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THE WORLD BANK

Washington, D.C.

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1857749

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Kansai Power Project (02) - Japan - Loan 0196 - P037428 - Administration - Volume 4

Administration 04

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RETURN TO
OPERATIONAL FILES

JAPAN

196 JA - Administration IV

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June 20	Quinn Lowdon	Aug 3
Aug 17	Butcher	Aug 18
Sept 20	Lozie	Oct 13
June 9, 67	Hinnig	July 5
Sept 6	"	

Mr. Charles H. White

6
July 29, 1964

E. A. Minnig

JAPAN - Loan No. 196-JA, Kurobe Dam
Resume of Activities of the International Board of Consultants

International Board of Consultants:

Messrs. John J. Hammond, USA
Claudio Marcello, Italy
Alfred Falconnier, Switzerland
Edward B. Burwell, Jr. USA
Henri Gicot, Chairman, Switzerland

Correspondence and Reports:

1. Terms of Reference to Board from IBRD, April 27, 1960
2. First Site Inspection by the Board, May 14-17, 1960
3. First Report to IBRD of Board on Inspection, May 26, 1960
4. Joint Report of Kansai Power and Electroconsult re modifications to the original design, to permit dam to be constructed to full height. Aug. 1960.
5. Review of this report by Board and discussions with Kansai Power, Electroconsult and Bank in Washington, D.C., August 20, 1960.
6. Board's comments and conclusions re modifications contained in letter report of August 22, 1960
7. Second Site Inspection by Board, May/June 1961, including visit to ISMES laboratory in Bergamo, Italy.
8. Conferences held with representatives of Kansai Power, Electroconsult, ISMES and Bank during this period in Milan and Paris.
9. Second Report by Board on conferences in Japan, Italy and France, dated June 8, 1961
10. Report by Kansai Power and Electroconsult re right bank wingwall and proposal of Board to design blocks 20 to 22 as a gravity structure.
11. Meeting of Board in Milan with representatives of Kansai Power, Electroconsult and Bank to review findings of above report. November 1961.
12. Letter report of Board to Bank on the conclusions and recommendations resulting from the above meeting in Milan dated November 5, 1961.

13. Third Site Inspection by Board to review in situ rock testing results and further examination of the dam site. April 25-May 4, 1962
14. Meeting of Board in Paris with representatives of ISMES, Electroconsult Interfels, Kansai Power and Bank. May 25-31, 1962
15. Third Report by the Board on the inspection, conferences mentioned under 13 and 14 above, dated May 31, 1962
16. Letter to Kansai Power from Bank re continuation of quarterly reports on work of consolidation and grouting of abutments as well as on continued reading of instruments with decision on the gradual increase of the storage level during the next two cycles. January 31, 1964
17. Letter to Mr. Claudio Marcello from Bank re timing, location and scope-review of future meeting, June 17, 1964
18. Letter from Mr. H. Gicot to Bank re meeting of Board at future date to discuss results of measurements to date. June 22, 1964
19. Reply to Letter of Mr. Gicot by Bank, dated July 6, 1964 re:
 - i) Duration of Board's assignment at least until recommendations made by the Board are fully accepted and their implementation is undertaken.
 - ii) Proposed further meetings. On initiative of Bank, subject to opinion of Board members, after they have individually reviewed progress reports, on need of review by convened Board.
20. Letter from Mr. Claudio Marcello to Bank dated July 8, 1964. Mr. Marcello is of the opinion that Board has been dismissed.
21. Letter to Kansai Power from Bank suggesting meeting later in 1966, dated March 1, 1966.

Apart from the above correspondence, extensive correspondence was exchanged between the Bank, the Board and Kansai Power in the Period October-December 1962 with regard to initial operation of Kansai storage. This correspondence was due to Kansai's disregard of the Board's recommendations to keep the reservoir level below elevation 1400 m until remedial treatment of both abutments was completed. This resulted in visits to Kurobe dam by Mr. G. A. Hathaway in October 6, 1962 and by Mr. H. Gicot on October 17, 1962. In a report dated November 8, 1962 Mr. Gicot recommends the following raising schedule, if the reservoir should reach only elevation 1405 m or less in 1962:

August 1963	El. 1415 m
August 1964	El. 1425 m
August 1965	El. 1435 m
August 1966	El. 1435 m

as against the original proposal submitted in the Third Report of the Board, dated May 31, 1962 of:

End of 1962	El. 1415
August August 1963	El. 1425
August 1964	El. 1435
August 1965	El. 1435

subject to following recommendations:

1. Elevation of water surface should not exceed the elevation to which remedial treatment of the foundation rock including weak zone replacement, etc.; grouting and drainage have been completed.
2. Instruments installed to be carefully observed during the raising and lowering of the water surface each year.
3. In case of any serious movement, the raising of the water surface to be stopped and reservoir drawn down.
4. If the behavior of the dam and abutments in 1964 and 1965 demonstrate elastic behavior then water surface elevation

1966	El. 1442
1967	El. 1448 - max. W.L.

Progress of remedial treatment of right abutment was slow in that instead of completion by November 1962 to El. 1400 new schedule for this elevation was June 1963. Further, Mr. Gicot recommended that the elevation of the water surface in 1962 could be raised to El 1407-1408 on the condition that the additional means of measurement be set up in November 1962.

Electroconsult, Consultant of Kansai Power, expressed agreement to Mr. Gicot's views, however, Mr. E.B. Burwell was of the opinion that El. 1400 should not be exceeded in 1962.

Mr. Falconnier agreed to the proposal of Mr. Gicot for the water surface level in 1962, i.e., El. 1407, however, for the following years gave the levels below:

August 1963	El. 1417
August 1964	El. 1427
August 1965	El. 1427
August 1966	El. 1435
August 1967	El. 1435
August 1968	El. 1442
August 1969	El. 1442
August 1970	El. 1448 Max. W.L.

Mr. Claudio Marcello in his comments to Mr. Gicot's proposals states in a letter dated January 16, 1963:

1. The storage schedule May 1962 was conditional on the completion of work up to El. 1415 by the end of 1962. For this reason the schedule given in May 31, 1962 report was to be revised to take into account the progress of the work and the observations on the behavior of the dam.
2. The progress of remedial work below El. 1415 is far from complying with the condition set in report of the Board.
3. Since the behavior of the dam has, up to date, been satisfactory and assuming that the remedial work below El. 1415 be completed in the first half of 1963, the next raising of the storage from 1400 to 1415 may be made in 1963.

In other words Mr. Marcello is of the opinion that the water surface level should in 1962 not exceed El. 1400 in accordance with the May 31, 1962 report. Mr. Hammond's reaction to Mr. Gicot's proposal was "either plan of raising the reservoir water surface suggested by Mr. Gicot, will be satisfactory to me. However, I would not permit Kansai Power to follow the schedule recommended in the Board's report, since construction progress has been slower than was anticipated." Mr. Hammond expresses more concern to the effect of draw-down to El. 1380 by April 1963 and raising to El. 1420 by August 1963. This is considered more serious, especially on the foundation of the wing walls, if treatment of the rock foundations up to the elevation of the resulting water level is not completed on time.

This lengthy resume of the above incident is intended to demonstrate the confusion caused by individual opinion of Board members rather than a single opinion of the Board.

From the above it is clear that Mr. Gicot's attitude as stated in his letter of June 22, 1964 is correct, in which he mentions "I did examine these papers (Kansai progress reports) in order to satisfy my personal interest, but as chairman of the Board, I should make clear the present situation of the Board towards the Bank".

From the reading of the correspondence the following points require, in my opinion, to be cleared up:

1. The International Board of Consultants should be informed that this assignment in respect to Kurobe dam, will continue at least to the date that the structure has proved to behave in a reliable and safe manner under full operating conditions.
2. The International Board of Consultants should convene at least once per year to discuss the results of the behavior of the dam during the preceding years and to determine and recommend the maximum water surface level for the coming year.

3. Kansai Power must retain Electroconsult to analyze the results of measurements and observations on the behavior of the dam and to give Kansai their opinion and advice. This is imperative seeing that the May 31, 1962 report of the Board states "Electroconsult as designers of the dam should be kept informed of its behavior, and their responsibility does not cease when construction has been completed."

Recommendation

Based on the above it is therefore suggested that the Board convene sometime in the autumn of this year to review the present situation and future action. Such a meeting could take place in Washington, D.C. The initiative for this meeting should be taken by the Bank. The Board would prepare and issue to the Bank a report on their current review. After this meeting the following schedule is suggested:

1. Board meeting combined with site inspection in May/June 1967. The Board's review would cover the two years operation at EL. 1435 M. If the results of the dam behavior prove to be satisfactory, the water surface level could be increased to EL. 1442 M. Meeting of the Board at the initiative of the Bank. Participants should be:

Board
Kansai Power
Electroconsult and
Bank

2. Board meeting on the initiative of the chairman of the Board in Europe in May/June 1968 to review the observations and measurements of the first year's operation at water surface level of EL. 1442 M.
3. Board meeting combined with site inspection in May/June 1969. The Board's review would cover the two years' operation at EL. 1442 M. If the results of the dam behavior prove to be satisfactory, the water surface level could be increased to EL. 1448. Meeting of the Board at the initiative of the Bank. Participants should be:

Board
Kansai Power
Electroconsult
Bank

4. Board meeting on the initiative of the Chairman of the Board in Europe in May/June 1970 to review the observations and measurements of the first year's operation at water surface level of EL. 1448 M. Participants should be members of the Board only.

July 29, 1966

5. Board meeting combined with site inspection in May/June 1971. The Board's review would cover the two consecutive years' operation at El. 1448 M. Meeting of the Board at the initiative of the Bank. Participants should be:

Board
Kansai Power
Electroconsult
Bank

Preparation of a final report by the Board in Washington, D.C. On the assumption that the behavior of the dam has proved to be completely satisfactory, the meeting of this year and the report issued would be the final meeting and the Board's activity with respect to Kurobe dam would terminate.

However, Kansai Power would continue to submit to the Bank annually a report of the continued measurements in accordance with recommendations as made by the Board in their final report.

EAMinnig:hak

July 29, 1966

The Kansai Electric Power Co., Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Dear Sirs:

I acknowledge with thanks your letter of July 14, 1966, and the two copies of Progress Report No. 30 on the Kurobe dam, covering the period January 1 - June 30, 1966.

According to your letter and your report, it is your intention to raise the reservoir water level for 1966 up to El 1440m, as from August 20, 1966, this action being based on an understanding reached in Washington on the occasion of Mr. Nose's visit in June of this year.

I regret to inform you that both Mr. Lithgow and I have no recollection of any such understanding being reached at this meeting; furthermore, any increase in water level would be in conflict with the recommendation of the International Board of Consultants, to keep the water level at El 1435m for two consecutive years.

It is therefore considered that the level of El 1435m be the maximum level for 1966 as agreed by you in your letter dated February 5, 1966.

Your report is being given further consideration and we are also considering reconvening the Board later this year in accordance with our previous letter to you of March 1, 1966.

Yours sincerely,

Charles H. White
Chief, Power Section I
Projects Department - Public Utilities

EAMinnig/CHWhite:mam
IBRD

cc: Operational file, Division file
Messrs. White, Minnig

ack Aug 10

July 26, 1966

The Kansai Electric Power Co., Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

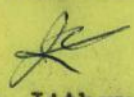
Re: Loan No. 196 JA

Gentlemen:

We acknowledge with thanks receipt of your letter dated July 14, 1966 with which you enclosed two copies of Progress Report No. 30 on the Kurobe Dam for the period ended June 30, 1966.

