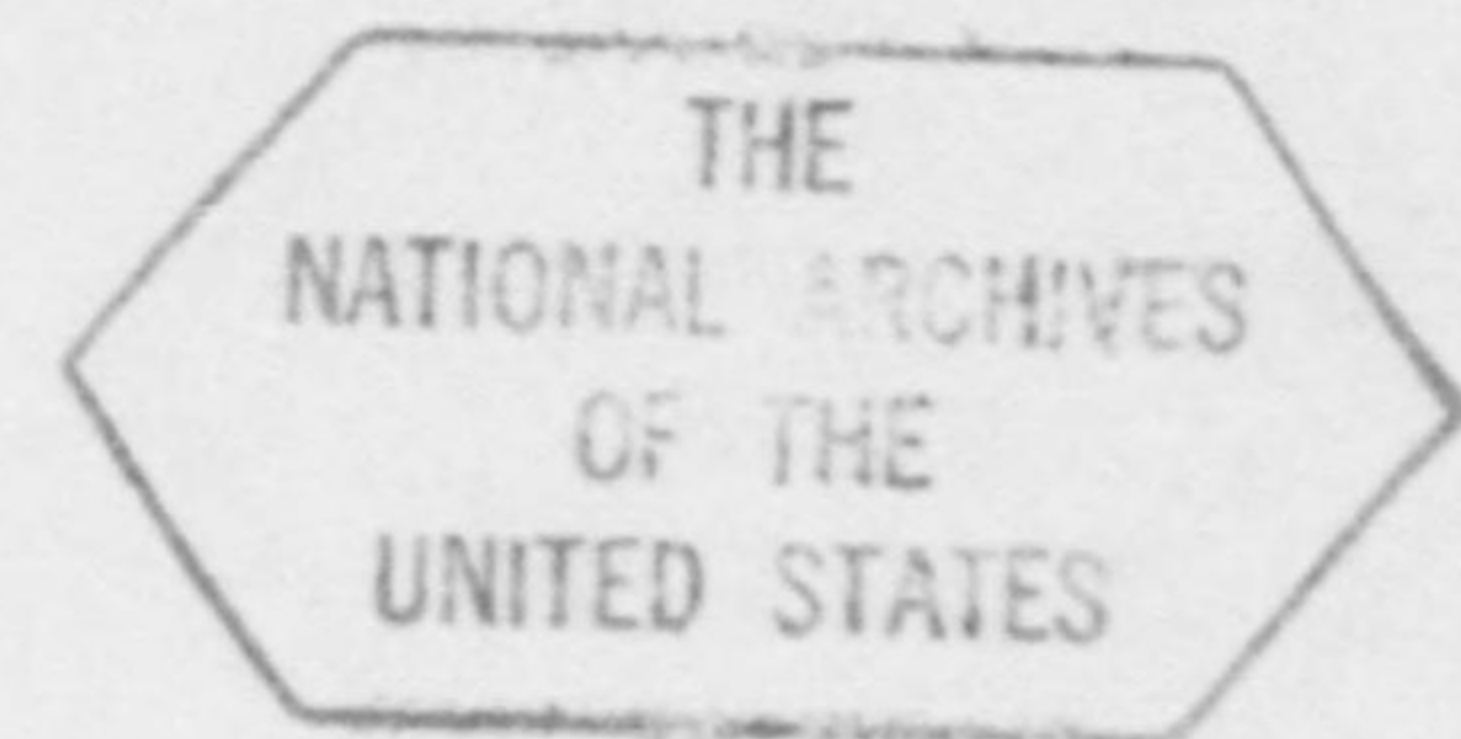


**GHQ/SCAP Records(RG 331)**  
**Description of contents**



- (1) Box no. 2720
- (2) Folder title/number: (11)  
Ikawa Dam
- (3) Date: June 1949 - Oct. 1949
- (4) Subject:

Classification	Type of record
9616	a, c, e

- (5) Item description and comment:  
Shizuoka

(6) Reproduction:  Yes  No

(7) Film no.

Sheet no.



SHIZUOKA PREFECTURAL GOVERNMENT

LIGAL	
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BY	
OFFICE	
INITIALS	
TIME	
DATE	
CENTRAL	

October 24, 1949

SUBJECT: Report on the Construction of the Ikawa Power Plant.

TO : Chief,  
Shizuoka Civil Affairs Team.

