetic resin of phenol acid	Enamel, varnish	In 5 gal. can	None
Nippon Oil Industry K.K.	Ogo-mura, Ito-gun	Pine root pitch,	"	"	"
Natecho	Hikata, Kainan City	Zinc oxide	Paint	"	"
Yura Seiko Goshi Co.	Kozaika, Wakayama City	Caustic soda, nitric acid, sulphuric acid, hydrochloric acid	Medium-tar dyestuff	Wearhouse	"
Sugai Chemical Plant	183, Uzu, Wakayama City	"	"	"	"
Nankai Dyestuff Plant	"	"	Dyestuff	"	"
Wakayama Godo Chemical Plant	48, Kitadejima, Wakayama City	Caustic soda, nitric acid, hydrochloric acid	"	In barrel	"
Nippon Acetic Industry K.K.	Uzu, Wakayama City	Acetic acid, lime	acetic acid, spicery	In 2 kg. bottle	"
Sanei Chemical Industry K.K.	Yuasa-cho Arida-gun	Summer tangerine, plum-juice	Citric acid,	Wooden case	"
Takasago Chemical Industry K.K.	Yata-mura, Hidaka-gun	"	"	"	"

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

Plant	Wakayama City				
Nankai Dyestuff Plant	"	"	Dyestuff	"	"
Wakayama Godo Chemical Plant	48, Kitadejima, Wakayama City	Caustic soda, nitric acid, hydrochloric acid	"	In barrel	"
Nippon Acetic Industry K.K.	Uzu, Wakayama City	Acetic acid, lime	acetic acid, spicery	In 2 kg. bottle	"
Sanei Chemical Industry K.K.	Yuasa-cho Arida-gun	Summer tangerine, plum-juice	Citric acid,	Wooden case	"
Takasago Chemical Industry K.K.	Yata-mura, Hidaka-gun	"	"	"	"
Komatsuya Chemical Spicery Co.	Uchihara-mura, Hidaka-gun	-	Spicery	"	"
Shimada Pharmaceutical Plant	Miyabara-mura, Arida-gun	"	Citric acid	"	"
Nankai Chemical Industry K.K.	417, Kozaika, Wakayama City	Sulphide, industrial salt	Caustic Soda, sulphuric acid	Bottle, drum-can	"
Nippon Yuki K.K.	Minato, Wakayama City	Animal & vegetable benzol	Spicery, pomade	Drum-can	"
Showa Chemical Plant	Kimiidera, Wakayama City	Caustic soda	Medium dyestuff	barrel	"
Nippon Chemical Plant	Kozaika, Wakayama City	"	"	"	"
Kyowa Kasei Plant	"	Critic acid, aniline	Acetic anilide	"	"

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

Dodo Oxygen K.K.	Nozyo, Wakayama City	-	Oxygen	Bomb	None
Goni Chemical Plant	933, Kinokawa-cho, Wakayama City	Gall-nut	Tannic acid	Can	"
Fuji Chemical Plant	940, Kinokawa-cho, Wakayama City	"	"	"	"
Daiwa Chemical Plant	Kozaika, Wakayama City	Medium-bar	Sweet	"	"
Wakayama Plant, Toa Fuel Industry K.K.	Hajikami-mura, Kaiso-gun	-	Oxygen	Bomb	"
Rinsan Chemical Plant	Kudoyama-cho, Ito-gun	-	Japan cypress oil	"	"

B. Pharmaceutical Plants

Name	Location	Raw materials	Finished products	Storage method	Noxious Gas
Sumiko Wada	766, Wakaura, Wakayama City	(1) Salicylic acid, acetic acid, alcohol & water	Hifusui	Ware-house	None
		(2) Iron-dust, pachyma & starch	Hoketsu Shinzo Gan	"	"
Hidaka Seiyaku K.K.	Nakatsugawa, Yata-mura, Hidaka-gun	(3) Cinnamon oil, ipecac, carrot, Ferri-ammonium citricum, mentha oil, sugar & millet-jelly	Toraya Tanseki	"	"

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

B. Pharmaceutical Plants

Name	Location	Raw materials	Finished products	Storage method	Noxious Gas
Sumiko Wada	766, Wakaura, Wakayama City	(1) Salicylic acid, acetic acid, alcohol & water	Hifusui	Ware-house	None
		(2) Iron-dust, pachyma & starch	Hoketsu Shinzo Gan	"	"
Hidaka Seiyaku K.K.	Nakatsugawa, Yata-mura, Hidaka-gun	(3) Cinnamon oil, ipecac, carrot, Ferri-ammonium citricum, mentha oil, sugar & millet-jelly	Toraya Tanseki	"	"
		(4) Ferri-ammonium citricum, ginger, common fennel, saccharine, cinnamon bark, millet-jelly	Ne-tetsu Ame	"	"
		(5) Coptis japonica, carrot, iris root, cinnamon, Bengal quince, atractylis ovata, Chinese bell-flower, peppermint, etc.	Banno Sokkō San	"	"
Komaya Seiyaku K.K.	1685, Kokawa, Kokawa-cho, Naga-gun	(6) Extracts of greater plantain, & of garlic; powdered rikotagin	Rikotagin	"	"
Nankai Seiyaku K.K.	809, Sakaedani, Wakayama City	(7) Salicylic acid, acetic acid, alcohol & water	Hifusui	"	"

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

Nankai Seiyaku K.K.	809, Sakaedani, Wakayama City	(8) Iron-dust, potato starch, pachyma	Hoketsu Shinzo Gan	Ware-house	None
		(9) Dried orange peels, cinnamon, minor fennel, Bengal quince, atractylis ovata, pachyma, peony, bitter-stem, licorice	Kagen Homei San	"	"
Yoshimoto Senda	551, Uchida, Tanaka-mura, Naga-gun	(10) Colloid of hydrated magnesium	Mirumaku	"	"
Wakanoura Seiyaku Kaisha	898, Wakaura, Wakayama City	(11) Same as (9)	Kagen Homei San	"	"
		(12) Same as (9), plus chinese bell-flower, licorice, ginger, rhubarb, betel-nut etc.	Kagen Homei Gan for children	"	"
		(13) Acetic anilide, caffeine	Genetsu San	"	"
Kishu Seiyaku Kaisha	1-chome, Kataoka-cho, Wakayama City	(14) Gentian, juniper seed, greater plantain, deer-berry leaf, akebia, cape jasmine, Indian bean, licorice, etc.	Kaishun To	"	"
		(15) Phosphate of lime, iodine natrium, lactic acid lime, pow-dered rhubarb, [illegible] starch	Ruireki Gusuri	"	"

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

		(13) Acetic anilide, caffeine	Genetsu San	〃	〃
Kishu Seiyaku. Kaisha	1-chome, Kataoka-cho, Wakayama City	(14) Gentian, juniper seed, greater plantain, deer-berry leaf, akebia, cape jasmine, Indian bean, licorice, etc.	Kaishun To	〃	〃
		(15) Phosphate of lime, iodine natrium, lactic acid lime, powdered rhubarb, & starch	Ruireki Gusuri	〃	〃
Inada Seiyakusho	37, 9-chome, Higashinaga-machi, Wakayama City	(16) Digenea simplex, Japanese pepper, etc.	Makuri-yu	〃	〃
		(17) Almost same as (14)	Jitsubosan	〃	〃
		(18) Cinnamon, Chinese bell-flower, greater plantain, ginger, millet-jelly, etc.	Zensoku-ame	〃	〃
Shigeru Okada	15, Kita Shin-ebisu-cho, Wakayama City	(19) Minium, vegetable wax, gingili (or rape-oil)	Sokuyukō	〃	〃
Torao Tsujimoto	234, Shobutani, Hashimoto-cho, Ito-gun	(20) Almost same as (9)	Anchūsan	〃	〃
		(21) Coptis japonica, senna, akebia, rhubarb, etc.	Orento	〃	〃

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

..orao Tsujimoto	234, Shobutani, Hashimoto-cho, Ito-gun	(22) Bile of bear or cow, carrot, agallo-chum, Sumatra camphor, horn dust, & salicylic acid	Kiōgan	Ware-house	None
		(23) Arrowroot, ginger, cinnamon, licorite, etc.	Someisan	"	"
		(24) Extract of yellow Quercus Dentata	Daranisuke-Gan	"	"
		(25) Aminopirin, acetic anilide	Tsuji-pirin	"	"
		(26) Aspirin, acetic anilide, & caffeine	Korichiiru	"	"
		(27) Migrenine, acetic anilie, & caffeine	Meiro	"	"
		(28) Benzoin acid, cinnamon, caffeine, iron-dust, hypophos-phorous acid, etc.	Hoketsu Kyoshin Gan	"	"
		(29) same as (9)	Kagen Homei San	"	"
		(30) Same as (16)	Taichū-makuri	"	"
Hase Seiyaku K.K.	178, Tebira, Wakayama City	(31) Same as (16)	Kansai Makuri	"	"
		(32) Herbs such as mentioned so far. (Details are omitted hereafter, for mentioning herb names is not con-sidered so important)	Tainai Sōji Gan	"	"
		(33)	"		

