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MG FORM #10011

	Yes	No
1. LEGAL AND GOVERNMENT		
a. Is there a complete file of ordinances current in the Prefecture?		
b. Have laws been abrogated as directed by SCAP?		
c. Are ordinances checked against SCAP Directives to the Imperial Japanese Government to determine degree of compliance?		
d. Has a procedure been established to check directives received by Military Government against directives received by Prefectural authorities?		
e. Has the cooperation of Japanese authorities been satisfactory in carrying out investigations directed by this headquarters?		
f. Has the activity of political parties been observed?		
g. Are any of these subversive?		
h. Have Labor Laws been investigated and are they being adhered to?		
i. Have election trends been followed and are methods legal?		
j. Are there civil cases pending, between United Nationals and Japanese?		
k. Has action been taken for their disposition?		
2. INFORMATION AND EDUCATION		
a. Are translations made of local press and other influencential publications and are these periodically observed?		
b. Are the influences of these publications constructive to public opinion?		
c. Are they subversive to the occupational aims?		
d. Is close liaison maintained with CIC as a source of information and investigation?		
e. Are political meetings covered by CIC and is information determined in this fashion available to the Military Government companies?		
f. Does an informal relationship exist with the G-2 of local tactical forces and are G-2 reports available?		
g. Are the influences of radio and motion pictures in conformity with the occupational objectives?		
h. Has progress been made in democratizing education?		
i. Does it receive public support?		
j. Does the education officer follow the local education programs closely?		
k. Is he able to make positive recommendations relative to its developement?		
l. Does he have internal organizational duties which limit his activity in the education field?		

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P.25.

1. Onoda Mine	Ube mine	No. 2 Suzumeda Mine
2. Taketo Oiwa	Hitomi Furuya	Hitomi Furuya
3. Yamaguchi-ken.	Yamaguchi-ken	Yamaguchi-ken
4. 2,351,050 TONS	40,000 TONS	600,000 TONS
5. 4,200 TONS	988 TONS	5,400 TONS
6. Nov. 4,500 TONS Feb. 4,500 TONS Dec. 4,800" Mar. 5,500 " Jan. 4500" Apr. 6,000 "	1,000 TONS	31,000 TONS
7. 2 shift ; 16 hrs/day	No	No: 8 hrs/day
8. Inside 385 Outside 637	120	Inside 258 Outside 252 Total 510
9. Yes	Yes	Yes.
10. 5 (One destoyed)	2	4
11. 4.1 Km	200 m.	250 m
12. Yes, 90% of demand.	Yes.	Yes.
13. Ele. power limitation	Capital	Housing. Capital.
14. Chain conveyer	None	None
15. Inside ¥ 197.29/day Outside ¥ 119.32 " ¥641.20/ton of prod.	Inside ¥187.57/day Outside ¥ 63.49 " Office ¥2,167.50/mon ¥588.44/ton of prod.	Inside ¥164 to 281/day Outside ¥125 To 196/day Office ¥5,363/mon. ¥ 596.27/ton of prod.
16. 3,300 Cal	3,300 Cal	3,600 Cal
17. No.	No	No.
18. None	None	(a) Housing (b) Capital (c) Food stuff (d) Simplification of management.
19. None	None.	Unknown

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	Yes	N
i. Is the labor supply equal to the demand?		
j. Is labor being efficiently used?		
k. Are there mounting difficulties in obtaining labor?		
l. Do the local labor authorities cooperate in submitting the following reports required by:		
(1) Circular 313, Headquarters Eighth Army, 8 Dec 45?		
(2) Operational Directive #1, Headquarters Eighth Army 5 Jan 46?		

7. RESOURCES, COMMERCE, AND INDUSTRY

a. Agriculture
(1) Is the rice collection program being carefully followed?
(2) Are suggestions being given to activate it?
(3) Are monthly reports made by the Agricultural Bureau as to its progress?
(4) Are fertilizer needs computed?
(5) Have shortages been reported and assistance requested by the Agricultural Associations?
(6) Has the Japanese Imperial Ordinance #88 concerning hidden resources been received and is it being complied with?
(7) Has the Japanese Rural Land Reform Act been discussed with Prefectural authorities and is it understood?
(8) Is 8th Army Operation Directive #4, subject: "Release of Japanese Airfield" being taken advantage of and are released airfields under cultivation?
(9) Is the Land Reclamation Program in effect and are efforts being made to accomplish it?
(10) Are farmers receiving, implements, fertilizer, clothing, consumers goods, at legal prices as an incentive to turning in hoarded rice quotas?

b. Fisheries
(1) Has the following memorandum been effected: Memorandum for the Imperial Japanese Government from SCAP, file AG 720 (15 Nov 45) ESS/PC, subject: "Collection and Distribution of Perishable Foods."?
(2) Are authorized fishing associations and agencies collecting all perishable sea foods to be sold by producers in accordance with par 2a of above reference?
(3) Are authorized dealers from urban areas negotiating with fishery associations for the bulk purchase of perishable seafoods in compliance with par 2b of the above reference?

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	Y	O	Y
1.	Miyata Mine	Shioke Mine	Shiraiwa Mine
2.	Jyusaku Saito	Yoshiro Ueno	Yasaburo Ebiyama
3.	Yamaguchi-ken	Okayama-ken	Yamaguchi-ken
4.	100,000 TONS	1,043,700 TONS	40,000 TONS
5.	1,120 TONS	801 TONS	127 TONS
6.	Nov. 80 TONS Feb. 80 TONS Dec. 180 " Mar 280 " Jan 100 " Apr 380 "	Nov. 800T. Mar. 850 T Dec. 800 " Apr. 1,000 " Jan. 850 " Total 5,150 " Feb. 850 "	1,500 TONS
7.	No.	No; 7 hrs/day (Net)	No.
8.	Inside 70 Outside 60	Inside 40 Outside 40	44
9.	Yes.	Yes.	Yes.
10.	2	2	1
11.	1 Km.	9 Km.	2 Km
12.	Yes	Yes, but not always enough.	~~Irregularity of coal seam.~~ Yes.
13.	Ele. power shortage.	Stagnation of minor transportation.	Irregularity of coal seam.
14.	Want of coal cars of roller bearing	Nothing particular, but want for increase allotment of shovels & picks.	Winch 10HP x 1 Ele. motor 10HP x 2 Wire rope 5/8" ϕ x 500m Pump 5HP x 1 Ele. equipment.
15.	Inside ¥52 to 241/day Outside ¥44 to 172/day ¥448/TON of prod.	Inside ¥2,990/MON Outside ¥1,489/MON ¥224/TON of prod.	Inside ¥154 to ¥206/day Outside ¥57 to ¥89/day
16.	4,260 CAL	3,000 to 3,500 CAL.	3,800 CAL
17.	No	No.	No.
18.	Cooperation of Labor & capital	No information	/
19.	Unknown.	None	Nope.

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	Yes	No
(4) Are the fishermen provided with daily necessities and materials necessary for fishing activities at legal prices in proportion to the amounts of seafoods sold to authorized purchases in accordance with par 2f of the above reference?		
For example: Has the Japanese link system of food and fuel oil distribution been put into efficient operation?		
(5) Are the Japanese agencies reporting to the Military Government companies the situation on collections and input requirements?		
c. Lumber		
(1) Has a quota for delivery been established for the Occupational Construction Program?		
(2) Has a quota been established for the local Welfare Program?		
(3) Has production of these quotas been met?		
(4) Has labor been available?		
(5) Have compensations been advanced to labor?		
(6) Have transportation facilities been available in accordance with priorities?		
d. Coal		
(1) Are coal shortages and requirements measured and reported centrally?		
(2) Are coal allocations established and met?		
(3) Are actions taken to keep labor on the job?		
e. Mining		
(1) Is mining active in the Prefecture?		
(2) Would its reactivation solve an unemployment problem?		
(3) Are local industries dependent upon its reactivation?		
f. Utilities		
(1) Is activity in program to restore local utilities?		
(2) Is maintenance on existing utility services satisfactory?		
(3) Are fuels and raw materials available?		
(4) If not is action planned to correct this situation?		

b a

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P.27

1. Suzumeda Mine	Okinoyama Mine	Mizome New Mine
2. Hiromi Furuya	Ube Kosan Co. Ltd.	Katsumas Ito
3. Yamaguchi-Ken	~~6,000,000~~ TONS Yamaguchi-Ken	Yamaguchi-Ken
4. 500,000 TONS	¥16,000,000 TONS	1,567,301 TONS
5. 4,412 TONS	36,356 TONS	71 TONS
6. 2,510 TONS	30,000 TONS	4,750 TONS
7. 16 hrs/day	Yes.	Partly 8 hrs/day, Partly 2 shift
8. 618	Inside 2,688 Outside 1,824 Total 4,512	80
9. Yes for carbide.	Yes.	Inside ~~¥132.94/day~~ Outside ~~¥82.64~~ ,, Yes
10. 4	13.	~~4,000~~ Cal
11. Equipped with railway sput. 3 Km to Onoda port.	500 m.	/
12. Yes.	Yes.	/
13. Capital	Housing. Low price of coal collection.	/
14. None	Special loader for mining and coctete conveyer, which are not in Japan.	/
15. ¥711/ton of prod.	¥3,742/mon. ¥469.59/ton of prod.	Inside ¥132.94/day Outside ¥82.64 ,,
16. 4,300 Cal	4,050 Cal.	4,700 Cal
17. Yes (No detail)	Yes for each case we had some Troubles.	No
18. Rapid and right consiousness of the Gov't regarding each Mine. For instance, the postponed announcement of coal price,	Perfect achievement following to the URGENT MEASURE for INCREASE PRODCTION.	(a) Capital (b) Material
19. None.	None.	Unkown
that was delayed by 1.5 Months, effects the mining plan seriously.		Note: Started mining last June and working for the target of 3,000 Tons of prod. monthy. Expected prod. of coming Jan. is 1,300 Tons

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	Yes	No
m. Have the activities of religious orders been investigated?		
n. Have the directives controlling Shintoism been complied with?		
3. MONEY AND BANKING		
a. Have the objectives of SCAP Memo AG 410.2 (12 Feb 46) ESS/FI SCAPIN 732 been carried out?		
b. Are all assets referred to therein now collected into the vaults of the Bank of Japan?		
c. Have proper inventories been made and have these inventories been spot checked?		
d. Have all the banks classified in the above referenced directive been liquidated?		
e. Were the policies on currency exchange complied with?		
f. Has there been any black market activity in illegal currency?		
g. Are the local banks solvent?		
h. Do those banks lend constructive influence to public welfare and rehabilitation programs?		
i. Is currency recirculating in normal channels?		
j. Does the public show confidence in the financial system?		
4. PUBLIC HEALTH		
a. Does the Public Health Officer have confidence in the Prefectural statistics made available?		
b. Does he spot check them?		
c. Is there a check system on rates of increase and is action taken to prevent spread to epidemic proportion?		
d. Do such actions result in assistance from other prefectures, cities, Japanese Red Cross etc., in emergency supply of medicines, vaccines, nurses, doctors, etc.		
e. Is there a standby supply of medicines and vaccines to meet disease increases of emergency proportions?		
f. Are hospital facilities being improved?		
g. Do prefectural agencies cooperate towards this objective?		
h. Are present facilities sanitary?		
i. Is there a program for the improvement of local sanitation in progress?		
j. Are the prefectural authorities aware of prevention methods of disease spread?		
k. Are these methods resorted to?		
l. Does the prefecture investigate foods to determine if it is contaminated?		
m. Is the public informed of the foods necessary to a neutritious diet under present conditions of limited food supply?		

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	S	O	H
1.	Yata Mine, Sanin Kogyo.	Jito Mine, Nippon Saitan	Hokubi Mine
2.	Rikichi Hida	Tatsuo Nagasawa	Sadaichi Yasuda
3.	Shimane-ken	Okayama-Ken.	Hiroshima-ken
4.	150,000 TONS	816,000 TONS	4,000 TONS
5.	151 TONS	118 TONS	35 TONS
6.	1,800 TONS	1,200 TONS	300 TONS
7.	No.	No.	No. 8 hrs/day
8.	100	20	30
9.	Yes.	Yes.	Yes.
10.	2	NONE	1 (Common property with other 2 mines)
11.	3.5 Km	21 Km.	4 Km
12.	Yes	Yes.	Yes
13.	Want of skilled Miners. Difficulty of securing transformers & motors.	NONE	To secure laborers & their food stuffs.
14.	Coal drill x3 Pump 10 HP x2 Transformer 3ph. 50 KVA x2	Yes (No detail)	Nails, galvernized sheets.
15.	Iiside ¥125.25/day Outside ¥50,20 ..	¥90/day	Male ¥120/day Female ¥70/day ¥340/TON of prod.
16.	5,170 Cal	3,000 Cal	4,500 Cal
17.	Yes (No detail information)	No	No.
18.	NONE	Yes (No detail)	Raise of coal price following to the grade improvement movement.
19.	NONE	NONE	NONE

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	Yes	N
5. PUBLIC WELFARE		
a. Do unit COs and PWOs understand the mission of the Public Welfare program?		
b. Is the Public Welfare Officer free to make inspections required by Operation Directives 9 and 35 of this headquarters?		
c. Is the Public Welfare Officer aware of his supervisory responsibilities in carrying out the program?		
d. Does the prefectural administrative machine appear adequate to meet needs of the local program?		
e. Are the objectives of the welfare program popularized by cooperation of press, radio, banks, and influencial persons and institutions?		
f. Has housing and clothing of the needy been accomplished?		
g. Have politics entered the program to divert its benefits from needy cases?		
h. Are supplies available locally for the execution of the program?		
i. If not, are they obtainable from outside sources on request?		
j. Are public and private agencies coordinating in a common effort?		
k. Are Foreign Nationals benefitting by the program?		
l. Is the repatriation program properly supervised to accomplish the purposes of SCAP Memo to the Imperial Japanese Government (SCAPIN 822) 16 Mar 1946?		
m. Are all current 8th Army Operational Directives on file?		
n. Are Japanese officials at reception centers cooperating satisfactorily with the Occupational Forces?		
6. PROCUREMENT		
a. Is the procurement procedure understood and operating in accordance with directives?		
b. Are channels being followed?		
c. Are there evidences of preemption on the part of tactical forces?		
d. What is the attitude of tactical forces regarding critical items.		
e. Are local troops receiving their operational requirements even tho they come from outside sources?		
f. Is the visit of a Procurement Inspection desirable?		
g. Are there constructive suggestions for expediting or procedure improvement?		
h. Are sources of supply readily obtained by the Japanese?		

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P. 29.

1.	Ikuta Mine	Mifuku Muen Mine Mifuku Anthrasite Mine Co. Ltd. Pt. : Masahita Asai	Oki Ube Mine
2.	Tadashi Kobayashi		Hisaji Shinosaki
3.	Yamaguchi-ken	Yamaguchi-ken	Yamaguchi-ken
4.	4,817,880 tons	8,300,000 tons	1,800,000 tons
5.	None (Statted operation lately)	1,900 tons	13,477 tons
6.	From Dec. to Apr. 1,100 ton/month.	Nov 1,900 tons Mar. 2,000 tons Dec. 2,100 Apr. 2,000 Jan 2,000 Total 12,000 tons Feb. 2,000	78,000 tons
7.	2 shift ; 16 hrs/day	No.	Yes.
8.	45	Inside 126 Outside 121 Total 247	Inside. 838 Outside. 637.
9.	Yes.	Yes.	Enough with the present allocation.
10.	None	5	8
11.	6 Km	3.8 to 6 Km depends upon the mining depot. (different	1 Km.
12.	No experience.	Railway transportation is ~~the~~ unnecessary. (No reason ; Maybe by waters)	Water transportation only.
13.	F /	Material shortage.	Difficulty in promoting working eagerness of laborers.
14.	/	Compressor.	Air Compressor 100 HP x 2 Winches, 5 to 10 HP Pumps, (small capacity)
15.	In accordance with LABOR STANDARD MEASURES	In accordance with LABOR STANDARD MEASURES	No information.
16.	5,000 to 6,000 cal (Estimation)	3,700 cal	3,900 cal. For cake 5,300 cal For powder 4,700 cal See footNote
17.	No.	No.	NO.
18.	/	NO.	Resolution on coal price, based on the present economic situation.
19.	NO.	NO.	NO.
			Note : The values for cake & powder are for those after selection, for which NO equipments are finished, yet.

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	Yes	N
g. Manufacturing and Industry		
(1) Is marked improvement demonstrated in the reconversion program?		
(2) Is production increasing?		
(3) Are raw material and transportation becoming more easily available?		
(4) Are materials being released from arsenals for immediate production?		
(5) Is the Home Ministry releasing materials turned over?		
(6) Have the Occupational Forces expedited release of war materials to the Home Ministry?		
(7) Is the Home Ministry Organization capable and active?		
(8) Is it cooperative and cognizant of its responsibilities?		
(9) Is there a backlog of reconversion applications to be processed?		
(10) Is the procedure for distributions of permits and applications thoroughly understood and complied with?		
(11) Are the provision of 8th Army Operation Directive Number 5 being carried out particularly pars 18 and 34?		
(12) Do the Japanese officials operate a check system regarding equipment removals, maintenance of equipment, adequacy of plant guards, storage and care of equipment as required by 8th Army Operational Directive #5?		
h. Price Control and Distribution		
(1) Are the local officials aware of their responsibility under SCAP Directive #3, 22 Sept 45 regarding maintenance of a strict rationing program?		
(2) Is the distribution of perishables controlled thru authorized channels?		
(3) Are rice surplus from the area earmarked for rice deficiency areas?		
(4) Is the shipment of such surpluses controlled?		
(5) Are food deficiency areas arranging transportation for necessary sufficiency importation?		
(6) Have cultivation programs be started to make deficiency areas self sustaining?		
(7) Have transportation requirements been measured and is an active program in progress to supplement present facilities by vehicular, water, and rail transportation?		

