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Research and Analysis Branch

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JAF NESE REPRODUCTION INDUSTRIES. Part II.

The Aircraft Industry

Description

Discussion of the Japanese aircraft industry; corporate structure and the history of governmental control receive the major emphasis. The capacity, technological aspects of this industry are also discussed.

31 October 1945

II. THE AIRCRAFT IMDUSTRY

A. Lircraft Froduction: Physical and Technical Aspects

Aircraft commanded top priority in the Japanese war production program. After 1941, strenuous efforts were made to increase plant output by the construction and equipment of new manufacturing facilities, by conversion of plant capacity less essential to the war program, and by diversion of labor and material resources to the sircraft program. Under this stimulus, aircraft production in Japan increased rapidly, but output was always small in comparison with U.S. productions, which reached upwards of 8,000 planes a month by the end of 1944.

Table 3. OFFICIAL JAPANESE REFORT IND AMERICAN JOINT TARGET GROUP ESTIMATES OF JAPANESE AIRCEAFT PRODUCTION TRENDS

	(4 Sep		Domei r 1945;	all types)	(30 Augu	W.D.M.I. ist 1945: (airc	oat only)
	Low -	nec.	1941 -	550			428	
		Dec.	1942 -	1,054			803	
		nec.	1943 -	2,096			1,448	
-	Peak -	June	.(1944 -	2,857			2,034	
		Dec.	1944 -	2,204			2,450	
		July	1945 -	1,003			1,850	

Note: If Trainer and Reconnaissance types are assigned a value of roughly 25 percent of total aircraft production, American estimates and Japanese official reports are comparable until December 1944 when the Japanese figures are considered to be far too low, by contrast with the best American estimates.

In order to achieve her 1944 level of aircraft production, it is believed that Japan was employing over 750,000 workers. Of this number, it has been estimated that about one-eighth were women. (See R & A 2271, Industrial Distribution of The Population of Japan.

* * * * * *

B. Organization of the Aircraft Industry.

1. Brief History.

The origin of the Japanese aircraft industry coincides with World War I. Shortly before the war, Japan sent army and navy officers to France to study European developments in aerial warfare. During the years 1917-18, two private companies, Nakajima and Mitsubishi, and the Maval Arsenal at Miro, built the first aircraft plants. Because of Japanese technical backwardness, these were based on foreign models. This dependence on copies or adaptations of foreign designs -- British, French, German, and American -- and the employment of foreign engineers and producers, was to continue to a

decreasing but still dominant degree until the eve of World War II. By the end of 1937, the Japanese had succeeded in creating two or three types of airplanes of their own design.

*** New companies were organized and the existing ones —
Mitsubishi, Nakajima, and Kawasaki — were enlarged. With the conquest of
Manchuria, Japan worked hard to create her own models, culminating in the
successes of 1937. It was during the latter part of this period, too, that
the aluminum and magnesium industries were first developed (1934-35).

* * * * * *

According to the Japanese Ministry of the Navy, in 1938-39, private industry commosed 70-75 percent of the entire Japanese aircraft industry. The relatively satisfactory types produced at this time, formed the nucleus of the Japanese air force at the beginning of the war.

* * * * * *

3. Government Encouragement: Aircraft Manufacturing Industry Law.

Government Control:

(i) The Government may determine specifications; control prices, terms, and the supply of planes and parts; merge or dissolve companies; and

transfer, discontinue, or suspend manufacture of all or part of their products.

- (ii) Under a military clause, the Government may issue instructions regarding plant expansion, manufacturing research, training of technicians; cooperation with other plants, storage of raw materials, drafting of plants, employees, or equipment; guards and counterespionage.
 - (iii) Land may be appropriated for plants or fields,

Manufacturers! Benefits:

- (i) The Government compensates the manufacturers for losses.

 Subsidies are granted for airplane parts and materials not previously produced in Japan.
- (ii) Under certain conditions manufacturers are exempt from income tax, business prefit tax, and local taxes for six years. Import duties for tools for the injustry were to be abolished for five years.
- (iii) Capital may be increased for plant expansion and bonds may be sold in excess of the legal limits for the purchase of equipment.

Miscellancous Data:

- (i) Licenses are issued separately for aircraft manufacture and assembly.
- (ii) The Aircraft Technical Commission was to be organized with 20 members under the Minister of Communications (<u>Tsushin-sho</u>). Its primary function is the standardization of aircraft. Any violation of the government regulations subjects the firm to fines varying from ¥ 500 to ¥ 2,000. (See Appendix IIc for text of the above-mentioned law).

4. Concentration of Production.

of all military airplanes and of the relatively insignificant number of airplanes for the civil airlines was then concentrated in the hands of 14 licensed firms. (See Appendix IIf for details concerning the 14 originally licensed companies). These companies were licensed for the production of complete airframes, engines, and propellers; the subcontracting of component parts to other producers was encouraged.

5. Government Arsenals.

In addition to the production by the licensed civil companies, the naval aircraft factories at Hiro, Yokosuka, and Sasebo had at least a small production capacity. Recently they are believed to have confined their activities principally to research, experiment, and testing, and to the manufacture of models for later development of private mass production. Sasebo produced a single-engine float type fighter plane; Omura was equipped to manufacture engines and assemble planes. Mention should also be made of the Tachikawa Army Air Arsenal in Tokyo prefecture, which was assigned a small percentrage of total aircraft manufacture and did considerable research on new models.

6. Nature of the License Commanies.

The licensed commanies were of two types. Some were "integrated" companies -- that is, they produced in their own plants a large portion of the principal components going into the aircraft they manufactured. Others specialized in particular aircraft components. The most important "integrated" companies were Mitsubishi Jukogyo, Nakajima Hikoki, Kawasaki Kokuki, and Kichi Tokei Denki. Mitsubishi and Makajima were the two names most often associated with Japanese aircraft, and the greatest proportion of planes had their final imprint, although they contained parts from many other sources. Companies such as these generally embraced several manufacturing plants. Other licensed compenies, by contrast, are known to have been highly specialized. Sumitomo Kinzoku and Nippon Cakki Seizo (Japan Musical Instrument) produced propellers for several different plane types. Ishikawajima Koku Kogyo (Ishikawajima Aircraft) and Hitachi Kokuki (Hitachi Mircraft) manufactured engines on a smaller

Fut they also engaged in mass production of privately developed aircraft and engines. Thus the "Judy" bomber and the new Nakajima Homane engine were made at Hiro.

scale, the latter making trainer engines mainly. Matanabe Tokkosho made components and probably assembled planes. Showa Hikoki Kogyo (Showa Aircraft Industry) manufactured a transport plane copied from the U.S. D.C.-3 (C-47).