There was an increase in personnel by 3 engineers and 10 helpers.

And the topographical spot-surveying necessary for construction works as well as various investigation concerned with its project are being studied.

*I. Kameyama*  
I. KAMEYAMA  
Director,  
Liaison Office,  
Shizuoka Prefecture



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SHIZUOKA PREFECTURAL GOVERNMENT

Sept, 30 1949.

SUBJECT: Report<sup>on</sup> the Construction of the Ikawa Power Plant.

TO : Chief, Shizuoka Civil Affairs Team.

Plan is Progressing.

No change in persennel.

*I. Kameyama*

I. Kameyama.  
Director,  
Shizuoka Liaison Office.



*Kenji* *Public Works*

SHIZUOKA PREFECTURAL GOVERNMENT

July 25, 1949

CENTRAL FILE

SUBJECT: Report on the Construction of Ikawa Power Plant.

TO : Chief,  
Shizuoka Civil Affairs Team.

The subject report is hereby submitted to you as follows.

Now construction plan is being figured out. So the work is not set about yet so far.

*Administrative surveys work etc. started July 20 date. 10 Aug 49*

*Mr. A. Takahashi*

*Tobai map in for discussion -*

*begin to give work relief means.*

*Kameyama*  
Director,  
Shizuoka Liaison Office.

*approved*  
*Kenji*



*Col Apmann*

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SHIZUOKA PREFECTURAL GOVERNMENT

*a*

July 1, 1949.

SUBJECT : Report on the Construction of Ikawa Power Plant.  
 TO : Chief,  
 Shizuoka Civil Affairs Team.

The subject report is hereby submitted to you as per attached sheets.

*I. Kamayama*

I. Kamayama  
 Director,  
 Shizuoka Liaison Office.



1. For the 33 hydro-electric projects approved for the Japanese Government by General Headquarters, Supreme Commander for the Allied Powers in SCAPIN 6611-A, 3 June 1949, it is directed that the construction works will be commenced according to the priority which is shown in above letters, as finances and materials become available.

This Ikawa project will be started on its preparatory works, from Aug. 1949, if the United States Aid Fund \$100,000,000 required in 1949, will be available for this works.

2. The summary project of the said IKAWA Dam which is shown in the separated papers is, herewith, submitted but further elaborate examination is needed.
3. The Nippon Hassoden K.K. has settled Ikawa Surveying Office in Ikawa village, Abe county, Shizuoka Prefecture, since June 1948, where topographical spot-surveying necessary for construction works as well as various investigations concerned with its project are being studied.
4. The said Ikawa Surveying Office consists of 5 engineers and 1 clerk, including 5 assistants.



IKAWA PROJECT  
(Serial No.222)

1. GENERAL DESCRIPTION.

- a) The project is of a large reservoir type power plant up-stream Ooi River and at the boundary line between area of 50 cycle and that of 60 cycle. As this site can generate more than 100,000 KW even in dry season of winter and 21,000 KW can be added by down-stream existing power plants, this area will become a potent power source for Kanto & Kansai Districts.
- b) Dam site is very suitable as it is favoured by narrow stream with hard rocks, and the dam is also under such advantageous condition that with the same quantity of concrete as that is Miura Dam on Kiso River, storage capacity of this dam will be 130,000,000 m<sup>3</sup> which is twice as large as that of Miura Dam.
- c) Although dam site is in the valley up-stream of Ooi River, work can be advanced easily as aggregates for construction are available close by dam site.
- d) As the reservoir can store almost all flood water, and averages the discharge of the river, it will much contribute towards improvements of soil erosion, rivers and irrigations down-stream this river.



- e) As industries, and mainly timber industry of the district will be contributed by tracks and roads for this construction, the local people are quite cooperative, and expecting the work for a long time.
- f) Preparatory works such as laying of tracks and construction of roads should be started at first in this large-scale construction work.



2. OWNERSHIP Nippon Hassoden K.K.

3. COST OF CONSTRUCTION

(Estimated as of Sept. 1948)

a) Estimated Construction Cost. (Unit in ¥1,000)

Description	Amount	Remarks
Total	5,300,000	
Land & Privilege Acquisition	155,000	
Preparatory Construction	518,000	
Dam & Reservoir	1,495,000	
Water Way	444,000	
Power House	85,000	
Installation Machinery	1,468,000	
General Cost	405,000	
Construction Interest	649,000	
Indirect Cost	481,000	

b) Allocation of Cost in Fiscal Years (Unit in ¥1,000)

Already Installed	1948	1949	1950	1951
0	4,500	586,000	605,000	605,000

1952	1953	1954-	Total
900,000	1,100,000	1,505,000	5,300,000



- c) Unit Cost 45,000 yen per KW.  
8.40 yen per KWH.

d) Method of securing Funds.