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P30

1.	OKAYAMA LIGNITE MINE.	[redacted]OYODA LIGNITE MINE	K[redacted]AKAMI LIGNITE MINE
2.	SEICHI NAKAGAWA.	NIHONBARA-ATAN-KAIHATSU-Co.	SUSUKI INDUSTRY CO.
3.	OKAYAMA.	OKAYAMA.	SHIMOBARA, NARI HA-MACHI KAWAKAMI-GUN OKAYAMA-KEN
4.	8,1000 TONS.	750,000 TON	630,932 TON
5.	66 TONS.	150 TON	41 TON
6.	700 TONS.	1800 TON	600 TON
7.	NO. 8 HRS.	NO, 8 HRS.	NOT OPERATION. NOW.
8.	22	42	IN MINE 18 / OUT MINE 7 } 25
9.	YES, NEED FOR ORE BIN BATH. WANT MORE PLENTY TICKET OF CARBIDE FROM C41 HIROSHIMA.	YES, NEED.	NEED FOR CEMENT 5 TON MINE TIMBER 50 KOKU/MONTH. CARBIDE 1 TON/MONTH.
10.	1	2	NONE
11.	3KM.	18 KM.	21 KM.
12	YES.	YES.	YES.
13.	TROUBLE FOR ELECTRIC-POWER BY PUMPING, WHICH IS MOST NECK FOR INCREASE PRODUCTION.	SHORTAGE OF MINE TIMBER BECAUSE OF SOFT HANGING WALL.	NONE.
14	NONE	NONE.	NONE
15	480[00]/A TON.	427.23/A TON	* IN MINE 90[00]/DAY OUT MINE 50[00]/DAY
16	3770 CAL.	3800 CAL	3.950 CAL.
17	NO.	NO.	YES, REGARDING CEMENT, CARBIDE.
18	NONE.	EXPECT FOR RISE UP COAL PRICE.	NONE
19	NONE.	NONE.	NONE

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1	TOYOKATSU COAL MINE	HIRABARA COAL MINE	TASHEI SMOKELESS COAL MINE
2.	Seiji FUKUNARI.	TADASHI KOBAYASHI.	SUEO KAMISHIRO
3.	TAKAKUMA, NISHIICHI-MACHI, TOYOURA-GUN, YAMAGUCHI-KEN	YAMAGUCHI-PREF.	YAMAGUCHI-PREF.
4.	73,500	2,100,000 TON	2045,000 TON
5	NONE	2912 TON	177 TON
6	4,000 TON	18.900 TON	2700 TON
7	NO, 10 HRS	NO.	8 HRS.
8.	7	576	32
9.	YES, NEED.	YES, NEED.	YES, NEED.
10.	NONE	6.	1
11.	2.5 KM.	2,8 KM.	5 KM.
12	YES.	NONE.	YES.
13	NONE	YES, trouble for fund, material.	shortage of housing, truck. narrow of carriaging road.
14.	YES, NEED FOR DRILL.	NONE.	COMPRESSOR, WINCH.
15	1500 00/month.	① miner ② carriage miner } in mine. ① 150 00/a ton ② 270 0/a ton out miner 120 00/a day.	TO GET ALLOWANCE FOR CAPACITY OF PERSON
16	4800 CAL.	4500 CAL.	3,800 CAL.
17	NO	NO.	NO.
18	NONE	TO PRACTICE LONG WALL METHOD. TO GET FUND, MATIRIAL.	PLANING EQUALITY OF DISTRIBUTION MATIRIAL.
19	NONE	NONE.	NONE

file
M-2-G

(1)

Mines in Chugoku Region

I. Coal Mines

as of the end of Sept.1949

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MINES IN CHUGOKU REGION

COAL MINE (Prepared at the end of SEPT.) YAMAGUCHI PREFECTURE

Name of Mine	Location	Recent Result of Production (for SEPT.)	Number of Underground miners	Number of All Miners	Remarks
		MT.			
Okinoyama	Ogushi,Nishi-ku,Ube City.	36,536.	2,303.	3,660.	
Higashi Misome	Okiube,Ube City.	40,760.	2,541.	3,812.	
Okiube	Kusae,Nishiku,Ube City.	12,430.	764.	1,269.	
Hiruke	"	933.	96.	165.	
Matsuhama	Ogushi,Nishi-ku,Ube City.	4,450.	180.	276.	
Tokiwa	Okiube,Nishi-ku,Ube City.	2,704.	144.	215.	
Higashi-Ube	"	1,252.	122.	175.	
Misome-Shin	"	1,674.	161.	258.	
Kami-Ube	Kami-Ube,Ube City.	3,332.	148.	246.	
Yamaguchi	Higashi-Ku,Ube City.	795.	113.	172.	
Higashi-kajigaeshi	Nonaka,Ube City.	860.	68.	98.	
Hohkoh	Nishigiwa,Ube City.	225.	27.	38.	
Momoyama	Shiku Hama,Ube City.	1,159.	126.	193.	
Nakayama	Katsuyama-ku,Ube City.	44.	8.	10.	
Daini-Kamiube	Kamaube,Ube City.	368.	32.	34.	

MINES IN CHUGOKU REGION

COAL MINE (Prepared at the end of SEPT). YAMAGUCHI PREFECTURE

Name of Mine	Location	Recent Result of Production (for SEPT.) MT.	Number of Underground Miners	Number of All Miners	Remarks
Kanbara	Ogushi, Ube City.	246.	62.	85.	
Minami-Kajigaeshi	Higashi-ku, Ube City	-	-	5.	
Maeebisu	Fujimagari, Ube City.	235.	41.	61.	
Ohmae	Okiube, Ube City.	620.	45.	66.	
Nagazawa	Higashiebisu, Ube City.	11,900.	525.	669.	
Naganobu	"	6,098.	270.	892.	
Daini-Suzumeda.	Tsumazaki, Ube City.	4,378.	223.	366.	
Kojima,	Atsuna, Ube City.	1,407.	116.	187.	
Matsuzu	Tsumazaki, Ube City.	2,750.	58.	98.	
Hagimori	Ariho, Onoda City.	6,755.	315.	546.	
Daini-Shinoki	"	4,630.	206.	355.	
Hohkoku	"	3,263.	163.	281.	
Okita	Funagi-cho, Asa-gun.	2,305.	151.	252.	
Funagi	"	2,579.	212.	336.	
Kamioki	"	1531	21.	32.	

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MINES IN CHUGOKU REGION

COAL MINE (Prepared at the end of SEPT) YAMAGUCHI PREFECTURE

Name of Mine	Location	Recent Result of Production (for SEPT.) MT.	Number of Underground Miners	Number of All Miners	Remarks
Miyata	Funagi-cho, Asa-gun,	700.	27.	55.	
Zenigahara	"	441.	29.	47.	
Ariho	Ariho, Onoda City.	1,530.	66.	108.	
Motoyama	Onoda, Onoda City.	9,000.	811.	1,292.	
Ohhama	"	7,043.	629.	961.	
Sakurayama	Nakagawa-dohri, Onoda City.	7,620.	456.	735.	
Onoda	Nishitakadomari, Onoda City.	5,015.	385.	673.	
Nakahara	Nishigiwa, Ube City.	3,896.	185.	312.	
Suzumeda	Higashiebisu, Ube City.	5,575.	313.	537..	
Hirabara	Nishitakadomari, Onoda City.	4,376.	213.	351.	
Kuroishi	Higashiebisu, Ube City.	2,580.	157.	258.	
Mede	Onoda, Onoda City.	516.	117.	195.	
Wakayama	"	3,128.	48.	70.	
Onoyama	"	3,016.	94.	129.	Stopped Operation from Oct.
Asa	Asa-cho, Asa-gun.	2,297.	73.	133.	
Waka	Onoda, Onoda City.	1,340.	114.	156.	

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MINES IN CHUGOKU REGION

Coal MINE (Prepared at the end of Sept) Yamaguchi PREFECTURE

Name of Mine	Location	Recent Result of Production (for Sept.)	Number of Underground Miners	Number of All Miners	Remarks
Daini-Wakayama	Sageta, Onoda City	339.	40.	52.	
Minami Asa	Asa-cho, Asa-gun	602.	32.	51.	
Ryuuoh	"	706.	31.	47.	
Shinmisome.	Nishigiwa, Ube City.	4	-	31.	Above are Bituminous
Sanyo Muen	Ohmine-cho, Mine-gun.	22,982.	1,614.	2,506.	
Enokiyama	"	1,386.	129.	212.	
Shinden	Fuku-mura, "	1,650.	103.	166.	
Mitoyo	"	1,031.	61.	104.	
Okibe	Ikuta-mura, Asa-gun.	229.	44.	78.	
Habu	"	1,208.	99.	169.	
Mifuku	Fuku-mura, Miya-gun.	540.	56.	89.	
Takiguchi	Ohmine-cho, "	499.	27.	48.	
Nagato	"	670.	61.	99.	
Ohaki	Ofuku-mura, "	840.	55.	90.	
Ikuta	Ikuta-mura, Asa-gun.	384.	38.	64.	

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MINES IN CHUGOKU REGION

Taihei MINE (Prepared at the end of Sept) Yamaguchi PREFECTURE

Name of Mine	Location	Recent Result of Production (for Sept.)	Number of Underground Miners	Number of All Miners	Remarks
Taihei	Ohmine-cho, Miya-gun.	78.	10.	15.	
Hagimine	[redacted] Ohmine-cho, Mine-gun.	252.	25.	36.	
Mine	Fuku-mura, Mine-gun.	14.	8.	10.	
Nishimine	Ohmine-cho, Mine-gun.	181.	8.	12.	
Minami Ohmine	"	-	-	-	Not Working
Ofuku	"	-	-	-	"
Imadefuku	"	-	-	-	"

Above are Anthracite.

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Coal MINE — MINES IN CHUGOKU REGION (Prepared at the end of Sept.) — Okayama PREFECTURE

Name of Mine	Location	Recent Result of Production (for Sept.)	Number of Underground Miners	Number of All Miners	Remarks
		MT.			
Niga	Ohga-mura, Kawakami-gun.	520.	40.	59.	
Kachiguri	Tenosho-mura, Kawakami-gun.	100.	10.	17.	
Takane	Katsumada-cho, Katsuta-gun.	824.	73.	117.	

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Coal MINE — MINES IN CHUGOKU REGION (Prepared at the end of Sept.) — Shimane PREFECTURE

Name of Mine	Location	Recent Result of Production (for Sept.)	Number of Underground Miners	Number of All Miners	Remarks
Shimane Hokoku	Kitsuki-cho, Ohnara-gun.	557.	88.	176	
Sanin	Takeya-mura, Yatsuka-gun.	557.	49.	82.	
Matsue	Hokki-mura, Yatsuka-gun.		3.	5.	

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MINES IN CHUGOKU REGION

Coal MINE (Prepared at the end of Sept.) Tottori PREFECTURE

Name of Mine	Location	Recent Result of Production (for Sept.)	Number of Underground Miners	Number of All Miners	Remarks
Tanaka	Iwami-gun.	-	-	-	Not working.

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LIST OF COAL MINES IN CHUGOKU REGION

YAMAGUCHI*KEN

1. Taiho Coal Mine
2. HigashiMisome C. M.
3. Okita C.M.
4. Okibe C. M. Mine
5. Kanioki C. M.
6. Miya C. M.
7. Funaki C. M.
8. Hoko C. M.
9. Sakurayama C. M.
10. Wakaoki C. M.
11. Yamaguchi C. M.
12. Mitoyo Mining Depot, Tairyo Anthracite Mine
13. Kojima C. M. Ass.
14. Nagato Anthracite Mine
15. Nagasawa C. M.
16. No. 2 Shin-Okinoyama C. M.
17. Okibe C. M.
18. Toyota C. M.
19. Hirabara C. M.
20. Takiguchi Mg. Depot, Tairyo Anthracite Mine
21. Konan C. M.
22. Higashi-Ube C. M.
23. Daimyo Anthracite M. Ass.
24. Shin-Mizome C. M.
25. Momoyama C. M.
26. Ohama C. M.
27. Hagimori C. M.
28. Chofu C. M.
29. Kanda Anthracite M.
30. Motoyama C. M.
31. Asahi C. M. Ass.
32. Hokoku C. M.
33. No. 2 Nizome C. M.
34. Sanyo A. M.
35. Chosin C. M.
36. Matsuzu C. M.
37. Noguchi C. M.
38. Hanyu Anthr. M
39. Asa C. M.
40. Yasakae C. M.
41. Onoda C. M.
42. Ube C. M.
43. No. 2 Suzumeda C. M.
44. Miyata C. M.
45. Shiraiwa C, M.
46. Suzumeda C. M.
47. Okinoyama C. M.
48. Shi-Mizome C. M.
49. Ikuta C. M.
50. Mifuku Anthr. M.
51. Oki-Ube C. M.
52. Yawata C. M.
54. Onoyama C. M.
55. No. 2 Wakayama C. M.
56. Wakayama C. M.
57. Enoyama C. M.
58. Tokiwa C. M.
59. No. 2 Shi-Okinoyama C. M.
60. Hirabara C. M.
61. Toyokatsu C. M.
62. Osumi C. M.
63. Taihei Anthr. M.
64. Takiguchi C. M.
65. Okibe C. M.

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OKAYAMA-KEN

1. Takane Lignite Mine
2. Katsuda Coal Mine
3. No. 1 KawakamiC. M.
4. Maniwa C. M.
5. Sanyo C. M.
6. Katsukuri C. M.
7. Tomihara L. M.
8. Omachi C. M.
9. Bizen C. M.
10. Takashimizu C. M.
11. Niga C. M.
13. Toyokuni C. M.
14. Kayama C. M.
15. Mishima C. M.
16. Nishi-Nippon C. M.
17. Hideya C. M.
18. Shioke C. M.
19. Jito C. M.
20. Okayama C. M.
21. Toyota C. M.

SHIMANE-KEN

1. Itazu Lignite Mine
2. Shimane-Hokoku C. M.
3. Ono C. M.
4. Kimiya C. M.
5. Izumo C. M.
6. Chugoku C. M.
7. Yata C. M.
8.

HIROSHIMA-KEN

1. Mirasaki Mg. Depot, Mifuku C. M.
2. Takasaka C. M.
3. Onuka C. M.
4. Dogoyama C. M.
5. Yugi C. M.
6. Saijo C. M.
7. Kumano C.M.
8. Futami C. M.
9. Hongo C. M.
10. Geibi C. M.
11. Hokubi C. M.
12.

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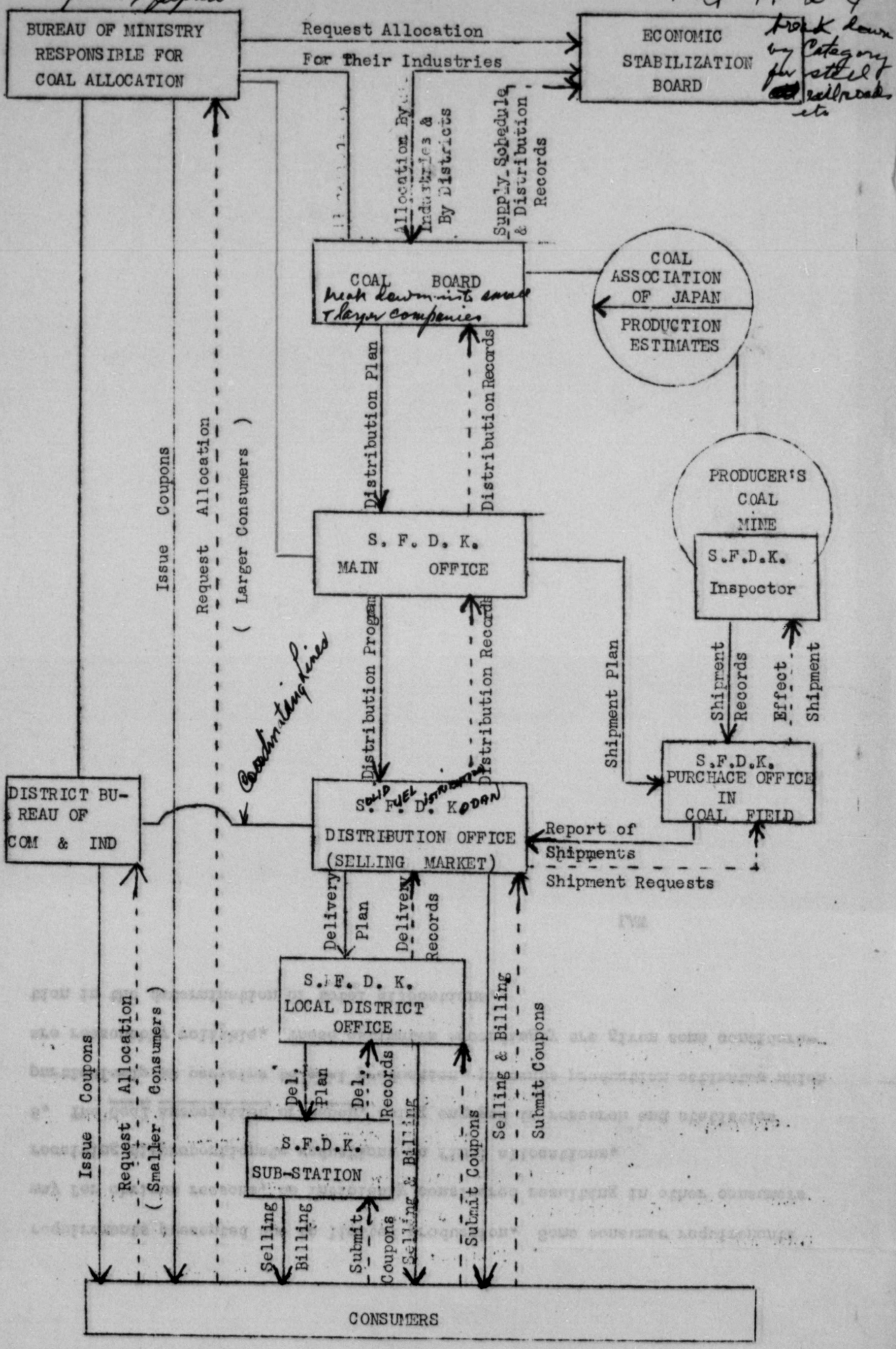
COAL ALLOCATION AND DISTRIBUTION

~~Coal allocation~~

Mr. Stacia Nolan
Chugoku Mil Gov Region
Kure, Japan

(5)

File M-2-G



LAW

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[redacted]

requirements presented due to limited production. Some consumer requirements may for obvious reasons, be inviolably considered resulting in other consumers receiving disproportionate reductions in final allocations.