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

		(28) Benzoin acid, cinnamon, caffeine, iron-dust, hypophosphorous acid, etc.	Hoketsu Kyoshin Gan	"	"
		(29) same as (9)	Kagen Homei San	"	"
		(30) Same as (16)	Taichū-makuri	"	"
Hase Seiyaku K.K.	178, Tebira, Wakayama City	(31) Same as (16)	Kansai Makuri	"	"
		(32) Herbs such as mentioned so far. (Details are omitted hereafter, for mentioning herb names is not considered so important)	Tainai Sōji Gan	"	"
		(33) "	Zitsubo-san	"	"
		(34) "	Furidashi Yaku	"	"
Wakayama Pref. Yakuhin Seisan	95, Ota Wakayama City	(35) "	Efetoru	"	"
		(36) "	Sekidome San	"	"
		(37) "	Astomin	"	"
		(38) "	Kyūkatsu Gan	"	"
		(39) "	Kagen Homei San	"	"
		(40) "	Ichōyaku	"	"
		(41) "	Haraita Tompuku		

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

akayama Pref. Yakuhin Seisan K.K.	95, Ota, Wakayama City	(42)	"	Kuchū Makuriyu	Ware-house	None
		(43)	"	Astomin	"	"
		(44)	"	Mankin Kō	"	"
		(45)	"	Jitsubo San	"	"
		(46)	"	Kikuman	"	"
		(47)	Acetic anilide, caffeine & carbonate of lime	Genetsu Tompuku	"	"
		(48)	Acetic anilide, caffeine & Chinese bell-flower	Nōberu Jō		
		(49)	Sulphur, quicklime, casein, mentha oil, phenol, & water	Pasumeru	"	"
		(50)	Zinc white, salicylic acid, & paraffin ointment	Rassa	"	"
		(51)	Bicarbonate of soda, magnesium carbonate, diastase, etc.	Apotaze	"	"
		(52)	Copper sulphate, vegetable wax, rape oil, pine-resin	Suidashi	"	"
		(53)	Zinc white, resin, raw gum, menthol, rape oil, Sumatra camphor, Salicylic acid,	Roimaban	"	"

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

		(50) Zinc white, salicylic acid, & paraffin ointment	Rassa	"	"
		(51) Bicarbonate of soda, magnesium carbonate, diastase, etc.	Apotaze	"	"
		(52) Copper sulphate, vegetable wax, rape oil, pine-resin	Suidashi	"	"
		(53) Zinc white, resin, raw gum, menthol, rape oil, Sumatra camphor, Salicylic acid, etc.	Roimaban	"	"
		(54) Almost same as (53)	Mintosu	"	"
Kamo Branch,	101, Komatsu-bara, Kamo-mura, Kaiso-gun	(55) Same as (35)	Efetoru	"	"
		(56) Same as (53)	Roimaban	"	"
		(57) Same as (46)	Kikuman	"	"
		(58) Same as (50)	Rassa	"	"
		(59) Same as (52)	Suidashi	"	"
		(60) Same as (54)	Mintosu	"	"
		(61) Gingelly-oil, Pine-resin, minium, etc.	Mankinko	"	"
Kinan Seiyaku K.K.	485, Minato, Tanabe City	(62) Herbs such as mentioned so far. (Details are omitted for convenience' sake)	Ninjin Sokkoen	"	"

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

Kinan Seiyaku K.K.	485, Minato, Tanabe City	(63)	"	Tetsu Ame	Ware-house	None
		(64)	"	Furidashi Yaku	"	"
Nishimura Senko K.K.	Inambara. Inahara-mura, Hidaka-gun	(65)	"	Mandaraha Ekisu	"	"
		(66)	"	Kiōgan	"	"
		(67)	"	Daranisuke-Gan	"	"
		(68)	"	Kyukatsu-gan	"	"
		(69)	"	Kyōshin	"	"
		(70)	"	Kagen Homei San	"	"
		(71)	Bicarbonate of soda, bismuth nitrate, oxidized magnesium, etc.	Urukusu Jō	"	"
Hirakoshi Seiyakusho	1616, Kudoyama, Kudoyama-cho, Ito-gun	(72)	Herbs such as mentioned so far.	Jipposan	"	"
		(73)	"	Undosan	"	"
		(74)	"	Ōgan	"	"
		(75)	"	Daranisuke-gan	"	"
Shionogi Seiyaku K.K.	1200, Hikata, Kainan City	(76)	Ergot bacteria, & alkalloid soluble in water	Neo-sekaruchin	"	"
Nippon Yuki K.K.	1334, Yakushu-bata, Wakayama City	(77)	Camphor, Peppermint, boracic acid,	Kawo Sarubu	"	"

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

		soda, bismuth nitrate, oxidized magnesium, etc.			
Hirakoshi Seiyakusho	1616, Kudoyama, Kudoyama-cho, Ito-gun	(72) Herbs such as mentioned so far.	Jipposan	"	"
		(73) "	Undosan	"	"
		(74) "	Ōgan	"	"
		(75) "	Daranisuke-gan	"	"
Shionogi Seiyaku K.K.	1200, Hikata, Kainan City	(76) Ergot bacteria, & alkalloid soluble in water	Neo-sekaruchin	"	"
Nippon Yuki K.K.	1334, Yakushu-bata, Wakayama City	(77) Camphor, Peppermint, boracic acid, paraffin, glycerin etc.	Kawo Sarubu	"	"
		(78) Boracic acid, glycerin, setanol	Bōru ointment	"	"
		(79) Zinc white, pig's grease	Chinku Ointment	"	"
		(80) Mercury, pig's grease, & lanoline	Mercury Ointment	"	"
		(81) Acetic acid & aniline	Acetic Anilide	"	"
		(82) Zinc white, benzoin, Pig's grease	Zinc white Ointment	"	"
		(83) Setanol & peanut-oil	Setanol Ointment	"	"
		(84) Bee's wax & gingilli-oil	Simple Ointment	"	"

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

ippon Yuki K.K.	1334, Yakushubata, Wakayama City	(85) Boracic acid, glycerin, bee's wax & gingilli-oil	Boracic Ointment	Warehouse	None
		(86) Vegetable wax & rice-bran oil	Vegetable Wax Ointment	"	"
		(87) Naphthaline, iron-dust, sulphuric acid, nitric acid, & hydrochloric acid	Kawo Antsu	"	"
		(88) Sulphur, lime, etc.	Kawo Bath Happu	"	"
		(89) Phenel acetic acid, zinc sulphate, pepton, lactose, magnesium sulphate, acetone, sodium nitrate, etc.	Penicillin Kawo	"	"
		(90) Menthol, camphor, sulphur, glycerin, carbolic acid, etc.	Kawo Soap	"	"
Miki Seiyaku K.K.	1610, Yuasa-cho, Arida-gun	(91) Phenol, & creosote	Lysol	"	"
		(92) Paraffin & vaseline	Wax Ointment	"	"
		(93) Aspirin, acetic anilide, caffeine etc.	Anoiraaru	"	"
		(94) Bicarbonate of soda, magnesium carbonate, diastase, etc.	Māgen-jō	"	"

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

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

		sulphur, glycerin, carbolic acid, etc.			
Miki Seiyaku K.K.	1610, Yuasa-cho, Arida-gun	(91) Phenol, & creosote	Lysol	"	"
		(92) Paraffin & vaseline	Wax Ointment	"	"
		(93) Aspirin, acetic anilide, caffeine etc.	Anoiraaru	"	"
		(94) Bicarbonate of soda, magnesium carbonate, diastase, etc.	Māgen-jō	"	"
		(95) Citrate of lime	Bitakaruku	"	"
		(96) Zinc white, carbolic acid solution & peppermint	Aporu	"	"
		(97) Salicylic acid, creosote, glycerin & alcohol	Hauto Skin Medicine	"	"
		(98) Zinc sulphate, sulphamine, etc.	Daiyu Eye-lotion	"	"
Sambo Seiyaku K.K.	153-1, Higashi, Kaseda-cho, Ito-gun	(99) Acetic anilide, caffeine, etc.	Suparomin	"	"
Japan Acetification Industry Co., Ltd.	176, Usu, Wakayama City	(100) Aniline & acetic acid	Acetic Anilide	"	"
		(101 Soda ash [illegible]tic acid &	Acetic s[illegible]	"	"