By loans from Reconstruction Finance Bank until the economic Conditions of Japan is stabilized.

4. MATERIALS

a) Allocation of Required Materials in Fiscal Years

(Unit in Metric Ton)

Name of material	Already Installed	1948	1949	1950	1951	1952
Cement	0	0	6,000	11,980	35,960	35,960
Steel	0	20	380	400	810	2,400

1953	1954-	Required hereafter	Total
53,940	35,960	179,800	179,800
3,250	850	8,120	8,120

b) Unit Requisition (Unit in Metric Ton)

Name of Material	per KW	per 1,000 KWH
Cement	1.50 t	0.29 t
Steel	0.07 t	0.013 t

5. CONSTRUCTION TIME

75 Months







DAM:- Type of dam Concrete gravity

Dimension

Total length 211.0 m  
 Spillway length 57.0 m  
 Maximum height above bed rock 97.8 m  
 Concrete volume 580,000 cu.m.

Spillway gates

Number 5  
 Type Tainter gate  
 Dimension Width 9.0 m depth 8.0 m

INTAKE TOWER

Dimension

Diameter 5.0 m  
 Height 97 m

POWER HOUSE:-

Reinforced concrete structure

TURBINE:-

Number 1  
 Type Vertical Francis  
 Rated capacity 55,000KW  
 Speed 167 - 200 r.p.m.  
 Discharge at full gate 64.5 m<sup>3</sup>/s  
 Efficiency guaranteed 89%  
 Manufacturer Not ordered

GENERATOR:-

Number 1  
 Type A-C Vertical shaft  
 Rated capacity 55,000 KVA  
 Phase 3  
 Cycle 50 and 60 cycle  
 Voltage 11,000 V  
 Speed 167-200 r.p.m.



	Efficiency guaranteed	96%
	Manufacturer	Not ordered
TRANSFORMER:	Number	1
	Capacity	55,000 KVA
	Phase	3
	Cycle	50 and 60 cycle
	Voltage Primary	11,000 V.
	Secondary	154,000 V
	Method of cooling	Self-cooled



OPERATION DATE (BY MONTH FOR AN AVERAGE YEAR)

	Monthly average of daily Max. KW	Monthly Aver. KW	Generation :1,000 KWH	Monthly Load Factor (%)
Jan.	48,000	26,500 (13,900)	19,700 (10,300)	55
Feb.	48,000	26,300 (15,300)	17,800 (10,300)	54.6
Mar.	48,000	26,000 (20,200)	19,400 (15,000)	50
Apr.	48,000	15,200	11,300 ( 0 )	31.7
May	48,000	17,200	12,800 ( 0 )	35.8
Jun.	48,000	33,900	24,400	70.6
Jul.	48,000	40,400 (17,000)	30,000 (12,650)	82
Aug.	48,000	39,000 (17,000)	28,900 (12,650)	79
Sept.	48,000	23,600	17,500 ( 0 )	49
Oct.	48,000	29,800	22,200 ( 0 )	60
Nov.	48,000	21,600	16,000 ( 0 )	45
Dec.	48,000	29,600 (20,200)	22,000 (15,000)	61.8
Total			242,000 (75,900)	

Note : Figures in parenthesis show the increased generation by existing down stream plants.



## (2) OKUIZUMI POWER PLANT

LOCATION : On Ooi River, about 18 KM above Ooigawa Power Plant.  
 In Shizuoka Prefecture, Tokai District.  
 11 KM to Ooigawa Railway line at Senzu Station.

USE OF POWER : General power system for public utility

STATION OUTPUT : Maximum output 70,000 KW  
 Firm output 35,200 KW

ANNUAL GENERATION : 312,000,000 KWH  
 In dry season  
 (Dec. Jan. Feb. & March)  
 99,000,000 KWH

HEAD : For maximum discharge 144.0 m

DISCHARGE : For maximum output 60.0 cub. m/sec  
 For firm output 30 cub. m/sec

TUNNEL : Type Horse shoe shaped lined with concrete  
 Dimension  
 Dia. 4.96 m  
 Length 7.170 m

PENSTOCKS : Type 2 steel pipe  
 Dimension Diameter 3.6 m  
 Length 95.7 m

POWER HOUSE : Reinforced concrete structure

TURBINE : Number 2  
 Type Vertical Francis  
 Rated capacity 40,000 KW  
 Speed 250-300 r.p.m.