8. The Coal Association of Japan, being engaged in research and statistics particularly as pertains to coal production, presents production estimates which are reasonably reliable. These estimates accordingly are given some consideration in the determination of total allocations.

LAW

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Coal Allocation and Distribution

(Explanatory addendum to diagram)

1. Consumers are considered in two general categories:

a. The large consumer whose monthly consumption is generally greater than 1000 tons of coal per month.

b. The small consumer whose monthly consumption is generally less than 1000 tons of coal per month.

2. Requirements as determined by consumers, are forwarded as requests for coal allocation through the appropriate District Bureau of Commerce and Industry for small consumers, and for large consumers through the Bureau of the Ministry responsible for coal allocation for particular requirements.

a. District Bureaus are at Region (MG) levels and are located accordingly.

3. Different Ministries are concerned with different requirements. e.g. A chemical company in forwarding its requirement may be required to indicate:

a. The amount of coal necessary for pharmaceutical manufacture, a concern of the Ministry of Welfare;

b. The amount of coal necessary for fertilizer manufacture, a primary c- concern of the Ministry of Agriculture and Forestry;

c. The amount of coal necessary for explosive manufacture (for mining), a concern of the Mining Bureau of the Ministry of Commerce and Industry; and any further breakdown that may be necessary to justify requirements as presented.

4. The Economic Stabilization Board reviews claims as presented by Bureaus of Ministries concerned, and presents consolidated requirements according to its determination to the SCAP - Far East Command Allocations Committee for final allocating action.

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a. Major categories into which requirements are consolidated include: Mine Use, Occupation Forces, Export, Transportation, Communications, Public Utilities, Raw Materials, Shipyards, Railway Rolling Stock, Ceramics, Food Processing, Paper and Pulp, Rubber & Metal Consumer Goods, Electrical Manufacturing Industry, Chemical Fertilizer, Chemical Industry, Textile Industry, Government & Public Use, Public Works, Industrial Mach. and Equip.

b. The SCAP-FEC Allocations Committee presents to the Economic Stabilization Board, publication of allocations by major categories.

c. Upon receipt of approved allocations from the Allocations Committee, the ESB issues an allocation plan to the Coal Board indicating the allocations by industries and by districts.

5. The Coal Board upon receipt of the allocation plan from the ESB, prepares and issues to the Solid Fuel Distribution Kodan a distribution plan and advises the ESB of the supply program placed in effect.

6. Distribution to consumers is effected by the S.F.D.K. through its main distribution offices (located in each Region), its local district offices (generally prefectural), and its sub-stations (outlying areas of prefectures).

a. The S.F.D.K. maintains purchasing offices in coal field areas and inspectors at mines.

b. This Kodan accepts coupons from consumers for all coal delivered and furnishes records of deliveries to the ESB through the Coal Board.

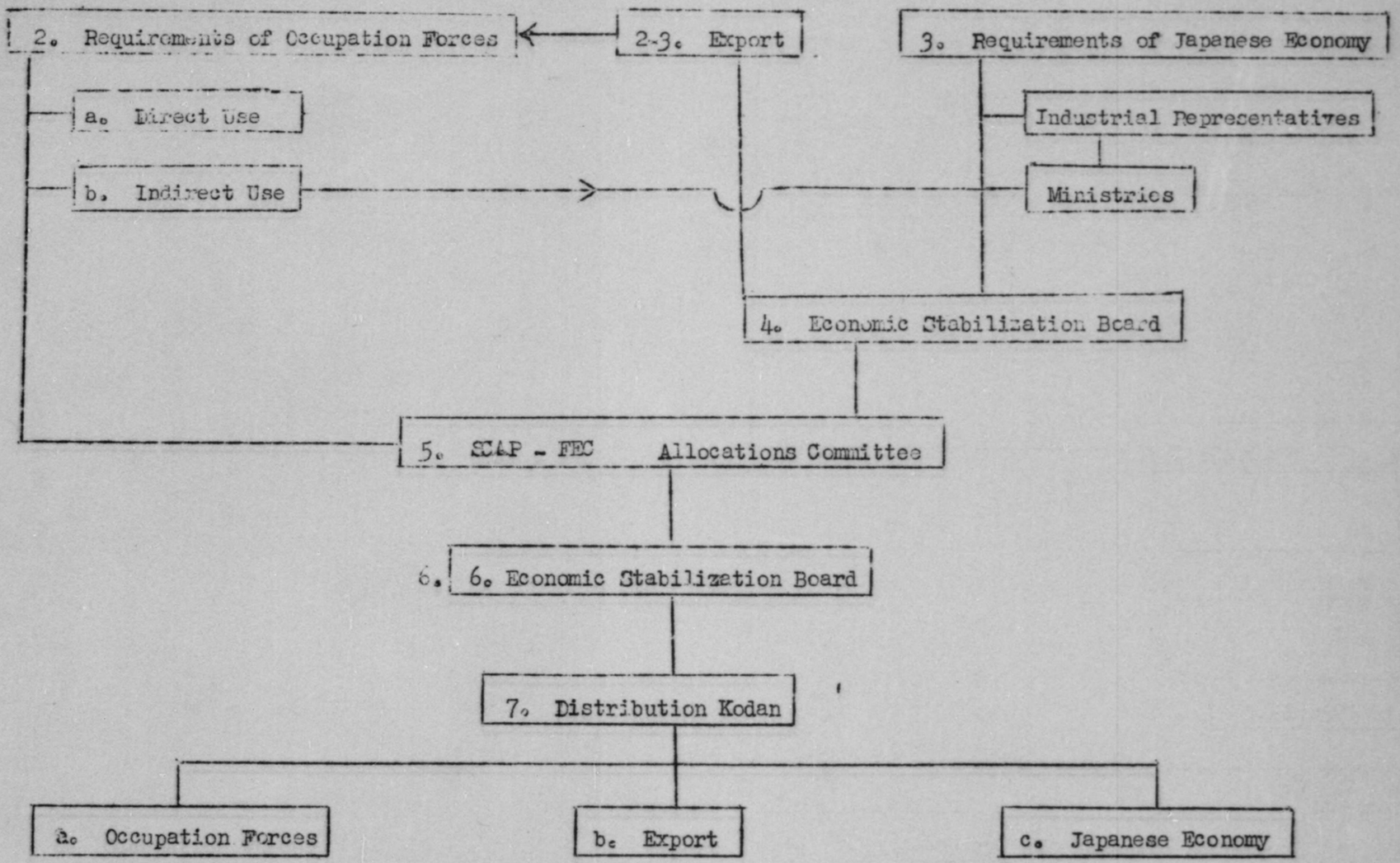
7. Coupons are issued by the Bureaus of Ministries responsible for coal allocation and by the District Bureaus of the Ministry of Commerce & Industry upon formulation by the Coal Board of the actual plan of distribution.

a. In the case of small consumers the District Bureaus of Commerce & Industry issue coupons from "lump" allocations made to the various categories for the particular district (or region). This necessitates certain decisions at the regional level particularly since allocations are invariably less than

M-2-G

(1)

1. Diagram of Allocation Mechanism



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ALLOCATED COMMODITIES
(Particular Emphasis on Coal)

Notes to be used with Diagram of Allocation Mechanism:

1. Critical Commodities presently include solid fuels (coal, coke, lignite) and paper. It is contemplated that copper, lead, and glue will be allocated in the near future followed by other items later.

2. Coal requirements of Occupation Forces include:

a. Direct heating for hot water, cooking and space heating of offices, billets, etc. These requirements are determined by the QM and for the current fiscal year approximate 1,600,000 tons. These requirements are presented directly to the Allocations Committee by Eighth Army and G-4, FEC.

b. Indirect uses include all coal necessary to the fulfillment of procurement demands placed on the Japanese Government for finished products, contractual services, utilities, transportation, etc. These requirements are determined by the Japanese governmental agencies normally concerned with the particular manufacture, contractual work, utilities, or other facilities involved and are presented by industrial representatives and Japanese ministries concerned, to the Economic Stabilization Board. Eighth Army directly supports these requirements to the Allocations Committee in order that sufficient coal is allocated to meet minimum occupation requirements. These requirements have been in excess of 1,000,000 tons annually.

c. The term "Occupation Forces" includes all allied and neutral nations represented in Japan and U.S. Forces in Korea. It is reasonable to assume that total occupation requirements (both direct and indirect) approximates 10% of production, based upon current production and annual consumption estimate.

3. Requirements of the Japanese Economy represent all coal produced excepting that amount required for occupation and export. Industrial representatives and ministries jointly coordinate and recommend to ESB a reasonable distribution of coal to claimants.

4. The Economic Stabilization Board reviews claims and presents to the SCAP-FEC Allocations Committee all claims found to be in order, constantly bearing in mind the estimated production for the month for which the deliveries are desired.

5. The SCAP-Far East Command Allocations Committee consists of deputies representing the following:

Eighth Army
G-4, FEC
OCE, FEC
CTS, GHQ
CCS, GHQ
ESS, GHQ
Korean Requirements

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a. This committee generally meets weekly to consider all critical commodities brought before it for allocation. Upon final approval of allocations, the published allocations are presented to the Economic Stabilization Board.

6. The Economic Stabilization Board is given the allocation directive for implementation and the carrying out of its provisions. In the case of coal, coke and lignite for example, the Solid Fuel Distribution Kodan effects deliveries.

7. The Solid Fuel Distribution Kodan is given the mission of effecting appropriate and equitable distribution of all coal, coke, and lignite in accordance with a quota program and rationing procedures set up by the Director General of the Economic Stabilization Board within the limitations of allocations approved by the SCAP-FEC Allocations Committee.

a. The Kodan delivers coal directly to Occupation Forces' main supply points throughout Japan, where receipts are signed by receiving officers upon delivery. The coal is then Occupation Forces property and further movement is no longer the responsibility nor the business of the Japanese Government nor any of its representative agencies. Any further movement may be accomplished by the use of organic equipment or by equipment and/or facilities obtained under the provisions of freight haulage procurement demands.

b. The Kodan provides coal at ports for export -- primarily to meet occupation requirements in Korea, bunker coal for salt ships and shipments to Hong Kong primarily for British Bunkering.

c. The Kodan delivers coal to Japanese claimants in accordance with allocations and rationing procedures.

8. Similar systems are applicable to all SCAP-FEC allocated commodities with the ESB affording the primary media through which allocations are accomplished.

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District office - less than 1000 T.

Ministry " - more "

(Coal allocation coupons)

Liquidation of control assns

Sangyo Hoko Kodan (Surplus materials Industrial recovery)

4

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Draft

TEMPOR[illegible] STATE CONTROL OF COAL-MINING [illegible]

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CHAPTER I

General Provisions

Article 1. The present Law shall have, as its object and as a temporary means until such time that industrial reconstruction and economic stabilization have been carried out, temporary control of coal-mining by the Government, thereby to increase coal production upon concentration of very effort of the Government, enterprisers and workers.

Article 2. Coal mine, within the meaning of this Law, is a place of work (including place of work attached thereto) for coal production.

Article 3. The Minister of Commerce & Industry, Governmental Officials holding the responsibility for the enforcement of the Law and Commissioners of the Coal mine Control Committee shall respect rights and duties of coal mine enterprisers to make collective bargaining with a labor union legally established under the Labor Union Law, as to the matters excepting what have been decided by the Production Council.

Article 4. Orders issued and dispositions made in accordance with the provisions of the Law and actions taken by coal mine enterprisers according to the provisions of the Law shall be binding on the successors of the enterprisers.

CHAPTER II

Control over Coal Mines

Article 5. Enterprisers shall, under the provisions of Orders, submit to the competent Directer of Coal Bureau the projected business plan for each year as well as quarterly business plan. This shall apply to a case where revision has been made to the projected business plan or the busines plan.

The Director of Coal Bureau may, when he deems it necessary, order modification of the above-mentioned business plans, upon consultation with the Local Coal mine Control Committee.

Enterprisers may, when they deemed the order as referred to above to be extraordinarily unfair, file a complaint with the Minister of Commerce & Industry.

The Minister of Commerce & Industry shall, when he deems the Complaint as reasonable as a result of consultation with the All Japan Coal Mine Control Committee, order the Director of Coal Bureau to cancel or revise the said Order.

Article 6. Coal mine enterprisers shall, under the supervision of the Government, have the responsibility for the enforcement of the business plans.

Article 7. Coal mine enterprisers shall, in accordance with the provisions of the Order, submit to the Director of Coal Bureau a report on the progress of the business planned.

Article 8. The Director-General of the Board of Coal or the Director of Coal Bureau may request submittance of report as to the business of coal mine enterprisers or may cause the governmental officials concerned to audit the nature of use of funds and materials for production increase, progress of coal production and expansion work.

In case the government officials concerned have been ordered to audit as referred to in the preceding Paragraph, they shall carry an identification certificate with them.

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Article 9. In case where it is deemed necessary as a result of the report or audit as provided for in the law, the Director-General of the Board of Coal may issue to coal mine enterprisers an order necessary for his supervision, upon consultation with the All Japan Coal Mine Control Committee, and the Director of Coal Bureau with the Local Coal Mine Control Committee.

Article 10. Coal mine enterprisers shall not stop or suspend the whole or a part of mining operation unless with approval of the Minister of Commerce & Industry.

The Minister of Commerce & Industry shall, in case be intends to give an approval as referred to above, consult with the All Japan Coal Mine Control Committee.

Article 11. Lease, transfer of ownership, consignment of management of the whole or a part of mining operation or merger or dissolution of companies which are enterprisers of coal mining shall not become effective unless an approval of the Minister of Commerce and Industry has been obtained.

The Minister of Commerce and Industry shall, in case he intends to grant the approval as mentioned above, consult with the All Japan Coal Mine Control Committee.

Article 12. In case where it is deemed specially necessary, the Director-General of Board of Coal and the Director of Coal Bureau may issue an order to enterprisers, upon consultation with the All Japan Coal Mine Control Committee and Local Coal Mine Control Committee respectively, to transfer the ownership of or to lend the equipment or materials in the possession of the enterprisers.

Any person who has received the order referred to in the preceding paragraph may transfer the ownership or lend notwithstanding provisions of other laws or ordinances.

Terms and conditions of transfer or lease mentioned in paragraph 1 shall be subject to the mutual agreement of the parties concerned. In case they have failed to reach an agreement or they cannot open conference among them, the Director-General of Board of Coal or Director of Coal Bureau shall make a decision.

Those, who have a complaint about the price as a result of the decision in the preceding paragraph, may request by suit to increase or decrease the said price within thirty days from the date of receipt of the notice of the decision.

In the suit mentioned in the preceding paragraph, the defendant shall be the person concerned with transfer or lease.

Disposition of security or any other necessary matters in case of an order being issued in accordance with the provisions of paragraph 1 shall be subject to an order.

CHAPTER III

Control Over the Designated Coal Mine

Section 1

Designation of Coal Mines

Article 13. The Minister of Commerce and Industry shall, upon consultation with the All Japan Coal Mine Control Committee, designate coal mines to be controlled under the provisions of this Chapter in addition to the preceding Chapter (designated coal mine).

Stardards of the designation in the preceding paragraph shall be decided every six months on the basis of efficiency, production cost, quality and quantity of coal produced.

The designation referred to in paragraph 1 shall be made through Ministerial Notification.

Article 14. The Minister of Commerce and Industry may, in case he deems it unnecessary to continue the control as provided for in this Chapter, cancel the designation of the coal mines designated, upon consultation with the All Japan Coal Mine Control Committee.

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The provisions in Paragraph 3 of the preceding Article shall apply correspondingly to the case in the preceding Paragraph.

Section 2

Business Plan

Article 15. Enterprisers of the designated coal mines shall, under the provisions of Article 17, submit to the competent Director of Coal Bureau a report on a detailed quarterly business plan (business plan) as to the designated coal mines.

The provisions concerning business plan in the preceding Chapter shall not apply to the designated coal mines.

Article 16. The Director of Coal Bureau shall, upon consultation with the Local Coal Mine Control Committee, determine basic matters in drafting a business plan as to each designated coal mine and give an instruction to enterprisers of the designated coal mines according to these basic matters.

Article 17. Enterprisers of the designated coal mines shall, in case they have received an instruction mentioned in the preceding Paragraph, cause coal mine controllers, in accordance with that instruction and as provided for in the order, to draft a business plan & submit it to the competent Director of Coal Bureau.

The Coal mine controllers shall, in case they draft a plan as referred to in the preceding Paragraph, consult with the Production Council.

In case coal mine controllers have failed to consult with the Production Council irrespective of the provisions of the preceding Paragraph, enterprisers shall report to the competent Director of Coal Bureau to that effect as provided for in the Order and draft a business plan to submit to him.

Article 18. The Director of Coal Bureau shall, when he has received a draft of business plan as provided for in Paragraph 1 or 3 in the preceding Article, scrutiny it and decide a business plan for the designated coal mine concerned upon consultation with the Local Coal Mine Control Committee and then notify to the enterpriser and controller of the said designated coal mine to that effect.

The enterpriser concerned shall, pending the instruction as mention ed in the preceding Paragraph, carry on the business for the designated coal mine, as provided for in Paragraph 1 or 3 in the preceding Article, in accordance with the business plan submitted to the competent Director of Coal Board.

Article 19. Enterprisers may in case they deem it necessary to make a change in the business plan referred to in Paragraph 1 of the preceding Article under unavoidable circumstances, submit a revised business plan to the competent Director of Coal Bureau as provided for in Order.

The provisions in Article 17 shall apply correspondingly to the preceding Paragraph.

The Director of Coal Bureau shall, when he has received the revised business plan as mentioned in the preceding Paragraph and deems it necessary to make a revision to the original business plan, make a change in the plan upon consultation with the Local Coal Mine Control Committee and notify to the enterprisers & controllers concerned of that effect, without delay.

The Director of Coal Bureau may, when he deems it specially necessary, make a change in the business plan of the designated coal mines, upon consultation with the Local Coal Mine Control Committee, and notify to the enterprisers and controllers concerned of that effect.