7. Research and Development.

Realizing that Japanese aviation products would continue to be several years behind foreign material unless adequate provision were made for research, design, and testing, the Government set up an Acronautical Research Institute under direction of Tokyo Imperial University in 1918. Experimental laboratories were similarly instituted by the Army and Navy Air Services. The larger civil producers had their own departments for research and design which worked for either the Army or Navy, or, in a few cases, for both. The Army and Navy made heavy demands upon the aircraft commanies for the experimentation and development of new military aircraft and endeavered to allocate their orders to compensate for experimentation undertaken. In theory, all these agencies were to work in close harmony for the advancement of Japanese aviation. Actually, there appears to have been a lack of coordination, and to remedy this the Covernment in the 1938-39 budget provided an original sum of ¥ 500,000 for the establishment of a Central Institute of Acronautical Research under the Aviation Bureau (Koku-Kvoku) of the Communications Ministry, (Tsushin-sho). The object, in addition to providing newer and better equipment, was undoubted to provide a central controlling head for the coordination of all research having to do with aviation. The cost of the entire project was to be ¥ 130,000,000.

* * * * * *

(a) Institutions Operating in 1941.

(i) The Aeromeutical Research Institute. Located at Komaba, a suburb in the western part of Tokyo, one mile west of the Shibuya station on the Yamanete line. It has confined its work primarily to pure scientific research and secondarily to the practical application of its discoveries to actual airplane design. There are twelve sections devoted to physics, chemistry, metallurgy, materials, wind tu mel work, engines, airframes,

instruments, physiology, construction, diesel engines and propellers. Equipment, while considered modern in 1939, has long been outstripped by that used abroad. Some of the Institute's important work has been in the field of diesel engines, the designs of which were turned over to Mitsubishi for building and into the design for the long distance "Kamikaze" which flew from Tokyo to London in 1937.

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The Ministry having been inaugurated to carry out this policy with particular emphasis on aircraft, an Aviation Ordnance Bureau (Koku Heiki-kyoku) was created within the Ministry to take over from the War and Navy Ministries all their former administrative functions concerning aircraft and related industries. This transfer, which became effective on 15 January 1944, appeared to represent a coordination rather than a shifting of responsibility, because the Bureau was to be staffed principally by efficers of the Army and Navy.

Lt. Gen. Sabure Endo was designated as Chief of the Bureau.

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Industrial Association was formed on 16 January 1944 to coordinate the production of aviation supplies. Formation of this Association indicated that the Japanese Government was hoping to expand production of aircraft by unifying direction and centralizing the priority system. The detailed powers of this Association and similar ones in other industries were derived from the National General Mobilization Law of 1938 and, in particular, from the Major Industries Association Ordnance of 1 September 1941.

The division of functions between the Munitions Ministry and the semi-official Aviation Industrial Association was as follows: the Aviation Ordnance Bureau of the Ministry drafted general production schedules to be assigned to the Association; the Association was then responsible within its field for control of production, the supply of funds, material, and labor required, and the allocation of schedules among its member enterprises. Despite its semi-official title and cast, the Association was effectively dominated by

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Defense Document 864 the industrial leaders in the field and was essentially a business organ. The nature of this domination is revealed in the history of the Association and an analysis of its personnel. APPENDIX IIo AIRCRAFT MANUFACTURING INDUSTRY LAW (A Translation of the Full Text taken from the Official Gazotte, March 11, 1938) The aircraft manufacturing industry as mentioned in the present law signifies enterprises of manufacturing the aircraft as specified by ordinance or the fuschages, motors, or propellers of the said aircraft. The manufacture of parts or accessories of aircraft conducted by persons who are engaged in the enterprises as mentioned in the foregoing paragraph or their manufacture of the materials to be used in their enterprises. for manufacturing aircraft or their repair of aircraft shall be regarded as a part of their enterprises. Article 2. Persons the desire to be engaged in the aircraft manufacturing industry shall obtain the permission of the Government. Article 3. Those who may obtain the primission as mentioned in the foregoing article shall be limited to the joint stock companies (kabushi'd kaisha) which were established in accordance with the provisions of the law and ordinance of the Empire and which have the majority of the shareholders, the majority of the directors, the greater part of the capital funds, and the greater part of the right to vot. represented by the subjects of the Empire or the juridical persons which were established in accordance with the provisions of the law and ordinance of the Empire. The juridical persons as mentioned in the foregoing paragraph shall not have the majority of the staff members, sharcholders, or officials exccuting the business, or the greater part of the capital funds, or the greater part of the right to vote represented by the nationals of foreign countries or the juridical persons of foreign countries. Then persons who have obtained the permission as mentioned in the foregoing article have ceased to be under the provisions of the foregoing two paragraphs, the said permission shall become null and void. Article 4. The companies which have obtained the permission as mentioned in Article 2 shall commence their enterprises within the periods specified by the Government. The Covernment may permit the prolongation of the periods as mentioned in the foregoing paragraph only when it recognizes that there exist good reasons for such prolongation. When the companies which have obtained the permission as mentioned in Article 2 have failed to commence their enterprises within the periods as mentioned in the foregoing two paragraphs, the permission as prescribed by irticle 2 shall become null and void.

Article 5. The companies which are engaged in the aircraft manufacturing industry (to be referred to as aircraft manufacturing companies hereinafter) shall, in accordance with the provisions of ordinance, determine their plans of enterprises and reports the same to the Government. When they desire to change the plans of enterprises, they shall also report the matter to the Government.

The Government may order changes in the plans of enterprises when it deems such measures as necessary.

fuselages, motors, propellers, parts, or accessories of the aircraft or materials for manufacturing the aircraft, after referring the matter to the aircraft technical commission.