Doc # 81

Very truly yours,



J.C. Lithgow
Chief, Power Section II
Projects Department - Public Utilities


af
IBRD

1966 JUL 27 PM 3:10
COMMUNICATIONS
RECEIVED

July 26, 1966

The Kansai Electric Power Co., Inc.
2 Nakamoshira 3-Chome, Kita-Ku
Osaka, Japan

Re: Loan No. 196 JA

Gentlemen:

We acknowledge with thanks receipt of your letter dated July 14, 1966 with which you enclosed two copies of Progress Report No. 30 on the Kurobe Dam for the period ended June 30, 1966.

Very truly yours,



J.C. Lathrop
Chief, Power Section II
Projects Department - Public Utilities

1966 JUL 27 PM 3:10

RECEIVED
GENERAL FILES
COMMUNICATIONS



IBRD

JA 196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3 CHOME, KIYA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

July 14, 1966

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

Projects Dept. Correspondence

ANS'D BY *le*

DATE _____

Case Doc # 8

Dear Mr. Piccagli:

We are forwarding to you under separate cover two copies of our Progress Report No.30 on the Kurobe Dam, for the period ended June 30, 1966.

Besides, a copy of the report will be forwarded directly to each member of the Bank's Board of consultants as has been done in the past.

As mentioned in the Progress Report, the reservoir water level for 1966 is scheduled to be raised gradually another 5 meters i.e. up to EL. 1440 m from 20th August.

This decision is based on the field data which are generally satisfactory and on the understandings with Mr. Lithgow and Mr. Hathaway by the chance of Mr. Nose's visit in Washington June '66.

With our best wishes for your further assistance and cooperation, we remain

Very truly yours,

Eiji Matsumoto

Eiji Matsumoto
Senior Managing Director

1966 JUL 15 11:51 AM
COMMUNICATIONS
RECEIVED

*acknowledged
7/26/66
af.*

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

2 NAKAHOHIMA 3 CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

July 14, 1966

Mr. Mario Piccazzi
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

Projects Dept. Correspondence

AND BY

DATE

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This decision is based on the field data which are generally satisfactory and on the understandings with Mr. Litgow and Mr. Hathway by the chance of Mr. Nose's visit in Washington June '66.

With our best wishes for your further assistance and cooperation, we remain

Very truly yours,

Eiji Matsumoto

Eiji Matsumoto
Senior Managing Director

*Received
7/25/66
1/2/66*

1966 JUL 21 PM 12:27
RECEIVED
GENERAL FILES
COMMUNICATIONS

July 6, 1966

Mr. Masahisa Higashi
Manager, Construction Department
The Kansai Electric Power Co. Inc.
5 Nakanoshima 3-chome, Kita-ku
Osaka, Japan

Dear Mr. Higashi:

(in Japanese only)- In Mr. Piccagli's absence, it gives me pleasure to acknowledge and thank you for your letter of June 25, 1966 and the copy of "Civil Engineering Work of Kurobegawa No.4 Hydro Power Station". Your letter will be brought to Mr. Piccagli's attention on his return to the office at the beginning of September.

Yours sincerely,

J. C. Lithgow
Chief, Power Section II
Projects Department - Public Utilities

JA 196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

June 25, 1966

Mr. Mario Piccagli
International Bank for Reconstruction
and Development
1818 H Street, N. W.
Washington, D. C.
U. S. A.

Projects Dept. Correspondence

ANS'D BY JChithgow

DATE July 6/66

Dear Mr. Piccagli:

We are forwarding under separate cover one copy of Civil Engineering Work of Kurobegawa No.4 Hydro Power Station (presently available only in Japanese unfortunately) for your file, which was completed just recently. It covers various experiences in new designs and techniques in the work performance, unexpected difficulties and measures taken therefor.

May we take this opportunity to extend our constant gratitude for the kind assistance and cooperation by your esteemed Bank in the construction of the project, which took seven years from July, 1956 to June, 1963.

Yours very faithfully,

Masahisa Higashi
Masahisa Higashi
Manager, Construction Dept.

1966 JUL -2 AM 8:03
COMMUNICATIONS
RECEIVED

7A 1A6

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

June 25, 1966

Mr. Mario Piccagli
International Bank for Reconstruction
and Development
1818 H Street, N. W.
Washington, D. C.
U. S. A.

Projects Dept. Correspondence

ANS'D BY

DATE

Dear Mr. Piccagli:

We are forwarding under separate cover one copy of Civil Engineering Work of Kurobe-gawa No. 4 Hydro Power Station (presently available only in Japanese unfortunately) for your file, which was completed just recently. It covers various experiences in new designs and techniques in the work performance, unexpected difficulties and measures taken therefor.

May we take this opportunity to extend our constant gratitude for the kind assistance and cooperation by your esteemed Bank in the construction of the project, which took seven years from July, 1956 to June, 1963.

Yours very faithfully,

Masahisa Higashi
Masahisa Higashi
Manager, Construction Dept.

1966 JUL - 5 AM 8:09

COMMUNICATIONS
GENERAL FILES
RECEIVED

April 4, 1966

Mr. Seizo Yoshimura
Executive Vice President
The Kansai Electric Power Co., Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Dear Mr. Yoshimura:

I am pleased to reply to your letter of March 26, 1966 to Mr. Woods. Thank you very much for the information regarding the proposed partial transfer of ¥ 5,300,682,000 from the Revaluation Surplus to the Capital Account and the proposed issuance on August 31, 1966 of 53,006,820 new shares of common stock. We appreciate your keeping us informed of your plans.

Sincerely yours,

Gordon M. Street
Far East Department

cc: Messrs. Woods, Webb, Charles White, Bennett.

GMStreet:mcl
IBRD

ROUTING SLIP

Date
March 31, 1966

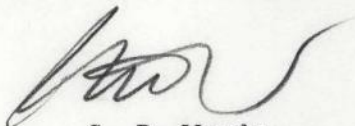
OFFICE OF THE PRESIDENT

Name	Room No.
Mr. Goodman	
Mr. Street	

To Handle	Note and File
Appropriate Disposition	Note and Return
Approval	Prepare Reply
Comment	Per Our Conversation
Full Report	Recommendation
Information	Signature
Initial	Send On

Remarks

Please handle with a copy of your reply to this office for record purposes.



G. D. Woods

From

logged
MAR 31 REC'D
JA-196

THE KANSAI ELECTRIC POWER Co., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

March 26, 1966

Mr. George D. Woods
President
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C. 20433
U. S. A.

Dear Mr. Woods:

It is advised that the Board of Directors of our company has resolved at the regular meeting held on March 26, 1966 the issuance of new shares as outlined in the attached sheets.

Your kind attention to the above matter will be highly appreciated.

Very truly yours,

Seizo Yoshimura
Seizo Yoshimura
Executive Vice President

MAR 31 1966
COMMUNICATIONS
SECTION

ack April 4

MAR 31 RECD

The Kansai Electric Power Co., Inc.

(KANSAI DENRYOKU KAISHA)
5 NAKAOSHIMA 2 CHOME, NITA-KU
OSAKA, JAPAN

CABLE ADDRESS: KANSAIPOWER OSAKA

March 26, 1966

Mr. George D. Woods
President
International Bank for
Reconstruction and Development
1111 N Street, N.W.
Washington, D.C. 20433
U.S.A.

Dear Mr. Woods:

It is advised that the Board of Directors of our company has
resolved at the regular meeting held on March 26, 1966 the issuance
of new shares as outlined in the attached sheets.

Your kind attention to the above matter will be highly appre-
ciated.

Very truly yours,

[Signature]
Executive Vice President

1966 MAR 31 AM 10:18

RECEIVED
GENERAL FILES
COMMUNICATIONS

Outline of Partial Transfer of Revaluation
Surplus to Stated Capital and Issuance of
New Shares Consequent Thereon.

- (1) The sum of ¥5,300,682,000, being a part of the revaluation surplus, shall be transferred to stated capital as of September 1, 1966.
- (2) Consequent on the transfer as stated in the preceding paragraph, new shares shall be issued as follows:
 1. Number of New Shares to be Issued:

53,006,820 shares of non-bearer par value common stock.
 2. Method of Allotment:

New shares to be allotted to the shareholders as of 3:00 p.m. on June 20, 1966 (Monday) at the rate of 3 new shares to 10 shares then held.

Fractional shares less than one share resulting from the above allotment shall be publicly offered en bloc and the balance of the proceeds after deducting the subscription price from the issue price shall be distributed among the shareholders allotted such fractional shares according to number of such fractional shares.
 3. Issue Price: ¥500 per share
 4. Subscription Price: ¥400 per share. (The sum of ¥100 out of the ¥500 issue price shall be covered by the sum transferred from the Revaluation Surplus to the Stated Capital.)
 5. Amount of Deposit for Subscription: ¥400 per share. This amount shall be applied to the payment for subscription on the date of payment. Deposit for subscription shall bear no interest.
 6. Period of Subscription:

From August 9, 1966 (Tuesday) to August 19, 1966 (Friday), both inclusive.
 7. Date of Payment for Subscription: August 31, 1966 (Wednesday).
 8. Matters concerning offering of fractional shares and shares which shall not have been subscribed during the period of subscription and other matters necessary in regard to this issuance of new shares shall be determined by the board of directors at a later date.
 9. The offering of new shares as described in the preceding paragraphs in Japan and in the United States of America shall be subject to the coming into effect of filings required thereto in accordance with the laws and regulations of the country concerned.

Outline of Issuance of New Shares
by Public Offering

In order to round out fractions of the stated capital, the new shares shall be issued as follows and these shall be offered publicly in Japan:

(1) Number of new shares to be issued:

303,780 shares of non-bearer par value common stock.

(2) Issue Price:

At a price not less than the par value.

(3) Date of Payment for Subscription:

August 31, 1966 (Wednesday).

(4) The method of public offering, issue price and other matters necessary in regard to this issuance of new shares shall be determined by the board of directors at a later date.

(5) The offering of new shares as described in the preceding paragraphs shall be subject to the coming into effect of filings required thereto in accordance with the laws and regulations.

Op. Files.
JA 196

March 23, 1966

The Kansai Electric Power Co., Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka
JAPAN

Re: Loan 196 JA

Gentlemen:

Thank you for your letter of March 15, 1966 addressed to Mr. White. He is out of the country at present. On his return about the end of this month I shall see that your letter is brought to his attention.

Very truly yours,

J.C. Lithgow
Chief, Power Section II
Projects Department - Public Utilities

IGButcher:af
IBRD

M. B. [Signature]

No reply required
[Signature]

We should make sure we get the report by the plane to July 1966

[Signature]

JA 196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

March 15, 1966

Mr. Charles H. White
Chief, Power Section I
Projects Dept. - Public Utilities
International Bank for Reconstruction
and Development
1818 H Street, N. W.
Washington, D. C. 20433, U. S. A.

Projects Dept. Correspondence

ANS'D BY

JK
March 25, '66

DATE

Dear Mr. White,

We acknowledge with thanks your letter of March 1, 1966.

We would like to answer you for two questions involved in your letter. The first of which is the question about reservoir operation and the second is continuation of measurements of dam and its foundation.

As for the former, the storage and release of reservoir water has been controlled following the recommendations of I.B.R.D. Board of Consultants and advice of electroconsult, except minor difference in water raising velocity.

As for the latter, all measurements, surveys and accurate observations should strictly be continued as ever, even every day for some important elements, a part from sending periodical reports.

Analitical studies for these data has also been continued in our side which are expected to give fairly interesting interpretation on the behavior of total structure.

The next Progress Report will be sent covering up to the end of July, according to your request.

The meeting, which you have suggested in your letter, will be useful to examine together with the behavior of the dam and to get final conclusions on the extent of the problem, though nothing specially abnormal could be found up to present.