	Discharge at full gate	32 m <sup>3</sup> /s
	Efficiency guaranteed	88%
	Manufacturer	Not ordered
GENERATOR :	Number	2
	Type	A-C Vertical shaft
	Rated capacity	40,000 KVA
	Phase	3
	Cycle	50 and 60 cycle
	Voltage	11,000 V
	Speed	250-300 r.p.m.
	Efficiency guaranteed	96%
	Manufacturer	Not ordered
TRANSFORMER :	Number	2
	Capacity	40,000 KVA
	Phase	3
	Cycle	50 and 60 cycle
	Voltage primary	11,000 V
	Secondary	154,000 V
	Method of cooling	Self-cooled



OPERATION DATE ( BY MONTH FOR AN AVERAGE YEAR )

	Monthly average of daily Max. KW	Monthly Aver. KW.	Generation 1,000 KWH	Monthly Load Factor (%)
: Jan. :	70,000	: 33,800 :	25,100	: 48.2 :
: Feb. :	70,000	: 28,900 :	19,500	: 41.2 :
: March :	70,000	: 37,100 :	27,600	: 53 :
: April :	70,000	: 18,000 :	13,300	: 25.6 :
: May :	70,000	: 19,400 :	14,400	: 27.7 :
: June :	70,000	: 42,500 :	30,300	: 60.7 :
: July :	70,000	: 52,700 :	39,200	: 75 :
: Aug. :	70,000	: 50,500 :	37,600	: 72 :
: Sept. :	70,000	: 28,600 :	20,600	: 40.9 :
: Oct. :	70,000	: 41,300 :	30,800	: 57 :
: Nov. :	70,000	: 37,200 :	26,800	: 53 :
: Dec. :	70,000	: 36,000 :	26,800	: 51.5 :
: Total :			312,000	



JWJ/ky  
File~~July 15~~

8/2

HEADQUARTERS  
SHIZUOKA MILITARY GOVERNMENT TEAM  
APO 1007

9 June 1949

SUBJECT: "Approval of Hydro Electric Construction"

THRU: Japanese Liaison Office, Shizuoka.

TO: Nippon Hassoden KK

1. Among the 33 hydro-electric projects approved for the Japanese Government by General Headquarters, Supreme Commander for the Allied Powers in SCAPIN 6611-A, 3 June 1949 is the Ikawa Dam, Oi river, Abe-gun, this prefecture. The construction is awarded a class III priority.

2. This Headquarters requests notice of beginning of construction, whenever the project is commenced, and a monthly progress report thereafter which will advise of rate of progress and whatever difficulty encountered.

FOR THE COMMANDING OFFICER:

ANDREW E. FARRELL  
Major Cav  
Adjutant



HEADQUARTERS EIGHTH ARMY  
United States Army  
Office of the Commanding General  
APO 343

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AGMGEM 600.1

JUN 8 1949

SUBJECT: Approval to Start Hydro-electric Power Plant Construction

TO: Commanding Officer  
Shizuoka Military Government Team  
APO 1007

1. Reference is made to Operational Directive 11, dated 12 February 1948, subject, "Japanese Public Works and Reconstruction Program".
2. Routine surveillance will be exercised over the operations detailed in the attached copies of SCAPIN 6611-A concerning the construction of new hydro-electric power plant facilities within your zone of responsibility.

BY COMMAND OF LIEUTENANT GENERAL WALKER:

8

1 Incl:  
As indicated

*J. A. O'Brien*  
 J. A. O'BRIEN  
 CWO USA  
 Asst. JAG Gen.