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

Yura Seiko K.K.	518, Kozaika,	(102) Same as (100)	Acetic Anilide	Ware-house	None
		(103) Dichromic acid soda, sulphuric acid, bicarbonate soda, ammonium, caustic soda, ice, etc.	Saccharin	"	"
		(104) Acetic anilide, ammonium, ice, hydro-chloric acid, soda ash, etc.	Sulphamin	"	"
		(105) Benzol, sulphuric acid, soda ash, caustic soda	Carbolic acid	"	"
Shusuke Hori	418, Minato, Tanabe City	(106) Plums	Bainiku Ekisu	"	"
Sanei Kagaku Kogyo K.K.	2693, Yuasa, Yuasa-cho, Arida-gun	(107) Citrate lime, sulphuric acid	Citric acid	"	"
Kasano Kagaku Kogyo K.K.	587, Ota, Wakayama City	(108) Aniline & acetic acid	Acetic Anilide	"	"
Sugai Kagaku Goshi Kaisha	63, Uzu, Wakayama City	(109) Creosote, carbon, mentha oil, etc.	Creo Sugai	"	"
		(110) Alpha Naphthyl, & urea	Antsū Sugai	"	"
		(111) Sulphurized terebene, salicylic acid, etc.	Paintōru	"	"
Deiwa Kasei K.K.	518, Kozaika, Wakayama City	(112) Same as (103)	Saccharin	"	"

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

Kogyo K.K.	[illegible], Yuasa-cho, Arida-gun	(107) [illegible] sulphuric acid	Citric acid		
Kasano Kagaku Kogyo K.K.	587, Ota, Wakayama City	(108) Aniline & acetic acid	Acetic Anilide	"	"
Sugai Kagaku Goshi Kaisha	63, Uzu, Wakayama City	(109) Creosote, carbon, mentha oil, etc.	Creo Sugai	"	"
		(110) Alpha Naphthyl, & urea	Antsū Sugai	"	"
		(111) Sulphurized terebene, salicylic acid, etc.	Paintōru	"	"
Daiwa Kasei K.K.	518, Kozaika, Wakayama City	(112) Same as (103)	Saccharin	"	"
Takasago Kagaku K.K.	Habu, Yata-mura, Hidaka-gun	(113) Same as (107)	Citric acid	"	"

C. Petroleum Products Storage Areas

Name of Proprietors	Location	Type	Quantity	Storage
Eiichi Kawai	597, Hokko, Minoshima-cho, Arida-gun	Light oil Heavy "	100 k.l. 50	Steel tank
Fukusaburo Kawaguchi	Shimotsu-cho, Kaiso-gun	Heavy oil Light oil	115 30	
Hidekichi Iwamoto	1570 Minato, Wakayama City	Heavy oil Light oil	100 90	
Yoshitaro Nomura	Kit[illegible] Sh[illegible] gu[illegible]	" "	[illegible]4.5	
Shinichi Yamazaki	Kamiyasaiki, Tanabe City	" "	1[illegible] 1[illegible]	

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

C.O.
Ex.O.
Adj. B, 004
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PU

HEADQUARTERS I CORPS
APO 301 (Kyoto, Honshu)

EHN/yo

AG 004 - BA

16 December 1946

SUBJECT: Conversion and Reconversion of Industrial Plants.

TO: See Distribution.

1. Reference:

a. Operational Instructions No. 2, Headquarters I Corps, dated 15 February 1946, hereafter referred to as OI-2.

b. Memorandum for the Imperial Japanese Government from General Headquarters, Supreme Commander for the Allied Powers, AG 004 (22 Nov 46) ESS/IN, (SCAPIN - 1355), subject: "Permits for Conversion and Reconversion of Industrial Plants", dated 22 November 1946, hereafter referred to as SCAPIN - 1355.

2. OI-2 is hereby rescinded. Action governing conversion and reconversion of industrial plants is contained in SCAPIN - 1355.

BY COMMAND OF MAJOR GENERAL WOODRUFF:

LAWRENCE E NOBLES
Colonel, AGD
Adjutant General

DISTRIBUTION:
2 ea Mil Govt Region &
Team, I Corps Z/R
3 AG Rec, I Corps

24

18 DEC 1946

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

HEADQUARTERS
WAKAYAMA MILITARY GOVERNMENT TEAM
APO 660
WAKAYAMA, HONSHU, JAPAN

LWJ/kt

14 November 1946

SUBJECT: Movement of loaned reparation machinery to 2nd Naval Fuel Depot, (23-13), Yokkaichi, Mie Prefecture.

TO : Commanding Officer, Mie Mil Govt Team
APO 710

Reference: (a) Your letter dated 22 October 1946.
(b) Our letter dated 30 October 1946.

1. Reference (b) stated that this office would notify you as to the date of shipment, etc. of subject machinery.

2. We have been advised that shipment was made as follows:

a. Reparations machinery numbers 23-13-200 and 201.
b. Inokuchi type pump, 10 hp motor attached direct.
c. Shipment by freight car number 724080.
d. Number of crates two (2).
e. Date of shipment 30 October 1946.

FOR THE COMMANDING OFFICER:

BILL N. McFARLAND
1st Lt., QMC
Adjutant

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

File

HEADQUARTERS
WAKAYAMA MILITARY GOVERNMENT TEAM
APO 660
WAKAYAMA, HONSHU, JAPAN

LWJ/kt

30 October 1946

SUBJECT: Movement of loaned reparation machinery to 2nd Naval Fuel Depot, (23-13), Yokkaichi, Mie Prefecture.

TO : Commanding Officer, Mie Mil Govt Team
APO 710

Reference: (a) Your letter dated 22 October 1946.

1. In compliance with reference (a), enclosed is a copy of our letter to the Maruzen Petroleum Co. Ltd., Shogaku, Kaiso-gun, Wakayama Prefecture, which is self explanatory.

2. The officials of the company advise that shipment will be made within a short time and the information as requested in our letter will be forwarded to your office when received.

FOR THE COMMANDING OFFICER:

BILL N. McFARLAND
1st Lt., QMC
Adjutant

Enc: 1

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

HEADQUARTERS
WAKAYAMA MILITARY GOVERNMENT TEAM
APO 660

LWJ/kt

25 October 1946

Maruzen Petroleum Co. Ltd
Shogaku, Kaiso-gun,
Wakayama, Prefecture.

Gentlemen:

Information has been received from Mr. Seizaburo Kaneko, Chief of Mie Custodian Branch, Nagoya Finance Bureau to the effect that your company has on hand two reparations machines, inventory numbers 200-201.

We have been requested by the Mie Military Government APO 710 and you are so directed to ship these machines immediately, to the following address:

2nd Naval Fuel Depot (23-13)
Yokkaichi,
Mie Prefecture

You are herewith directed to properly crate or otherwise protect the machinery from damage during shipment, properly marking the crates, etc., to insure prompt delivery.

As soon as shipment has gone forward, you will notify this office with the following information:

1. Types of machines
2. Date of shipment
3. Method of shipment (train, truck, etc)
4. Number of crates, unboxed items, etc.

LW JORDAN
Chief of Resources and Industry
Wakayama Military Government

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

MIE MILITARY GOVERNMENT TEAM
APO 710

22 October 1946.

SUBJECT: Movement of loaned reparation machinery to 2nd Naval Fuel Depot, (23-13), Yokkaichi, Mie Prefecture.

TO : Commanding Officer, Wakayama Mil Govt Team, APO 660 (Attn: Industrial Officer)

1. Permission has been granted for subject company to return her loaned inventoried machinery, shown on Inclosur 1, to 2nd Naval Fuel Depot, (23-13), Yokkaichi, Mie Prefecture, for the following reasons:

a. To centralize control.
b. To preserve the machinery.

FRANK L. BOCK
Lt. Col., Inf.
Commanding.

1 Inclosure: -- List of subject company's loaned inventoried machinery.

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

RECEIVED CUSTODIAN BRANCH
NAGOYA FINANCE BUREAU

Oct. 7 1946

SUBJECT : The report of the Exact Sites of the Loaned Machinery Outside Mie Prefecture.

TO : Mie Military Government Team.

I report you the exact sites of the Loaned Machinery outside Mie Prefecture.

Name of Pref.	Location	Invent No.	Name of Borrower	Quantity
Osaka	14-8,Tanabe-Higashino-machi,Sumiyoshi-ku, Osaka-city	162-198	Showagumi	37
Aichi	Sasajima,Nakamura-ku, Nagoya-city	199	Kinki Railway Co.,Ltd.	1
"	Nagoya-city	205-219	Nagoya Railway Co.,Ltd.	15
"	30 Shumoku-cho, Higashi-ku,Nagoya-city	222-230	Ataka Ind. Co.	9
"	Nagoya-city	261-267	Nagoya University	7
"	"	220-201	Nagoya Commu,Bureau	2
Wakayama	Shogaku, Kaisó-gun, Wakayama Pref.	200-201	Maruzen Petroleum Co.,Ltd.	2
Kyoto	22 Kamichoshi-machi, Kamitobe, Shimokyo-ku,Kyoto-city	268-423	Nippon Yakin Co.,Ltd.	156
Tokyo	Kamedo-cho,Joto-ku, Tokyo	424-427	Asegi Ind.Co.,Ltd.	
"	614,7 chome Ebara, Ebara-ku, Tokyo	691-693	Dai Nippon Denguo Co.,Ltd.	3
Osaka	Nakano,Tatezumachi, Nakakawachi-gun, Osaka-Pref.	730-731	Osaka Kosakusho	2
"	No.6 Mitsuya-Minami-machi,Higashiyodogawa-ku,Osaka-city	202-204 729	Kito Iron Works	

K. Kaneko

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

Dock
File
Index
Corres

HEADQUARTERS
WAKAYAMA MILITARY GOVERNMENT TEAM
APO 660, OSAKA (WAKAYAMA)

BNM/ct

3 October 1946

SUBJECT: Salvage of Used Cement Bags

TO : Mr. T Satow, Chief Liaison Officer
Wakayama City, Wakayama Prefecture

1. Reference is made to letter, GHQ SCAP, AG 457 (16 September 1946) ESS/IN, 16 September 1946, subject as above.

2. Information submitted by the Japan Cement Industrial Association indicates there will be an acute shortage of cement bags by October 1946. Direct action must be taken to return all bags to manufacturers. Contractors will be so directed that when opening bags of cement that care is taken not to ruin the bags.