Yours sincerely,

Eiji Matsumoto

Eiji Matsumoto
Senior Managing Director

THE KANSAI ELECTRIC POWER CO. INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

2 KARAKORINUMA 3 CHOME, MIYAKO
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

March 12, 1966

Mr. Charles H. White
Chief, Power Section I
Projects Dept. - Public Utilities
International Bank for Reconstruction
and Development
1818 H Street, N. W.
Washington, D. C. 20433, U. S. A.

Projects Dept. Correspondence

ANS'D BY

DATE

Dear Mr. White,

We acknowledge with thanks your letter of March 1, 1966.

We would like to answer you for two questions involved in your letter. The first of which is the question about reservoir operation and the second is continuation of measurements of dam and its foundation.

As for the former, the storage and release of reservoir water has been controlled following the recommendations of I.R.D. Board of Consultants and advice of electroconsultant, except minor difference in water retarding velocity.

As for the latter, all measurements, surveys and accurate observations should strictly be continued as ever, even every day for some important elements, a part from sending periodical reports.

Analytical studies for these data has also been continued in our side which are expected to give fairly interesting interpretation on the behavior of total structure.

The next Progress Report will be sent covering up to the end of July, according to your request.

The meeting, which you have suggested in your letter, will be useful to examine together with the behavior of the dam and to get final conclusions on the extent of the problem, though nothing specially abnormal could be found up to present.

Yours sincerely,

1966 MAR 18 AM 9:14
RECEIVED
GENERAL FILES
Senior Managing Director
Matsuzono
COMMUNICATIONS

March 1, 1966

The Kansai Electric Power Co., Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka
JAPAN

Doc # 12
✓

Dear Sirs:

I acknowledge with thanks your letter of February 5, 1966, and the two copies of Progress Report No. 29 on the Kurobe dam covering the period ending October 1 - December 31, 1965.

You ask in your letter if we would have any objections to the next progress report covering a period of twelve months instead of three months since the maximum water level of the Kurobe reservoir is still El. 1435 meters.

Before we could agree to your request we would like to know if you have accepted the advice given by Electroconsult on the storage and release of water in the reservoir and that you are keeping records of all observations of dam and abutment deformations.

If, in fact, you have accepted this advice and are keeping records it seems to us that it should be possible later in 1966, after the spring storage period, to draw some final conclusions on the extent of the problem and we feel that a meeting about this time, in which we would participate, would be useful.

In any case, even if we agree quarterly reports are not necessary in future we would like to receive a report covering the period up to June 30, 1966.

Yours sincerely,

Charles H. White
Chief, Power Section I
Projects Department - Public Utilities

cc: Operational file
Division file

CHWhite:mam
IBRD 196JA

JA-196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

*Ack. J. H. White
March 1, 1966*

CABLE ADDRESS
"KANSAIPOWER OSAKA"

February 5, 1966

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C.
U. S. A.

Dear Mr. Piccagli:

We are forwarding to you under separate cover two copies of our Progress Report No.29 on the Kurobe Dam, for the period ended December 31, 1965.

Besides, a copy of the report will be forwarded directly to each member of the Bank's Board of Consultants as has been done in the past.

[Handwritten scribble]

We will send to you, if you have no objection, the next Progress Report No.30 towards the end of this year instead of the present every three months, because the maximum water level of Kurobe reservoir in 1966 is EL. 1435m as in 1965.

With our best wishes for your further assistance and cooperation.

Very truly yours,

Eiji Matsumoto

Eiji Matsumoto
Senior Managing Director

RECEIVED 13 JUN 11 28
COMMUNICATIONS
RECEIVED
RECEIVED

[Handwritten signatures and scribbles]

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KANSHU KAIHA)
3 KARAKUSHIMA 2-CHOME, MIYAKO
OSAKA, JAPAN

CABLE ADDRESS
KANSAIPOWER OSAKA

February 5, 1966

Mr. Mario Pioscafi
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 R Street, N. W.
Washington, D. C.
U. S. A.

Dear Mr. Pioscafi:

We are forwarding to you under separate cover two copies of
our Progress Report No. 29 on the Karobe Dam, for the period ended
December 31, 1965.

Besides, a copy of the report will be forwarded directly to each
member of the Bank's Board of Consultants as has been done in the past.

We will send to you, if you have no objection, the next Progress
Report No. 30 towards the end of this year instead of the present every
three months, because the maximum water level of Karobe reservoir in
1966 is 1435m as in 1965.

With our best wishes for your further assistance and coopera-
tion.

Very truly yours,

Shigeo Matsumoto
Shigeo Matsumoto
Senior Managing Director

RECEIVED
GENERAL FILES
COMMUNICATIONS
1966 FEB 19 AM 11:58

JA 196

November 16, 1965

The Kansai Electric Power Co., Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

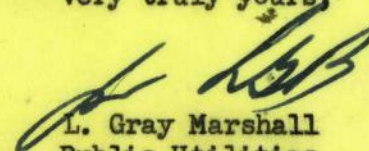
Re: Loan No. 196 JA

Gentlemen:

We acknowledge with thanks receipt of your letter dated
November 5, 1965 with which you enclosed two copies of Progress
Report No. 28 on the Kurobe Dam for the period ended September 30, 1965.

Doc # 83 ✓

Very truly yours,



L. Gray Marshall
Public Utilities
Projects Department

af
IBRD

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

November 5, 1965

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C.
U. S. A.

Doc # 83
Dear Mr. Piccagli:

We are forwarding to you under separate cover two copies of our Progress Report No.28 on the Kurobe Dam, dated end of September, 1965.

Besides, a copy of the report will be forwarded directly to each member of the Bank's Board of Consultants as has been done in the past.

With our very best wishes for your further assistance and cooperations.

Very truly yours,

Eiji Matsumoto

Eiji Matsumoto
Senior Managing Director

acknowledged
11/16/65
af.

1892 NOV 15 6 41 10 58

RECEIVED

The Kansai Electric Power Co., Inc.

(KANSAI DENRYOKU KABUSHI KAISHA)

5 KARAKOSHIMA 2-CHOME, KITAHU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

November 2, 1965

Mr. Mario Piccazzi
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C.
U. S. A.

Dear Mr. Piccazzi:

We are forwarding to you under separate cover two copies of
our Progress Report No. 38 on the Kurobe Dam, dated end of September,
1965.

Besides, a copy of the report will be forwarded directly to
each member of the Bank's Board of Consultants as has been done in
the past.

With our very best wishes for your further assistance and
cooperations.

Very truly yours,

Kenji Yamamoto
Senior Managing Director

*acknowledged
11/10/65
of*

1965 NOV 12 PM 10:28

RECEIVED
GENERAL FILES

IDA	IBRD	IFC
FORM NO. 92 (10-61)		
CORRESPONDENCE RECORD FORM		
FROM	DATED Nov. 1, 1965	
KANSAI ELECTRIC POWER CO., INC/ Osaka, Japan		
SUBJECT Progress report No.28 on Kurobe Dam. July 1 -- Sept. 30,1965		
REFERRED TO Projects 300	DATE RECEIVED Nov. 12, 1965	
jgv		

MR. GRAY MARSHALL

JA-196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

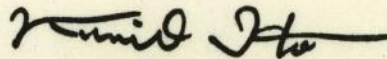
October, 1965

Dear Sir:

The enclosed brochure is our "Current Information 1965" covering the outline of our company's activities. We send it to you in the hope that it will be of interest to you.

In forwarding the brochure, we wish to express our sincere thanks for your usual support and interest in our company.

Yours faithfully,



Kunio Ito
Manager
Financing & Accounting Dept.

1002 OCT 22 AM 2:13

COMMUNICATIONS
GENERAL LINES
TELEPHONE

acknowledged
10/29/65
af

2A-172

MR. GRAY MARSHALL
RECEIVED

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENKOKU KAWANISHI KAISHA)

2 KARAKUSHIMA 3-CHOME, KITA-KU

OSAKA, JAPAN

CABLE ADDRESS
KANSAIPOWER OSAKA


October, 1965

Dear Sir:

The enclosed brochure is our "Current Information 1965" covering the outline of our company's activities. We send it to you in the hope that it will be of interest to you.

In forwarding the brochure, we wish to express our sincere thanks for your usual support and interest in our company.

Yours faithfully,



Kenji Ito
Manager
Planning & Accounting Dept.

1965 OCT 25 AM 9:43

RECEIVED
GENERAL FILES
COMMUNICATIONS

acknowledged
10/25/65



RESTRICTION NOTICE

Print Form

File Title Japan - Kansai Power Project (02) - Administration 04	Barcode Number 1857749
--	--------------------------------------

Document Date Sep 30, 1965	Document Type Letter
--------------------------------------	--------------------------------

Correspondents / Participants
Carlo Berghinz, ELC electroconsult to Mario Piccagli

Subject / Title
Professional services for Kurobe

Exception Number
 1 2 3 4 5 6 7 8 9 10 A-C 10 D

Reason for Restriction
Confidential Client/third Party Inforamtion

The items identified above have been restricted in accordance with The World Bank Policy on Access to Information. This Policy can be found on the World Bank Access to Information website.

Withdrawn By Sherrine M. Thompson	Date Mar 5, 2012
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OFFICE MEMORANDUM

TO: Files

DATE: September 7, 1965

FROM: Leslie G. Butcher

SUBJECT: Japan - Loans 89 and 196 JA - Kansai

Following my memorandum of August 17, 1965 I had a brief conversation with Mr. Yoneda on Friday, September 3 when he came to the Bank and handed me a letter from Kansai dated September 3 enclosing two copies of a forecast of sources and application of funds for the period 1964/65 through 1969/70. Mr. Yoneda said that Kansai had decided to continue sending us these reports in the same form.

While he was here Mr. Yoneda asked for some general information about the Bank and Fund which I arranged for him to receive through the information offices.

Leslie G. Butcher

cc: Messrs. Piccagli
Rovani
White
Hittmair

LGButcher:af

August 19, 1965

Mr. Carlo Berghinz
Manager
Elc Electroconsult
Via Cavallotti 13
Milan, Italy

*When reply rec'd
give to MP with
report which Mr White
has.
↓*

Dear Mr. Berghinz:

The last time Mr. Semenza visited here I raised the question of Kurobe and he said he would mention this problem to you so that you could possibly give me Elc's views on the situation as it has developed.

I have now received Kansai's Kurobe Dam Progress Report No.27, dated July 25, 1965 and I should like to invite, informally, any comments Elc might have if it has received a copy. I take it you will let me know in case Kansai has not sent you a copy. *Doc # 87*

With warm personal regards.

Sincerely yours,

Mario Piccagli
Assistant Director - Projects Department
in charge of Public Utilities

cc: Mr. White - w/report

MP:bl1
196-JA

*No reply
in yet - report
returned from Mr White
8/19/65*

August 19, 1965

Mr. Carlo Berghinz
Manager
Elc Electroconsult
Via Cavallotti 13
Milan, Italy

Dear Mr. Berghinz:

The last time Mr. Semenza visited here I raised the question of Kurobe and he said he would mention this problem to you so that you could possibly give me Elc's views on the situation as it has developed.

I have now received Kansai's Kurobe Dam Progress Report No.27, dated July 25, 1965 and I should like to invite, informally, any comments Elc might have if it has received a copy. I take it you will let me know in case Kansai has not sent you a copy.

With warm personal regards.

Sincerely yours,

Mario Piccagli
Assistant Director - Projects Department
in charge of Public Utilities

cc:Mr.White

MP:bli
196-JA

JA 196

August 18, 1965

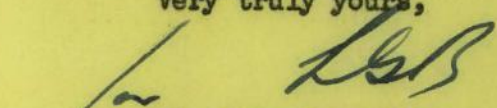
The Kansai Electric Power Co., Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Re: Loan No. 196 JA

Gentlemen:

We acknowledge with thanks receipt of your letter dated August 4, 1965 with which you enclosed two copies of Progress Report No. 27 on the Kurobe Dam for the period ended June 30, 1965.

