HEADQUARTERS

U.S. STRATEGIC BOLBING SURVEY

APO 234

C/O POSTLASTER, SAN FRANCISCO

INTERROGATION No. 4

(Obtain from G-2)

PLACE: TOKYO DATE: 30 Sept.

Division of Origin: Aircraft Division.

SUBJECT: Japan Steel Structural Co., Funabashi Plant, Production Data.

Personnel interrogated and background of each:
ISHI ORI, Yonekishi, Plant Hanager.

There interviewed: At the Fanabashi Plant.

Interrogator: Lt. (jg) Leonard S. TYSON, USNR.

Surmary:

This plant was a rajor producer of fuselage components, engine cowlings, engine cooler and wings on sub contract from Nakijima, Hitsubishi and Kawanishi. By 1941 the plant had reached full size and was used entirely for war productation. Total employment was 9,000(some part time). Defense measures included countersinking of key machines and wide despersal of small units (sometimes a single machine) which resulted in considerable decline in production. No cancuflaging was employed.

Production was never held up by lack of raw material. The plant was never attached but many man hours were lost because of air raids. The required level of production retained constant although some of the contracting firms had bee distroyed.

Production records are available at the head office of Japan Structural Steel Co., Tokyo.

I-PRODUCTION DETAILS: Products: Plant was a m jor producer of fuselage components, engine cowlings, complete wings and engine coolers. All production was on sub-contract from Nakijima, Litusbishi and Kawaishi. The vings were for the Japanese Pavy's new fighter, George: Production of coolers was at the rate of around 500 per month. Other statistics were not readily available and would be gladly produced upon request. This plant was strted to be one of Japan's largest corponents plants. Production History: Plant was built in 1935 and preduced steel sashes and shutters until the China incident. The plant was quite small then. From 1937 to 1941 the plant was expanded and a/c components were manufactured along with the former products. The plant reached full size in 1941 and completely devoted itself to war production. 3. Operations: The plant worked a single shift of ten hours. Total employment, excluding office personnel, care to around 9,000, but about 3,000 of this number were students and other port-time workers. Subject stated that employed efficiency remained constant even with the influx of new labor. All roverent of materials within the plant was done by hand. There were no trolleys or overhead cranes. Counter-Leasures: About on -fourth of the more important machine tools were placed in deep pits cut in the floor of the plant. Only about one or two feet of the machinc extended above the level of the floor. There was room for only one worker alongside the rachine, and all material had to be handed down to hir ranually. Unnecessary buildings had been tern dom to make a firebreak, but there was no attempt to carouflage the plant. There were no AA batteries in the plant, but there was a 'eavily defended Navy transmitting station about a quarter of a mile to the east of the plant. Test noteworth of all was the attempt at dispersal. Large numbers of key rachines were removed to small worden stacks scattered over the surrounding fields and nearby forests. They had great nurbers of these and sometimes a single rachine constituted the entire factory. As a result of this dispersal, total production had fallen off. This was due not only to the long period of time during which the rackines were bein moved and therefore inoperative, but also to the general decline in efficiency resulting from suc decentralized production. 5. Shortages: Production was never held up because of a lack of raw materials. It was pointed out, however, that newer machine tools were badly needed but were unobtainable. Those observed in the plant were, for the most part, quit primitive when judged by American standards. There were, however, a few machines of the most modern type. Oil (probable lubricating oil since the plant was heated by coal and run by electricity) and also carbides were mentioned as being difficult to obtain. The plant had to reduce its consumption of electric power by 10% but this requirement was not easily and nover interfered with production. The supply of aluminum never presented difficulty. Effect of hir Raids: The plant received air raid - 2 -

warnings by phone and over the radio. The workers stayed in the plant until the planes could either be seen or heard. They remained in their shelters until all the planes had passed. It was stated that this often lasted from two to three hours. It was claimed that towards the end of the war air raids were almost a daily occurence and a considerable number of man hours were lost as a result.

- 7. Volume of Output: All operations were on subcentr et and the required level of production was transmitted to them each month by each of the firms. This level relained almost constant even though the principal plants of the firms involved had been destroyed by bending. This leads to the presumption that the parts produced by this unb-contracting firm must have been stockpaired by the recipients. All parts sent to Nakajima were delivered to Karzuma even though the Keizumi plant itself had been destroyed. Subject stated that presumably Nakajima then transshipped the parts to other plants where they could be used. The Litsubishi shipments were all to the Mitsubishi Nagoya plant even though this plant too had been destroyed. The parts for Kayanishi were sent to Aichi.
- 8. Records: Records of plant operation and production are readily available at the head of ice of Japan Structural Steel Co. (Nihon Kent-etsu K.K.) at Tokyo, Arakawa Ku, Mikawajia a Cho, 7 Chone 1750. The man in charge there is Laki, Akira. Should the head office be unable to furnish all the necessary data, the plant offices would be glad to supply them from their cam original records. Some data was never sent to the head office and would, if required, be available only at the plant. This information was ally of the most detailed type and all the necessary material should be available at the head office. The company had another and smaller plant in Tokyo, but this plant only produced steel products and was not in any way affiliated with aircraft production.

II RECO ENDED FOLLOW-UP:

1. No field investigation of this plant would be necessary. The operational records should, however, be obtained from the head office. Further inquiry is desirable on the reams by which the fir received their raw naturals.