Aircraft manufacturing companies shall not manufacture or use anything which is subject to the specifications determined in accordance with the provisions of the foregoing paragraph and which does not conform to the specifications. However, an exception is made when the permission of the Government has been obtained (for the manufacture or use of such things).

The regulations concerning the aircraft technical commission shall be determined by Imperial ordinance.

Article 7. When aircraft manufacturing companies desire to transfer, discontinue, or suspend the whole or a part of their enterprises, they shall obtain the permission of the Government in accordance with the provisions of ordinance.

Resolutions for the merger or dissolution of aircraft manufacturing companies shall not take effect unless the approval of the Government has been obtained for them in accordance with the provisions of ordinance.

Article 8. The aircraft mrnufacturing industry shall be regarded as an industry which may expropriate or use the land as mertioned in Article 2 of the land expropriation law and as such shall be subject to the application of the said law.

Article ?. Aircraft manufacturing companies shall, in accordance with the provisions of Imperial ordinance, be exempted from the income tax and the business profit tax in regard to their enterprises for the year during which the permission as mentioned in Article 2 was obtained and the following 5 years.

Article 10. The Hekkaido, prefectures, cities, towns, and villages and similar bodies shall not impose taxes upon the aircraft manufacturing companies which have obtained exemption from the income tax and the business profit tax in accordance with the provisions of the foregoing article, against their enterprises which have been exempted from the taxes. However, an exception is made when the permission of the Government has been granted in consideration of special circumstances for the imposition of such taxes.

Marticle 11. When aircraft manufacturing companies import tools, machinary, or materials necessary to their enterprises with the permission of the Government, an exemption from the import duty shall be made for 5 years from the day of the enforcement of the present law under the provisions of ordinance.

Article 12. The Covernment may grant, under the provisions of crdinance, encouragement money to aircraft manufacturing companies when they are engaged in the manufacture of such kinds of aircraft, fuselages, motors, or propellers which have never been manufactured in this country, within the limits of the budget. Encouragement money may also be granted for the manufacture of such kinds of parts or accessories of aircraft or materials for manufacturing aircraft as have never been manufactured in this country.

Article 13. Aircraft manufacturing companies may, when expanding their enterprises, effect an increase in their capital in order to obtain funds to meet the expenses for establishing facilities belonging to their enterprises, subject to the permission of the Government, even before their capital is fully paid up.

Article 14. Aircraft manufacturing companies may, with the permission of the Government, issue debentures beyond the limits as stipulated by the Commercial Law, when obtaining funds to meet the expenses required for establishing facilities belonging to their enterprises. However, the total amount of debentures shall not exceed 200 per cent of the amount of paid stock shares.

The provisions of the foregoing paragraph shall not be applied when the property stated in the last balance sheet to be in the possession of the companies fails to reach the amount of paid stock shares.

Mortgages on the belongings of the enterprises of the companies in accordance with the provisions of the factory mortgage law shall be required for issuing debentures according to the provisions of the first paragraph. However, an exception is made when there exist special circumstances and when the Government recognizes that there is no need for such mortgages.

Article 15. The Government may cause the gircraft manufacturing companies to file reports in regard to the conditions of their business and property.

The Government may issue orders or make disposition, such as are deemed necessary from the standpoint of control, in regard to the business and accounting of aircraft manufacturing companies.

The Government may, when such measures are deemed necessary from the standpoint of central, cause the government officials concerned to inspect the offices of aircraft manufacturing companies, their places of business, factories, warehouses, and other places and examine the conditions of their business or property or documents or books or other articles. In such a case, the government officials concerned shall be caused to carry with them certificates showing their identities.

necessary from the standpoint of public interests, order the aircraft manufacturing companies to change sale prices or sale terms of aircraft, fuselages, motors, or propellers and issue orders with reference to matters required in regard to the supply of these products.

Article 17. The Government may, when such measures are deemed necessary from the military point of view, issue orders to the aircraft manufacturing companies in regard to matters enumerated in the clauses given below. The Government also may issue similar orders in regard to matters enumerated in Clauses 1 to 5 when such measures are deemed necessary from the standpoint of public interests.

1. Expansion or improvement of facilities. 2. Manufacture of the aircraft specified by the Government or the fusclages, motors, or propellers of the aircraft.

3. Researches in regard to special matters concorning aircraft

and/or establishment or special facilities concerning aircraft.

4. Training of technicians for the manufacture of aircraft or the fuselages, motors, or propellers of aircraft. 5. Joint use of facilities for manufacturing aircraft or the fuse-

lages, motors, or propellers of aircraft and/or cooperations with other aircraft manufacturing companies.

6. Preservation of materials for the manufacture of mircraft.

7. Offering of employees or factories and other facilities to be used by the Government.

8. Establishment of special plans of enterprises and/or necessary drill in regard to such plans.

9. Guard of factories and/or establishment of facilities required for preventing espionage.

10. Presentation of reference material in regard to mircraft.

11. Matters which are not enumerated in the foregoing clauses and which are considered necessary under special circumstances.

The Government shall, in accordance with the provisions of Imperial ordinance, compensate for the losses incurred owing to the orders issued in regard to Clauses 1 to 4 or Clauses 6 to 11 of the foregoing paragraph.

The orders to be issued concerning the compensation as mentioned in the foregoing paragraph shall be issued within the limits of the total amount of compensation which has been approved by the Imperial Diet as required by such orders.

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Then the parties concerned have failed to reach an agreement between themselves in regard to their shares of expenses required in the case of Clause 5 of Paragraph 1, the Government shall decide the matter. In case of dissatisfaction with the decision of the Government, an appeal may be made to the ordinary law court within three months following receipt of a notice *bout the decision.

Article 18. When the Government is about to issue orders in accordance with the provisions of Article 16 or Clause 1 of Paragraph 1 of the foregoing article, or decide the amount of the compensation as mentioned in Paragraph 2 of the foregoing article, it shall refer the matter to the commission on the aircraft manufacturing industry, except in the cases which are otherwise stipulated by Imperial ordinance.

Regulations concerning the commission on the aircraft manufacturing commission shall be determined by Imperial ordinance.