3. It is also important that all damaged bags be returned for use in other paper products which are very short in supply.

BY ORDER OF LT COL LYONS:

BILL N. McFARLAND
1st Lt QMC
Adjutant

19

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

HEADQUARTERS
WAKAYAMA MILITARY GOVERNMENT TEAM
APO 660, OSAKA (WAKAYAMA)

GLD/ats

27 September 1946

SUBJECT: Transfer of 100 HP Compressors

TO : Wakayama Iron Works, Fuso (Sumitomo) Metal Ind. Ltd. Wakayama City, Wakayama Prefecture

1. Reference is made to letter your office, dated 19 September 1946, subject as above.

2. This application was sent to higher headquarters for approval, and the following answer was received:

"Inasmuch as the equipment in question has already been inventoried at the Amagasaki Plant, it is not deemed advisable to permit its transfer to the Wakayama Plant of this company. The application of the subject company is denied."

3. The above is forwarded for your information.

BY ORDER OF LT COLONEL LYONS:

CARL T. CRUMRINE
Captain, AC
Adjutant

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

BASIC: Ltr, Wakayama Mil Govt Team, subj: "Transfer of 100 HP Compressors", dtd 19 Sept 46.

AG 004 - BA 1st Ind EHN/md

Hq I Corps, APO 301, 25 SEP 1946

TO: CO, Wakayama Mil Govt Team, APO 660.

1. Paragraph 7 of Operational Instructions No. 3, Headquarters I Corps, dated 15 February 1946, states that the purpose of permitting transfer of machinery designated for reparations is to insure the machinery will receive proper care and will be available for reparations. The above does not appear to be the primary purpose of the application of the Fuso Metal Industries Company.

2. Inasmuch as the equipment in question has already been inventoried at the Amagasaki Plant, it is not deemed advisable to permit its transfer to the Wakayama Plant of this company. The application of the subject company is denied.

BY COMMAND OF MAJOR GENERAL WOODRUFF:

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

I Incl:
Request, Wakayama Iron Works
to Wakayama Mil Govt, dtd
19 Sep 46 (dup)

BA/6816

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

HEADQUARTERS
WAKAYAMA MILITARY GOVERNMENT TEAM
APO 660, OSAKA (WAKAYAMA)

GLD/ctk

19 September 1946

SUBJECT: Transfer of 100 HP Compressors

TO : Commanding General, I Corps
APO 301, Kyoto
ATTN: Military Government Section

1. Attached is a request for the transfer of two (2) 100 HP compressors from the Tube Rolling Works (formerly Sumitomo) at Amagasaki to Wakayama Iron Works, Fuso (Sumitomo) Metal Ind. Ltd.

2. Due to the fact that the Wakayama Iron Works, Fuso (Sumitomo) Metal Ind. Ltd., is included in SCAPIN--1130 AG 387.6 (13 August 1946) ESSIN "Reparations Selections Within the Iron and Steel Industry", and the Tube Rolling Works is not, it is believed advisable to secure approval from higher headquarters to effect this transfer.

HQ. I CORPS
AG 004

FOR THE COMMANDING OFFICER:

CARL T. CRUMRINE
Captain, AC
Adjutant

1 Incl
As indicated

134/68/6

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

No. WS-2034

19th September, 1946.

Lt. Col. C. M. Lyons,

Wakayama Military Government Team,

WAKAYAMA

Dear Sir,

Re. Transfer of 100HP Compressors to our Plant.

Concerning our steel tyre production, 100 HP compressors (2) are required for heat-treatment furnace and pneumatic chopping hammer. Consequently, we would like to transfer two compressors (100 HP each) from our sister company, Tube Rolling Works, at Amagasaki (near Kobe).

In this case, we are afraid that the machines removed to our plant will be mixed up with our own property which is, now, under the custody and control directive. Therefore, as for these two compressors to be borrowed from the above company, we wish to mark "Amagasaki Property No.1000 and 1001" to discriminate from other machines of our own.

We hereby, beg to request you will kindly grant us a permit for transfer of compressors to our plant and at the same time, recognize the fact that these compressors are borrowed from the above company.

Yours truly,

For K. Matsuoka.
(Sub-Manager)

Wakayama Iron Works,
Fuso (Sumitomo) Metal Ind. Ltd.

Encl 1'

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

HEADQUARTERS
WAKAYAMA MILITARY GOVERNMENT TEAM
APO 660, OSAKA (WAKAYAMA)

GLD/ats

25 September 1946

SUBJECT: Ltr This Headquarters, 16 Sept 46, subject: "Petition" (of Fuso Metal to Exclude Certain Machinery From SCAP-IN - 1130 (13 August 46)

TO : Commanding General, I Corps
APO 301, Kyoto
ATTN: Military Government Section

1. Reference is made to our letter of 16 September 1946 (copy attached) in which a petition from the Fuso Metal Industry was forwarded to secure permission to exclude certain machinery from the reperations list as outlined in SCAPIN 1130, dated 13 August 1946.

2. Particular reference is made to paragraph 5. Attached hereto are letters from the Director, General Affairs Department(The Japan Iron and Steel Council), and the Governor of Wakayama Prefecture in support of the original petition submitted by this command by reference letter.

FOR THE COMMANDING OFFICER:

CARL T. CRUMRINE
Captain, AC
Adjutant

Incls
As indicated

26

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

No. WS-2032

19th September, 1946.

Lt. Col. C. M. Lyons,
Wakayama Military Government Team,
WAKAYAMA

Dear Sir,

Re. Letter of Recommendation.

Under the date of 12th September, 1946 we submitted you an application for releasing permission of our steel tyre producing department from the list of custody directive provided that we would present you letters of recommendation soon after obtaining the same from the authorities concerned.

As for the letters of recommendation from Transportation Ministry and Ministry of Commerce & Industry, they will directly present SCAP the same through the Central Liaison Office. The attached letters of recommendation are from the governer of Wakayama Prefecture and the Japan Iron and Steel Council.

We hereby, beg to request you will kindly take an adequate procedure about the letter.

Yours truly,

H. Suzuki
(Manager)

Wakayama Iron Works,
Fuso (Sumitomo) Metal Ind. Ltd.

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

September 13, 1946.

To: Commander

The Wakayama Military Government Team H.Q.

Wakayama

Wakayama

Subject:

Recommendation for petition from Fuso Metal Industries, Ltd., Wakayama Iron Works, for exclusion from the list of custody and control in OD - 5.

Your Excellency:-

We wish to ask you to give a special consideration to the Fuso Metal Industries Ltd., Wakayama Iron Works, for an exclusion from the list attached to the Memorandum AG 387.6 (15 Aug. 46) ESS/IN.

The Wakayama Iron Works, located 1850 Minato Wakayama City, has been taken into custody and control of the Supreme Commander for the Allied Powers by the above Memorandum.

Based upon the actual situation concerned, the Wakayama Iron Works, and Osaka Steel Works of the Fuso Metal Industries Ltd. hold the first place in the production of Steel Tyres for railways in Japan and regarding the manufacture of this particular product, we cannot find any other plant as a substitute for them in Japan ~~this nature~~.

Comparing these two outstanding plants, it might be said that Wakayama plant stands on much more favorable condition than the Osaka Steel Works, as the latter has the following disadvantages.

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

Firstly, as the Osaka plant has been operated for the last twenty years since the establishment, its entire equipment are worn out practically next to suspention and secondly, the plant is located at a place where the flooded occurs almost every year.

Consequently, the Wakayama Works must be depended mostly for the production of the Steel Tyres in the near future.

The following figures show the monthly production of the Steel Tyre producing plants in Japan.

	July	Aug.
Fuso Osaka Plant	1,258mt.	1,179mt.
" Wakayama Plant	159	522
Yawata Iron Works	82	70
	1,499	1,771

We wish to add herewith that the production of tyres for railway use is urgently and abundantly needed at this time of post-war confusion in order to solve the traffic difficulties, which is causing intolereble inconveniences to the public as well as the hindrance to the nation's industrial recovery.