Article 20. The Director of Coal Bureau may, in case he deems it necessary for carrying out the business plan of the designated coal mines, issue an order or instruction necessary for his supervision upon consultation with the Local Coal Mine Control Committee.

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Enterprisers or controllers of the designated coal mine may, in case they have a complaint about the order or instruction mentioned in the preceding Paragraph, file a complaint with the Minister of Commerce & Industry subject to the provisions of the Order.

The Minister of Commerce & Industry shall, in case he deems the complaint as reasonable as a result of consultation with the All Japan Coal Mine Control Committee, request the Director of Coal Bureau concerned to cancel or change the said order or instruction.

Article 21. Enterprisers of the designated coal mine shall, subject to the provisions of the Order, submit a report on the progress of the business planned to the competent Director of Coal Bureau.

Section 3

Controllers of Coal Mines

Article 22. Enterprisers of the designated coal mines shall, when the designation of coal mine has been made or the post of coal mine controller has fallen into vacancy, appoint a controller for each designated mine, without delay.

Enterprisers shall, when they have appointed a controller under the provisions of the preceding Paragraph, report to the Minister of Commerce and Industry to that effect.

Article 23. Coal mine controllers shall take the responsibility of carrying out the business planned, under the supervision of the competent Director of Coal Bureau, for the realization of the most efficient operation of the coal mines concerned.

Article 24. In case where the majority of commissioners of the Production Council deems a coal mine controller as extremely unfit for the post, they may report to the Minister of Commerce & Industry to that effect, through the competent Director of Coal Board. In this Case the Minister of Commerce & Industry may upon consultation with the All Japan Coal Mine Control Committee taking into consideration the opinion of the enterpriser of the coal mine concerned, request the said enterpriser to dismiss the controller concerned.

The Minister of Commerce & Industry may, in case he deems a coal mine controller as extremely unfit for the post, request, upon consultation with the All Japan Coal Mine Control Committee taking into consideration the opinion of the enterpriser of the coal mine concerned, the enterpriser to dismiss the said controller.

Article 25. Enterprisers of the designated coal mine shall, under the provision of the Order, entrust the coal mine controller with necessary competence for the execution of the business planned.

Section 4

Production Council

Article 26. There shall be established the Production Council in each of the designated coal mines.

Article 27. The Production Council shall be composed of a coal mine controller and commissioners of the Council.

- 3 -

Commissioners shall consist of Business Commissioners and Labor Commissioners in the equal number.

The Chairmanship of the Production Council shall be filled with a coal mine controller.

Article 28. The number of Commissioners of the Production Council shall, under the provisions of the Order, be determined by a coal mine controller.

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A coal mine controller may, in case he deem it necessary & subject to the resolution of the Production Council, make a change in the number of Commissioners. However, a change in the number of Commissioners shall be made only at the time of expiration of terms for Commissioners.

In the case of the foregoing two Paragraphs, a coal mine controller shall, without delay, make public notification as to the number of Commissioners by proper means.

Article 29. The Business Commissioners shall be appointed by a coal mine controller from among those engaged in the business pertaining to the designated coal mine.

The Labor Commissioners shall be appointed from among pit workers and surface workers at the ratio of 3 to 2 by a coal mine controller, with the recommendation of the labor union of the said coal mine in case the union is organized with a majority of employees and there is no other labor unions in that coal mine or with the recommendation of a majority of employees or a majority of workers representing the employees in case no recommendation has been made by the labor union or in case there is no labor union organized with a majority of workers.

Those who are recognized as representing the interest of enterprise of the designated coal mine are excluded from the employees mentioned in the preceding Paragraph.

The labor union referred to in Paragraph 2 shall mean such labor unions as those organized in each coal mine & as provided for in the Labor Union Law.

A Business Commissioner shall not hold the post of or represent a Labor Commissioner, and Vice Versa.

Article 30. Appointment shall be made of all the Commissioners of the Production Council at the same time, within two weeks after the date of public notification as provided for in Para. 3, Article 28 or after the date of expiration of term of Commissioners in case of the provisions of Para. 1, Article 28 or in case the term of Commissioners has expired, or within two weeks after the date of the post of Commissioner having fallen vacant or after the date of public notification as provided for in Para. 3, Article 28 in case the post of Commissioner has fallen vacant or the quorum of Commissioners has been increased.

Article 31. The term of Commissioners of the Production Council shall be one year. However, the term of the Commissioners who have been appointed to fill a vacancy or who have newly been appointed as a result of increase in the quorum of Commissioners shall be same with the remaining term of the other Commissioners.

Article 32. A coal mine controller shall, in case appointment has been made of the Commissioners of the Production Council submit to the competent Director of Coal Bureau a report on the name of Commissioners, without delay.

Article 33. The production Council shall be convened by the Chairman and the agenda shall be subject to the resolution of a majority of the Commissioners present thereat. However, in case of the Proviso of Par. 1, Article 35, all the Commissioners present thereat shall decide.

The Production Council shall not take up the agenda unless with the presence of each one or more of Business & Labor Commissioners.

The Chairman shall not participate in the decision in any case.

Article 34. Coal mine controllers shall, with the resolution of the Production Council, determine the principle of the following matters for the execution of the business plan:

1. Matters concerning operation plan.
2. Matters concerning improvement of labor efficiency or rationalization of labor conditions.
3. Matters concerning adjustment of labor conditions.
4. Matters concerning maintenance of labor.
5. Matters concerning maintenance of safety.

Coal mine controllers may, in addition to the matters referred to in the preceding Paragraph, determine, with the resolution of the Production

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on Council, the matters necessary for the execution of the business plan.

The provisions in the foregoing two Paragraphs shall not apply to the matter that has been ordered or instructed as referred to in Paragraph 1 Article 20.

The Production Council may, in case it is deemed necessary for the deliberation as provided for in Paragraphs 1 or 2, request an enterpriser of the designated coal mine to submit a report on the financial conditions of his enterprise.

Article 35. Coal mine controllers may, when they have failed to obtain the consent of the Production Council in the case of Paragraph 1 or 2 in the preceding Article, request a decision from the competent Director of Coal Bureau under the provisions of the Order. However, as to improvement of labor conditions and other matters relating to treatment of employees, coal mine controllers may request a decision as mentioned above only when he has obtained the consent of the Production Council.

The decision of the Director of Coal Bureau as provided for in the preceding Paragraph shall be subject to consultation with the Local Coal Mine Control Committee.

Measures, which are to be taken in case it has been failed to obtain the consent of the Production Council in order to request a decision from the Director of Coal Bureau as to the matters mentioned in the Proviso in Paragraph 1, are subject to the provisions of the Labor Relations Adjustment Law.

Article 36. Besides those provided in this Law or in the Order to be issued in accordance with this Law, necessary matters as to the Production Council shall be decided by coal mine controllers with consent of the Production Council.

Section 5

Miscellaneous Provisions

Article 37. Any of the companies which are enterprisers of the designated coal mine shall not dispose of its profit unless with approval of the Minister of Commerce & Industry.

Article 38. In case it is deemed specially necessary, the Director-General of the Board of Coal may, upon consultation with the All Japan Coal Mine Control Committee, or Director of Coal Bureau may, upon consultation with the Local Coal Mine Control Committee, order enterprisers of the designated coal mine installation, expansion or improvement of equipment, exploitation of new pit or excavation of mine galleries.

Enterprisers of the designated coal mines may, in case they have deemed the order mentioned in the preceding Paragraph to be extraordinarily unfair, file a complaint with the Minister of Commerce & Industry under the provisions of the Order.

The Minister of Commerce & Industry shall, in case he has deemed the abovementioned complaint as reasonable as a result of consultation with the All Japan Coal Mine Control Committee, order the Director-General of Board of Coal or the competent Director of Coal Bureau to cancel or change the said Order.

CHAPTER IV

Cooperation Order

Article 39. The competent Minister may in case it is deemed specially necessary, order those who are engaged in the manufacture or sale of materials to be used for coal production, to transfer materials in the possession of them to enterprisers of coal mi[illegible]

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The competent Minister may, in case it is deemed specially necessary, order the owner of idle equipment to transfer such equipment to enterprisers of coal mines.

The competent Minister may, in case it is deemed specially necessary, issue an order to those, who are engaged in the following business, in connection with repair of machinery, construction work or transportation or handling of cargoes:

1. Repair of machinery,
2. Civil engineering, construction work, construction or installation of equipment (including repair or remodelling)
3. Transportation or handling of cargo.

The provisions in Paragraphs 2 to 6 inclusive, Article 12 shall apply correspondingly to the foregoing three Paragraphs. However, "The Director-General of Board of Coal or Director of Coal Bureau" referred to in Paragraph 3 of the same Article shall read "the competent Minister."

CHAPTER V

Indemnity for Loss

Article 40. The Government shall indemnify those, who incurred loss due to the Order or instruction under the provisions of this Law, for the loss.

The loss to be indemnified according to the provisions of the preceding Paragraph shall be such one as occurs in an ordinary case.

The Order or instruction including indemnity as provided for in Paragraph 1 shall be issued so that the total amount of the said indemnity may not exceed the budget approved by the Diet.

The amount of indemnity under the provisions in Paragraph 1 shall be subject to consultation of the Minister of Commerce & Industry with the Minister of Finance and deliberation at the Coal Mining Industry Losses Indemnification Investigation Conference.

Matters concerning the Coal Mining Industry Losses Indemnification Investigation Conference referred to in the preceding Paragraph shall be determined by the Cabinet Order.

Besides those provided in the foregoing five Paragraphs, matters necessary for the indemnification for losses shall be decided by Order.

CHAPTER VI

Coal Bureau

Article 41. There shall be established the Coal Bureau which is to be caused to take charge of the business concerning the enforcement of the present Law and other matters relation to coal Production.

The Coal Bureau shall be placed under the control of the Minister of Commerce & Industry.

Article 42. Names, location & jurisdicational areas of Coal Bureau shall be as given in the Annex.

Article 43. The Coal Bureau shall have the following staff:

Director	
Secretaries	(Kyoku-in)
Clerks	(shuji)

The quorum of secretaries and clerks shall be decided by the Minister of Commerce & Industry to each coal Bureau.

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Article 44. The Director shall be appointed from among the first class officials or technical officials of Commerce & Industry having knowledges & experiences about coal production.

The Director of Coal Bureau shall, under the direction & supervision of the Ministry of Commerce & Industry (or the Director-General of Board of Coal in respect to the matters under his competence), preside over all the affairs of the Bureau.

In case the Director cannot perform his duty or the vacancy his occurred in the Directorship, the secretary (Kyoku-in) designated by the Minister of Commerce & Industry shall temporary execute the duties of the Director.

Article 45. The Director of Coal Bureau shall direct and supervise the staff of the Bureau and appoint or dismiss third class officials.

Article 46. Secretaries shall be appointed by the Minister of Commerce & Industry from among those having knowledges and experiences about coal production and officials or technical officials of Commerce & Industry of 1st or 2nd class.

Secretaries shall attend to the business of the Bureau under the direction of the Director.

Secretaries equivalent in number to a majority of quorum under the provisions of Paragraph 2, Article 43 shall be appointed from among civilians or governmental officials having knowledges and experiences about coal production.

Article 47. Clerks shall be appointed from among officials or technical officials of Commerce & Industry graded third class.

Clerks shall be engaged in the affairs of the Bureau under the direction of higher officials.

Article 48. Services of the Bureau's staffs who have formerly been civilians shall be subject to the Governmental Officials Service Regulations with necessary modification.

Article 49. The Minister of Commerce & Industry may, whenever necessary, establish a branch office of Coal Bureau in order to cause it to take charge of a part of Affairs of the Bureau.

Names location & jurisdictional areas of branch offices shall be decided by the Minister of Commerce & Industry, upon consultation with All Japan Coal Mine Control Committee.

CHAPTER VII

Coal Mine Control Committee

Article 50. The Coal Mine Control Committee shall consist of Coal Mine Control Committee & Local Coal Mine Control Committee.

The All Japan Coal Mine Control Committee shall be established in the Ministry of Commerce & Industry.

The Local Coal Mine Control Committee shall be established in each of Coal Bureaus and the name of Coal Bureau shall be prefixed to the Committee established therein.

The All Japan Coal Mine Control Committee shall be placed under the supervision of the Minister of Commerce & Industry, and the Local Committee under the supervision of the Director of Coal Bureau.

Article 51. The All Japan Coal Mine Control Committee shall, besides the matters placed under its competence under the provisions of this Law, make investigation into & deliberation upon the following matters relativ to coal production at the request of the Minister of Commerce & Industry or Director-General of Board of Coal:

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1. Plan for management of coal mining control,
2. Coal production plan,
3. Realization of the most efficient operation of coal mining.

The Local Coal Mine Control Committee shall, besides the matters placed under its competence under the provisions of this law, make investigation into & deliberation upon the matters enumerated in the above Paragraph, at the request of the Director of Coal Bureau.

Coal Mine Control Committees may make a recommendation to the administrative office concerned on the matters concerning coal production.

Article 52. The All Japan Coal Mine Control Committee shall be organized with one Chairman, thirty Commissioners, several Special Commissioners and Temporary Commissioners.

The Local Coal Mine Control Committee shall be organized with one Chairman, no more than 45 Commissioners & serveral Special Commissioners.

Article 53. The Chairmanship of All Japan Coal Mine Control Committee shall be held by the Minister of Commerce & Industry.

Commissioners of All Japan Coal Mine Control Committee shall be composed of five persone having knowledges & experiences about coal production, ten persons representing coal mine enterprisers, ten persons represent ing coal mine workers (excluding those deemed as representing the interest of coal mine enterprisers:) and five persons representing consumers of coal, subject to the appointment of the Minister of Commerce & Industry.

The Minister of Commerce & Industry may, in case it is deemed necessary, appoint to Temporary Commissioners those representing the enterprises which are in close connection with coal mining.

Article 54. The Chairmanship of the Local Coal Mine Control Committee shall be held by the Director of Coal Bureau.

Commissions of the Local Coal Mine Control Committee shall be composed of no more than five persons having knowleges and experiences about coal production, not more than twenty persons representing enterprisers of coal mine within the jurisdictional area of the Bureau concerned and not more than twenty persons representing workers (excluding those deemed as representing the interest of enterprisers) of coal mine within the jurisdictional area of the Bureau concerned, subject to the appointment of the Director of Coal Board.

Commissions representing coal mine workers under the provisions of the preceding Paragraph shall be appointed at the ratio of three pit workers to two surface workers.

Article 55. The Chairman of a Coal Mine Control Committee may set up the Sub-committee of Labor or other Sub-committees to be caused to take charge of affairs relating to improvement of labor efficiency and other special matters in the assignments of the Coal Mine Control Committee.

The Chairman of the Local Coal Mine Control Committee may set up a Regional Sub-committee in each branch office of Coal Bureau to be caused to take charge of regional matters in the assignments of the Local Coal Mine Control Committee.

The Local Coal Mine Control Committee may, in accordance with its regulations, substitute the resolution of the Local Coal Mine Control Committee for that of the Regional Sub-committee.

Article 56. The Minister of Commerce & Industry or Director of Coal Bureau may appoint Special Commissioners from among the governmental officials concerned

Article 57. The Special Commissioners & Temporary Commissioners have no right of voting.

Article 58. Besides those provided in this Law, matters necessary for the Coal Mine Control Committee shall be determined by the Order.

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CHAPTER VIII

Penal Regulations

Article 59. Interprisers (or representing person if enterprisers are juridical person) of the designated coal mines shall, when they come under any of the following items be liable to penal servitude of not exceeding three years or a fine not exceeding ¥30,000.

1. Those who violate an order to be issued by the Directer- General of Board of Coal or Director of Coal Bureau in his supervision, as provided for in Article 9,
2. Those who have violated the provisions of Paragraph 1, Article 10,
3. Those who have violated the order of the Director-General of Board of Coal or Director of Coal Bureau, as provided for in Paragraph 1, Article 12,
4. Those who have violated an order to be issued by the Director of Coal Bureau in his supervision as provided for in Paragraph 1, Article 20,
5. Those who have violated the order of the Director-General of Board of Coal or Director of Coal Bureau as provided for in Paragraph 1, Article 38.

Article 60. Any person representing the company that has violated the provisions of Article 37 shall be liable to penal servitute for not longer than one year or a fine not exceeding ¥10,000,

Article 61. Those who have refused, interfered or evaded an audit of the governmental official concerned under the provisions of Article 8 shall be liable to penal servitude for not longer than six months or a fine not exceeding ¥5,000.

Article 62. Any person (or a representative in case of a juridical person) falling under any of the following items shall be liable to a fine not exceeding ¥10,000.

1. Those who have neglected to submit a projected business plan or business plan in contravention of the provisions of Paragraph 1, Article 5,
2. Those who have neglected to submit a report or who have submitted a false report in contravention of Article 7, Paragraph 1 of Article 8 or Article 21,
3. Those who have violated the order to be issued by the Director-General of Board of Coal Director of Coal Bureau in his supervision under the provisions of Article 9 (excluding those punished under the provisions of Article 59),
4. Those who have violated the provisions of Paragraph 1, Article 10 (excluding those punished under the provisions of Article 59),
5. Those who have violated the order issued by the Director-General of Board of Coal or Director of Coal Bureau under the provisions of Paragraph 1, Article 12 (excluding those punished under the provisions of Article 59),
6. Those who have neglected to submit a draft of business plan in contravention of Paragraph 1 or 3, Article 17,
7. Those who have neglected to submit a report on the appointment of a coal mine controller under the provisions of Paragraph 2, Article 22,
8. Those who have violated the order to dismiss as provided for in Article 24,
9. Those who have violated the order of the competent Minister as provided for in Paragraph 1, 2 or 3, Article 39.

Supplementary Provisions

Article 63. This Law shall come into force as from 1 April, 1948.

Article 64. The life of this Law shall be three years after the date of its enforcement. However, extention may be allowed in case it is specially necessary in view of economic situations at the time of expiration.

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Necessary matters in connection with the preceding Paragraph shall be provided for by a Law.