Article 19. When aircraft manufacturing companies have violated the present law or orders issued in accordance with the provisions of the present law or disposition made on the besis of the present law, the Government may suspend or restrict their business, cancel the permission granted to them in accordance with the provisions of Article 2 and/or discharge the directors or auditors performing the duties of directors.

Article 20. The present law shall be applied mutatis mutandis according to the provisions of Imperial ordinance in regard to enterprises of manufacturing parts or accessories of circraft or materials for the manufacture of aircraft, which do not belong to the aircraft manufacturing industry as mentioned in Article I.

Article 21. Persons who have violated the provisions of Article 2 by engaging themselves in the aircraft manufacturing industry without obtaining the necessary permission of the Government shall be punished with a fine not exceeding ¥ 5,000.

Article 22. Persons who fall under one of the clauses given hereunder shall be punished with a fine not exceeding ¥ 2,000:

1. Persons who have failed to report their plans of enterprises or execute the plans of enterprises in violation of the provisions of Paragraph 1 of Article 5.

2. Persons who have executed their plans of enterprises in violation of the orders for changes in the plans of enterprises issued in accordance with the provisions of Paragraph 2 of Article 5.

3. Persons who have transferred, discontinued, or suspended their

enterprises in violation of the provisions of Faragraph 1 of Article 7.

4. Persons who have violated the orders issued in accordance with the provisions of Article 16 or Paragraph 1 of Article 17.

Article 23. Persons who fall under one of the clauses given hereunder shall be punished with a fine not exceeding ¥ 500:

1. Fersons who have failed to file the report as stipulated in Paragraph 1 of Article 15 or filed false reports.

2. Persons who have violated the orders issued, or the disposition

made, in accordance with the provisions of Paragraph 2 of Article 15.

3. Persons who have refused, obstructed, or evaded the inspection and/or examination by the government officials concerned as stipulated in Paragraph 3 of Article 15, or refused to answer the questions asked by the government officials concerned, or made false statements in reply to their questions.

from punishment for the violation of the present law or orders issued in accordance with the provisions of the present law or disposition made on the basis of the present law in regard to their business by their representatives, employess, or other workers, on the ground that the vicletion was not conducted under their instructions.

Article 25. The penal regulations to be applied on the basis of the present law or orders issued on the basis of the present law shall be applied, in the case of juridical persons, to the directors (riji), directors (torishimariyaku), or other officials executing the bisiness of the juridical persons and in the case of minors or incompetent persons, to their legal representatives. However, an exception is made in regard to the minors who have the same capability as adults concerning their business.

Supplementary Rules

The date for the enforcement of the present law shall be determined by Imperial ordinance.

industry or who have succeeded to the aircraft manufacturing enterprises of some other persons, at the time of the enforcement of the present law, may be engaged in the industry, in spite of the provisions of Article 2, for only one year from the day of the enforcement of the present law.

When persons who fall under the foregoing paragraph have applied for the permission as mentioned in Article 2 within the period as specified in the foregoing paragraph, they may continue engaging in the industry pending a decision on the issuance or non-issuance of the permission applied for.

When persons who fall under the second paragraph have obtained the permission in accordance with the provisions of Article 2, they shall be regarded as having obtained the permission from the year of the commencement of their enterprises and accordingly the provisions of Article 9 shall be applied to them only in regard to that portion which follows the day of the granting of the permission.

The provisions of Article 11 shall not be applied in regard to the imports made by persons who fall under Paragraph 2 before they obtain the permission in accordance with the provisions of Article 2.

APPENDIX III

LICENSED AIRCRAFT MANUFACTURERS

The following list shows the sircraft firms licensed under the Aircraft Industry Manufacturing Law of 1938, their capitalization, location of factories, activity for which licensed (1 - Complete sirplanes; 2 - Assembly of planes; 3 - Airframes; 4 - Engines; 5 - Propellers) and their production for the year ending 30 June 1940.

Mitsubishi Jukogyo (Mitsubishi Heavy Industries Co.) Yen 120,000,000.

(Not exclusively an aircraft firm). Factories at Nagoya. Licensed for 2, 3, and 4. Production 475 airframes, 1380 engines, chiefly for the Navy.

Nakajima Hikoki (<u>Nakajima Aircraft Co.</u>) <u>Yen</u> 50,000,000. Airframe factory at Ota, Gumma Pref. Engine factory at Tokyo. Licensed for 2, 3, and 4. Production 545 airframes, 1380 engines. Next to Mitsubishi in size and importance.

Kawasaki Kokuki Kogyo (<u>Kawasaki Aircreft Engineering Co.</u>) <u>Yen</u> 50,000,000. Fectories at Kobe (airframes and engines and at Kamigahara (engines). Licensed for 2, 3, and 4. Production 195 airframes, 135 engines.

Aichi Tokei Denki (!ichi Clock and Electric Engineering Co.) Yen 30,000,000. (Not exclusively aircraft). Factory at Nagoya. Licensed for 1. Production 90 airframes, 230 engines.

Tachikawa Hikoki KK (<u>Tachikawa /Lircraft Co.</u>) Yen 25,000,000. Factories at Tachikawa, Tokyo Pref. - Micensed for 2 and 3. Froduction 210 airframes, 90 engines.

Tokyo Gasu Denki Kogyo KK (Tokyo Gas and Electric Engineering Co.)
You 36,000,000. (Not exclusively avietion). Main factory at Omeri, Tokyo
Prof. Branch factory at Haneda (Tokyo). Licensed for 2, 3, and 4. Production
35 airframes, 360 engines.

Kawanishi Kokuki KK (<u>Kawanishi Aircraft Co.</u>) Yen 15,000,000. Factory at Naruo (Kobe). Licensed for 2, 3, 4, and 5. Production 60 airframes, 250 engines.

Watanabe Tekkosho (Watanabe Iron Works.) Yen 15,000,000. Factory at Fukuoka. (Not exclusively aircraft). Licensed for 2 and 3. Production 95 airframes. Probably also casts engine blocks for engine manufacturers.

Nippon Kokuki (Japan Lircraft Co.) Yen 5,000,000. Factory at Yokohama. Licensed for 2 and 3. Production 25 airframes.