We deem it absolutely necessary to retain such an important plant as the Wakayama Works for the maintenance and progress of the peaceful industry in Japan.

Thanking you for your kind consideration.

Yours truly,

Tadayoshi Yamada

Tadayoshi Yamada.

Director, General Affairs Department.
The Japan Iron and Steel Council.

TY/KU

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

COPY

No. WS-2033

18th September, 1946.

Lt. Col. C.M. Lyons,
Wakayama Military Govern,emt Team,
WAKAYAMA

Dear Sir,

Re. Exclusion of Wakayama Iron Works,
Fuso Metal Ind. Ltd. from the
list of Custody Directive.

Wakayama Iron Works, located No.1850, Minato, Wakayama City, has been engaged in the production of essential civilian commodity, steel tyres, which is urgently required in securing the transportation capacity as well as reestablishing the economic constitution in this country.

Under force of reconversion permit No.IG-373 dated 10th June, 1946, the production of steel tyres was started and has been carried out efficiently with a record of 159 tons in July and 511 tons in August against the planned production of 150 tons and 400 tons respectively.

In its supremacy of products as well as installed equipments, we deem it absolutely necessary to exempt such an important plant as Wakayama Iron Works from the list of custody derective in consideration of the fact that the plant is playing an indispensable role on production of steel tyres of which demand can not entirely be sufficed with the products of other two manufacturers at present.

Wakayama Iron Works, producing steel tyres with its excellent skills and efficient capacity, should,

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

by all means, be released from the list, I firmly believe.

Soliciting for your special consideration,

Yours truly,

(Governor- W. Kawakami)

Governor of Wakayama Prefecture.

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

FILE

HEADQUARTERS
WAKAYAMA MILITARY GOVERNMENT TEAM
APO 660, OSAKA (WAKAYAMA)

GLD/ctk

16 September 1946

SUBJECT: Petition

TO : Commanding General, I Corps
APO 301, Kyoto
ATTN: Military Government Section

1. Attached hereto is a petition from Wakayama Iron Works, Fuso (Sumitomo) Metal Industries Ltd., for the release of certain machinery now earmarked for the reparations program and engaged in the manufacture of steel railway tires.

2. This company is included on the "Reparations Selections within the Iron and Steel Industry" AG 387.6 (13 August 1946) ESS/IN (SCAPIN 1130)

3. This part of the plant is now manufacturing steel tires under reconversion permit IC-373 issued 10 June 1946 by HQ I Corps.

4. According to information furnished this command through Japanese channels, steel railway tires are critically needed for civilian economy, and the present production throughout Japan is insufficient for the minimum operations of the rail rolling stock.

5. Through the Chief Liaison Office, Tokyo, this firm is forwarding to SCAP memorandums from the Governor of this Prefecture as well as the Minister of Transportation in supporting this petition.

6. It is recommended by this command that consideration be given this petition with the view of releasing that part of this factory from the "Reparations Selections within the Iron and Steel Industry". The total machinery used in the production of steel tires in this factory is less than 15% of the total machinery in the plant.

FOR THE COMMANDING OFFICER:

CARL T. CRUMRINE
Captain, AC
Adjutant

Incl
As indicated

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

WAKAYAMA IRON WORKS,
FUSO (SUMITOMO) METAL INDUSTRIES LTD.

No. WS-2031

12th September, 1946.

Lt. Colonel C.M. Lyons

HQ Wakayama Military Government Team,

WAKAYAMA

Dear Sir,

Re. Application for Releasing Permission of Tyre Manufacturing Dept. of Wakayama Iron Works from Custody Directive.

Being designated by SCAP for reparations, we hereby, submit you an application in order to be released our steel tyre production of railway vehicles at our plant from the list.

Under force of reconversion permit No. IG-373 dated 10th June, 1946, issued by HQ I Corps, since 13th July, 1946, steel tyre production at our plant has been efficiently carried out to contribute the security and restoration of transportation capacity as well as to accerelate the reestablishment of civilian economy in this country. The production figure shows ever rising higher and higher closing to the extermity of the rated capacity day by day. As it is described in the attached application, our Wakayama Iron Works, as one of trios of steel tyre Manufacturers, is playing an important role occupying 23.6% for total production of this country.

In its supremacy of material and accuracy of the product, we have been gaining a good reputation for its

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

splendid skills as well.

At present, even total production of steel tyres can hardly suffice 70% of total demand. Consequently, should our plant be abolished, that is to say, not be released from the list of reparation, it would be a big hamper in the security and restoration of transportation capacity and in the election of civilian economy as well.

Salient features of Wakayama Iron Works lies in the fact that

(1) we are producting absolutely essencial civilian commodity, steel tyres, of which demand ever increasing and never be sufficed with the present production capacity,

(2) our equipment was recently installed while the equipments of other two manufacturers is going to be super-annuated.

Such being the case, we sincerely wish you will kindly grant us a permit with your special consideration. With the burning desises for continuing the steel tyre production not only for our own sake but also for reelection of our economic constitution in this country, we hereby, submit you the attached application and solicit for your spirit of fairness and cooperation on this matter.

Yours truly,

H. Suzuki

(Manager- H. Suzuki)

WAKAYAMA IRON WORKS,
FUSO (SUMITOMO) METAL IND. CO. LTD.

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

Fuso Metal Industries Ltd.

55, 4 chome, Azuchimachi,
Higashiku, Osaka.

Fuki No.338

10 Sept. 1946

Subject: Application for Releasing permission of
Tyre manufacturing department of
Wakayama Iron Works, from
Custody Directive

To : Headquarters Wakayama Military Government Team,
W A K A Y A M A

We hereby submit you an application for releasing permission of Tyre manufacturing department of Wakayama Iron Works from Custody Directive, and, solicit you will kindly grant us a permit with your special consideration.

Yours truly,

for Teiji Kadakawaji
President

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

Application for releasing permission of tyre manufacturing department of Wakayama Iron Works, from Custody Directive.

(A) The Name of Company:

Fuso Metal Industries Ltd.
(The former name, Sumitomo Metal Industries, Ltd.)

(B) The Name of Plant:

Wakayama Iron Works of Fuso Metal Industries Ltd.
(The former name, Wakayama Works of Sumitomo Metal Industries, Ltd.)

(C) Address of the Company and Plant:

a. Address of the company.
55, 4 chome, Azuchimachi, Higashiku, Osaka.

b. Address of the Plant.
1850 Minato, Wakayama-shi, Wakayama Pref.

(D) Establishment of Company and Plant, starting of operation:

a. Establishment of Company.
Sept. 1935.

b. Starting of operation.
Apr. 1942.

(E) Short History of the Plant:

In response to rapid increase of demand of steel products in 1939. and on the other hand, to fill this company's long-cherished ambition on consistant iron industry from mineral to finished products, they started on construction of Wakayama Iron Works at Minato district, Wakayama City, Wakayama pref. in the same year. After conquest much difficulties of shortage of materials, the plant partly completed in July 1942. They commenced operation to produce railway car tyres, sheet metals forged steels and steel tubes. But until the end of the War, the hope of consistent iron industry could not be realized. They closed immediately after the War.

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

In June 1946, the plant had granted reconversion permit on the items of tyres, wheel centers and engine frames, annual production 9,000 tons, by command of I Corps AG004-EA. Ref: IG-373.

The later part of the War, the plant tried to produce munitions by order, but original equipments were for the tyre production of rail way cars. Therefore, it was rather limited on producing munitions than producing tyres.

(F) 1934 - 1936. annual production:

The Name and Quantity.
None

(G) 1937 - 1945. Annual production:

The Name and Quantity.

(Unit ton)

Description		1942	1943	1944	1945
Ordinary Steel Ingots		12,367	13,659	11,392	3,105
Steel Tyres		1,194	2,615	6,231	1,017
Others					
Special Steel	Ingots	4,145	18,598	29,898	3,780
Ratio of Tyre Ingots to total production(%)		70	39	24	39

(H) The Name of production and quantity:

Monthly production on each item, after reconversion permitted for civilian products. and the plan on the same in future.

Description	Name of Products	1945 Jan. to 15th Aug. (ton)	1945 August (ton)	1945 Sept.	After Oct
Actual Production	Steel tyres	158.593	511.216	-	-
Planned		1[illegible]0.	400.	450.	500.

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

(I) Summary of Equipment (Except fixed constructions such as pits and chimnies.)

a. Machinerics & Equipments needed to continue production.