Very truly yours,



L. Gray Marshall
Public Utilities
Projects Department

af
IBRD

JA-196

OFFICE MEMORANDUM

TO: Files

DATE: August 17, 1965

FROM: Leslie G. Butcher

SUBJECT: Japan - Loans 89 and 196 JA - Kansai

Mr. Ryusuke Yoneda of the Financing and Accounting Department of the Kansai Electric Power Co., Inc. who is temporarily in New York with Haskins and Sells, came to the Bank today by appointment to discuss the Bank's reporting requirements with Messrs. de Beaufort, Hittmair and Butcher. Referring to Mr. Spottswood's letter dated August 20, 1958 outlining the Bank's reporting requirements, Mr. Yoneda suggested that Kansai might now substitute for the information on its operations and finances which it is now sending the Bank semi-annually, an annual report which would be available about three months after the end of its fiscal year. It would include a balance sheet and income accounts certified by Kansai's accountants. Mr. Yoneda gave us a copy of the report for the year ended March 31, 1965. We agreed to his suggestion.

Mr. Yoneda asked whether Kansai was expected to continue to send the Bank forecasts of sources and applications of funds. We said that they were expected throughout the life of the Bank's loans for Kansai but that we were open to any reasonable suggestion to simplify the reporting requirements including a shortening of the forecast period. Mr. Yoneda mentioned that forecasts were prepared by Kansai for its own use and for the information of the Japan Development Bank. He said he would recommend that Kansai send us, for our examination, samples of forecasts now being prepared for other purposes. Mr. Yoneda said he might come to Washington again to discuss these samples with us.

At one point Mr. Yoneda asked what the Bank would do if Kansai failed to give the Bank forecasts. We answered that it would depend, among other things, upon Kansai's reasons for its failure. We made the point that the Bank was not asking any more of Kansai than of other borrowers for power projects in Japan or elsewhere. Our concern was with Kansai's operations in general, with the actual fulfillment of the undertakings in the loan documents and with the prospects of Kansai being able to carry out these undertakings in the future.

Leslie G. Butcher
Chas. H. Blewett

cc: Messrs. Piccagli
Rovani
White
Hittmair

LGButcher:af

JA-196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

August 4, 1965

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

*see
Doc #87*

Dear Mr. Piccagli:

We are forwarding to you under separate cover two copies of our Progress Report No.27 on the Kurobe Dam, dated end of June, 1965.

Besides, a copy of the report will be forwarded directly to each member of the Bank's Board of Consultants as has been done in the past.

With our very best wishes for your further assistance and co-operations.

Very truly yours,

Eiji Matsumoto

Eiji Matsumoto
Senior Managing Director

*acknowledged
8/18/65
af.*

ack Aug. 18

1965 AUG 13 PM 1:01

COMMUNICATIONS
GENERAL LINES
RECEIVED

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NARAHOSHIMA 3-CHOME, KITA-KU

OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

August 4, 1965

Mr. Mario Picoaghi
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

Doc #81

Dear Mr. Picoaghi:

We are forwarding to you under separate cover two copies of
our Progress Report No. 27 on the Kurobe Dam, dated end of June, 1965.

Besides, a copy of the report will be forwarded directly to
each member of the Bank's Board of Consultants as has been done in
the past.

With our very best wishes for your further assistance and co-
operations.

Very truly yours,

Keiji Matsumoto
Keiji Matsumoto
Senior Managing Director

only copy 1/4

1965 AUG 17 PM 1:01

RECEIVED
GENERAL FILES
COMMUNICATIONS

8/18/65
at
unclassified

FORM NO. 92 (10-61)		IDA	IBRD	IFC
CORRESPONDENCE RECORD FORM				
FROM		DATED		
The Kansai Electric Power Co. Osaka		July 25, 1965		
<i>ack Aug 18</i>				
SUBJECT				
Report: "Kurobe Dam Progress Report No. 27: (April 1 to June 30, 1965)."				
REFERRED TO			DATE RECEIVED	
Projects 300			August 17, 1965 ec	

JA-176

THE KANSAI ELECTRIC POWER Co., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU

OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

May 11, 1965

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

Projects Dept. Correspondence

ANS'D BY _____

DATE _____

Joe # 79
Rec'd 5/21

Dear Mr. Piccagli:

We are forwarding to you under separate cover two copies of our Progress Report No.26 on the Kurobe Dam, dated end of March, 1965.

Besides, a copy of the report will be forwarded directly to each member of the Bank's Board of Consultants as has been done in the past.

With our very best wishes for your further assistance and cooperations.

Very truly yours,

Eiji Matsumoto

Eiji Matsumoto
Senior Managing Director

acknowledged
5/25/65

1002 MAY 13 1965

COMMUNICATIONS
SERVICES
DEPT.

The Kansai Electric Power Co., Inc.

(KANSAI DENRYOKU KABUSHIKI KAISHA)
2 KAKAZOBUCHI 7 CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAI-POWER OSAKA"

May 11, 1965

Project File: _____

AMSD BY: _____

DATE: _____

Mr. Mario Piccazzi
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

Dear Mr. Piccazzi:

We are forwarding to you under separate cover two copies of
our Progress Report No. 25 on the Karobe Dam, dated end of March,
1965.

Besides, a copy of the report will be forwarded directly to
each member of the Bank's Board of Consultants as has been done in
the past.

With our very best wishes for your further assistance and
cooperations.

Very truly yours,

Eiji Matsumoto
Eiji Matsumoto
Senior Managing Director

*acknowledged
5/12/65*

1965 MAY 18 AM 8:41
RECEIVED
GENERAL FILES
COMMUNICATIONS



RESTRICTION NOTICE

Print Form

The World Bank Group
Archives
& Records Management

File Title Japan - Kansai Power Project (02) - Administration 04	Barcode Number 1857749
--	----------------------------------

Document Date Mar 24, 1965	Document Type Letter
--------------------------------------	--------------------------------

Correspondents / Participants Alessandro Semenza, ELC electroconsult to IBRD
--

Subject / Title Professional services for Kurobe
--

Exception Number <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 A-C <input type="checkbox"/> 10 D
--

Reason for Restriction Confidential Client/third Party Inforamtion
--

The items identified above have been restricted in accordance with The World Bank Policy on Access to Information. This Policy can be found on the World Bank Access to Information website.

Withdrawn By Sherrine M. Thompson	Date Mar 5, 2012
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JA-196

February 19, 1965

Mr. Eiji Matsumoto
Senior Managing Director
The Kansai Electric Power Co., Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Re: Loan 196-JA

Dear Mr. Matsumoto:

With further reference to your letter of January 30, we have now reviewed Progress Report No. 25 on the Kurobe Dam and we would prefer that you continue to send us quarterly reports. We will be pleased to review this decision at the end of this year.

We would also like to continue to receive any reports submitted to you by your Consultants.

Sincerely yours,

L. Gray Marshall
Public Utilities Division
Projects Department

*See Doc. 86
NR in Op Files*

LGMarshall:ls
IBRD

cc: Division File
Proj. Supervision File

February 9, 1965

Mr. Eiji Matsumoto
Senior Managing Director
The Kansai Electric Power Co., Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Re: Loan 196 JA

Dear Mr. Matsumoto:

We have noted your request in your letter of January 30 to submit reports on the Kurobe Dam once every six months instead of the present every three months. As soon as we have received Report No. 25 we will let you have our answer.

Sincerely yours,

L. Gray Marshall
Public Utilities Division
Projects Department

LGMarshall:ls
IBRD

cc: Project Supervision File
Division File

JA-196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

January 30, 1965

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations
International Bank for Reconstruction
and Development
1818 H Street, N. W.
Washington 25, D. C., U. S. A.

196 ja.

see
Doc #86

Dear Mr. Piccagli:

We are all the time grateful for the sincere considerations that you have freely given to us on the Kurobe dam.

We are forwarding under separate cover the Progress Report No.25 and its attached paper on the behavior and other relevant matters of the said dam, the water level of which comes up to E.L. 1425 (1448 in full water level) as scheduled last year.

The progress report has heretofore been sent to you in every three months. However, since recent reports relate mainly to the behavior of the dam, we should like to prepare, if you have no objection, the next progress report No.26 toward the middle of this year when the water level is to rise to E.L. 1430 as scheduled for this year.

Sincerely hoping for your further cooperation in the future, we remain

Yours very truly,

Eiji Matsumoto

Eiji Matsumoto
Senior Managing Director

*Interim Reply
by Mr. Marshall
Feb. 9. 1965*

*Replied to Feb. 19. 1965
by Mr. Marshall*

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENKOKU KABUSHIKI KAISHA)

2 KAKANOSHIMA 3-CHOME, KINSHU

OSAKA, JAPAN

CABLE ADDRESS
KANSAI-POWER OSAKA

January 30, 1965

Mr. Mario Piccazzi
Chief, Public Utilities Division
Department of Technical Operations
International Bank for Reconstruction
and Development
1818 H Street, N.W.
Washington 25, D.C., U.S.A.

Dear Mr. Piccazzi:

We are all the time grateful for the sincere considerations that
you have freely given to us on the Kanbe dam.

We are forwarding under separate cover the Progress Report No. 25
and its attached paper on the behavior and other relevant matters of the
said dam, the water level of which comes up to E.L. 1425 (1428 in full
water level) as scheduled last year.

The progress report has heretofore been sent to you in every three
months. However, since recent reports relate mainly to the behavior of
the dam, we should like to prepare, if you have no objection, the next
progress report No. 26 toward the middle of this year when the water level
is to rise to E.L. 1430 as scheduled for this year.

Sincerely hoping for your further cooperation in the future, we
remain

Yours very truly,

Shigeo Matsumoto
Shigeo Matsumoto
Senior Managing Director

John L. Kelly
by Mr. [unclear]

1965 FEB - 8 AM 9:58

RECEIVED
GENERAL FILES
COMMUNICATIONS

Handwritten notes and signatures at the bottom of the page.

JA-196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU

OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

November 12, 1964

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington 25, D. C.
U. S. A.

see doc # 77

Dear Mr. Piccagli:

We wish first to express our constant and profound appreciation for your kind and thoughtful consideration and cooperation that you have always given to us for securing the safety of the dam of the Kurobe No.4 project.

Since we had a number of meetings with ELC electroconsult in the latter half of August, 1964, concerning the safety of the dam, we should like to advise to you the outline of discussions at the meetings and resultant conclusions, together with the result of measurement as of the end of September.

These meetings were held from August 22 to 27, in parallel with the field inspection with utmost care by the representatives of Kansai and ELC as well as the examination of the behavior of the dam and its foundation on the basis of data obtained by measurements and their analysis available by that time, and to discuss future reservoir operation. Those who attended the meetings were Messrs. Nose, Yoshida, Yokota, Sugiyama the undersigned, and others of Kansai, and Messrs. Berghinz, Gallico, Bossi of ELC, and Dr. Talobre attended in the place of Dr. Mueller, joined also by Prof. Okamoto of Tokyo University and Dr. Tanaka of Geology Dept. of Central Research Institute of the Electric Power Industry.

The discussion included the explanation by Kansai on the basic data obtained by measuring instruments installed inside the dam and its foundation, and particularly, it was mutually confirmed that remarkable

NOV 13 1964

COMMUNICATIONS
GENERAL LINES
RECEIVED

JA-196
THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)
2 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

November 12, 1964

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington 25, D. C.
U. S. A.

Dear Mr. Piccagli:

We wish first to express our constant and profound appreciation for your kind and thoughtful consideration and cooperation that you have always given to us for securing the safety of the dam of the Kurobe No. 4 project.