ANNEX

Name	Place	Jurisdiction
Sapporo Coal Bureau	Sapporo-shi	Hokkaido
Taira Coal Bureau	Taira-shi	Aomori-ken, Iwate-ken, Miyagi-ken Akita-ken, Yamagata-ken, Fukushima-ken, Tokyo-to, Ibaragi-ken, Gunma-ken, Tochigi-ken, Saitama-ken, Chiba-ken, Kanagawa-ken, Yamanashi-ken, Niigata-ken, Nagano-ken, Gifu-ken, Aichi-ken, Shizuoka-ken, Miye-ken, Toyama-ken, Ishikawa-ken.
Ube Coal Bureau	Ube-shi	Shiga-ken, Kyoto-fu, Osaka-fu, Hyogo-ken, Nara-ken, Wakayama-ken, Fukui-ken, Tottori-ken, Shimane-ken, Okayama-ken, Hiroshima-ken, Yamaguchi-ken, Tokushima-ken, Kagawa-ken, Ehime-ken, Kochi-ken.
Fukuoka Coal Bureau	Fukuoka-shi	Fukuoka-ken, Saga-ken, Nagasaki-ken, Kumamoto-ken, Oita-ken, Miyazaki-ken Kagoshima-ken.

File M-2-G.

CATALOGUE

OF

COAL MINING MACHINERY AND EQUIPMENT

COMPILED JOINTLY

BY

MACHINERY BRANCH, INDUSTRIAL DIVISION,
ECONOMIC AND SCIENTIFIC SECTION, SCAP

AND

NATURAL RESOURCES BRANCH, ECONOMICS DIVISION,
MILITARY GOVERNMENT SECTION, HQ, 8TH ARMY

(Form MB-4, 20 August 1947)

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INTRODUCTION

1. This catalogue contains data pertaining to all types of coal mining machinery and equipment needed by the coal mines. It is intended to assist Military Government Teams in guiding coal mine operators to place their orders of needed machinery directly with the proper manufacturer.

2. Only those 105 plants designated by the Ministry of Commerce and Industry to receive top priority in the distribution of raw materials for the manufacturing of coal mining equipment are included. There are many more plants engaged in making mining machinery, which are not included in this catalogue.

3. The list of types and sizes is not all inclusive. In some cases, details were not obtainable. Only the most common standard sizes are listed. It is possible that the coal mines might obtain additional types and sizes from the listed producers.

4. Capacity figures indicate probable monthly production, providing raw materials, supplies, and labor are available.

5. Under the current coal mining equipment expediting program, these companies will receive first priority on all critical materials after occupational requirements have been met.

6. Explanation of Code Numbers.

C - Indicates coal mining equipment.

The first digit indicates the district in which the plants are located:

1. For Hokkaido District
2. " Tohoku "
3. " Kanto "
4. " Tokai-Hokuriku District
5. For Kinki District
6. " Chugoku "
7. " Shikoku "
8. " Kyushu "

The last two digits indicate the number of the plant.

NOTE: These code numbers should be used whenever reference is made to the plants.

Code Number	Name of Company	Location	No. of Empls.	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-1001	Hokkai Kogyo K.K. Main Plant	4, Umaya-machi, Otaru-shi	196	Steel coal car	Cap: 1 cbm Gauge: 762 mm	
				Mining car wheels iron and steel		
				Mild steel round and square bars		
C-1002	Kyoritsu Kikai Seisakusho, K.K. Main Plant	55, 6 Okusawa-cho, Otaru-shi	59	Rock drills	CA-7, K-13	4 tons
				Coal pick	S-55, S-45	
				Coal cutters	AZ-11	
C-1003	Kishi Tekkosho K.K. Main Plant	10, Masakai-cho, Otaru-shi	135	Reciprocating pumps and axial flow pumps		11 tons
						9 "
				Cranes		11 "
				Belt and chain conveyors		
				Elevators		
C-1004	Nakayama Kikai K.K. Main Plant	26, Kitanijo-Higashi 13 chome, Sapporo	296	Crushers		5 tons
				Separator		60 "
				Pushing in machines for ingot steel		5 "
				Cranes		5 "
				Winding machines		30 "
				Conveyors		10 "
				Power transmission equip.		5 "
				Compressors		30 "
				Axial flow pumps		30 "
C-1005	Nippon Seikosho Main Plant	4, Chazu-machi, Muroran	3391	Winding machines	300 HP	466 tons
				Elevator		33 "
				Steel coal mine car	Cap: 1 cbm Gauge: 762 mm	90 "

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No.of Empls.	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-1006	Sanei Seiki Seisakusho K.K. Otaru Plant	8, Wakatake-cho, Otaru	228	Rock drills	CA-7	
					R-39	10 tons
				Blowers		10 "
				Hammer drills	AZ-11	
				Air hoists	AH-36	
C-1007	Shimizu Tekkosho, K.K. Otaru Plant	71, Nagahashi-cho, Otaru	125	Separator		16 tons
				Conveyors		9 "
C-1008	Toa Sharyo K.K. Otaru First Plant	1, Shintomo-cho, Otaru	204	Steam locomotives	Cap: 10 T Gauge: 762 mm	18 tons
C-1009	Yubari Seisakusho K.K. Main Plant	8, Hiyoshi, Yubari	870	Reciprocating pumps and axial flow pumps		4 tons
				Fans	100 HP	4 "
				Compressors	100 HP	
					350 HP	76 "
				Crushers, mixing machinery		16 "
				Conveyors		32 "
				Hoisting units		20 "
				Cranes		-
				Rock drills	CA-7	20 "
				Excarators		4 "
				Coal separators		4 "
				Metal forming machines		4 "
				Steel coal mine cars	Cap: 1 cbm Gauge: 762 mm	90 "
C-1010	Hakodate Dock K.K. Hakodate Zosenjo	88, Benten-cho, Hakodate-shi	2094	Steel coal mine cars	Cap: 1 cbm Gauge: 762 mm	120 tons

COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No.of Empls.	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-1011	Honda Tekkosho K.K.	52, Kotoni-cho, Sapporo	135	Winding machines		36 tons
				Conveyors		9 "
				Pumps		16 "
				Steel coal mine cars	Cap: 1 cbm Gauge: 762 mm	18 "
C-1012	Toyohira Seikosho	25-9, Toyohira, Ichijo, Sapporo	279	Blowers		4 tons
				Crushers, screening machines		60 "
				Hoists, bucket elevators belt conveyors		11 "
C-1013	Tsuchida Tekkosho K.K.	Sapporo	118	Chain links		
C-2001	Fukushima Sangyo K.K.	31, Shogatsu-cho, Taira	95	Reciprocating pumps, centrifugal pumps		6 tons
				Compressors	50 HP, 100 HP	2 "
				Conveyors		5 "
				Power transmission equip.		5 "
				Steel coal mine cars	Cap: 1 cbm Gauge: 762 mm	30 "
				Elevators		
C-2002	Joban Tanko K.K. Joban Seisakusho	77, Okanda, Shira-mizu, Uchigo-machi, Ishiki-gun, Fukushima	672	General service pumps		9 tons
				General service blowers		6 "
				Coal separator		3 "
				Miscellaneous coal mining machinery		188 "
				Crushers		1 "
				Conveyors		2 "
				Winding machines	20 HP 200 HP 30 " 400 " 80 "	2 "

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No.of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
				Wooden coal mine cars	Cap: 1cbm Gauge: 762 mm	120 tons
C-2003	Tanabe Seisakusho K.K.	34, Negi-machi, Taira	143	Gears Pumps, turbine and reciprocating Electric winders Fans		0.5 tons 18 "
C-2004	Joban Tanko K.K. Taira plant	20, Domae, Taira	28	General service pumps, turbine and centrifugal Winches	5, 15, 20, 30, 50 mm	7 tons
C-2005	Yoshiken Tekosho, K.K.	67, Nagahashi-cho, Taira	63	Winding machines Coal preparation machinery Reciprocating pumps Turbine pumps Coal washing machines	20 HP, 75 HP	10 tons 7 "
C-3001	Chugai Kakohin K.K. Shirako Seiki Plant	1645, Shimo-Niikura, Yamato-cho, Kitaadachi-gun, Saitama	86	Electric exploders " "	35V, 2A 15V, 1.5A	800 units 200 "
C-3004	Ebara Seisakusho K.K. Kawasaki	50, Kitakase, Kawasaki	524	General service pumps Centrifugal pumps Turbines Air compressors Blowers and fans	 50 mm - 1,30 mm 50 mm - 600 mm	160 tons

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No. of Empls.	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-3005	Fuji Denki K.K. Kawasaki Plant	1, Tanabe Shinden, Kawasaki	1457	Motors, non-standard, expl. proof		20 units
				Motors, non-standard, non-expl. proof		30 "
				Geared motors, expl. proof		40 "
				Switch boxes		100 "
				Controlling devices		30 "
				Mine fans		10 "
				Transformers, standard		5 "
				Transformers, non-standard		4 "
				Switch boards		5 "
C-3006	Furukawa Kogyo K.K. Ashio Seisakusho	150, Ashio-machi, Kamitsuga-gun, Tochigi-ken	690	Rock drills	CA-7, ASHIO-3 ASHIO-17 ASHIO-25	27 tons
				Compressors	50 HP, 100 HP 250 HP	13 "
				Winding machines	50 HP, 75 HP	9 "
				Steel coal mine car	Cap: 1 cbm Gauge: 762 mm	42 "
				Coal washers		80 tons
C-3007	Hitachi Seisakusho K.K. Hitachi Plant	1405, Sukegawa, Hitachi	7707	General service pumps		
				Centrifugal pumps	50 mm - 1,000 mm	
				Turbine	50 mm - 500 mm	
				Motors, standard		3 units
				Motors, expl. proof		6 "
				Motors, non-expl.proof		70 "
				Switch box, dry type		10 "
				Controlling devices		50 "
				Transformers, standard		1 "

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No.of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-3008	Hitachi Seisakusho K.K. Kameari Plant	928, Oyada-machi, Adachi-ku, Tokyo	2215	Centrifugal pumps		30 tons
				Coal cutters	40 HP	15 "
				Jib cranes	20 T, 5 T	30 "
				Ore bridges		100 "
C-3009	Hitachi Seisakusho K.K. Kameido Plant	180, 8-chome, Kameido-cho, Koto-ku, Tokyo	1971	Turbo-blowers	200 HP, 300 HP	2 tons
				Reciprocating compressors	300 HP, 500 HP	25 "
				Motors, standard		2500 units
				Motors, non-standard		5 "
				Non exploding proof Controlling devices		2 "
				Nine fans		35 "
				Small hoists		19 "
				Transformers, standard		800 "
C-3010	Hitachi Heiki K.K. Mito Plant	1060, Takada, Katsuta-machi, Naka-gun, Ibaragi-ken	1034	Portable drills	CA-7	150 units
				Portable grinders		43 "
C-3011	Hitachi Seisakusho K.K. Taga Plant	Kawarago, Taga-cho, Taga-gun, Ibaragi-ken	3954	Motors, standard		2 units
				Switch board, oil immersed expl.proof		30 "
				Switch box, dry type, non-expl. proof		30 "
				Ditto, oil immersed		120 "
				Others		155 "
C-3012	Ishikawajima Jukogyo K.K. First Plant & Third Plant	54, Tsukudajima, Chuoku, Tokyo	1380	Winding machines	35 HP, 50 HP 100 HP	260 tons
				Air compressors	250 HP, 500 HP	
				Turbine fans		

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No.of Empls.	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-3013	Otsuka Kōjo K.K. Main Plant	66, Mita-Toyooka-cho, Minato-ku, Tokyo	149	Crushers		100 tons
				Separators		1 "
				Winding machines	100 HP, 400 HP	
					350 HP, 600 HP	1 "
C-3014	Sanki Kogyo K.K. Kawasaki Plant	2730, Minamiwatada-machi, Kawasaki	611	Conveyors		5 tons
				Coal loaders		
C-3015	Shibaura Seisaku-sho, Kawasaki Plant	2048, Kyo-machi, Kawasaki	405	Main motor (EL use)	29 KW, 32.7 KW	1 ton
C-3016	Tokyo Shibaura Denki K.K. Fuchu Plant	10,000, Fuchu-machi, Kitatama-gun, Tokyo	1307	Switch box, dry type non-expl. proof		20 units
				Controlling devices		300 "
				Switch boards		25 "
				Oil circuit breakers		10 "
C-3017	Tokyo Shibaura Denki K.K. Tsurumi Plant	4, 2-chome, Sue-hiro-cho, Tsurumi-ku, Yokohama	2619	Motors, expl. proof		20 units
				Motors, non-standard, non-expl. proof		20 "
				Switch box, oil immersed, non-expl.proof		20 "
				Transformers, non-standard		10 "
				Switch boards		2 "
				Oil circuit breakers		4 "
				Mercury arc rectifier		
C-3018	Tokyo Tokushu Kogu Seisakusho G.K.	378, Nerimanukui-cho, Itabashi-ku, Tokyo	80	Parts of reciprocating compressors		1 ton

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Locations	No. of Empls.	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-3019	Tone Boring K.K. Meguro Plant	98, 1-chome Shimo-meguro, Meguro-ku, Tokyo	62	Boring machines	No.15, 150, 300, 500, 800, 1,000	11 tons
C-3020	Toshiba Sharyo K.K. Main Plant	10,000, Fuchu-machi, Kitatama-gun, Tokyo	1701	Electric locomotives	Cap: 8 T Gauge: 762 mm	51 tons
C-3021	Nippon Seiko K.K. Tamagawa Plant	309, Shimomaruko, Otaku, Tokyo	861	Ball bearing, roller bearing		21 tons
C-3022	Nippon Seiko K.K. Fujisawa Plant	1375, Konuma, Fujisawa, Kanagawa	2042	Ball bearing, roller bearing		50 tons
C-3023	Honda Denki K.K. Gotanda Plant	1901, 4, Kamiosaki, Shinagawa-ku, Tokyo	216	Safety mine lamps	Alkari type	3750 units
C-3024	Nippon Seiko K.K. Yokohama Plant	40, Dorogame, Isogo-ku, Yokohama	727	Coal pick HE-VO (Hand winch)	CA-7	1 ton 3 tons
C-4001	Fuji Denki K.K. Main Plant	4005, Hanetsu Yokkaichi-shi, Mie		Motors, standard Geared motors, expl. proof Geared, non-expl. proof Mine fans		3900 units 35 " 90 " 100 "
C-4002	Hitachi Seisakusho K.K. Shimizu Plant	390, Muramatsu, Shimizu-shi, Shizuoka	862	Reciprocating compressors Blowers	50 HP, 100 HP 200 HP 10 HP	40 tons 5 "
C-4003	Kinjo Sakuganki K.K. Nagoya Plant	35, 3-chome Edo-machi, Minami-ku, Nagoya	344	Rock drills Compressors Sharpners	CA-7, S-45, R-39 S-49, S-55 100 HP	15 tons 4 " 6 "

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No.of Empls.	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-4004	Meidensha K.K. Nagoya Plant	Nishi-Biwajima-cho, Nishikasugai-gun, Aichi-ken	778	Motors, standard Transformers, standard		800 units 40 "
C-4005	Mitsubishi Denki K.K. Nagoya Plant	18, 1-chome, Yata-machi, Higashi-ku, Nagoya	3410	Motors, standard Motors, expl. proof Switches, non-expl. proof (dry and oil) Controlling devices		3000 units 200 " 600 " 580 "
C-4006	Nihon Gaishi K.K. Main Plant	1, 2-chome Hottadori, Mizuho-ku, Nagoya	2272	Insulators (all types and sizes)		1000 units
C-4007	Taisei K.K. Nagoya Plant	Momonoki, Atsuta-Higashi-cho, Mizuho-ku, Nagoya	307	Rock drills Sharpeners Stoker parts	CA-7, S-55, S-49, R-39, AZ-11 CC-11, S-55	15 tons
C-4008	Takaoka Seisaku-cho K.K. Main Plant	Nishi-Biwajima-cho, Nishikasugai-gun, Aichi-ken	594	Transformers, standard Switch boards		120 units 5 "
C-4009	Tateyama Jukogyo K.K. Main Plant	Shimokui, Toyama-shi, Toyama-ken	1453	Steam locomotives Road roller	Cap: 10 T Gauge: 762 mm ST-6	72 tons
C-4010	Tokyo Shibaura Denki K.K. Mie Plant	2121, Nawatachi, Asahi-mura, Mie-gun, Mie-ken	2450	Motors, standard Motors, non-standard, non-expl. proof Transformers, standard Transformers, non-standard Control apparatus Switch board		1500 units 8 " 600 " 2 "

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No.of Empls.	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-4011	Taisei K.K. Gamagori Plant	Gamagori-cho, Hoi-gun, Aichi-ken	316	Rock drills	CA-7, S-55, S-49, R-39, AZ-11	15 tons
				Sharpeners	IR-50	
C-4012	Daido Seiko K.K. Anjo Plant	Anjo-cho, Hekkikai-gun, Aichi-ken		Wheel and axle	Dia: 300mm Gauge: 762 mm	45 tons
C-4013	Kobe Seiko K.K. Yamada Plant	100, Takebana, Yamada, Mie-ken	1739	Battery engine cars		
C-5001	Kawasaki Sangyo K.K. Akashi Plant	Chasonoba-machi, Akashi-shi, Hyogo-ken	383	Oxygen apparatus for rescue work		
				Breathing apparatus		
				Automatic inhalation apparatus		
				Oxygen refilling pump		
				Oxygen cylinders		
				Cannisters		
				Testing appratus		
C-5002	Kobe Seikosho K.K. Kobe Plant	36-1, 1-chome, Wakihama-cho, Fukiui-ku, Kobe-shi, Hyogo-ken	3577	Wheel and axle	Dia: 300 mm Gauge: 762 mm	36 tons
				Reciprocating compressors	100 HP, 300 HP, 500 HP	12 "
				Wheels for coal wagons	24 HP	
				Steam shovels	$\frac{1}{2}$ q/y; $\frac{1}{2}$ y^3	
C-5003	Mitsubishi Denki K.K. Itami Plant	80, Nakano, Minami-shimizu, Sonoda-mura, Kawabe-gun, Hyogo	2950	Electric locomotives	Cap: 5T, 6T, 10T Gauge: 762 mm	4 units 32 tons
				Battery locomotives expl. proof type	5T, 6T, 10T	
				Transformers, standard		500 units
				Transformers, non-standard		2 "