(Department)	(Description)	(Capacity)	(No)	(Remarks)
Melting	1st Forging shop		8,026 m²	
	Electric Arc fur.	10T	2	
	Transformer	4000 KVA	1	with suplements
	Ladle	10T	5	
	Overhead Crane	25T	1	installed in the 1st melting shop
	"	20T	2	
	"	10T	1	
	"	5T	1	
	Scrap Yard Crane	10T	2	
	Edge Runner		1	
	Hammer	1T	1	
	Upright Drill		2	
	Grinder		1	
	Ball Mill		1	
	Testing Apparatus		1	
	Weighbr	15T	1	
	Wiring & Tubing		1	
	Transforming Equipment		1	
Calcinating Kiln	Calcination Kiln Shop		948 m²	
	Drying Furnace		1	
	Magnesia Calcination Kiln		2	
	Crasher	2T	1	
	Edge Runner	"	2	
	Overhead Crane	3T	1	
	Hoist	"	1	
	Wiring & Tubing		1	

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

(Department)	(Description)	(Capacity)	(No.)	(Remarks)
Forging Tyres	4th Forging shop		15,915 m2	
	Hydraulic Press	2,000 T	1	
	"	3,000 T	1	
	Tyre Mill		1	
	Marking Press		1	
	Ingot Cutter		1	
	Ingot Slicer		1	
	Forging Manipulator	1 T	1	
	Continuous Heating furnace		1	
	Hydraulic Pump	500HP	3	
	"	125 "	1	
	Accumulator	200kg/cm2	1	
	"	55 "	1	
	Vertical lathe		7	
	Face Lathe		1	
	Grinder		2	
	Upright Drill		1	
	Overhead Crane	10 T	2	
	"	5 "	2	
	"	3 "	2	
	Jib Crane	3 "	1	
	" (with magnet)	3 "	1	
	Hoist	3 "	1	
	Jib Crane (with Hoist)	1 "	1	installed in the 1st forging shop
	Winch	15HP	1	
	Motor-Generating Apparatus		1	
	Wiring & Tubing		1	
	Transforming Equipment		1	
Service Engineering	No.1 Machine Shop		1	
	24' Lathe		1	
	Overhead Crane	10 T	1	
	Vertical Lathe		1	
	8' Lathe		3	
	6' Lathe		6	
	12' Lathe		5	
	Face Lathe		1	
	Shaper		2	
	Hack Saw		1	

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

(Department)	(Description)	(Capacity)	(No.)	(Remarks)
Service Engineering	Universal Milling Machine		1	
	30' Lathe		1	
	16' Slotter		1	
	Universal Grinder		1	
	Grinder		3	
	Radial Drill		1	
	Upright Drill		2	
	Planer		1	
	4" Horizontal Boring machine		1	
	Hammer	3 tons	1	
	"	2 "	1	
	Overhead Crane	5 "	1	
	"	3 "	2	
	"	2 "	1	
	Transforming Equipment		1	
	building Repairing		1	
Testing	Testing -Room		1	
	6' Lathe		3	
	Hack Saw		2	
	16" Shaper		3	
	Tool Grinder		1	
	Upright Drill		1	
	Amsler's Testing m/c	50 T	1	
	Brinell's Hardness Tester	3 kgs	1	
	Izot's Impact Tester	17 "	1	
	Sharpy's "		1	
	Lockwell's Hardness Tester		1	
	Bending Tester		1	
	Analysing equipment		1	
	Transforming equipment		1	
Power & Electricity	Power-House	500 HP	1	
	Compressor		2	
	Mansformer Substation		1	
	Inside Receiving Transmitting		1	Belong to Kansai Haiden Co.

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

(Department)	(Description)	(Capacity	(No.)	(Remarks)
Power & Electricity	Power Cable		1	
	Transforming Equipment		1	in No.1 substation
	Repairing Shop		1	Electric Apparatus
	Grinder		1	
	Upright Drill		1	
	Compressor		1	
	"	110 HP	2	
	"	100 "	1	
	Telephone Equipment		1	
	Transformer	5,000 KVA	1	
Water Supply	The Kino Water Works		1	
	Inside Water Supply Equipment		1	For Drinking
	"		1	For Production
Storage & Transportation	No.1,3,4,6 Warehouse		4	
	Warehouse for Inflammables		1	
	Crude Oil Tanks		2	
	Wharf Crane	6 T	2	
	" "	3 "	2	
	Trolley Hoist	2 "	1	
	30T Locomotive		2	
	35T "		2	
	10T "		2	
	Freight cars		50	
	Locomotive House		1	
	Motor Truck		13	
	8' Lathe		1	installed in Locomotive-House
	Grinder		1	
	Oil-Storage		1	
	Charcoal-Storage		1	
	Freight-Car Weigh-House	30T	1	
	"	15T	1	
	Drilling m/c		1	

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

(Department)	(Description)	(Capacity)	(No.)	(Remarks)
Storage & Transportation	Motor car Service Station		1	
	Cracking Equipment		1	
	Shearing machine		1	
Office & Etc.	No.1,2,3 Office		3	
	Office of Melting Dept.		1	
	Office of Forging Dept.		1	
	Office for Guards		1	
	No.1, 2 Look out		2	
	Garage		1	
	Dining-Hall		1	
	Bath-House		1	
Salt-making	Transformer	4,400KVA	1	
	Salt making Equipment		1	
	Storehouse		1	

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

b. Main Equipments unnecessary to post war production of Civilian Commodities.

(Department)	(Description)	(Capacity)	(No.)	(Remarks)
Melting	Acid Open Hearth Furnace	70 T	2	Installed in No.1 Melting shop
	Basic "	"	1	"
	" "	100 "	1	"
Forging	Vertical Hydraulic Press	2,000 T	1	No.1 Forging shop
	Horizontal " "	1,000 "	1	"
	Vertical " "	600 "	1	"
	Horizontal " "	3,000 "	1	No.3 Forging shop
	Vertical " "	2,000 "	1	"
	" " "	6,000 "	1	No.4 Forging shop
	" " "	3,000 "	1	Forging shop
	Horizontal " "	1,500 "	1	"
	Vertical " "	1,200 "	1	"
	Horizontal " "	800 "	1	"
	Vertical " "	12,000 "	1	No.2 Forging shop
Rolling	Stiefel Mannesmann Tube Mill		1	Tube Rolling Shop
	Hydraulic Drawing Machine	200 T	1	Tube Drawing shop
	"	190 "	1	"
	"	140 "	1	"
	"	215 "	2	"
Finishing	Machine Tools		159	

(J) Ratio of monthly production on main products to total production in Japan.

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

Name of Products	Total Production in Japan	Monthly Production in this Work	Ratio
Steel Tyres	2,050 Steel Works 1,300 Wakayama Iron Works 500 Nippon Seitetsu 250	500	23.6%

(K) The reason why we ask the releasing permission of tyre manufacturing department of Wakayama Iron Works of Fuso Metal Industries Ltd.

The rail way car tyre production in this Iron Works continued during the War and the production were considerable quantity comparing to total production in the same period, as they discribed in the lists. We can easily see upon this facts, the plant is specially so equipped and Japan has not many such factories to supply railway car tyres etc. against domestic consumption. Indeed, Sho has only three of them, the percentage to total production in Japan of those factories are, the Steel Works of Fuso Metal Industries Ltd. produces nearly 64%, Wakayama Iron Works 24% and Yawata Iron Works of Nippon Seitetsu Ltd. 12%. While the Steel Works' machinery is becoming superannuate, the Wakayama Iron Works became more important factory to supply steel car tyres to the Government Railway and Company owned tram lines. From this view point, Wakayama Iron Works is indispensable factory to reconstruction of transportation in Japan and must solicit you for the releasing permission from under custody Directive.

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

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HEADQUARTERS I CORPS
APO 301(Kyoto Honshu)

GIS/fsr
10 June 1946.

Ref: IG-373

AG 004 - EA

SUBJECT: Permit for Reconversion from War Production and for Resumption of Production of Essential Civilian Commodities.

TO: Fuso Metal Industries, Ltd., Wakayama Iron Works.
(Name and Address of Firm)

1850 Minato, Wakayama City, Wakayama Prefecture

1. a. In accord with paragraph 3, b, Directive Number Three (3) from the Supreme Commander to the Imperial Japanese Government, dated 22 September 1945, the Fuso Metal Ind., Ltd., Wakayama Iron Wks.
(Name of firm)
is permitted to immediately start production of Tyres wheel centers, engin frames. (Name of

b. Maximum production currently authorized is 9,000 tons per annum.

2. The acquisition of material, parts and subassemblies as well as the disposition of finished products, and the establishment of sales prices will be in accord with the regulations of the Imperial Japanese Government.

3. Until otherwise directed by this headquarters, a monthly report in English of each item, by name, type and quantity produced by each factory, sub-contractor subsidiary within this factory's control will be delivered to this office by the fifteenth (15) day of the following month.

4. It is understood that this permit for reconversion is issued subject to any and all directives affecting reconversion, ultimate disposition or otherwise, which have been issued or may hereafter be issued by the Supreme Commander for the Allied Powers or by this headquarters.