Since we had a number of meetings with EIC electroconsultants in the latter half of August, 1964, concerning the safety of the dam, we should like to advise to you the outline of discussions at the meetings and resultant conclusions, together with the result of measurement as of the end of September.

These meetings were held from August 22 to 27, in parallel with the field inspection with utmost care by the representatives of Kansai and EIC as well as the examination of the behavior of the dam and its foundation on the basis of data obtained by measurements and their analysis available by that time, and to discuss future reservoir operation. Those who attended the meetings were Messrs. Nose, Yoshida, Yokota, Sugiyama the undersigned, and others of Kansai, and Messrs. Bergman, Gallico, Bossi of EIC, and Dr. Talbot attended in the place of Dr. Mueller, joined also by Prof. Okamoto of Tokyo University and Dr. Tanaka of Geology Dept. of Central Research Institute of the Electric Power Industry.

The discussion included the explanation by Kansai on the basic data obtained by measuring instruments installed inside the dam and its foundation, and particularly, it was mutually confirmed that remarkable

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movement of the foundation on the right bank toward the left bank during the latter half of last year was interpreted as a phenomenon mainly caused by the influence of grouting and not a dangerous one caused by raised water level. Further, in addition to the above remarkable movement, another slight movements of the foundation were found which have some fluctuations. Study on the correlations among measurement data of various kinds indicated that it was clear that the water content in the foundation, due to rainfall, had caused the swelling or contraction of rock foundation, and it was mutually confirmed that the raise of water level had given very little or negligible influence on the dam thrust at the present stage.

Study on the behavior of the wing dam on the right bank was also made by various kinds of survey and pendulum, and it was agreed that the condition was satisfactory as its behavior had been normal and almost no movement of the foundation was seen.

Thereafter, decisions were made to perform the drainage work of about 8,000 meters as recommended by ELC and the protection work on the surface of the both banks of some 8,000 square meters. Further, opinions were exchanged on the necessity of the reinforcement of the right bank abutment, and it was decided to continue the study on this matter in future.

Finally, discussions were made on the reservoir operation program to be followed after Spetember, 1964 and for the year of 1965, and on the further collaboration with ELC, which led to the conclusion as described in the attached joint memorandum prepared at the closing of the meeting. Materials and additional explanation presented and studied at the meetings will be also sent to you under separate cover.

We are pleased to advise to you, the outline of the progress and conclusions of the meetings between Kansai and ELC as above. As for the operation of water level of the reservoir for the year of 1964, it has been done in accordance with our program in view of the fact that a phenomenon taken up as a problem toward the end of last year was solved reasonably.

Attached you will find the papers concerning the recent behavior on Kurobe Dam, and we shall be most obliged if you will kindly allow us to replace with it the regular progress report to you which has to be due by and around this time. Therefore, please be informed, that the submission of our Progress Report No. 25 will be deferred until January, 1965.

-3-

In closing, we should like to repeat our deep appreciation for your kind support and ask for your further cooperation.

With my personal best regards,

Yours very truly,

Eiji Matsumoto

Eiji Matsumoto
Senior Managing Director

Attached Papers and Explanation

1. Drawings "Basic data"

Among drawings "Fig. 1-20" prepared by Kansai, Fig. 1 indicates the locations of measuring instruments those newly installed are the net systems of rock-deformeters, telescopic measuring instruments for fault movement, precision tiltmeter with water tube, etc.

Fig. 2-4 are graphs showing the deformation of the dam measured by pendulums installed in the crown cantilever section with corresponding time passage, water levels and temperature.

Fig. 5 and 6 are the results of measurement for the deformation of dam by means of alignment collimation and triangulation. Data of triangulation are shown on Attached Paper, "observed results of precise triangulation at Kurobe Dam".

Fig. 7-10 show the movement of foundation measured by pendulums in X and Y directions, together with plotted water levels and temperature shown thereunder.

Fig. 11 and 12 the tracings of the movements of the foundation above, and small figures alongside the line indicate the end of the corresponding months.

Fig. 13 and 14 show the correlations between the movements of the foundation and water levels, may be called historical curves. Unusual increase is found in the values of P4-Y in 1963, but the analysis of this matter is stated hereinafter.

Fig. 15 shows the movement of the foundation measured with new rock deformeters made of stainless steel tube. The new instrument did not yet register so long period, but in view of its excellent sensibility, a detail analysis will be made later after accumulating further data.

Fig. 16 shows the result of water tube tiltmeters installed at two elevations on the right bank, indicating vertical movements.

Fig. 17 and 18 show the number of cracks developed on lining concrete of the inspection galleries which have been remained after the replacement work, and graphs are indicating their trend. It is found here that large cracks called "open cracks" ceased their development by last December, and in this year only fine, and mostly hair cracks are found to have developed. They ceased increase almost entirely from June, 1964.

Fig. 19 shows the outflow of drain holes, and Fig. 20 piezometric heights of piezometer holes.

2. Consideration on the remarkable movement on the right bank

As sufficient data come to be available for the interpretation of remarkable movements of pendulum P-4 installed in the foundation of dam, and of the point G of triangulation and also of the cracks developed on the lining concrete of the inspection galleries, special consideration is made by Kansai this time.

Historical prospect on the attached table shows the mutual relations of the time of the remarkable movement of P-4, of the development of cracks, of the works of fault replacement on the right bank, and of the grouting works for the neighbouring zones. It indicates that the remarkable movements of P-4 were found in spring and autumn of 1963. As the possible causes of the movements, the influence of thrust from the dam following the rise of water level, or works that have been done in the neighboring zones; namely, fault replacement works, mortar filling and consolidation grouting, or natural phenomena such as temperature, atmospheric pressure, rainfall, etc. are conceivable. Explanation is given below, based on drawings Fig. 21-33 as to what are considered to be the causes:

2.1 Concerning the movements of P4-Y

P4 pendulum is measured in two parts, the upper from EL1340 to 1370 m (h = 30 m) and the lower from EL 1280 to 1340 m. Their movements are shown on Fig. 21 separately or in total. Further, as a mean of sounding the cause of movements, water levels, the results of grouting works that have been done in the neighboring zones and rain fall are shown too. Thus, the movements of P4-Y may be summarized as Table below:

Table - 1 Result of Measurement P4-Y direction
(Minus shows displacement toward the river)

Time	displacement in Y direction (EL 1370-1280)	Total (EL 1370-1280)	for upper part (EL 1370-1340)	for lower part (EL 1340-1280)
when grouting suspended (Nov. 6, 1963)	-14.2 ^{mm}	-14.2 ^{mm}	-14.4 ^{mm}	+0.2 ^{mm}
when maximum displacement (Apr. 29, 1964)	-16.5	-16.5	-15.5	-1.0 (May 10, max. -1.2)
present(Aug. 8, 1964)	-15.2	-15.2	-14.7	-0.5

From the above figures, the following facts are noted;

- (1) Until grouting works were suspended, the most of the large displacements have taken place in the same period of grouting works and they were limited only to those on the upper part.

- (2) When the movement reached the maximum, it increased 2.3 mm more than that when grouting works were suspended; 1.1 mm in the upper part and 1.2 mm in the lower.

2.2 Concerning the movements before grouting works were suspended

2.2-1 Influence of grouting

As Fig. 21 indicates, the movements of P4-Y coincide with grouting works, and, as Fig. 23 shows, they have considerable correlations with accumulated cement absorption.

Table - 2 Result of Grouting

	Contact grout (mortar filling)	Radial grout	Consolidation grout	Total
Grouted Zone	EL 1330-1390	EL 1340-1390	EL 1340-1390	
Grouted Period	Feb. 28, 1963	Mar. 19, 1963	Apr. 9, 1963	
	May 28, 1963	Aug. 5, 1963	Nov. 5, 1963	
Bored Length				9,400 ^m
Injection Pressure		20 - 30 kg/cm ²	30 - 45 kg/cm ²	
Cement Absorption	585 m ³	314 t	1,000 t	

Further, the above Table - 2 indicates,

- (1) that, as the grouted locations are near the rock surface and the grouting pressure is high, it is considered natural that the rock mass near the surface is pushed toward the river-side.
- (2) that the volume of grouting was fairly large.
- (3) that the scope of grouting is above EL 1340 m, and it coincides with the fact that the movements of P4 were limited to those of the upper portion. Incidentally, the survey of the boring cores obtained near P4 point on the occasion of drilling for installing the rock-deformeter net last spring, cement films that were grouted into these cores was identified. At the upper portions around EL 1370 m, the thickness of cement films of each hole, when summed up, reached 20 - 30 mm on an average.

And, at the lower portion around EL 1340 m, it was only 0 - 5 mm.

2.2-2 Influence of fault replacement works

As Fig. 24 shows, excavation of some 12,500 m³ and concrete plugging of some 10,000 m³ were made for fault replacement,

between EL 1330-1380 m, from June, 1962 to April, 1963. It seems very difficult to judge whether such works influenced the movements of P4 or not, but such influence, if any, is considered for smaller than that of grouting as above-mentioned. Rather, it is considered to be one of the causes which influenced cracks developed on the lining concrete in the inspection galleries previously referred to.

2.3 Concerning the movements after suspending grouting

As described previously in 2.1, there was a movement at EL 1370 - 1280 m, toward Y direction, 1.1 mm in the upper 30 m and 1.2 mm in the lower 60 m, both are of almost similar degree.

2.3-1 Influence by dam thrust

It looks from Fig. 22 that the movements could hardly be interpreted as caused by changing water levels.

2.3-2 Influence of rainfall

According to Fig. 21, slight movements after suspending grouting on November 5, 1963, it may be considered to have had relations with rainfall. It became clear that immediately after raining, a movement toward Y direction of river-side occurred and turned back toward the original position after raining stopped.

Accordingly, the movements of the foundation are believed to have had close relation with rainfall. To prove this, comparison was made, as Fig. 26 shows, with the out flow from drain holes installed in the foundation, which correlates to rainfall. Fig. 25 shows the correlations between the movements of P4-Y and those of drain holes RM-3 (EL 1300 m, in the mountain-side of E fault, 4 vertical and 5 horizontal holes) which supply data most sufficiently. There must be relations between the movements and piezometric heights as a matter of course, but as the water tables in the foundation are disturbed considerably by drain holes, and resultant changes are not sensitive, it was difficult to make due appreciation based on the comparison with water tables, thus the out flow from drain holes are employed for the purpose.

With respect to the movements of P4 in the lower part, as Fig. 29 indicates, it is clear that they are influenced by rainfall in the both cases of before or after suspending grouting works.

It is, however, found that the movements of P4 tends to converge and not to increase beyond a certain extent as the outflow increases.

Fig. 30 shows the relation between the movements of P 2 and RM-3, and Figs. 31 and 32 represent that of between P 7 and P 9 on the left bank and LM-4 respectively. All of them indicate remarkable influence of rainfall.

Fig. 33 shows the vertical movements by precision tiltmeters installed on the right bank at EL 1370 m and EL 1340 m and their relations to RM-3, indicating the similar result here too.

2.3-3 Concerning the movements of point G for triangulation

Unusually large movements of point G on the right bank are seen in the result of triangulation in the attached papers, but, as it is clear from the interpretation on the movements of P 4 as aforementioned, the main cause is assumed to be grouting works. There was also an event that falling rocks caused by retaining wall works performed at the upper part of the point G hit the base of the point G. Thus the large movements taken place and ceased in certain period are found not dangerous behavior.

Although the point G stand still at present, for the purpose of further checking of the point, sub-measurement point are to be provided on the both sides of the point and preparation is underway for further triangulation.