*Shizuoka - Ken  
 IKAWA Dam  
 Abe Gun  
 Oi-gawa  
 "C" priority*

RECEIVED



GENERAL HEADQUARTERS  
SUPREME COMMANDER FOR THE ALLIED POWERS  
AFO 500

AG 600(3 Jun 49 )ESS/IND  
SCAFIN 6611-A

3 June 1949

MEMORANDUM FOR: JAPANESE GOVERNMENT

SUBJECT: Petition for Approval to Start Construction  
Within 1948 Fiscal Year of Hydro-electric Power  
Plant Construction Program

1. References:

a. C.L.C.O. letter 3585(2P), subject: Petition for Approval of Hydro-electric Power Plants Construction Program to be Started Within 1948 Fiscal Year, 16 October 1948.

b. C.L.C.O. letter 3780(2P), subject: Petition for Approval of Construction Projects of Narude Hydro-electric Power Plant and Thirty Others, 8 November 1948.

c. C.L.C.O. letter 3852(2P), subject: Correction of the Appendix of C.L.C.O. Memorandum No. 3585(2P), 16 November 1948.

d. C.L.C.O. letter 3887(2P), subject: Petition for Approval of Ono-gawa and Koto-gawa Hydro-electric Power Plants Construction, 19 November 1948.

e. C.L.C.O. letter 145(2P), subject: Petition for Approval of Construction Projects of Akamatsu and Fujinise Hydro-electric Power Plants, 21 January 1949.

2. There is no objection to the construction of the following thirty-three (33) projects. The implementation of the individual projects will be made in accordance with the priority indicated below, as finances and materials become available.

Priority	Project No.	Project Name	Owner	Prefecture
A	201	Narude	Nippon Hassoden Kabushiki Kaisha	Toyama
A	301	Shinyumura	"	Shimane
A	207	Hiraoka	"	Nagano
A	205	Takigoshi	"	"
A	101	Kubonai	"	Hokkaido
A	206	Gojoho	"	Fukui
A	501	Kosa	"	Kumamoto

Incl. 1



AG 600(3 Jun 49 )ESS/IND, 3 Jun 49 , SCAPIN 6611-A

<u>Priority</u>	<u>Project No.</u>	<u>Project Name</u>	<u>Owner</u>	<u>Prefecture</u>
A	212	Maruyama	Nippon Hassoden Kabushiki Kaisha	Gifu
A	208	Hakojima	"	Gumma
A	302	Morihara	"	Hiroshima
A	203	Shinjo	"	Kyoto
A	203	Rangoshi	"	Hokkaido
A	204	Numazawanuma	"	Fukushima
A	502	Tsuegawa	"	Oita
A	202	Shōmyōgawa	"	Toyama
A	209	Natsuse	"	Akita
A	401	Daigo Kurokawa	"	Kochi
A	506	Kamishiiba	"	Miyazaki
A	224	Yamabe	Japanese Govern- ment Railway	Niigata
A	504	Onōgawa	Oita Prefecture	Oita
A	223	Akamatsu	Showa Denko Kabu- shiki Kaisha	Nagano
B	210	Sasagamine	Nippon Hassoden Kabushiki Kaisha	Niigata
B	218	Asahi	"	Gifu
B	211	Uchigatani #1	"	"
B	102	Shikaribetsu #2	"	Hokkaido
C	222	Ikawa	"	Shizuoka
C	214	Arimine	"	Toyama
C	215	Wadagawa	"	"
C	216	Oshinayma	"	"
C	217	Hakawa #2	"	"
C	220	Tagokura	"	Fukushima
C	303	Gorisan #1	"	Hiroshima
C	221	Okutadami	"	(Niigata (Fukushima)

3. Construction of the following four (4) projects is not justified as presently submitted.

<u>Project No.</u>	<u>Project Name</u>	<u>Owner</u>	<u>Prefecture</u>
213	Mannami #1	Nippon Hassoden Kabushiki Kaisha	Gifu
219	Yagizawa	"	Gumma
505	Fujinose	"	Saga
503	Seki	"	Oita



AG 600(3 Jun 49 )ESS/IND, 3 Jun 49 , SCAPIN 6611-A

4. This memorandum shall not be construed as connoting any special prior claim on critical materials, services or finances, nor shall it be construed as relieving the respective owners of the proposed projects from making appropriate applications to the Holding Company Liquidation Commission and/or other jurisdictional agencies concerned for permission to expend funds and materials on each particular project set forth herein.

5. Direct communication between the Economic and Scientific Section, General Headquarters, Supreme Commander for the Allied Powers, and the Ministry of Commerce and Industry, regarding matters within the scope of this memorandum, is authorized.

FOR THE SUPREME COMMANDER:

*for R. M. Levy*  
R. M. LEVY  
Colonel, AGD  
Adjutant General