BY COMMAND OF MAJOR GENERAL WOODRUFF:

Info copy to:

SCAP(Attn: ESS)	(1)(w/incl)	Co 109th MG HQ company	(1)
SCAP(Attn: G-2)	(1)(w/incl)	Kyoto Liaison Office	(1)
CG Eighth Army (Attn: Mil Govt)	(1) (w/incl)	Governor of Prefecture concerned (Wakayama)	(1)

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

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Fuki No. 91
Serial No. [redacted]

Application for Operation of and
Report on Industrial facilities

To: Headquarters 109th H.Q. Det.
Mil. Govt. Company.

Thru: Wakayama Prefectural Governor.

Fuso(former name: Sumitomo) Metal
Industries, Ltd.
No.38 Shinsaibashi-suji, 1-chome
Minami-ku, Osaka.
Name and Address of Reporting Company

28th March. 1946
Date

1. Name of Facility: Wakayama Iron Works,
Fuso(former name: Sumitomo) Metal
Industries, Ltd.

2. Location: No.1350 Minato, Wakayama City.

3. Name of Manager: S. Amagisawa

4. History:

A. Date of Construction: 1st April, 1941

B. Date of first Operation: 28th July, 1942

C. 1935-1941 Production (Annual value in Yen: Quantities of Principal products by units or weights):

none

D. Present capitalization in Yen: Y.418,750,000(paid up)
(Fuso Metal Industries, Ltd.)

E. Changes made in capital structure since 1935:

July 1935	increased to		¥.40,000,000
September 1935	"	"	¥.50,000,000
May 1937	"	"	¥.100,000,000
November 1937	"	"	¥.200,000,000
April 1943	"	"	¥.400,000,000
December 1943	"	"	¥418,750,000

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

F. Name and address of Parent Company:
The Sumitomo Honsha, Ltd.
No.22 5-chome, Kitahama, Higashi-ku, Osaka.

G. Number of shares outstanding: 8,375,000 shares

H. Number of stockholders (names of those owing 10% or more total):
Total number of Stockholders: 19,024
Owner of 10 % or more: the Sumitomo Honsha Ltd. (20%)

I. Funds received from Government:
Y.611,940.-(Subsidy for iron and steel Industries from Apr. 1940)

J. Outline Sketch of Plant:
(of Attached sketch)

5. Description:

A. Principal Produsts:

1. War-time

Forged steel	Special steel	Materials for Aircraft
		Materials for Vessel
		Oxygen Container
	Ordinary steel	Materials for Aircraft
		Materials for Vessel
		Tool Steel
		General Forged Steel
Rolled steel	Special steel	Hot-finished Steel Pipe
		Cold-drawn Steel Pipe
	Ordinary steel	Hot-finished Steel Pipe
		Cold-drawn Steel Pipe
		Tyre

Ingot - Ingot for Tyre

2. At present: none

3. Planned for 1946-47:

Rolled steel - Tyre

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

2. At Present: None. (Stopping of operation)

3. 1946-47 (with unrestricted access to materials)

Department	Main Equipment	Capacity	No.	Main Products	Annual Capacity
Melting	Electric Arc Furnace	10 tons	2		
Forging	Hydraulic Forging Press	2,000 tons	1	Tyre	9,000 tons
	"	6,000 "	1		
	"	3,000 "	1		
	Tyre Mill		1		
Finishing	Machine Tools				

C. Number of Employees:

1. Wartime (on August, 1945)

Classification	Clerks	Labourers	Total
Listed	1,246	6,336	7,582
Actual	1,146	5,765	6,911

2. At Present (on February, 1946.)

Classification	Clerks	Labourers	Total
Listed	200	428	628
Actual	213	389	602

3. 1946-47 (At maximum capacity)

Clerks	Labourers	Total
66	501	567

Remarks: including 15 engineers in 66 clerks.

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

B. Capacity:

1. War-time

Department	Main Equipment	Capacity	No.	Main Products	Annual Capacity
Melting	Acid Open Hearth Furnace	70 tons	2	Ingot	55,000 T
	Basic Open Hearth Furnace	70 "	1	"	33,000 "
	"	100 "	1	"	40,000 " (non-operation)
	Electric Arc Fur.	10 "	2	"	16,000 T
Forging	Hydraulic Press	2,000 T	1	materials for Aircraft	9,000 T
	" "	1,000 "	1		
	" "	600 "	1		
	" "	12,000 "	1	General Forged Steel	5,000 "
	" "	2,000 "	1	"	2,500 "
	" "	3,000 "	1	Materials for Vessel	4,000 "
	" "	2,000 "	1	Materials for Aircraft or Tyre	6,000 " or 13,000 "
	" "	6,000 "	1		
	" "	3,000 "	1		
Tyre Mill	Tyre Mill		1		
Hydraulic	Hydraul Press	3,000 "	1	Materials for Aircraft	11,000 "
	" "	1,500 "	1		
Rolling	Stiefel-Mannesmann Tube Mill	4,500 "	1	Hot-finished Steel pipe and Cold-drawn Steel Pipe	50,000 "
	Hydraulic Drawing Machine	200 "	1	Cold Drawn Steel Pipe	5,000 "
	"	70 "	1		
	"	215 "	1		
Finishing	Machine Tools		209	Finishing of Various Kinds of materials above mentioned	

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

6. Machineries & Equipments in plant:

Department	Description	No.	Condition
Melting	70 ₹ Acid Open Hearth Furnace	2	
	70 " Basic "	1	
	100 " Basic "	1	
	10 " Electric Arc Furnace	2	
Forging	2,000 ₹ Vertical Hydraulic Forging Press	1	
	1,000 " Horizontal "	1	
	600 " Vertical "	1	
	3,000 " Horizontal "	1	
	2,000 " Vertical "	1	
	2,000 " Forging "	1	
	6,000 " Brumming Hydraulic Forging Press	1	
	3,000 " Forming Hydraulic Forging Press	1	
	3,000 " Horizontal Hydraulic Forging Press	1	
	1,500 " Vertical Hydraulic Forging Press	1	
	12,000 " " "	1	
	Tyre Mill	1	
Rolling	Stiefel-Mannesmann Tube Mill	1	
	200 ₹ Hydraulic Drawing m/c	1	
	170 " " " "	1	
	215 " " " "	1	
Finishing	Machine Tools	209	
General Equipment	Water supply, Electric Supply, Loading and Unloading, Transportation Equipments etc.		

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

7. Present Stocks of Raw Materials, Supplies and Unfinished Goods:

(on 1st January, 1946)

Description	Quantity	Condition
(Raw Materials)		
Pig iron	1,172 tons	
Low Phosphorious Pig Iron	1,492 "	
Sponge Pig Iron	117 "	
Ordinary Scrap (Purchased)	4,662 "	
Special Scrap (Purchased)	533 "	
Ordinary Scrap (Our own)	2,424 "	
Special Scrap (Our own)	2,657 "	
Refined Steel	1,496 "	
Refined Pig Iron	295 "	
Pig Scrap	385 "	
Scale	134 "	
Ferro Alloy	213 "	
Nickel Grain Iron	404 "	
Special Iron (containing Nickel)	173 "	
Iron Ore	409 "	
Fluorspar	204 "	
(Semifinished Products)		
Materials for Vessel	"	
500 Billet	443 "	

8. Present Stocks of Finished Goods:

(on 1st January, 1946)

Description	Quantity	Condition
(Forged Steel)		
Materials for Aircraft (Forged up)	779 tons	
" (Finished)	115 "	
" (Heat Treated)	1,072 "	
Materials for Vessel (Forged up)	532 "	
" (Finished)	144 "	
" (Heat Treated)	123 "	
(Rolled Steel)		
Hot finished steel pipe	2,224 "	
Cold drawn steel pipe	529 "	
Tyre	712 "	

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

9. Present Stocks of Fuel

(on 20th February, 1946)

Description	Quantity	Condition
Coal	150 tons	
Coal dust	450 "	
Cokes Breeze	20 "	
Char coal	800 bales	
Char Coal ball	30 tons	
Firewood	10,000 bundles	

10. Machineries & Equipments needed for Maximum Production 1946-47.

Description	Quantity
(First Forging Factory)	
10 Ts. Forging Crane 19m.span	1
10 " Over-head Crane 18.9m "	1
5 " " " "	1
3 " " " 20 m. "	1
2 " " " 10 m. "	1
2 " " " 10 m. "	1
10 " Scrap Yard Crane	2
20 " Over-head Crane 20 m. "	1
20 " " " " "	1
6 " " " " "	1
2 " Gib Crane	1
10 " Electric Furnace	2
Pits for Ingot Making	7
10 Ts. Ladle	5
500 HP Compressor	2
Slug Receiver	1
Ferro-Alloy Heating Furnace	2
Draining Pump	12
Analyzing & measuring Apparatus	1
Drying Furnace	1