2.4 Conclusion of the unusual movements on the right bank

In view of the consideration above, it may be concluded as follows;

- (1) The movements of the upper part of P4-Y of -14.4 mm until the suspension off grouting were mainly due to grouting.
- (2) Movements other than those caused by the influence of grouting were very small, and the swelling or contraction of component materials inside the rock foundation caused by rainfall or drying after rainfall are predominant causes thereof.
- (3) The influence on the thrust caused by changes in the water levels of the reservoir is judged as negligible at the present stage.
The greater part of open cracks developed on the lining concrete
- (4) The greater part of open cracks developed on the lining concrete in the inspection galleries are considered to be caused directly by the grouting works, and the other small cracks are considered to be developed by the secondary causes, for instance, temperature change, settlement of rock mass after fault-replacement works.

3. Concerning the measurement of the movement of the wind dam on the right bank

Measurement of the movement of the wing dams on the both banks is done by two methods; one by pendulums installed in the dams and their foundation, and another by alignment collimation with targets set on the dam crest.

The explanation below is concerning the result of the interpretation of measured values obtained of late as to the behavior of foundation below the right wing dam, which have been concerned about:

Fig. 34 shows the comparison of the movements of dams measured by pendulum P3 from August, 1963, and the movement measured by alignment. Values of P3 are of the direction of the axis of wing dams X' and its right angle direction Y', while those by alignment are only of the direction Y'.

Fig. 35 shows the relations between values measured by P3 and water levels, and EL 1390 - 1360 in the graph indicates the movements of only the foundation right below the wing dams.

Fig. 36 shows the movements of whole block of the wing dams, plotted by alignment. Fig. 34 shows no remarkable difference between the movements measured by P3 and by alignment. Supposing that the movements of wing dam is possible to be interpreted by the values of alignment, the values indicate that the dam moved to mountain side as water level rose and returned to the reservoir side as water level fell.

Fig. 37 also indicates similar phenomena.

Further, in Figs. 34 and 35, EL 1390 - 1360 of P3 showing the movements directly beneath the wing dam foundation indicate no noticeable movements by rising or falling water levels. Therefore, the behavior of the foundation is considered as satisfactory.

As additional data, Fig. 38 shows the sections of the wing dam on the right bank and its foundation, together with water table in the foundation.

From the data above, the behavior of the wing dam on the right bank and its foundation are judged as normal.

4. Concerning supplemental drainage

There was a substantial difference of opinions between Kansai and ELC concerning the fundamental way of thinking as to the design of drainage. In the total length of designed works, that recommended by ELC was more than twice that of Kansai's program. On the other hand, the total length of drain holes so far installed reached 10,000 m, and the remaining 4,000 m is to be extended, according to Kansai's program.

The main points of the both opinions are as follows;

While Kansai intends first to limit the volume of work which is determined as the minimum necessity by experiments and calculation for effectively reducing phreatic line behind grout curtains, and then appreciate the effectiveness and actual results by field measurements, ELC insists, in addition to the above work, to add emergency drainage works to be done above the phreatic surface to drain water permeate into the possible cracks that may occur by unexpected accidents of dam or earthquake of large scale, thus bringing about a big difference in the volume of work. The above difference of opinions have hitherto been discussed between the both parties many times and failed to reach mutual agreement. At the meetings this time, however, ELC recommended to add, after re-examination of the work volume, some 8,350 m other than the Kansai's program, and Kansai finally accepted that proposal which is to be completed by March, 1965.

Progress report as end of September are shown on attached drawings "Boring & grouting progress". Among them Fig. 1 shows work schedule in 1964, 1965 and Fig. 7 shows locations where the works were completed, are under the Kansai's scheduled program, and new additional works.

5. Protection on the surface of both banks and reinforcement of the abutment on the right bank.

Since toward the end of last year, ELC has proposed for the employment of tie rod on the weak zones on the both banks, and for those on the right bank, confinement by prestressing of about 10,000 t is proposed to be given. Discussion was made on the necessity of the proposal, opinions as to its effectiveness and quantitative ground.

The opinion of ELC as to the reinforcement of the foundation was as follows:

"Results of measurement hitherto available indicate the influence of water pressure load being very small, and the behavior of the rock foundation is indicating sufficient safety. However, a large deformation occurred at the part of the right bank, and it will to be decided whether the reinforcement by using tie rod is necessary or not after further precise stability calculation by Mr. Talobre."

Against this, Kansai replied that "unusual movements were seen, as previously stated, on a part of the foundation, but it became clear from later measurement data and analysis thereof that all of such movements were by no means to threaten the safety of dam substantially. Therefore, particular necessity could not be found to make calculation on the new different conditions or to employ tie rod. From the experience of having tried various kind of calculation, in the past it would be difficult to expect precise calculation which will serve as a quantitative data for the treatment of the foundation.

Accordingly, Kansai believes that the most practical and reliable measure will be raising water level step by step, while making analysis most carefully of obtained data by many kind of measurements including those newly to be added, and repeating the historic cycle of loads and analyzing the deformation curves and judging the safety of the foundation."

Thus, the both parties could not reach mutual agreement, and decided to study this matter further in the future.

With respect to protection from weathering of the foundation surface, Kansai has its program and partially being put into practice. ELC proposed an addition to the scope of such works, which was accepted by Kansai, and it was decided to complete concrete works within 1965 to the scope of about 5,000 m² in surface area at EL 1350 - 1400 m, 30 m wide on the right bank, and 3,000 m² in the vicinity of abutment at EL 1340 - 1410 m on the left bank. As previously mentioned, the employment of tie rod for the purpose of reinforcement of the foundation was not decided. In the design of protection concrete, however, it was decided to take into consideration the future employment of rock bolts or tie rods.

*But then in any
soon as possible
JFK*

6. Future reservoir operation program

Kansai insisted that no unusual movements were found from the results of measurements so far available, as explained before, and that the following original operation program is necessary for making accumulated experiences and analysis in loading cycles in by-step method.

EL 1420 September, 1964
EL 1425 November, 1964
EL 1380 March, 1965
EL 1430 August, 1965
EL 1435 November, 1965

Against this, however, in view of the fact that drainage works on the upper part are to be done next spring, ELC insisted its operation program as follows:

EL 1420 November, 1964
EL 1380 March, 1965
EL 1420 July, 1965
EL 1425 October, 1965
EL 1430 December, 1965

At the present, the operation of water level is being done in accordance with Kansai's program, and most careful measurement and analysis are being made, but nothing particularly unusual has been found.

7. Others

Other than the important problems stated above, opinions were exchanged on measurement, but they were all small matters and mutually agreed upon.

As to the further collaboration, it was decided to be discussed later, but it was confirmed that measurement data are to be sent to ELC so that ELC may be kept informed of the field conditions sufficiently.

FORM No. 75
(2-60)

INTERNATIONAL BANK FOR
RECONSTRUCTION AND DEVELOPMENT

INTERNATIONAL FINANCE
CORPORATION

INTERNATIONAL DEVELOPMENT
ASSOCIATION

ROUTING SLIP		Date
NAME		ROOM NO.
<i>Mr Piccagli</i>		
To Handle		Note and File
Appropriate Disposition		Note and Return
Approval		Prepare Reply
Comment		Per Our Conversation
Full Report		Recommendation
Information		Signature
Initial		Send On
REMARKS		
<i>I said about cell I had to say on this at the staff meeting. Can I do anything else?</i>		
		<i>LLB</i>

THE KANSAI ELECTRIC POWER Co., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

September 29, 1964

Mr. Christian Finne
Assistant Chief, Public Utilities Division
Department of Technical Operations
International Bank For Reconstruction And Development
1818 H Street, N. W. Washington, D. C. 20433

Re: Loan No. 196 JA

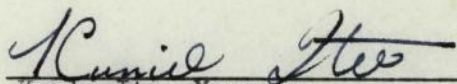
Dear Mr. Finne:

With reference to our letter of August 17, 1964, we are forwarding herewith a copy of the Completion Report on the Kurobe Project.

We are sorry for the inconvenience this delay might have caused you.

We would take this opportunity to express our sincere thanks for your cooperation extended to us.

Your faithfully,


Kunio Ito, Manager
Financing & Accounting Dept.

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Acknowledged.
Oct. 8, 1964
JH

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

2 NAKAOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

"KANSAIPOWER OSAKA"
CABLE ADDRESS

September 29, 1964

Mr. Christian Finne
Assistant Chief, Public Utilities Division
Department of Technical Operations
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1818 H Street, N. W. Washington, D. C. 20433

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Your faithfully,


Kunio Ito, Manager
Financing & Accounting Dept.

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Handwritten notes:
Oct 8, 1964
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September 8, 1964

The Kansai Electric Power Co. Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

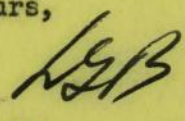
Re: Loan No. 196 JA

Gentlemen:

We acknowledge with thanks receipt of your letter dated
August 21, 1964 with which you enclosed two copies of Progress
Report No. 24 on the Kurobe IV Dam for the period ended June 30,
1964.

Doc#76

Very truly yours,



L. Gray Marshall
Public Utilities Division
Department of Technical Operations

September 3, 1964

Mr. Seiyu Soejima
Manager
Foreign Department
The Japan Development Bank
5-5 Otemachi 1-Chome, Chiyoda-Ku
Tokyo, Japan

Dear Mr. Soejima:

Re: Loan No. 196 JA (Exemption of
Guarantee Obligations of the
late Mr. Shiro Ohtagaki)

Thank you very much for your letter of August 26, 1964 with which was forwarded an English translation of the agreement on the alternation of guarantor. We note for our record that pursuant to Section 5.08 of the Loan Agreement, the Japan Development Bank (JDB) has given its consent to the request of the Kansai Electric Power Company, Inc. that Mr. Shiro Ohtagaki be exempt from his guarantee obligations to JDB under the Subsidiary Loan Agreement dated July 14, 1958 as amended, between the Company and JDB.

Sincerely yours,

N.R. Chakravarti
Department of Operations - Far East
Cleared with Mr. Webb &
cc: Messrs. Webb, Casson,
Piccagli

NRChakravarti:vcn
IBRD
rc

Official Documents

September 3, 1964

N.R. Chakravarti

JAPAN - Loan No. 196 JA (Exemption of Guarantee Obligations of the late Mr. Shiro Ohtagaki)

I attach for your files Mr. Soejima's letter of August 26, 1964 to the Bank together with the enclosure.

Would you kindly photostat the letter and the enclosure and make the regular distribution (Treasurer's - 2; Operational Files - 1; Legal Files - 1) and send me five copies which I will distribute myself.

Attachment

NRChakravarti:vcm
IBRD

JA-196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

Ack. Sept.

CABLE ADDRESS
KANSAIPOWER OSAKA*

September 1, 1964

Mr. J. Burke Knapp, Vice President
International Bank for Reconstruction
and Development
c/o Hotel Okura, Tokyo

My dear Mr. Knapp:

Welcome to Japan again! I presume you must be very busy in Tokyo and regret that we may not be able to have you with us this time as we did in 1961 when you were in the Kansai area with Mr. Kheradjou.

Nonetheless, we are very happy that you are in Japan again and do hope that your present visit be as fruitful and enjoyable as your last one.

Yours sincerely,

Yoshishige Ashihara
Yoshishige Ashihara
President & Director

Department
of Quarantine

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THE JAPAN DEVELOPMENT BANK

Cable Address:
"DEVEBANK TOKYO"

5-5 OTEMACHI 1-CHOME, CHIYODA-KU,
TOKYO, JAPAN

Phone:
270-3211

August 26, 1964

*Mr Chakravarti:
is this ok?
M*

International Bank for
Reconstruction and Development
1818 H Street, N.W.
Washington D.C. 20433

Attention: Mr. I.P.M. Cargill
Director
Department of Operations-Far East

Gentlemen:

Re: Loan No. 196 JA (Exemption of
Guarantee Obligations of the
late Mr. Shiro Ohtagaki)

This is to advise you that we have given consent to the request of The Kansai Electric Power Company, Inc. that Mr. Shiro Ohtagaki be exempt from his guarantee obligations to our bank pursuant to the Subsidiary Loan Agreement dated July 14, 1958 as amended, between the Company and our bank under the captioned Loan.