Sumitomo Kinzoku Kogyo KK (Sumitomo Metal Industry Co.) Yen 100,000,000. (Not exclusively sircraft.) Factory at Osaka. Licensed for 5. Production not known, but the plant probably become one of the principal suppliers of propellers.

Nippon Cakki Seizo KK (Japan Musical Instrument Manufacturing Co.)
Yen 8,750,000. (Not exclusively aircraft.) Main factory at Hamamatsu. Dranch factory at Yokohama. Licensed for 5. Definite production figures lacking.
The plant is the oldest propeller factory in Japan, and probably divided with Sumitomo the bulk of the production.

Shown Hikoki Kogyo KK (Shown Lireraft Engineering Co.) Yen 30,000,000 (7,500,000 p. u.). Factories at Tokyo and Heijo. Licensed for 2, 3, and 4. Production 10 airframes (organized in 1933 -- had difficulty getting initial equipment from abroad).

Nippon Koku Seisakusho KK (Japan Aviation Engineering Co.) Yen 3,000,000. Factory at Hiratsuka, Southwest of Yokohama. Licensed for 2, 3, and 5. (Organized in 1937 primarily as a propeller factory).

Tokyo Ishikawajima Zosenjo (Tokyo Ishikawajima Dockyard Co.) Yen 16,000,000. (Not exclusively aircraft). Factorics at Tokyo and Yokohama. Licensed for 4. Production estimated at 300 engines -- association with and contiguity to Japan /ircraft Co., increases its strength as a potential producer).

Source: M/A Tokyo #9749. March 27, 1937 - RS 2085-630; Annual Aviation Intelligence Report 1940, 9505.

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Excerpts, pages II-101; II-112; II-113; II-114 - II-124; II-161 - II-169.

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WW 864 2. かり 2 調查及 航 1 略 B 的粉 国 文 .7 X 本 XX 5" B 1 X 第コンメー XX 0 18 X R XX 7 ALER HOLD 歌 1 盤錦 久 居 此 0 1 产生 数字 7 内 5

12 國 WW 864 升 軍 1 1 尚 年 J. 6 カリ 國 33 不剛 首 X 是

WN 8.64 三美文· 2 N 和 XX 船 XX 色的 新 FX XX 7 市 多 X L 工業 居 2 1) 織 XX 最 1 0 \$ X 而 10 一九少人多

NW 864 能 多十 事 3 衙衣 公司 想 0 素 和烈 0 11/4 够 ル 老 作業 軍 疑 4 多 7 具 3 彻定 有军 如 3 老一上! ノルか 0 2 0 .1 1 X 2. 捌 12 n' 1 用 4 7 # 4 11% 社 2 Hig. 1年里里 11 制化 父

WW 864 能 N 5 5 百 角 萬 11 3 園 常 4 雷 超 社 可又ラレ

NW 864 管 條 件及能行 受天 75 會社 14 9 社 台 末 部 生多生了 12 20

田真 MW864 雜城图文書 (1) (1) (iii) (ii) (3) 真 好 有養 Fo 從前 政府 (*) 筑 P 製地 X A 多子 11 南 香港以 製造業者 TO 开 12 牖 稻 P 17 軍 17 7 報送業 華 他 产 工場 12 外车 工場 徽 着 新 1 1 於 后 10 15 11 1 羧 1 有 得 製 基书 定 耕作 杨 獎 酸 特 " THE 力 选 損 屬力 典 峰 備 TC 方 玉場 貨 14 疆 属 火 A 较 2 備 九 4" 4 擴, 科 9 海老系 補機 多 1 IV 防 張製地研究 野藏 h 能行機 免 內什 六 墙年 4 2 W 工場 P 一明之 部 9 剛 15 DE 维 持術 11 科得

為 1-0 9 智

雜 項

航 空 被 制礼 老 17 雅立 紫 ン

M 17 西 12 1 新 R 9 IV

(ii) (**) 航空 機 找術生豆曾 11 遊 信大 臣 1 72 艺员

4 25 组 给 t 本 かる 何 程 犯工機 想批化

主 10 月 1-政 解 布场 遊人人也 儿海 je

4

五百分 3 国 15 P 利 家 22 e 3 上述法律

四天 1 864 New (3) 頁 5. I 的 MK 组 书 7 里 游 北湖 憩 等 制地也 M 艾 重重 弘 M PA PE 産 部 处 指 處四個 南 属 7 选 1 1 1 付 M 18 H 集 龙 個 学 不 1 生 敝 詩 H 理 M IV 力 节 R 龙 4 m 4 35 獎勵 酒 WB 機 2 衛 抓 集 FL 発 雪 NU 加工 过 P 開 W 朝 田 斧 製 制 航型 動機 七分 44) 1-浩 製造事 如何 12 就 第 批用 -17 石 九十二年方大 112 10 馬看耳 光配 120 的建业 對 ラ本等 2 20

五页 NOW 864 大马里 1/2 1) 献 動 1-20 生我 二對人 横領城 研究 量 黑 住 驗 模型 朱 能 試 等 驗 b 製作 R 7 西軍 相 北方 É A 航空機 泥 最后 新卷 中安 也儿我间 1 10 11 1 其 P."

7/4 林

化 在保工物 11 軍 必行動 機 7 戰動數

製 正機 科 傷 11 莽 動 松 R 立如果板

制

故藏 口付 41 3 E 小 五世 えれ. (1) 航空機 製

沙江

和

相

12

東京

何

山川

陛軍

徘

空

地 剛 上海中 111 四日 教之与 相書 西田 新樓

型 ZOFF 面女 かれ 為 品

三型

南 海工/ M VE 好 1 依 雪 新 跪 4 TO 航空

1

~ 熱の鬼部の地質

許 W 南 红 40 17

PP 4 Sp Ko 4 影 自 3 工物 航 門 機 製 IV 福水

他 特 强 抓 维 物

製化 唐 R 朝 R 重 更

三花 重 水 P 南 花

0

知 群 新 電 核 展 it Vy 関 17 11

难 100 m a n 12/ 粉松 1-)