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

Description	Quantity
(Calcination Kiln Factory)	
Magnesia Calcination Kiln	2
Drying Furnace	1
Crasher 2 Ts.	1
Edge Runner 2 Ts.	2
Crushing Roll 10 HP	1
3 Ts. Over-head Crane 6.5 m. span	1
3 Ts. Hoist	1
(Forth Forging Factory)	
2,000 Ts. Hydraulic Press	1
3,000 " " "	1
6,000 " " "	1
Tyre Mill	1
Motor Generator	1
Ingot Cutter	1
Ingot Slicer	1
Forging Manipulator	1
Hydraulic Pumps 75 HP	1
" " 125 "	3
" " 500 HP	1
Compressor 125 "	1
Water Accumulator 2,000 L.	2
Combined Heating Furnace	1
Compressor for the above 50 HP	1
10 Ts. Over-head Crane 17 m. span	2
5 " " " " "	2
5 " " " 15 "	2
3 " " " 13 "	1
2 " " " 13 " 2	1
3 " " " 17 "	2
3 " Gib Crance	1
3 " Hoist	2
Softening Furnace 2m.x5m.	1
Tempering Furnace	2
Electric Annealing Furnace 200 KW	1
Brinnel Hardness Tester	1
Tool Grinder	1
Ventilator	4

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

Description	Quantity
(Machine Tools)	
Vertical Lathe 15 HP	4
8' Lathe	6
12' Lathe 10 HP	3
12' Lathe 15 HP	1
24' Lathe	1
12' Lathe	2
30' Lathe	1
Face Lathe (Middle Size) 20 HP	4
Shaper 20"	2
Hack Saw 16"	1
Milling Machine	1
Slotter	1
Universal Grinder	1
Radial Drill	1
Upright Drill	2
Grinder	3
Hopping Machine	1
Plainer 10'	1
Horizontal Boring Machine	1
3/4 Ts. Hammer	1
1/4 Ts. Hammer	1

11. Raw Materials & supplies needed (monthly)
    a. For Present Capacity (5b2 above)
        None (operation stopping)

    b. For maximum (5b3 above)

Description	Quantity
Scrap	1,742 tons
Ferro Alloy	26 "
Flux	242 "
Electrode	30 "
Mould	40 "
Burnt Dolomite	221 "
Bricks for Melting & Ingot making	85 "

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

12. Fuel needed (monthly) (not including present stocks)

Description	Quantity
Cokes for limestone	242 tons
for dolomite	242 "
Coal	870 "
Electricity	990 K.W.H.

13. Additional Personnel needed (not locally available)

Special Skills	Number
Workmen for melting	29
Workmen for rolling	38
Repairers	21
Carriers	12
Inspectors	8
Cooks	7
Total	115

14. Price (current selling prices in Yen of Principal Products)

Description	Unit Price
Tyre	Ton 5,600Y.

15. Remarks (Including here some factors hampering production not already mentioned and some recommendations we consider necessary)

a. Reason for application:

The Wakayama Iron Works of our company has been stopping its operation since the termination of war, but as we expect to contribute to the transportation capacity in Japan, we should ask your permission to operate with all speed, the tyre producing equipment of this plant, in response to the urgent increase of the demand of railway accommodities.

Being permitted to operate from H.Q. I Corps on 10th Jan., 1946, the Steel Works of ours in Osaka has converted to peacetime production and begun to produce civilian accom-

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

~~xxxxxxx~~ for railways - tyres, wheel centres and engine ~~xxxxx~~ etc. which are required from the Government Railways ~~xxx~~ civilian railways.

But we regret that the production of tyre is not yet in full operation on account of frequent accidents of tyre mills.

These tyremills at the Steel Works which were installed about twenty five years ago has naturally come into superannuated. In additions, some electric auxiliary equipments were burnt by flood last autumn. As the Wakayama Iron Works that has been stopping its operation has the same kind of two tyre-mills one of which is left now under construction, we concluded that the countermeasure is to remove the parts of incomplete one of two here to the Steel Works in Osaka, so as to strengthen the machines there and (This is applicated else) maintain the urgent production. But even if we should succeed in this countermeasure, the Steel Works is able to produce 70% of required accommodities.

We hereby, are eager to operate urgently remaining one set at Wakayama Plant in order to carry out 100% of requirement.

We should like to applicate for your kindly permission to operate the equipments of tyre production and electric furnace with its auxiliary machineries.

b. About preparation of operation:

This Wakayama Plant, as you know, is occupied and supervised by Allied Forces now. We presume to use the following equipments for this convertion to the civilian production, - some parts of, the 1st and the 4th Forging Shop, loading and unloading, and transportation by land.

But some parts of the 4th Forging Shop are used as a garrage of Allied Forces. It goes without saying that we make our best endeavours lest we should disturb directly the supervision by Allied Force.

As we are needed various preparation for thenfirst operation about two and half monthes later, we should like to ask your kind permission to modify "off limit" and so on.

16. Certification by Applicant:

I certify that the information contained herein is true to the best of my knowledge and belief.

Signed _____

Title _____

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

17. Action by Occupation Forces:
The factory described in this application has been inspected and the following action.

a. Ordered to remain closed Yes____ No.____

b. Ordered to cease operation Yes____ No.____

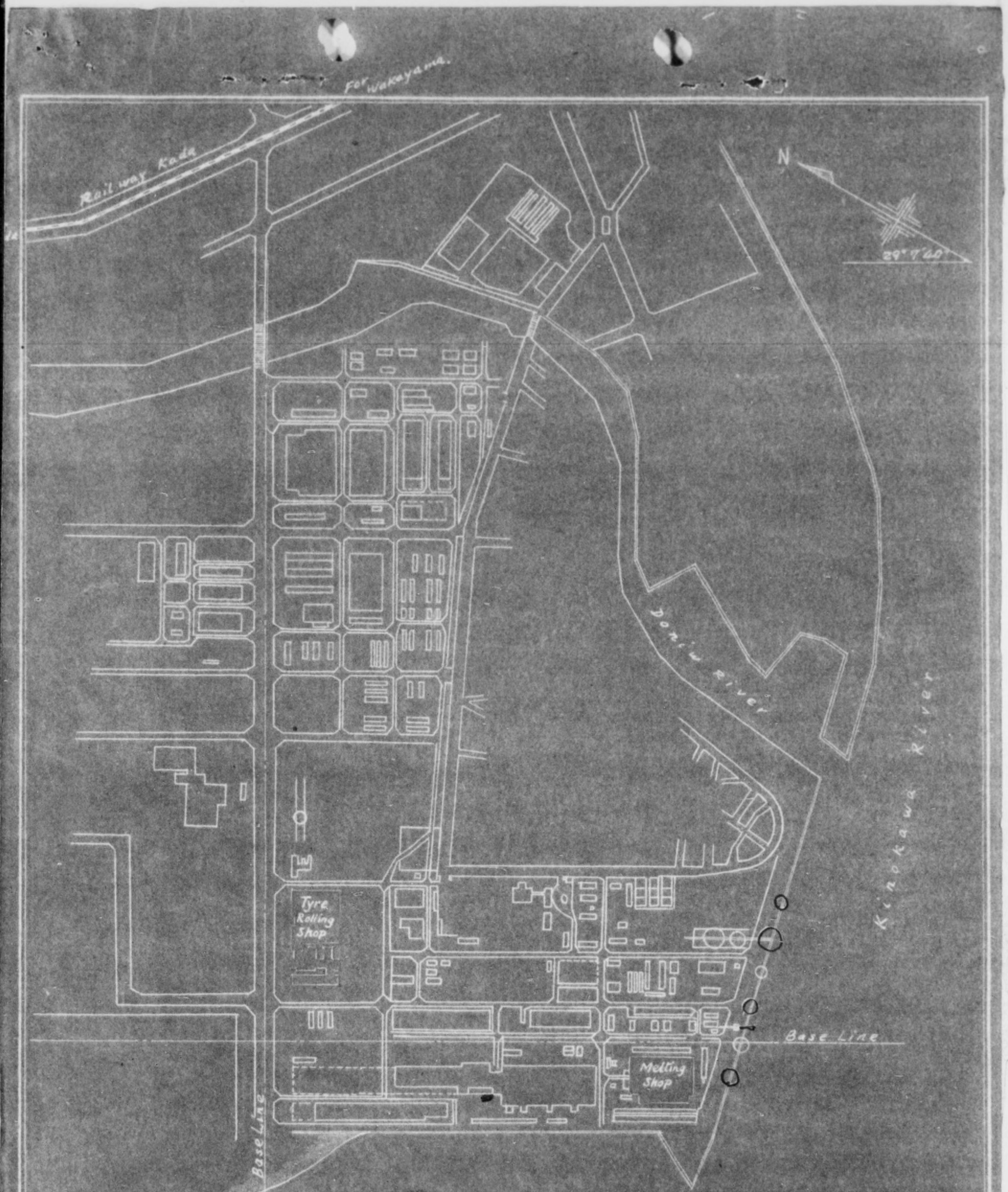
c. Authorized to produce at the following rate

Item to be manufactured	Monthly Quantity

_____
Signature of authorizing Officer

_____
Designation of Authorizing Unit

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



General View of Sumitomo (Fuso) Metal Industries Ltd. Wakayama Iron Works