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No.of Empls.	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
				Switch gears Oil circuit breakers	3300V - 1600A	
C-5004	Mitsubishi Denki K.K. Kobe Plant	3-chome Wadamisaki, Hyogo-ku, Kobe	2332	Switch boards A.C. Turbo Generators	3300V, 50-200 KW 7000 KW	20 units 1 "
C-5005	Nihon Denchi K.K. Shichihonmatsu Plant	Shimotachiuri, Kita-Shitanomoridori, Kamikyo-ku, Kyoto	59	Mercury arc rectifiers		100 units
C-5006	Nihon Denchi K.K.	Ichinodan-machi, Kisshoin Shinden, Shimokyo-ku, Kyoto	1991	Switch gears for mercury arc rectifier Safety mine lamps lead type Mercury arc rectifiers		35 units 12,500 "
C-5007	Nihon Yusoki K.K. Main Plant	Kotari, Shin-kotari-mura, Otokuni-gun, Kyoto	789	Battery locomotives	Cap: 2-20T Gauge: 762 mm	8 units 48 tons
C-5008	Nisshin Denki K.K.	20, Umetsu, Takaune-cho, Ukyo-ku, Kyoto	531	Switch boards Static condensers Watt-meters Ammeters Circuit breakers	22 KV, 400A 600A	20 units 20 sets
C-5010	Osaka Henatsuki K.K. Main Plant	14, 3-chome Motoimasato, Kita-dori, Higashi-Yodogawa-ku Osaka	365	Transformers, standard Transformers, non-standard A.C. Arc welders		3000 units 3 " 30 "

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No. of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-5011	Seiki Kogyosho, K.K.	467, Kamisakabe, Sonoda-mura, Yamabe-gun, Kyoto	98	Geared motors	3 HP, 5 HP, 7.5 HP, 10 HP 15 HP, 20 HP	80 tons
				Gears (spare parts)		
C-5012	Shimazu Seisaku-sho, K.K.	18, Nishinokyo-Kuwa-bara, Nakakyo-ku, Kyoto	1523	Gears		
				Geared motors	3 HP, 5 HP, 10 HP 15 HP, 20 HP, 25 HP	130 tons
				Motor winches	15 - 50 HP	
C-5013	Tokki Seisakusho, K.K.	16, 3-chome Chodo, Fuse-shi	43	Coal drills (type 200 and 600)	3/4 HP - 1½ HP	70 units
				Mine fans	1 - 10 HP	20 "
C-5014	Tokyo Shibaura Denki K.K. Aboshi Plant	Matsukawa-machi, Iho-gun, Hyogo-ken	1988	Motors, non-standard, non-expl. proof		10 units
				Motors, expl. proof		20 "
				Oil switch box, expl. proof		20 "
				Switch, expl. proof, dry type		50 "
C-5015	Torishima Seisaku-sho K.K.	173 Tomida-machi, Mishima-gun, Osaka	314	Centrifugal pumps	160 mm - 260 mm	
				Axial flow pumps	55 mm - 260 mm	200 tons
				Vacuum pumps		
				Pump parts		
C-5016	Tsubakimoto Chain Seisakusho K.K. Main Plant	620, Tsurumi-machi, Joto-ku, Osaka	604	Chain conveyors	C-60, C-62, C-64, C-82	35 tons
				Chains (roller chain type)	1040, 1050, 1060, 1080, 1100, 1120, 1140, 1160, 1200	80 "

COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No.of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-5017	Nihon Denchi K.K. Kujo Plant	19, Minamida, Nishi-kujo, Shimokyo-ku, Kyoto	488	Safety mine lamps, lead-acid type, alkaline type		3750 units
C-5018	Yuasa Denchi Seizo K.K.	Kosakabe, Takazuki, Osaka-fu	1060	Safety mine lamps, lead-acid type Storage batteries for elect vehicle Tunger charger		2530 units
C-5019	Anzon Sakudo K.K.	10, 1, Noenakano-machi, Joto-ku, Osaka	200	Wire feed machines	10T, 30T, 80T	120 tons
C-6001	Mitsubishi Jukogyo K.K. Shimonoseki Zosenjo	1-130-2, Hikojima, Shimonoseki	1620	Steel coal mine car Parts of coal cars	Cap: 30-80 cubic foot Gauge: 762 mm	250 tons
C-6002	Toyo Kogyo K.K. Main Plant	6047, Shinchi, Fuchu-machi, Aki-gun, Hiroshima-ken		Rock drills Rock drill accessories	CA-7, R-39, S-49	30 tons
C-6003	Ube Kosan K.K. Ube Tekkosho	1978-19, Kogushi, Ube-shi, Yamaguchi-ken	1162	Shaft Toothedwheel Pulverizer Crushers Derricks Ore bridges Turbine pump Hoists	 Crane 8T Winding 30 HP Machine 100 HP 60 HP, 100 HP, 200 HP 10 HP, 30 HP, 50 HP, 100 HP, 200 HP	2 tons 2 " 5 " 5 " 2 " 9 " 12 "

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No. of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-6004	Yamamoto Tekkosho K.K. Tojo Plant	36, Tojo-machi, Hiba-gun, Hiroshima-ken	151	Rock drills	CA-7, S-45, R-39, S-49, S-55, AZ-11	26 tons
				Air machines (hoist)		4 "
C-7001	Shikoku Kikai K.K. Main Plant	31-9, Otsu Niihama-shi, Ehime-ken	3072	Cyclogears		4 tons
				Cranes		275 "
				Steel coal mine car	Style: 1 cbm Gauge: 762 mm	90 "
				Turbine pump	125, 180	-
				Winding machine	150 KW 400 HP	
					250 KW 600 HP	
					350 KW	-
				Compressors	300 KW, 100 KW	-
				Geared motors, expl. proof		2 units
				Geared, non-expl.proof		15 "
				Motors, standard, non-expl. proof		37 "
				Motors, standard		300 "
				Transformers, standard		180 "
				Hoist, small		1 "
				Switch boxes, oil immersed, non-expl.proof		4 "
C-8001	Asahi Seikosho K.K. Main Plant	159, Kyo-machi, Kurume-shi, Fukuoka-ken	303	Wheel and axle	Dia: 300 mm Gauge: 762 mm	5 tons
				Coal car wheels	Dia: 9", 12"	
				Forged steel shafts		
				Roll tires		

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No. of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-8002	Hie Tekkosho K.K.	463-1, Hie, Fukuoka	95	Coal cutters Separators	40 HP, 50 HP	15 tons
				General service pumps (turbine pump)		7 "
				Hoists	10 - 15 HP	
				Engines for chain conveyors		
				Valves for chain conveyors		
				Chains for chain conveyors		
C-8003	Hitachi Seisakusho K.K. Tobata Plant	3-chome, Meiji-machi, Tobata-shi	858	Wheels and axles	Dia: 300 mm Gauge: 762 mm	54 tons
				Center buffers		
				Parts of coal cars		
C-8004	Hitachi Seisakusho K.K. Wakamatsu Plant	148, 9-Kai, Ebisu-dori, Wakamatsu	578	Turbine pumps	150 mm, 175 mm 3-7 stages	30 tons
C-8006	Imamura Seisakusho K.K. Wakamatsu Plant	1, 6-chome Soto-machi, Wakamatsu-shi	426	Coal separator	50 tons/hr	150 tons
				Belt conveyors (coal dressing plant)	600 mm	33 "
C-8007	Imamura Seisakusho K.K. Wakatsu Plant	22 4, Mukajima, Okawa-machi, Mitsuma-gun, Fukuoka	448	Turbine pumps	200 HP	20 tons
				Air compressors	75 HP	70 "
				Conveyors		20 "
				Steel coal mine cars		60 "
C-8008	Iwamoto Tekkosho	16, Chiko Hokoku-cho, Nogata-shi, Fukuoka	109	Other transporting machines Winding machines Toothedwheel gears Chain drives Derricks Other transmission equipment		33 tons

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No. of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
				Crushers		25 tons
				Other pumps		12 "
				Water tube boilers		
				Other boilers		
				Conveyors		
C-8009	Kobukuro Kosakusho K.K. Main Plant	215, Kobukuro-machi, Kaho-gun, Fukuoka-ken	396	General service pumps		5 tons
				Crushers		2 "
				Roller screen		18 "
				Screening machines		1 "
				Winding machines	30 HP, 50 HP, 100 HP 200 HP, 250 HP, 300 HP, 400 HP	10 "
				Belt conveyors	900 mm	2 "
				Bucket elevators		1 "
				Steel coal mine car	Cap: 1 cbm Gauge: 762 mm	36 "
C-8010	Kokura Seisa Tekko K.K.	721, Sunatsu-Kita-Yamagoe	84	Connection chain (coal mine car use)	1-20 Link chains	
				Rope sockets		
C-8011	Kunihiro Seikan Kojo, Kunihiro Hagiri Plant	331, 2-chome Susaki-machi, Nogata-shi	63	Conveyors		19 tons
				Parts of bucket Elevator		
				Parts of conveyors: Chain troughs Roller		
				Gear for: Winding machines Coal machine Endless machine		

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No.of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-8012	Kyushu Yusoka Seisakusho K.K. Main Plant	707-4, Chiko, Nogata-shi	133	Wheel and plain bearings	Dia: 300 mm	5 tons
				Bucket rollers		
				Elevator rollers		
				Turbine valves		
				Impellers		
				Electrodes		
C-8013	Mitsubishi Denki K.K. Fukuoka Plant	690, Imashuku Aoki, Fukuoka	579	Motors, standard		300 units
				Geared motors, expl. proof		40 "
				Geared motors, non-expl proof		10 "
				Emergency switch, expl. proof		10 "
				Rush button switch, expl. proof		300 "
				Small hoists		5 "
C-8014	Mitsubishi Denki K.K. Nagasaki Plant	122, Hiratokoya-machi, Nagasaki	1757	General service blowers		16 tons
				Air compressors		6 "
				Digging machines		12 "
				Winding machines		
				Pumps		12 "
				Motors, non-standard, expl. proof		20 units
				Ditto, non-expl.proof		30 "
				Switch-boards		
				Switches, expl. and non-expl.proof		60 "
				Line fans		15 "
				Gears		
				Magnetic field regulators		

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No. of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-8015	Mitsubishi Jukogyo K.K. Nagasaki Zosenjo	71, Shinoe-machi, Nagasaki	10698	Steel coal mine car	Cap: 2 cbm Gauge: 762 mm	250 tons
				Carriers for belt		
				Bucket and link for elevator		
				Guide vane pumps		
				Reversing channel pumps		
				Condensate pumps		
				Parts of turbines: Diaphragms		
				Frames of coal cars		
				Galvanized coal boxes		
				Coal selectors		
				Worm wheel for coal selector		
C-8016	Mitsui Kozan K.K. Miike Plant and Watase Plant	33, 2-chome Asano-machi, Omuda-shi	3447	Parts of prime movers		
				Combustion equipment		
				Digging machines		
				Rock drills		100 tons
				Coal cutters		
				Crushers		
				Separator		
				Coal mining machines		
				Cranes		
				Winding machines	400 HP	
				Conveyors		12 "
				Jacks		
				Transporting machines		
				General service pumps	25 HP(turbine pump) 60 HP, 150 HP, 250 HP, 450 HP, 600 HP	30 "
				Hydraulic presses		

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No. of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
				General service blowers		
				Air compressors	200 HP, 400 HP	2 tons
				Steel coal mine car	Style: 1 cbm	
					Gauge: 762 mm	42 "
				Motors, expl.proof	15 KW	15 units
				Geared motors, expl.proof	15 KW	6 "
				Coal drills		50 "
				Hoists	10, 15 KW	8 "
C-8017	Nagata Seisaku-sho, K.K. Main Plant	1, Kai 3-chome Tokiwa-machi, Wakamatsu-shi	470	Shafts Belt drives Chain " Gears Pulleys Power transmission equip.		16 tons
				Coal separators Coal mining machines Crushers Pulverizers Screening machines Belt conveyors Machine " Other "		150 "
				Pipe fittings Valves & cocks		
				Steel coal mine cars	Cap: 1 cbm Gauge: 762 mm	42 "
				Over-head travelling crane Sprocket wheels and flanges		
C-8018	Nippon Taiya K.K. Nogata Plant	21, Chiko Taihei-sho, Nogata-shi	168	Separator		25 tons
				General service pumps	30 HP, 70 HP	4 "
				Belt conveyors	710 mm	8 "

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No.of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
C-8020	Okabe Tekkosho K.K. Main Plant	Koga-machi, Kasuya-gun, Fukuoka-ken	116	Steel coal mine car	Cap: 1 cbm Gauge: 762 mm	18 tons
				Ball bearings Carrier rollers of belt conveyors		
C-8021	Seibu Denki Kogyo K.K. Main Plant	861, Kubo Koga-machi, Kasuya-gun, Fukuoka-ken	252	Geared motors		5 units
				Switches, oil immersed, expl. proof		50 "
				Mine fans		80 "
				Coal drills		100 "
C-8022	Takamiya Tekkosho	Kawakubo, Chiko-Daiiku, Nogata-shi	62	Separators (roller screen)		
				Winding machines	35 HP, 60 HP	
				Conveyors (belt) General service pumps		72 tons
				Air compressors	50 HP	
C-8024	Tatara Seisakusho K.K. Main Plant	6, Hitarai Shimo-machi, Kasuya-gun, Fukuoka	485	Winding machines	100 HP, 300 HP	
				Conveyors Bucket elevators Crushers (double roll crushers)		60 tons
				Separator		70 "
				Gas compressors	100 HP, 200 HP	
				Steel coal mine car	Style: 1 cbm Gauge: 762 mm	18 "
C-8025	Toa Koko K.K. Hainuzuka Plant	324-1, Hainuzuka-machi, Yame-gun, Fukuoka-ken	311	Steel coal mine car	Style: 1 cbm Gauge: 762 mm	60 tons
				Compressors	200 HP	
				Rotary pumps		5 "

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No of Empls	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
				Axial flow pumps Conveyors (chain) Winding machines	10 HP, 80 HP	
C-8026	Togami Denki Seisakusho K.K.	385, Odakara-cho, Saga-shi	517	Circuit breaker, expl. proof		110 units
				Switch board, expl.proof		30 "
				Switch, expl. proof		180 "
				Switch, manual operated, cutting edge use		180 "
				Ditto, magnetic operated		130 "
				Magnetic switch, dry type, non-expl.proof		400 "
				Switch board, oil immersed non-expl.proof		40 "
				Oil circuit breaker		50 "
				Pole oil switch non-expl proof		300 "
				Pole oper lead circuit braker, non-expl.proof		80 "
C-8027	Wakamatsu Sharyo K.K.	41, 2-chome Tokiwa-machi, Wakamatsu-shi	410	Steel coal mine car	Style: 2 cbm Gauge: 762 mm	200 tons
C-8028	Yasukawa Denki Seisakusho, Main Plant	Fujita, Yawata-shi	2203	Motors, standard		900 units
				Geared motors, expl.proof		85 "
				Motors, expl. proof		280 "
				Motors, non-standard, non-expl.proof		20 "
				Switches, expl. proof, dry type		400 "
				Ditto, oil immersed type		100 "
				Switches, non-expl. proof, dry type		30 "

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COAL MINING EQUIPMENT DATA

Code Number	Name of Company	Location	No. of Empls.	Type of Coal Mining Equipment Produced	Size	Monthly Capacity
				Ditto, oil immersed		40 units
				Controlling device		50 "
C-8029	Kita Kyushu Koki K.K.	Kamishiniri, Nogata-shi	114	Pumps Coal cars		
C-8030	Nishi Kyushu Koki K.K.	Shiniri, Nogata-shi	48	Pumps Coal cars		
C-8031	Nogami Seikosho Main Plant		198	Steel coal mine car		
C-8032	Toa Kogyo K.K. Main Plant	1, 167, Tanabe, Nogata-shi	80	Reciprocating compressors		1 tons
				Pulverizers	15 tons/hr.	
				Winding machines	10 HP, 15 HP, 30 HP, 50 HP	13 "

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SECTION II

A. Items of machinery and equipment which are controlled by the Government but which can be purchased from any manufacturer.

1. Electric Motors

a) Single Phase: from 35 watts to 150 KW (1/20 H.P. - 200 H.P.)

b) Triple Phase: from 400 watts to 75 KW (1/2 H.P. - 100 H.P.)

Note: Motors for cranes, elevators, winding machines and spinning machines do not belong to this category.

2. Standard Transformers (1 KVA - 200 KVA)

B. Items which may be controlled by the Government at a future date but which as yet can still be ordered directly from the manufacturers:

1. Coal Cars

2. Parts of Coal Cars

3. Rock Drills

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file M-2-G

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS
Natural Resources Section

Preliminary Study No. 3

QUALITY AND USES OF JAPANESE COAL AND LIGNITE

PURPOSE OF THE REPORT

1. Coal, basic to the minimum economy of Japan and of vital importance to the Occupation Forces, is critically scarce. A partial solution to the coal problem is the provident use of available solid fuel. This can be attained through a system of controlled distribution on the basis of heating value of the available supply and the heating value requirements of the consuming agencies. This study of the heating value of the Japanese solid fuel supply provides data which may be used in planning distribution.

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(1)

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

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS
Natural Resources Section

Preliminary Study No. 3 a/

QUALITY AND USES OF JAPANESE COAL AND LIGNITE

A. Introduction

1. In discussing the heating value of Japanese coals and their various uses, it should be remembered that they are generally inferior to American coals. Japanese methods of subjecting coal to analysis, particularly in determining the coking value, differ to some extent from American methods with slight differences in results. In the English-speaking countries, coals are usually graded by sizes (lump, egg, nut, or pea). In Japan the coals are normally graded by numerical classifications (first grade, second class, or similar terms) as determined by the calorific value and the ash content. The classes of coal are further classified to include lump, egg, nut, and dust.