夏六 RW864 (7) A 型 桶 15 2 7 機 阳 李 17 199 至何么 11 研究 製 至 批 年 池上 西面 教養 30 The Me 省 驗 4 H 12 等 制造 围 浴 独 絕 非 IV 杨 MIL 展 軍 11 たり 11 11 自 2 1 难 研究 関 沧 2 1 運 機 2 4 2 函 かれれ 2 渊 僧社 海軍 歌事 画計 31 えが 運販 12 剧 在 心為 試驗道面當 少な 1 題北 軍用 画 和北九 9 好多 9 Tup 田山街小 郊 りる 多航 堂人 4 17

夏六 WW884 独 The second 滩 那明 愿 でれ 宝 副盡 ME 17 n 航空 11 ヘギ 夏 21 11 劒 2 其 情相 進步 努 1 A 力 专 レタス 日子 航空 A H 1012 五 为 事 ルル 軍工 理論上 13 電槌士 来 0 局 夢 7/1 3 为 力基金 北安 七年 柳空 致频数 年 加刊 19

· 12 9	デイセルン	北美兰	7-1-33-1-3	奉金上	NANE	其人世	1	東京	られ空	をない (な)	WW64 20
	地域はアクロ	部数 批型级	那种物	随用ルルクト	次千其符見	那一般和我	TC	西部	孤宠佛 動	四一一个配好十六年	
	7 - 24.	被職器	班 化安地	TA A A.	月 粮食,花竹	种野好的		黎遊公野	物形松工	中一路	*
	表安分型	生理學構造	電場電車		松沙計	研究三强力		山西方一文		もれる調動	

-

備 Dogense Document 864 11 三 丰 野神 事 於十 新式 チエッ 山田 思心 田 11 國

テ" 裝 使 用 7 加馬 + ナ 丰 -市岛

重 12 事 セン 関 方 面 テリ 3 此

三 計 = 菱 渡 製作 九 三七 羊 驷 72

東 京、 命 敦 花 長 距離 ネ中 風 號 = 設計 77 170

老

X

重 E 回面

言 13 空 = 関 4寺 = 3年 言問 方 绿 7 遂 又 11

舶 孫

関

學手、

関

产

当

軍

面

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41

幸

ガ ラ 政 剛 接 ラ 航 空 共 器 らかか

16 内 創 設 ++ 0 止じ 讓 M 17 野山 生

西西

3 7 ラ 実 施 业と 青 小土 転 移 謂 7

八 スモノ北り三生有の

ヨリ 靈 12 力力 7 表 寸、 4 思 其ノ 理 由

5 主 2 ラ 一 海 軍 科 . 校 依 ラ テ

后

茫 軍 中 为年 菠 藤 = 京了 15 白 長 山田 仕命 寸

航 空 2 学、 會 .. 半 官 IE 業 石 组

辛 記又 tj" 華 務 黑 始 + 航 機 補 充 生立造 カ 整調 ション

= 航 公 學事 會 かい 九 100 IT 丰 鬼 42 月 六

= 组 織 + V 1= 公 組 織 + 日 本 政 ガ゛

7 统一 V 旦シ 重 点 白与 组 織 集 中 航 空機生產,增大

ラ, 空华 0 7 コ 7 表 示 シ 7 后 命 73 著 業 類 似有 =

學 Z 12 纽 国 權 限 11 九 Ξ 手 昭 加工 闽 家總動員法

X 特 = 九 M 年 驱 月 B 附 主 母事 等团体令

井 沙 斯 = 殺 业、 材 變 依 WW864 デ 1 3 料 割 ラ ア 括 5 重 明 可 及 ラ 的 = 5 配 支 学事 拘 分 生 カ 西己 X 产生 シズ 野 t 劳 内 国 類 三 該 錄 於 等 11 南 質 テ 省 7 15 立实 11 其具 供 的 會 航 事 给 = 安 .. 一 仕 全 5 些 7 7 百 4. 器向 史 會 担 4 X 個 此人 同 買 會 分 商業 15 -事業間 同 其 Z 1. 野 會 其 生产生统 於外心 半 袟 事 K 職員 生産 Ė 割当すう 岩、 関 事銀割当 分 制資金 的 的指導有 7" 名稱及 豫定 左ノ通り アンタ。 分析 =

附 1.89

鳏 te 常 e

航 六 機 製 造 事業 法

一九三八 年 邓和 丰事 三月 十一日八百 報 ヨリ 採 リタル全文

譯

第 邻 水 法 = 於 ラ 航 公 機 製 造事 業 補 スル .. 命令ョ以テ

堂 4 11 航 空 機 其 機 体 發動 機 若 ップ 100 ラ り制衣

為 ス 事 学、 7 謂 7.

前 項 事 業 ラ 營 4 看 為 Z 航 空 部 PZ 艺 15

禹 DIZ 制 造 其一事業 右 用 7 n 航 空 料 製造又 11

航 空 機 修 理 . 1 2 - 7 當 該 事 業 部 有做 ス。

第 滌 舧 空 機 製 造 事 業 7 答 マ ス 右 " 政府 ;許 "

ラ 之 17

WW 864

第二 條 前 绵、 計 =1 受 12 2 7 得 ~" 7 右 帝 画 法令二依り

設立 7 12 株 式 會 社 テ其り 株 半 数以上、 取 締役人

半 数 以 ンは 本 半 額 以 上及 議 決權, 初哥 半 数が 帝國臣民

15 帝 画 法 令 依 設 法 = 属 ス 七 = 限

所 項 法 1 其 社 夏 株 主 若 業 務 =) 執 スル 役 更ノ

半 数 以上又 ., 貧 本 半 額 若 議 决 權 调 半 数 力" 外國

17 7]-国 法 = 属 也 サ 12 E + 12 コ 7 要又

前 修, 計 nラ 受力 タル 看 河 項 规 定 該 浴田 セザ

至 タル キ .. 許 ["] . . 其 効 7 失

第 四刀 修~ 第 邻 計 "] ラ 安ち 11 公 政 指 定 期間

内 其 事 業 7 開 始 ス ~

					事業可開始也世上上六、第二條,許可以其,効	第一條,許可可受了夕心會社前一項,期間也	延長与許可スルコトラ得	政府、正當一事由了り小認心場合心限的前項	NN864 P.8 26
					対カラ失フ	間内一其		り前項,期間,	22

-+

1. 1.