Mr. Shiro Ohtagaki has passed away in March, 1964. For your reference, we enclose herewith a copy of English translation of the Agreement on Change of Guarantors.

This information is made under the provision of Article 5.08 of the Loan Agreement dated June 13, 1958 between your Bank and us.

Sincerely yours,

Seiyu Soejima
Seiyu Soejima
Manager
Foreign Department

Encl.

AGREEMENT ON CHANGE OF GUARANTORS

Article 1

THE JAPAN DEVELOPMENT BANK (hereinafter called JDB) has agreed to exempt any and all obligations of Shiro Ohtagaki as guarantor among the guarantors on all indebtedness of ^{THE} KANSAI ELECTRIC POWER COMPANY, INCORPORATED (hereinafter called Kansai) to JDB, the principal amount of the Loan equivalent to U.S.\$ 35,503,000 (Original amount of the Principal was equivalent to U.S.\$ 37,000,000), interest and other charges thereon under the Second Subsidiary Loan Agreement dated July 14, 1958 as amended, between JDB and Kansai (hereinafter called the Original Agreement).

Article 2

The guarantors under the Original Agreement, Yoshishige Ashihara, Seizo Yoshimura and Hiromi Kato have acknowledged this Agreement, and agreed to be the guarantors as they are, to guarantee any and all obligations arising from this Agreement and the Original Agreement and they jointly and severally with Kansai and jointly and severally as among all guarantors, shall be liable for the performance of each and every obligations of Kansai under the Original Agreement, irrespective of validity of any guarantee agreement between Kansai and any guarantor relating to their obligations hereunder.

Article 3

Kansai has agreed to this Agreement.

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

August 21, 1964

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

Dear Mr. Piccagli:

We are forwarding to you under separate cover two copies of our Progress Report No.24 on the Kurobe Dam, dated July 10, 1964.

Besides, a copy of the report will be forwarded directly to each member of the Bank's Board of Consultants as has been done in the past.

With our very best wishes for your further assistance and cooperations.

Very truly yours,

Eiji Matsumoto

Eiji Matsumoto
Senior Managing Director

Doc #76

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SECTION
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*Acknowledged
Sept 8, 1964
ML*

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

2 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

KANSAIPOWER OSAKA
CABLE ADDRESS

August 21, 1964

Mr. Mario Piccaffi
Chief, Public Utilities Division
Department of Technical Operations
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Besides, a copy of the report will be forwarded directly to
each member of the Bank's Board of Consultants as has been done in
the past.

Without very best wishes for your further assistance and
cooperations.

Very truly yours,

Eiji Matsumoto
Eiji Matsumoto
Senior Managing Director

1964 SEP -7 AM 11: 19

RECEIVED
GENERAL FILES
COMMUNICATIONS

*Received by
Sept 7, 1964
M*

JA-196.

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

August 17, 1964

Mr. Christian Finne
Asst. Chief, Public Utilities Division
Department of Technical Operations
International Bank for Reconstruction and Development
1818 H Street, N. W.
Washington, D. C. 20433
U. S. A.

*No acknowledgment
necessary.*
LB
2ix

Re: Loan No. 196 JA

Dear Mr. Finne:

This has reference to our letter of February 29, 1964 and your letter of March 9, 1964, dealing with the Completion Report on the Kurobe Project.

We have been continuously working for the preparation of the report. We regret to inform you, however, that the report requires additional weeks before it is available. The Kurobe Project, as you know, is of the largest in scale ever performed by Kansai and accordingly, tremendous amount of additional work for supplementary works and for disposal of temporary equipment and facilities has turned out to be necessary in connection with the settlement of accounts.

Under the circumstances, it is impracticable for us to complete the report by the time previously promised, for which we tender our deepest apologies. We assure you, however, we will be able to prepare and send you the report in September.

While continuing to direct our enormous efforts to the earliest completion of the report, we would ask your kind indulgence for the delay caused by such unexpected circumstances.

Very truly yours,

Kunio Ito
Kunio Ito, Manager
Financing and Accounting Dept.

1964 AUG 20 11 31 AM
COMMUNICATIONS
DEPT. 1103

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

2 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

"KANSAIPOWER OSAKA"
CABLE ADDRESS

August 17, 1964

U. S. A.
Washington, D. C. 20433
1818 H Street, N. W.
International Bank for Reconstruction and Development
Department of Technical Operations
Asst. Chief, Public Utilities Division
Mr. Christian Finne

Re: Loan No. 196 JA

Dear Mr. Finne:

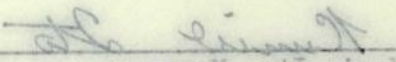
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While continuing to direct our enormous efforts to the earliest completion of the report, we would ask your kind indulgence for the delay caused by such unexpected circumstances.

Very truly yours,


Kunio Ito, Manager
Financing and Accounting Dept.

1964 AUG 24 PM 3:17

RECEIVED
GENERAL FILES
COMMUNICATIONS

Handwritten notes:
No. 196 JA
W/1
2/1

JA-196

August 13, 1964

Dear Mr. Ashihara:

Thank you very much for your letter of July 29 and for your kind invitation to visit the Kurobegawa Power Station. Unfortunately, my schedule in Japan has now been filled and I must therefore regretfully decline this invitation. However, I know that Mr. Cargill and Mr. Street are planning to pay a visit to Kurobe and I shall look forward with interest to their report of this very interesting project. Even though I may miss seeing you on this occasion I hope that we shall have an early opportunity of meeting either in Washington or in Japan.

With best wishes,

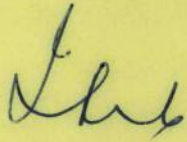
Yours sincerely,

(Signed) George D. Woods

George D. Woods

Mr. Yoshishige Ashihara
President and Director
The Kansai Electric Power Co. Inc.
Osaka, Japan

IPMCargill:kd
IBRD



1964 AUG 14 PM 4:51

COMMUNICATIONS
GENERAL OFFICE
RECEIVED

7A-1-AT

August 13, 1964

Dear Mr. Ashihara:

Thank you very much for your letter of July 29 and for your kind invitation to visit the Kurohara Power Station. Unfortunately, my schedule in Japan has now been filled and I must therefore respectfully decline this invitation. However, I know that Mr. Gargill and Mr. Street are planning to pay a visit to Kurohara and I shall look forward with interest to their report of this very interesting project. Even though I may miss seeing you on this occasion I hope that we shall have an early opportunity of meeting either in Washington or in Japan.

With best wishes,

Yours sincerely,

(Signed) George D. Woods

George D. Woods

Mr. Yoshitake Ashihara
President and Director
The Kurohara Electric Power Co. Inc.
Osaka, Japan

IMCargill:kd
LRD

1964 AUG 14 PM 4: 21

RECEIVED
GENERAL FILES
COMMUNICATIONS

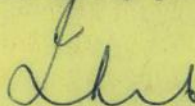
August 6, 1964

Mr. Yoshishige Ashihara
President & Director
The Kansai Electric Power Co., Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Dear Mr. Ashihara:

It was very kind of you to write on July 29 with regard to my proposed visit to the Kurobegawa No. 4 Power Station. As the Japan Development Bank has informed you, I am planning to spend a few days after the Annual Meeting in Tokyo of the Bank and the International Monetary Fund visiting a few of the projects financed by the Bank in Japan. JDB is making arrangements for Mrs. Cargill and I, accompanied by Mr. Howard Johnson, Director of the New York Office of the World Bank, and his wife, and Mr. Street, Loan Officer dealing with Japan, to make a short trip to visit projects in Japan. I am very pleased that the schedule will include a trip to the Kurobe Hydroelectric Plant, as I have never had an opportunity to visit that part of Japan and I am looking forward with pleasure to doing so. Thank you very much for making arrangements. I hope this will not cause you too much trouble. It will be a pleasure seeing you again at that time.

Sincerely yours,



I.P.M. Cargill
Director

Department of Operations - Far East

GMStreet:mcl
IBRD

August 6, 1964

Mr. Yoshishige Ashihara
President & Director
The Kansai Electric Power Co., Inc.
(Kansai Denryoku Kabushiki Kaisha)
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Dear Mr. Ashihara:

Thank you very much for your letter of July 27, 1964 addressed to Mr. Woods informing us of the issuance of new shares by the Kansai Electric Power Co., Inc. to its existing shareholders as of September 30, 1964 by transfer of ¥874.7 million from the Company's revaluation surplus to its capital stock.

With best regards,

Sincerely yours,

Gordon M. Street
Department of Operations - Far East

cc: Messrs. Webb. Casson, Piccagli

NRChakravarti:vcm
IBRD

NC

Resume of Activities
of Board of Consultants

Form No. 89
(9-62)

INTERNATIONAL BANK FOR
RECONSTRUCTION AND DEVELOPMENT

INTERNATIONAL DEVELOPMENT
ASSOCIATION

INTERNATIONAL FINANCE
CORPORATION

ROUTING SLIP

Date

August 3, 1964

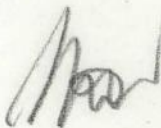
OFFICE OF THE PRESIDENT

Name	Room No.
Mr. Cargill	

Action	Note and File
Approval	Note and Return
Comment	Prepare Reply
Full Report	Previous Papers
Information	Recommendation
Initial	Signature

Remarks

Please prepare a reply for me to send. I am afraid that I shall not have an opportunity of visiting the Power Station.



G. D. Woods

JA-196

AUG 3 REC'D

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

July 29, 1964

Mr. George D. Woods, President
International Bank for Reconstruction &
Development
1818 H Street, N. W., Washington, D. C.
U. S. A.

Dear Mr. Woods,

I would like to take this opportunity to express my sincere appreciation for your warm support being given to this company, and am very proud to inform you that the Tanagawa Thermal Power Station and the Kurobegawa No.4 Hydro Power Station, which were constructed with the loans from your bank, are running quite smoothly and contributing very much to the business of the company.

I am also very happy to learn that you are coming over to Japan in September to attend the general meeting of IMF and World Bank to be held in Tokyo. Although I know very well how busy you will be in Japan, I would very much like to invite you to see our Kurobegawa No.4 Hydro Power Station which was recently completed. The power station's dam is now undergoing fill-up experimentation under the guidance of your Board of Engineering Consultants, and we shall be delighted to have you come and inspect this experimentation, besides seeing the splendid scenery surrounding the power station and the dam, which, I am quite sure, you will enjoy very much.

With my very best regards,

Yours sincerely,

Yoshihige Ashihara
Yoshihige Ashihara
President & Director

1964 AUG -3 11 30 AM
Stamp

ack Aug 13

AUG 3 1964

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KAWAISHI KAISHA)
2 KAKAOHISHIMA 2-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
KANSAIPOWER OSAKA

July 29, 1964

Mr. George E. Woods, President
International Bank for Reconstruction
Development
1818 R Street, N.W., Washington, D. C.
20036

Dear Mr. Woods:

I would like to take this opportunity to express my sincere appreciation for your kind support being given to this company, and an opportunity to inform you that the Kansai Thermal Power Station and the Kurohara Hydro Power Station, which were constructed with the loans from your bank, are running quite smoothly and contributing very much to the business of the company.