B. Classification of Coal

1. Proximate Analysis

a. The most convenient commercial classification of coal by accepted standards is based on the relative content of combustible materials, both fixed carbon and volatile hydrocarbons. Chemists usually report the composition of coal in the form of a proximate analysis in which the constituents are stated in the various combinations in which they appear in the coal. These are moisture, fixed carbon, volatile matter, and ash. The percentages of these should total 100. Fixed carbon is the chief heat-producing constituent of coal, so that, the amount of impurities remaining the same, the relative heating values of coal are fairly well determined by a comparison of their fixed carbon content. Volatile matter, or volatile hydrocarbons, is that part of the coal that is driven off as a combustible gas when the coal is heated. When a large percentage of volatile matter is present, coals ignite easily, burn with long yellow flame, and give off dense smoke. The relative proportions of volatile matter and fixed carbon in a coal determine its adaptability to any particular purpose. The information in the following table is basic for understanding coal classification:

a/ This Preliminary Study was prepared by Capt Charles S. Merriam, Mining and Geology Division.

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COAL CLASSIFICATION

Classification	Percentage of Fixed Carbon (FC)	Percentage of Volatile Matter (VM)	Fuel Ratio FC/VM
Anthracite	75 to 90	2. to 7.5	10 to 50
Semianthracite	75 to 80	7.5 to 12	6 to 10
Semibituminous	60 to 80	12 to 25	3 to 7
Bituminous (low moisture)	50 to 70	25 to 38	2 to 3
Bituminous (high moisture)	40 to 50	30 to 40	1 to 2
Subbituminous	30 to 45	30 to 35	1
Lignite	25 to 40	20 to 30	1

Source: Coal Miners' Pocketbook, 12th Edition
Note : This classification is accepted by the Japanese

b. This classification is arbitrary and coals in any one group overlap other groups at either end of the scale. This is particularly true of the lignites, the better grades of which cannot be distinguished from subbituminous coal if the proximate analysis is made the criterion. According to the proximate analyses from all of the producing districts of Japan, most of the coal of Japan is in the bituminous (high moisture) class. Only three percent of Japanese coals may be classed as anthracite; this coal is found in the Kumano and Omine coal fields, Honshu, and Amakusa coal fields, Kyushu. A considerable amount of lignite is mined on Honshu in the Nobi, Mie, Kitakami, and Mogami coal fields. The primary distinction between subbituminous coals and lignite is generally one of color; the former is black and the latter brown. Typical proximate analyses from several of the representative mines in Japan are shown in Table 1.

2. Grades of Coal and Sources

a. The sales specifications of Japanese coal made by the Japan Coal Company establish these five grades of coal:

SALES SPECIFICATIONS OF JAPANESE COAL

Grade	Type or Use	Determining Factors
1st	General (boiler use)	Calories and ash content
2nd	Coking coal	Calories, ash, VM, FC, moisture and sulphur
3rd	Gas-producing	Calories, ash, rate of expansion, melting point of ash
4th	Anthracite	Calories
5th	Natural coke (Senseki)	Calories and ash content

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b. The chief sources of each of the foregoing grades, are shown by the following tables, giving production by districts for the month of October 1946 (a typical month), and the average percentages of each grade by districts for the period November 1945-October 1946:

PRODUCTION BY GRADES OF COAL AND DISTRICTS, OCTOBER 1946

	Kyushu	Hokkaido	E. Honshu	W. Honshu	Total
Coking coal	245,606	80,169	none	none	325,775
Gas producing	94,274	34,427	none	none	128,701
Boiler coal	627,704	307,260	216,522	126,882	1,278,368
Anthracite and natural coke	23,981	none	3,908	30,620	58,509
TOTAL	991,565	421,856	220,430	157,502	1,791,353

SOURCES AND PERCENTAGES OF PRODUCTION ALL GRADES OF COAL
(Average for period November 1945-October 1946)

District	Coking	Gas	Boiler	Anthracite and Natural Coke	Total
Kyushu	75.0	73.0	49.0	41.0	55.0
Hokkaido	25.0	27.0	24.0	none	23.6
Eastern Honshu	none	none	17.0	7.0	13.0
Western Honshu	none	none	10.0	52.0	8.4
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%

Source: Coal Board, Ministry of Commerce and Industry

3. Classes of Coal

a. Each grade of coal is further classified according to calorific values and ash content, as shown in Table 2. Where the percentage of ash is not shown in the second and fourth grades in the table, it is presumably not considered essential to the classification by the Japan Coal Company, which makes distribution of coal to the various industries according to the calorific value of coal required for manufacture of their products. Table 3 lists the principal industries furnished coal and shows the maximum and minimum calories required for each. Orders for coal from the consumers usually specify a particular class of the grade of coal desired. The Japan Coal Company in making mnthly distribution attempts to give the users a coal meeting the requirements as closely as possible.

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b. The Imperial Fuel Research Institute, an agency of the Japanese Ministry of Commerce and Industry, prepared a confidential report in 1942 tabulating 1,517 samples of coal from all parts of Japan. This report served as a guide for distribution and utilization of coal during World War II. Problems in administering the flow of coal from producer to consumers were said to have been eased by the information contained in the report because it made possible the selection of substitute coals having properties similar to those in which shortages occurred. The data shown in Table 1 were obtained from this report. A later tabulation of coal analyses, covering samples taken during 1 Apr - 30 Jul 46, analyzed by the assay laboratories of the Japan Coal Company agrees closely with the analyses in the earlier report.

C. Lignite

1. General

a. Available records and reports found in Japanese publications indicate that lignite was widely used during World War II as a coal substitute. Present coal shortage and transportation difficulties are again focusing attention on lignite.

b. Lignite mines are situated in the Tohoku, Kanto, Tokai, Kinki and Chugoku districts on Honshu, on Shikoku, and a few places on Kyushu. At the end of 1944, 1,386 lignite mines were producing in Japan. An estimated 1,300 mines are now in operation. Production figures by districts for 1 Apr 45 - 31 Mar 46 are shown in Table 4. Production for Apr - Sep 46 amounted to 1,157,901 metric tons, indicating a 100 percent increase over fiscal year 1945-46. (Japanese fiscal year is April through March).

2. Uses of Lignite

a. Lignite is generally a poor fuel, but when mixed with a good grade of bituminous coal, is satisfactory for general heating purposes. A mixture of 30 percent lignite with good coal has been used satisfactorily by light engines on short railroad spurs. The volatile matter in lignite is so much lower than in ordinary coal that its flame is not long enough to heat boilers properly. Furthermore, the ash content is so high that grate bars clog quickly, thus choking the fire. This is the chief reason why lignite cannot be used on long runs by railroad engines.

b. The best grades of lignite (probably bordering on subbituminous coal) may be coked. The resultant coke contains about 20 percent of the volatile matter of the original lignite and produces little smoke when burned. This makes it useful for household heating and automobile fuel. It is glossy, soft, and noncohesive. The powdered

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lignite remaining from the coking process (known in the coal industry as "coke breeze"), is used with a fireclay binder in making briquettes for domestic heating.

c. During World War II, lignite was used successfully in such industries as textile and porcelain manufacture, which ordinarily require a coal of low calorific value. A comparative table of consumption of lignite and coal by various industries during 1944 is in Table 5. A list of industries now using lignite alone, or as a supplemental fuel, and the amounts consumed by these industries during April - September 1946 is in Table 6.

3. Grades of Lignite

a. While lignite is still used considerably in light industries, no accurate data are available at this time to show what calorific values of lignite are required by the various industries. However, the average Japanese lignite has a fuel value of 4,500 calories a kilogram. The best grades may have as high as 6,100 calories, while the poorer grades will average about 3,000 calories or less. The general classification of lignite as fixed by the Lignite Section of the Coal Board is:

LIGNITE CLASSIFICATIONS

Class		Kilograms Calories
1st	More than	4000
2nd		3500 to 4000
3rd		3000 to 3500
4th	Under	3000

The National Lignite Federation, the Lignite Section of the Coal Board, the Japan Coal Company, and other agencies are seeking additional uses for lignite, either alone or mixed with bituminous coals.

TABLE 1. - PROXIMATE ANALYSES OF SOME JAPANESE COALS

Field	Mine	Moisture	Volatile Matter	Fixed Carbon	Ash	Sulphur	Caloric Content	Coking Index
Kyushu								
Chikuho	Koho	2.8	36.44	38.03	22.77	1.75	5998	1.84
	Futase	2.99	38.33	46.79	11.89	1.68	7091	2.13
	Kanda	3.39	36.51	43.96	17.36	3.54	6813	4.15
Kitamatsu	Shikamachi	1.51	24.49	59.51	14.49	0.83	7254	7.42
Nishisonoki	Ashima	1.34	35.21	47.03	16.42	1.82	6896	6.84
	Shima	2.11	34.04	56.29	7.56	1.29	7619	5.05
	Futago	1.44	32.97	60.83	4.76	0.44	7905	5.82
Miike	Manda	1.60	42.19	40.87	15.34	3.48	6998	5.93
	Yotsuyama	1.92	35.12	43.08	19.88	2.41	6588	6.38
Hokkaido								
Ishikari	Shinutashinai	1.07	36.64	36.47	20.02	0.45	7579	4.56
	Sumitomo	1.29	32.79	38.02	27.90	0.47	6094	5.55
	Moshiri	1.11	44.13	47.53	7.03	1.85	7809	2.25
	Toyosato	0.91	34.65	54.80	9.64	1.48	7260	4.29
	Yubari	0.95	40.81	51.06	7.18	0.38	7780	6.23
Rumoe	Owada	2.21	41.92	48.30	7.57	0.38	7738	1.63

Use of Coking Index: Over 5.01 — 5.00 - 2.51 — 2.50 - 1.51 — less than 1.50
Coking Power --------Very Strong — Strong — Mod Strong — Weak

Source: "Characteristics of Japanese Coals", Report 12
Imperial Fuel Research Institute, Dec 42

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TABLE 2. - STANDARD CLASSIFICATION OF COAL BY GRADES

First Grade (Boiler)

Class	Kilogram Calories	Percent Ash
"A" (Kyushu and Hokkaido)		
Special	7000	13.0
1st	6400	17.5
2nd	5800	25.5
3rd	5100	34.5
4th	4500	42.5
5th	3800	51.5
"B" (Joban)		
Special	5900	18.0
1st	5300	24.0
2nd	4700	32.0
3rd	3900	47.5
4th	3500	48.5
5th	3000	55.0
"C" (Ube)		
1st	5300	19.0
2nd	4700	27.5
3rd	3900	38.0
4th	3300	46.0
5th	3000	50.0

Second Grade (Coking Coal)

Special 1st	7100
Special 2nd	6800
Special 3rd	6500
1st	6200
2nd	5900
3rd	5600
4th	5300
5th	5000
6th	4700
7th	4400

Third Grade (Gas Producing)

Special	6800	12.0
1st	6500	16.5
2nd	6200	21.0
3rd	5900	22.5

Fourth Grade (Anthracite)

Class	Kilogram Calories	Percent Ash
1st	8000	
2nd	7500	
3rd	7000	
4th	6600	
5th	6300	
6th	5800	
7th	5300	
8th	4800	
9th	4300	
10th	4000	
11th	3800	

Fifth Grade (Natural Coke)

Special	7000	13.0
1st	6400	17.5
2nd	5800	25.5
3rd	5100	34.5
4th	4500	42.5
5th	3800	51.5

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TABLE 3. - CALORIES OF COAL REQUIRED BY JAPANESE INDUSTRIES

Use or Industry	Calories Required Maximum	Minimum
Gas and coke	7200	6200
Allied Forces	7000	5800
Iron and steel	7000	6200
Plate glass	7000	6000
Railways	6400	5100
Bunkering	6400	5800
Electric generation	6400	5100
Chemical fertilizer,	6400	4700
Mining and refining	6200	5100
Metal industries	6200	5100
Glassware	6200	5800
Salt	6200	3300
Soda	6100	5100
Cement	6000	5100
Porcelain and pottery	6000	5100
Fireproof brick	6000	5100
Chemical industries	6000	4800
Miscellaneous ceramics	5800	4800
Foodstuffs	5800	4200
Government and public use	5600	4500
Textiles	5400	4500
Domestic heating	5400	4500
Lime and dolomite	5300	4300
Briquettes	5300	3800

Source: Japan Coal Company

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TABLE 4. - PRODUCTION OF LIGNITE BY MINING DISTRICTS FISCAL YEAR 1945-46
(metric tons)

District	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Honshu					
Tohoku	177,365	153,152	145,344	293,267	769,128
Kanto	42,815	32,312	30,003	59,790	164,920
Tokai	170,440	80,268	68,496	195,264	514,468
Kinki	39,676	31,113	18,955	43,919	133,663
Chugoku	12,144	6,754	6,125	4,592	29,615
Shikoku	3,959	1,355	1,396	3,775	10,485
Kyushu	5,137	3,523	3,430	4,994	17,084
TOTAL	451,536	308,477	273,749	605,601	1,639,363

Source: Lignite Section, Coal Board

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TABLE 5. - COMPARATIVE CONSUMPTION OF LIGNITE AND COAL FISCAL 1944

Industry	Lignite Itemized	Lignite Total	Coal Itemized	Coal Total
	(metric tons)		(metric tons)	
Briquette & coke		318,850		1,209,000
Ceramics		51,590		2,107,000
Chemicals		227,584		4,982,000
Domestic uses (heating, cooking & bathing)		392,821		3,345,000
Food				
Bean products, sake & beer	90,188		181,700	
Others	83,582	173,770	575,300	757,000
Iron & steel		299,621		11,282,000
Fibers & textiles				
Paper	122,302		269,700	
Dyeing	93,884		169,800	
Others	400,572	616,758	559,500	999,000
Lignite mining		220,311		0
Others		None		27,470,000
TOTAL		2,301,305		52,157,000

Source: Coal Board and Japan Coal Co, Ltd

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TABLE 6. - LIGNITE CONSUMPTION BY INDUSTRIES, April-September 1946
(metric tons)

Industry	Tonnages Itemized	Total
Lignite mining		96,140
Briquettes and coke products		94,326
Ceramics		
Porcelain	43,123	
Glass	2,676	
Brick	12,534	
Pipe	4,307	62,640
Chemicals		
Soda industry	945	
Synthetic organic chemicals	17,507	
Dye-Stuff and intermediates	5,690	
Leather	26,051	
Gum products	2,095	
Medicines	28,007	
Insecticides	5,969	86,264
Chemical fertilizer		
Carbide	5,145	
Potassium phosphate	5,564	10,709
Domestic uses		
Heating and cooking	52,545	
Bathing	76,180	128,725
Food		
Bean sauce	11,643	
Other bean products	13,069	
Canned goods	8,751	
Salt	21,697	
Sake, beer, and liquor	26,540	81,700
Machinery		59,594
Metal products		
Nonferrous products	13,946	
Daily necessities	10,202	24,148
Paper		54,391
Raw silk		58,736
Textiles		
Chemical fibers	24,258	
Cotton, spinning and weaving	43,136	
Wool, spinning and weaving	30,531	
Hemp, spinning and weaving	11,011	
Silk and rayon, spinning and weaving	28,618	
Dyeing processes	49,489	187,043
Allied Forces		1,084
Others		175,723
TOTAL		1,121,223

Source: Coal Board

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LIST OF NATURAL RESOURCES SECTION PRELIMINARY STUDIES

Preliminary Study No 1,	Formosan Metal and Mineral Statistics	29 Oct 46
Preliminary Study No 2,	Coke in Japan	15 Nov 46
Preliminary Study No 3,	Quality and Uses of Japanese Coal and Lignite	31 Dec 46

DISTRIBUTION

Chief of Staff	1
Deputy Chief of Staff, SCAP	1
CG Eighth Army (Attn: Econ Sec MG)	2
Liaison Officer, Eighth Army	1
Headquarters Eighth Army	15
Headquarters I Corps	22
Headquarters IX Corps	10
Regional MG Teams	25
Prefectural MG Teams	65
CG XXIV Corps (Attn: CG USAMGIK)	2
CG XXIV Corps (Attn: Engineer)	1
G-1	1
G-2 (MDI)	2
G-3	1
G-4	2
Diplomatic Section	3
Office of the Chief Engineer	1
Office of the Chief Quartermaster	1
General Procurement Agent	1
Public Relations Office	1
Transportation Section	1
Economic and Scientific Section	16
Statistical and Reports Section	2
Natural Resources Section:	
Chief of Section	10
Each division	1
Historian	1
Library	2
Mining & Geology Division File	25
Technical Adviser	1

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Calorie content

Low class coal of the Ube district(bituminous)

Followings are calories of high,middle and low class coal of the Ube district.

High class coal ; More than 5,500 Calories
Middle class coal : 4,500 to 5,500 Calories
Low class coal : 3,500 to 4,500 calories

Followings are comparision between coal output of each class of late and coaloutpu of corresponding month of last year(before decontrol of coal).

		June	July	Aug.	Total	%
High class coal	1949	17,665ton	27,746 ton	25,063 ton	70,474 ton	107
	1950	33,504	33,008	30,007	96,519	21.8
Middle class	1949	56,107	51,372	58,796	166,275	25.3
	1950	77,042	70,784	64,308	212,134	47.7
Low class	1949	149,760	139,225	130,821	419,806	64.0
	1950	61,787	62,115	61,436	185,338	30.5
Total	1949	223,532	218,343	214,680	656,555	
	1950	172,333	165,907	155,751	493,991	

Viewing from this tabl,percentage of low class coal output is decreased to half as compared with last year's,it is due to cancellation of mining at low quality coal seam,especially due to strenghten up their coal dressing.

For instance, followingresult are shown when it is compared with number of dressing machinery before and after decontrol of coal.

	Picking Band	Coal Washer
Before decontrol:	17 coal mines	7 coal mines
After decontrol	21	15
Installing at present	2	2

Followings are the amount of Yamaguchi coal(bituminous)(excluding Kyushu coal) which are to use in 32 factories in Yamaguchi Prefecture.

High class coal	Middle class coal	Low class coal	total
28,170 ton	369,441 ton	803,744 ton	1,201,355 ton
2.3%	30.7%	67.0%	100.0%

After all, low class coal is 67 % of Yamaguchi coal and it is being used mainly

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After all, low class coal is 67 % of Yamaguchi coal and it is being used mainly at these factories.