今アスルコトラ 航空機 永久 第六条 事業計里里了定 航空機製造 定人 第五條 航空機 更 政府以要了 又的陽島二付 七人 機体、 トスル 得 製造 航空機製造事業 會社ト梅ス キ 亦 同 會社 11 發動機 788 X 規格: 小腿八八十十 航空機 政府三之月屆 其,規格 適 前項 技術 八事 D 超定 ルモニ非、サレハ 業計 營四會社 女員 角八議 户 4 ルコトラ 里面 部 京 之 翻譯 衙 変更 PP 7

定 ムル 产 政 府 V 7 17 =

航空機製造 金豆社 A中分年 又 11 名

命 ニマ ノ定 ムル 政 認 b

7 生 也 ス

MW 864

学 烙 航 定 核 极不生 世里. 墨表 土地收用法

第二條 土 to 17 收 スハ 使 用 スル 7 事災

10 弦 ラ適 用 ス

第 條 航空機 製造 白白 社 朝

包 第三條 24 n .7 受 ケタル 及其

3 五年 16 事 業 得 梭 松宫 業

F 多 除 ス

第 俗 海道 府 県

津 人 7 前條 規定 依 得超 必多 業

收益稅 多 除セラ 舰 空機 製造 會社 其ノ

多 除 セラ 儿事 業計 課授及八 得 特

NN8643 スルー 要ナル 在ラス 第 事 輸 器 11 侔 本法施行 具 信題 段 航空機 13 機械 23, 受降ス 函 -4-ノ日 27 府 又八 製造 材料 No. 6 人面白 政府 No. 84 制 社 勅 13 可見受 事業 ゴル 翰

WW864

第三千五人山田

辯護團倒文書八次四

学十 豪 舟九-空機 製 造會 社权 利 方宝 未少 製造 セラレタル コトナキ航空機又の

其 機 体 發動機 若、 70 7 5 製製 送ラナス場合がテハ政府の

命 12 定 41 PIT 依 豫省不 範 西井 内、於テ之、提勵金丁文付 ス

12 2 7 得 航空機 部方品 村 术中 户付 高品ニシア本 打於テ未が

製 强 E 7 iv 2 丰 £ 7 製 选 スレ 場合 市 同沙。

三條 航空 模 製造 金 产 事業擴 差 楊合於方政府 一思可可及丁

学

其 事 学 4 . 惠 11 鼓 衛 費用 = 范 3/ 12 差 株金金額 排込

前上強也其少資本习情加入了上了得。

等 回 條 航 空 機 制衫 选 备社 11 正文 府 認 m 7 要丁 其事二番 スル 設

備 實用 なん .7 馬 六個 范 2 规 宝 ス ·V 制 限习超工于社情 苦方

集大 なし 得 但 江 害 想 類 掛込 2 ·V 株金額 二倍

1	人・)
2		
-		

				第十五條						Held	860	
中、當該官吏了之下航空機製造會社一事務所營業	為スコトラ得	对心紫務及會計二對心監督上必要心命令了处之人、	報告月為サンムルコト月得。政府、航空機製造會社二	政府、航空機製造會社村之業務及財產人状况到之	記メタルトキハ此ノ限ら在って。	要又但心特别一事情了心場合於了政府其,必多十一人	松當法一衣り會社一事業一一一一一一一一一一大高人工一	用少第項规定"依少营,集无社情"位于工場	九財產力拂込之名株金额"满乡北上十八前項,規定于海	1	月超元コトラ得了。 過級終人質借対照表一依り會社二現存	2.

7.8

lul	18	69	F	0		2
				-	1)
151		4				

学 学 + 七 3 徐 修、 教会 價 政 对 正文 A 况 户斤 = 存 1 1/2 闰 京全 航 17 龙 楊 公 7 愎 立 益 1/2 簿 梯 甘 倉 过 7 多 南東 庫 又 142 畫 身 11 + 多 其 11 類 村 俗, 事 5 件 村 7 項 他 示、 變 1 7 也 楊 体 去可 2 石 40/01 意 物 产斤 面 ス" 4 12 雪、 华 1 2 臣校二學務 7 動 キハ 7 トラ 命 楼查也 携带 ***** 航空機 ジスハ 得 若 セレ 11 此等製 7.0 12 らつい 2 若 製製 ペラノ う得 11 造會社二 財産 西 販賣 此場 件 状

該 備 擴 瑟 Z 11 改

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11

航空機

製造

會注一寸

										UN	864	34
演練	八糟就心事等計画一設定又以其一計画的少要力	七、從業者又小工場其一他一設備一致府一对心供用	六、航空機用材料,係有	之該備一共用其他他,航空機製造會社的恐協力	五、航空機又八其人機体、發動機若、了口心力,製造過	按附着一美良成	四、航空機又以其機体、發動機若,了口心力,製造	三、航空機二與心特殊事項,研究又心特殊設備,施設	~うノ製造	一、政府、指定不能空機又、其人機体、發動機若、プロ		34

MN 864 九 工場 秘克 備 又い 防洪上 17 多た 施設

5

十、航空機一門心資料,提出

土 前 1/2 號 過かり 毛 1 除 外 特 = 必要 た 事 項

蓟 項 第一號 乃至 第四號 又八 第 六號 13 至 学ナー 號

命 令 图 生ジタ 損失 11 劫 令 定红 所 = 依 政府 之 7

神 質 前 項 神 償 7 伴 7 へ" 4 令八 之 国リ 要 2

1. 午 補貨 金 題 刻か 帝 国 議 會 初 賛 ラ経タ IV

全 額 7 超 ,V 範 星 阳 オヤ 之月 為ス ラ要 2

第一 項 第 7 號 楊 念二 於 費用 勇藝 = 付 岩苗 事 者 间

協 議 調 7" 15 政 府 之 裁 定人 裁 定 一对 V 不 印及 P IV

右 11 裁 定 通 知 受ケタ 1 B 3 三月 内 = 河州 本 裁 判 所 T

6.