Followings show the factories and their amount of use of low class coal.

Metal industry	2,085 ton	Ferilizer	228,240 ton
Soda	117,580	Electric Generation	400,000
Spining	12,985	Medcine	2,070
Gun powder	3,370	Sake(wine)	37,390
Iron factory	24		
		Total	803,744

Fertilizer, soda, and electric generation has taken 93 % Of the amount.

Their size of the coal used by them is as follow.

Lump Coal	Egg Coal	Fine Coal	Total
3,594 ton	1,575 ton	798,575 ton	803,744 ton

The fine coal is almost the whole of the use,

Kind of use is as follow.

Drying	1,104 ton	Electric generation	734,600 ton
Heating	60 ton	Boiling	5,100 ton
Steaming for factory	62,160 ton	Reverberatory furnace	720 ton
		Total	803,744 ton

Electric generation and steaming for factory are the whole of use.

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Viewing from these mentioned above, it shows the low class coal is used for powder conbustion, so that low class lump coal is being made of fine coal by crusher at present.

However, there is one thing to think about it.

Ube coal has highest position in the nation as an evaporation by low temperature, and more they have a specility that their volatility does not show so much difference as heating amount, as shown following table.

Classification	Okinoyama Itsudan Lump	Okiube Sanjyakukami Mixed	Onoda Nanako Lump
Water moisture	9.94%	10.34 %	7.23%
Ash	17.01	24.34	41.18
Volatil~~ity~~ matter	39.10	36.68	30.46
Carbon	33.95	28.64	21.13
~~Heating amount~~ Calorific value	5.427	4.695	3.718

Percentage of middle, low class coal as a high class coal is 1, is as follow.

	High class coal	Middle class coal	Low class coal
Heating amount	1	0.865	0,685
Volatility	1	0.938	0.780

So that, effective utilization of Ube coal, is to use the lump coal to ~~evaporation~~ carbonization and fine coal to ~~powder combustion~~ pulverized coal firing.

These, after ~~evaporation~~ carbonization, supply the tar to our nation which have not much oil resources and is to utilize the gases to ammonium suphate manufacturing, or fuel of electric generation and low temperature industry such as glass industry.

We mentioned about the coal having more than 3,500 calories on this writtings, however, coal having 2,500 to 3,500 calories can be used for evaporating industry. During war time, evaporation of refuse had been done at every where, but only Okiube coal mine is doing this at present.

The tendency of increase of quality improvement due to sale by themself from now on has been noticed, so that the refuse will naturally increase.

We must recognize deeply that the refuse is also one of important mining resources in our nation and must utilize it.

(Note)

The data used for this writting was made from the designated statistic and by submission of each factory.

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PRODUCTION OF COAL

	DATE	SUBJECT	ISSUING HEADQUARTERS & INDORSEMENTS
1.		Mines in Hiroshima Prefecture	

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Distribution of mine in H

(1)

Cu : Copper mine
Mn : Manganese mine
C : Coal mine
A : Lignite, Peat
Aga : Pyrophyllite
Al : Alunite
FL : Fluorspar

20 kilometers.

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n Hiroshima-Pref.

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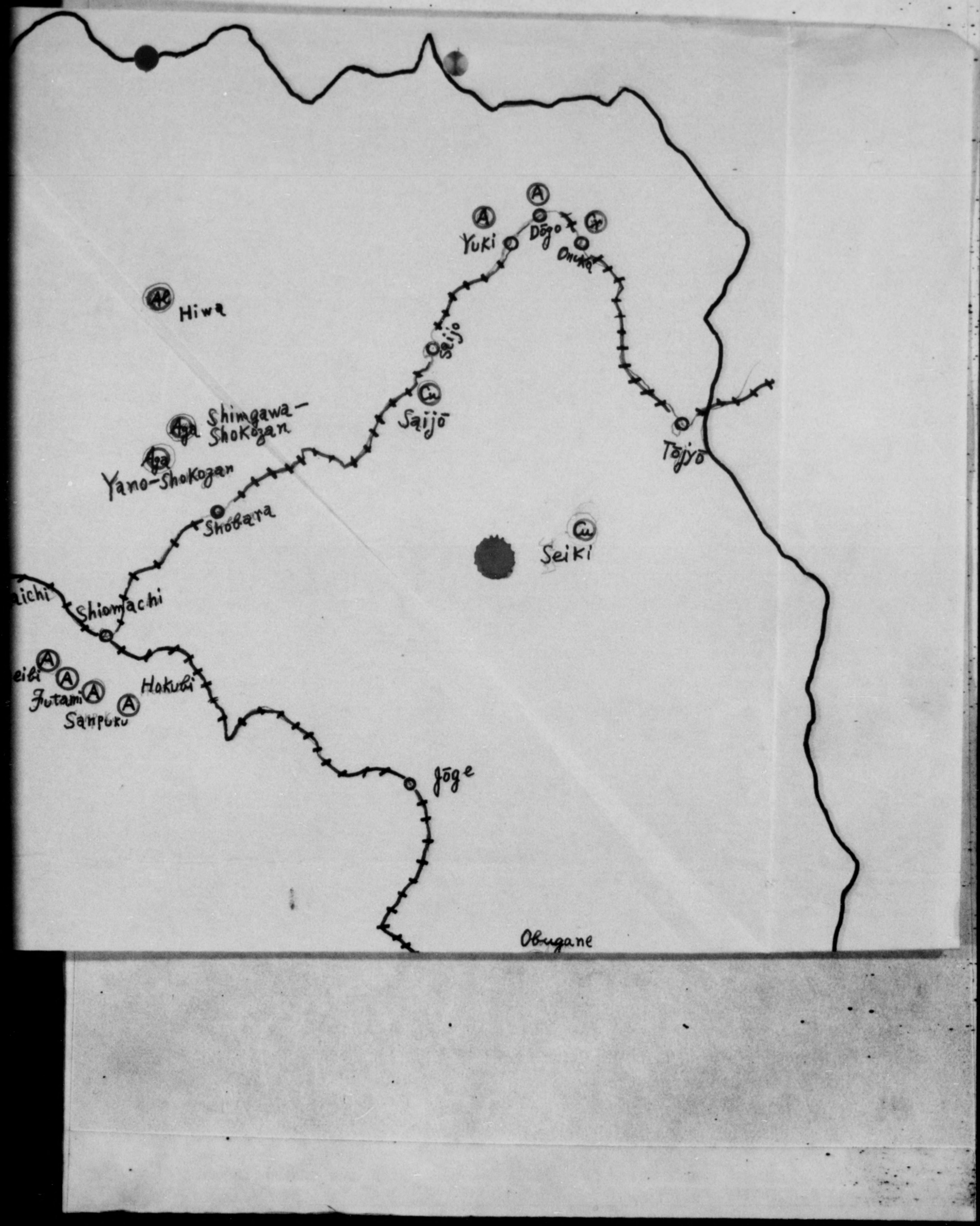

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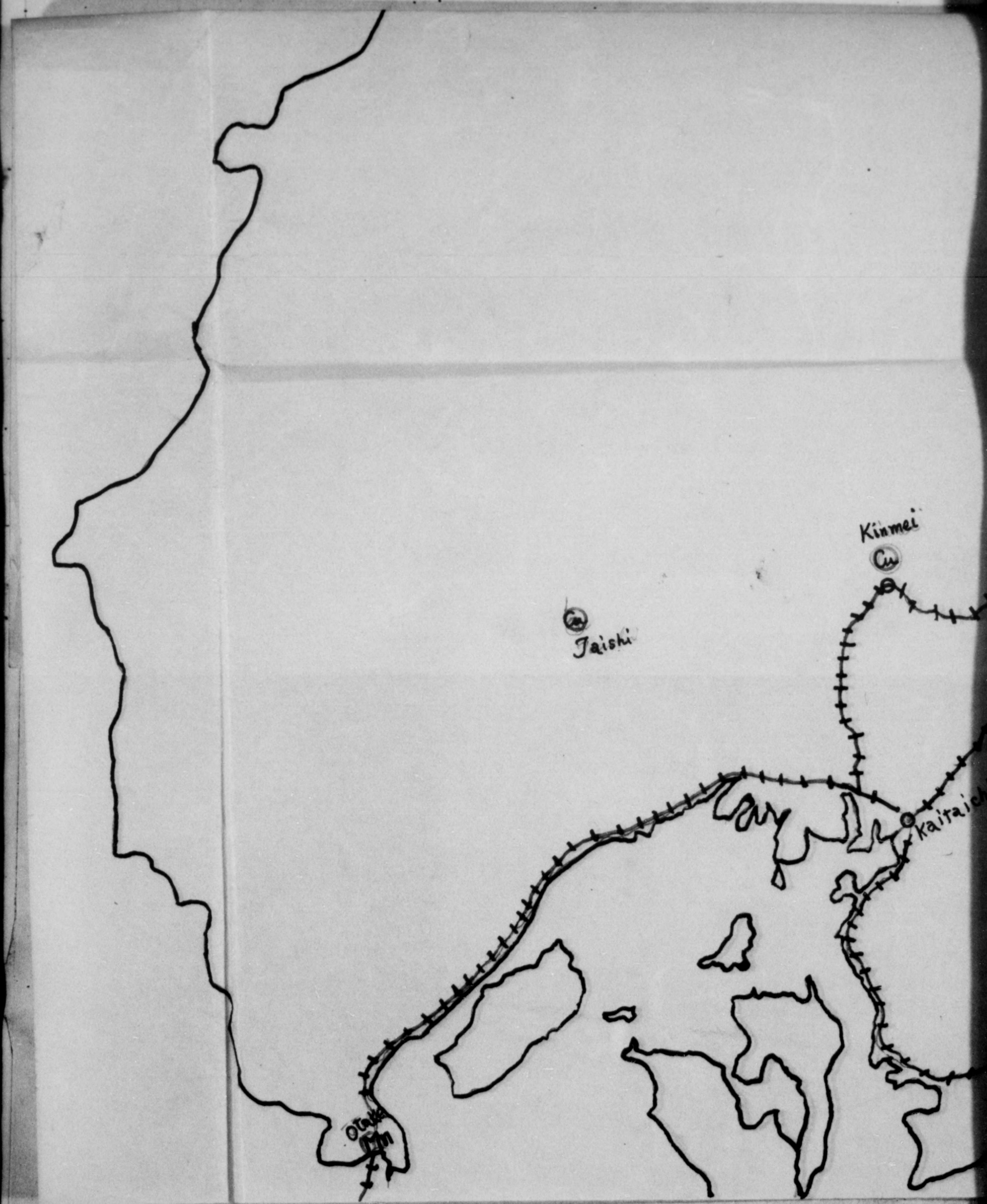

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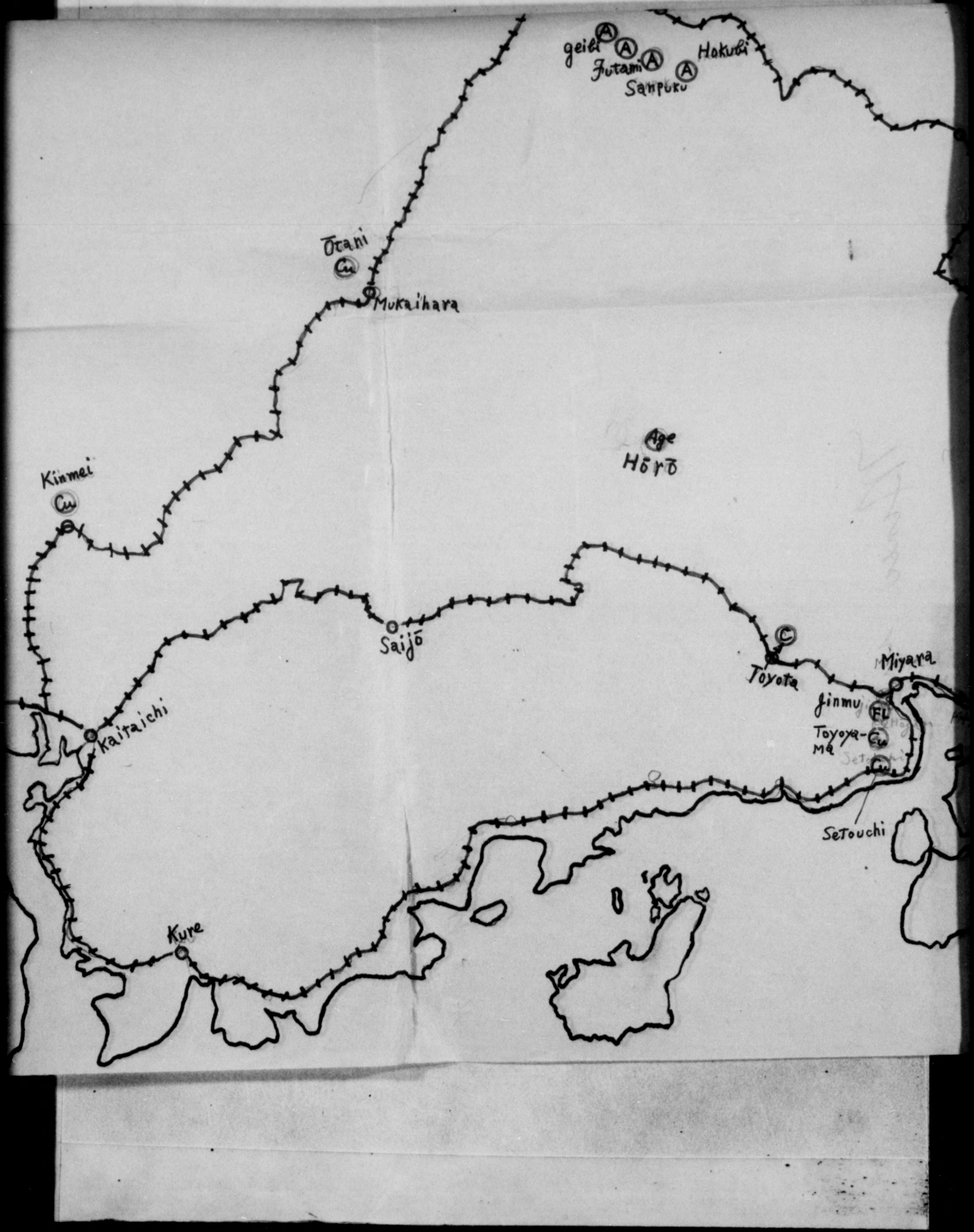
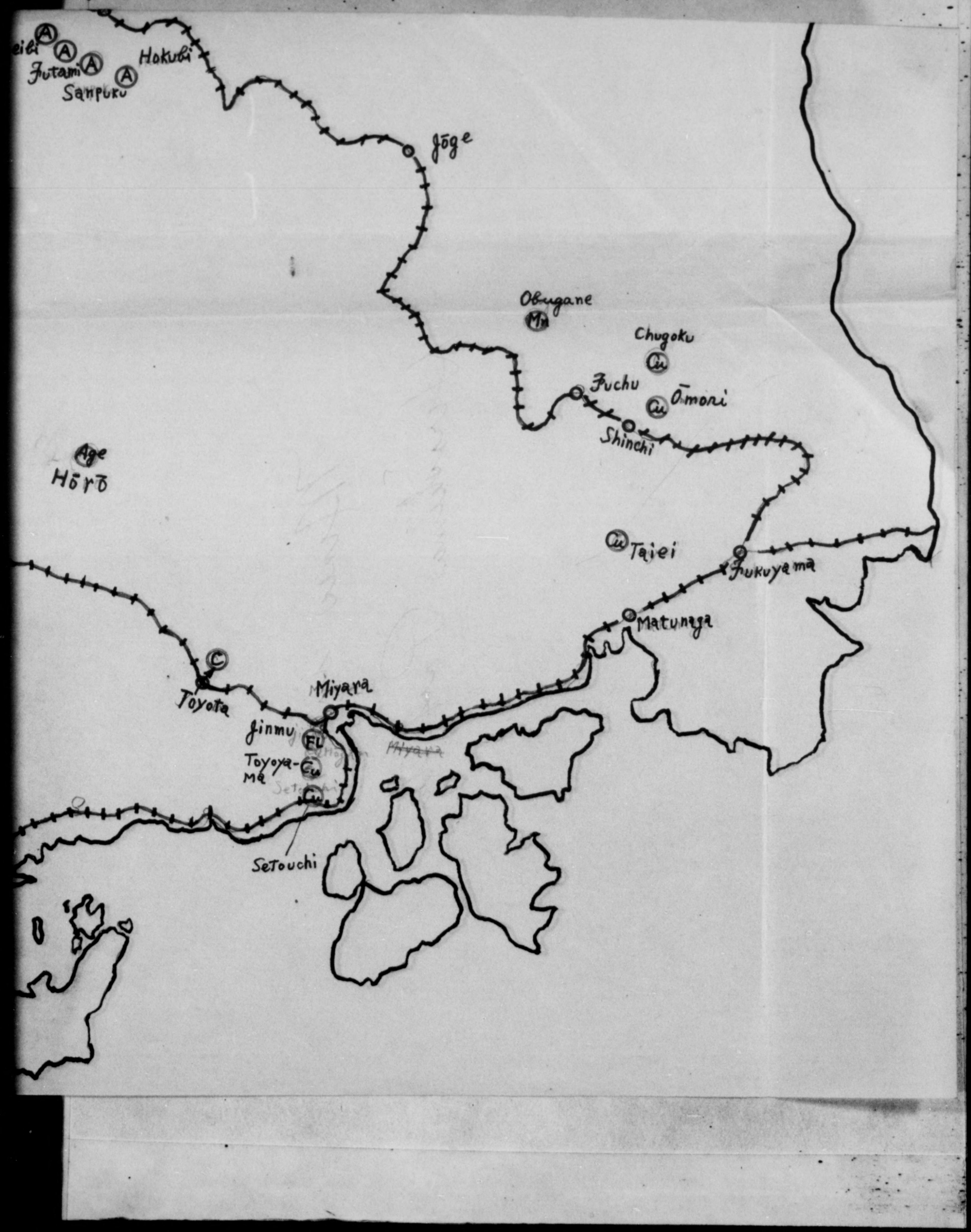
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