WW 864

生, 訴 ス 7 得

第十八 修、 政府 第十 六 僚 芜 , 前 修 第一 項第一號 命令又小前條 なり二項

衣南 價金額 決 定月 スル トキ 11 勃 1 = 别 段 /規定了 11 場

A 7 除、 1 外 鄉室 機 製 选事等 李員,會 該 ラ経 ベシ

航 空機 製造事業多員 會 实 11_ 規 11 勅 12 ラ以テ 2 7

定 U

等北條 航空 機製造 雷 社 本 法若 本 滋 = 基中 人致え 命 令又小 之 =

基キテ 馬 ス 是处 分二 莲 及 シタ 14 丰 . 1 政府 11 其 書務

停心 芜 制 限 第二 修、 草 4 取 消 3 又八 取締 後 若 11

村 職 務 7 行 監查 没 解 任 7 為 2 2 得 0

第二十 僧、 航 立 機 一部分 NA. 材 料 又 附 番 BA 製造事學

A STATE OF

学ーナー UND864 倍、 学 定 第二 学 7 IV 儉 想 修、 所 -規 航空 ž 依 楼 = 本 有 连 製 茫 11 及 7 五 选 準 + 事業 部可 丹 例 2 シス ヨ要 0 屬 下 4 副 ベシテ te, サンモ 金是处 航空 = 闰 ス 機 0 ٤ テル 制衣 动 光 令人 事

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為 + 2" Z . 1 廷, 生 F" ル 事 李 更月 雪 施也世 11 有

-第五條 雪 項 规 依 ル 被 更 后 会 海 みシ

事業計画了好施之夕心有

= 第七 修 第一 項 规 三五年 及 些 讓 渡 3 一人發生

シス、休止シタル看

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M 第十六 條 2 . 1 第十七 徐 学 頂 規定 依心 命 交 三章及

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等主人你 In 號 1 該當 7 ·V 为 .1 五百 円 以下 田刻 金二是处 2

第十五條 第一 項 規定 依 IV 報告月 為 サズ 又八虚 偽

報告ラ為シタル者

5 等五條 第二項 規定二 依 命 令 又八是 分二番 及之夕

心若

= 学 益條 学 = 項 規定 -依 iv 當該 官吏,路檢 検查

拒 奶 花 , > 思 避 シス 11 其 質 [6] 対 3 公 辩 7

為 4 2" 花 是 偽 陳 逑 多 V IV 右 0

学 7 四條 晚空 核 制衫 选 會 社 ,1 其 W 理 牟 其人 他 從事、

第二五條 UN0864 本法又 せい 若 は、者 Z 本 本 執行スル 家 法 二枝至千 定 かい 法 故 其 施 施行 14 附 7 かり 本 打 粥 12 役員。 以 意務 法 汽花 1 朝 二基キテ 為 際 别 其 7 = 三国シ 有 B 未成 (是处四到 现 虚处 动 中 满 1V 本 .1 革 定月 航 3 發 理事、 未放 17 法 者又、 五 スル 芄 シス 栈 友 免 命 年者三 11 但 取 本 禁 マイ 12 IV 製 练 弘 地震 依 浴 "枝座 付 定 37 後 度 T 中 事 41 其人 事 , 1 得べ キテ次致 者ナル 遊 自 此 紫 関 用スペキ 他 2 限 0 1 2 成 法人 二在う 指揮 炒豆 + 11 五 命 四刻 ノ業務ヨ 11 令又小 山者又 其 者 出出 2" 刨 9 11

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帮護團側文者八六四

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一川 西。	生產高機体一八五一發動	郵機)一三及口四二對心	及上発動機,外一各務原	五千万四。工場神户一機	航空機工業株式會社。	川崎航空機工業(川	次グ。	規模及軍要性一於戶三	体五四五、爱勤機一三八	對心指定。	
	機	指来。	一餐	华		西		英之二	0	機	

護團 文書八六四

			NN 864- 37	第十二司
新規 地産高機体ニーの、 都下、立川。ニ及に三二群ン	萬千五百万耳。工學東京立川飛行機株式會社	三三0。機体九0。爱躺機生產高機体九0。爱躺機	一年名古屋。一"事产指定。一年一年一年一年一年一年一年一年一年一年一年一年一年一年一年一年一年一年一年	中十八分

帶護團側之者八六四

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٤	五百万田。工境横淡二及
	才 并
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	作シタルモノト看がい
製	少發動機 铸造部分了毛
1	恐多多發動機製造業事
	對心指定,生產高機体九五
	(航空機事業三户元)二及七三
H _o	爱见铁工所。 卷千五百万
	1869
1750	第七夏生产高機体六0. 發動
8	好 團 側文書八六四

雜護團 例文者八六四

第 古真 70 高 だ 工 = 0 看 10 塘 不 = 億 ラ うん 野ン 住 # 詳 国 友 坂 金 但シ 给 航 属 五 者 於上 工 右 對 業 工 生 レー 塘 產高 事業 株 式會 7 ち うり = アラズ 社。 生立生 主 要 3

白 t D 本 D 囚 樂 出出 製 灾工 出 專業 會

社

ラズ 埠 アエ

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護團 側文書八六四

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临 0 10 不 5 # 詳 但シ 給 者 右 工 塘 花 5 主 要

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D 本 樂 野品 製 出 式會 社

白 t 3 D 国 次工 專業

本 埠 アエ

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ノラズ

				428 RUGI	第十四受
高機体一〇一九三八年創立二三及四二朝工指旗生產	还济,工场東京及口平城。社、参千万四人之百五十万四块	行機工业	住友上分组之之八片、新分月二三八光的一点,现了一个一点,现了,此维生产人和命户	本"於兄殿古人"了了,工事的確无數字七。右工境八日	横线。五事之方指與生產高八

雜護團側文書八六四

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茅 古町 成 葬 元 塚 作 × 取空 来 134 海 7 横 指許 株 フ。 4 英見 0 式 3 矣, 10 烟 雷 5 南 × 6 難 * 社 初 西方 製 也 九 四 B = 期 出 七 * = 年 I \equiv 於之 后 E 制衫 平 立 =

東京石川島造

附

志 六百 D 航 於工 機 事業

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