I am also very happy to learn that you are coming over to Japan in September to attend the general meeting of IEP and would like to be in Tokyo. Although I know very well how busy you will be in Japan, I would very much like to invite you to see our Kurohara No. 4 Hydro Power Station which was recently completed. The power station is now undergoing final-up experimentation under the guidance of your board of engineering consultants, and we shall be glad to have you come and inspect this experimental plant, besides seeing the splendid scenery surrounding the power station and the dam, which, I am quite sure, you will enjoy very much.

With my very best regards,

Yours sincerely,

[Signature]
President & Director

1964 AUG -3 AM 9:00

RECEIVED
GENERAL FILES
COMMUNICATIONS

logged
JA-196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

July 29, 1964

IPMC

Mr. I. P. M. Cargill
Director, Department of Operation - Far East
International Bank for
Reconstruction and Development
1818 H Street, N. W., Washington, D. C.
U. S. A.

Dear Mr. Cargill,

I was very happy to learn from our Executive Vice President, Mr. Yoshimura, who just came back from Washington, D. C., that you are coming to Tokyo in September to attend the general meeting of IMF and World Bank. The Japan Development Bank also informed me of your itinerary after the meeting to visit our Kurobegawa No.4 Power Station which was recently completed with the assistance from your bank.

It is our great honor that we are given an opportunity to show the power station to you, and we hope that you will be fully satisfied to see the fine result of the loan extended by your bank.

I understand that your schedule in Japan will be very tight, but we are making arrangements to make your visit there as enjoyable as possible, and are looking forward to seeing you.

Very sincerely yours,

Yoshishige Ashihara

Yoshishige Ashihara
President & Director

SEP 10 1964

RECEIVED
SEP 10 1964

ack Aug 6

The Kansai Electric Power Co., Inc.

(KANSUI DENRYOKU KABSHEIKU KAISHA)

2 KANARONOMA 3 CHOME, KITAKU

OSAKA, JAPAN

CABLE ADDRESS
"KANSUIPOWER OSAKA"

July 23, 1964

1974

Mr. J. F. Gaffill
Director, Department of Operation - Far East
International Bank for
Reconstruction and Development
1818 H Street, N. W., Washington, D. C.
U. S. A.


Dear Mr. Gaffill,

I was very happy to learn from our Executive Vice President, Mr. Yoshimura, who just came back from Washington, D. C., that you are coming to Tokyo in September to attend the general meeting of IEP and World Bank. The Japan Development Bank also informed us of your itinerary after the meeting to visit our Katsugawa No. 4 Power Station which was recently completed with the assistance from your bank.

It is our great honor that we are given an opportunity to show the power station to you, and we hope that you will be fully satisfied to see the fine result of the loan extended by your bank.

I understand that your schedule in Japan will be very tight, but we are making arrangements to make your visit there as enjoyable as possible, and are looking forward to seeing you.

Very sincerely yours,


Yoshimura
President & Director

1964 AUG -3 AM 9:51

RECEIVED
GENERAL FILES
COMMUNICATIONS

ROUTING SLIP

Date

August 3, 1964

OFFICE OF THE PRESIDENT

Name

Room No.

~~Mr. Cargill~~

In Street

Urbansant

Man deal with this

L. H. 84x

Action

Note and File

Approval

Note and Return

Comment

Prepare Reply

Full Report

Previous Papers

Information

Recommendation

Initial

Signature

Remarks

For information and any necessary action.

[Signature]
G. D. Woods

logged
JUL 31 REC'D JA-196

THE KANSAI ELECTRIC POWER Co., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

July 27, 1964

Mr. George D. Woods, President
The International Bank for
Reconstruction & Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

Dear Mr. Woods:

It is advised that the Board of Directors of our Company resolved at the regular meeting held on July 27, 1964, issuance of new shares due to transfer of revaluation surplus as per attached sheet.

Your kind attention for the above will be highly appreciated.

Very truly yours,

Yoshishige Ashihara

Yoshishige Ashihara
President & Director

1964 JUL 31

ack. Aug 6

JUL 31 RECD

The Kansai Electric Power Co., Inc.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

2 NAKANOSHIMA 2-CHOME, NITA-ETU

OSAKA, JAPAN

OSAKA ADDRESS
KANSAI POWER OSAKA

JUL 27, 1964

Mr. George D. Woods, President
The International Bank for
Reconstruction & Development
1815 R Street, N.W.
Washington, D.C. U.S.A.

Dear Mr. Woods:

It is advised that the board of directors of our company re-
solved at the regular meeting held on July 27, 1964, issuance of new
shares due to transfer of revaluation surplus as per attached sheet.

Your kind attention for the above will be highly appreciated.

Very truly yours,

Yoshitaka Ashihara
Yoshitaka Ashihara
President & Director

1964 JUL 31 AM 8:22

RECEIVED
GENERAL FILES
COMMUNICATIONS

Attached Sheet

(I) Matters Relating to Partial Transfer of Revaluation Surplus to Stated Capital and Issuance of New Shares due to above Transfer

- (1) The sum of ¥874,700,000, being a part of the revaluation surplus shall be transferred to stated capital as of October 1, 1964.
- (2) Accompanying the above transfer, new shares shall be issued as of the same date.

(a) Number of new shares to be issued:
1,749,400 shares of non-bearer par value stock.

(b) Method of allotment:

New shares to be allotted to the shareholders as of 3.00 p.m. on September 30 (Wednesday), 1964 at the rate of 0.01 new shares to 1 presently held share.

Fractional share less than one share resulting from the above allotment shall be sold en bloc and the proceeds therefrom shall be distributed among the shareholders receiving such fractional shares according to the number of holdings of such fractional shares.

(c) Issue Price:

¥500 per share. Provided, the amount transferred to the stated capital from the revaluation surplus shall be applied and no subscription money shall be collected.

(d) Date for Dividend Calculation:

October 1, 1964.

II Purpose of Issuance of New Shares

In order to cope with ever growing power demand, the Company has been endeavoring to expand generating facilities and others, and needs huge amount of construction funds. Though the Company is trying to utilize own funds as much as possible, it should also rely on capital increase and other outside funds.

It will be important to enhance trust of shareholders in the Company's stock, raising the investment yield of shareholders, in order to carry out these capital increases.

And, as the balance of revaluation surplus is 88,474,150,000 yen, the Company will distribute shares without collecting subscription money, as we did previously, to reward our shareholders.

Seen by Messrs. Cargill & Street.

logged
JA-196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU

OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

July 22, 1964

Mr. I. P. M. Cargill, Director
Operation - Far East
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

Dear Mr. Cargill:

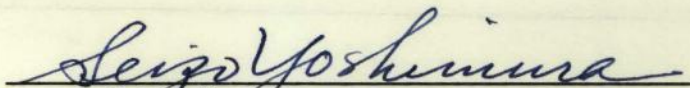
After completing my mission in the United States this time, I returned to Osaka on July 15.

It was really a great pleasure that, despite of my tight schedule in Washington, D. C., I could see you.

May I take this opportunity to extend my deep appreciation for the kind consideration by yourself and all of my friends in your bank who have so nicely given assistance so far.

Hoping for your good health and looking forward seeing you in Japan in the near future when you come to visit here for the IMF meeting in coming September.

Yours very faithfully,


Seizo Yoshimura
Executive Vice President & Director

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

3 KAKAKOSHIMA 3-CHOME, KITA-KU

OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

July 22, 1964

Mr. I. P. M. Gargill, Director
Operation - Far East
International Bank for
Reconstruction and Development
1818 R Street, N. W.
Washington, D. C., U. S. A.

Dear Mr. Gargill:


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ule in Washington, D. C., I could see you.

May I take this opportunity to extend my deep appreciation for
the kind consideration by yourself and all of my friends in your bank
who have so nicely given assistance so far.

Hoping for your good health and looking forward seeing you in
Japan in the near future when you come to visit here for the IMF
meeting in coming September.

Yours very faithfully,


Shigeo Yoshimura
Executive Vice President & Director

1964 JUL 27 PM 1:49

RECEIVED
GENERAL FILES
COMMUNICATIONS

July 22, 1964

Mr. Eiji Matsumoto
 Managing Director
 The Kansai Electric Power Company Inc.
 5 Nakanoshima 3-Chome, Kita-ku
 Osaka, Japan

Re: Loan 196-JA

Dear Mr. Matsumoto:

Thank you for your letter dated July 18, 1964. I am pleased to be able to inform you now of the reply received from Mr. Marcello, dated July 8, 1964, from which I excerpt here the comments regarding Kurobe:

"Dear Mr. Piccagli - I duly received your kind letter of the 17th last.

In fact, I have met during a tour on the Clyde in Scotland in connection with the 8th Congress of the International Commission on Large Dams, Mr. Bloor of the Bank and General Vogel with whom I have spoken of a certain concern which I felt when I saw the reports on deformations of the Kurobe dam, as I regularly receive them (quarterly, if I remember well).

My concern has been appeased, or at least relieved, by the information received from the Kansai themselves that a small landslip had damaged a theodolite used for taking measurements and therefore the results were not to be considered reliable. I have advised them that the measuring instruments should have been restored and measurements repeated to secure reliable data, considering the topmost importance of deflection measurements for the safety of the dam. I am waiting for news, and I shall not fail to keep you informed."

It is clear from this letter that there is no further thought of Board consideration in the near future. I quite agree with you that if there is to be a review by the Board this would be much more useful and conclusive when the results of further observations become available.

I still have no reply from Mr. Gicot. When it comes, if it should deal specifically with the problem of Kurobe rather than general considerations of procedures, I shall be very happy to let you know its content.

With warm personal regards.

Sincerely yours,

Mario Piccagli
 Chief, Public Utilities Division
 Department of Technical Operations

78-192

July 22, 1964

Mr. Eiji Matsumoto
Managing Director
The Kansai Electric Power Company Inc.
5 Wakarohshima 3-Chome, Kita-ku
Osaka, Japan

Re: Loan 196-7A

Dear Mr. Matsumoto:

Thank you for your letter dated July 18, 1964. I am pleased to be able to inform you now of the reply received from Mr. Marcello, dated July 8, 1964, from which I excerpt here the comments regarding Knobe:

"Dear Mr. Piccagli - I duly received your kind letter of the 17th last.

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I still have no reply from Mr. Otsoc. When it comes, if it should deal specifically with the problem of Knobe rather than general considerations of procedures, I shall be very happy to let you know its content.

With warm regards,
July 23, 1964 PM 1:36

Sincerely yours,

RECEIVED
GENERAL FILES
COMMUNICATIONS

Marlo Piccagli

Chief, Public Utilities Division
Department of Technical Operations

cc: Gen. Vogel

MP:dl

July 20, 1964

Mr. Yoshishige Ashihara
Director & President
The Kansai Electric Power Co., Inc.
(Kansai Denryoku Kabushiki Kaisha)
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Dear Mr. Ashihara:

Thank you very much for your letter of July 7, 1964 addressed to Mr. Woods informing us of the successful operating conditions of the Kurobe No. 4 Hydro Power Station. We are very pleased to hear that the power station is contributing substantially to the supply capability of the company and wish to thank you for your expression of appreciation to the Bank for its assistance to the project.

We are glad to hear that Kansai is adding a 450 MW unit to its Himeji No. 2 Thermal Power Station by arrangements with Westinghouse Electric International Co. and Export-Import Bank of Washington. We wish you great success in your new project.

With best regards,

Sincerely yours,

Gordon M. Street
Department of Operations - Far East

NRChakravarti/GMStreet:vcv
IBRD

NC

1964 JUL 21 11:30

COMMUNICATIONS
GENERAL LINES
RECEIVED

July 20, 1964

Mr. Yoshitake Ashihara
Director & President
The Kansai Electric Power Co., Inc.
(Kansai Denryoku Kabushiki Kaisha)
2 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Dear Mr. Ashihara:

Thank you very much for your letter of July 7, 1964, addressed to Mr. Woods informing us of the successful operating conditions of the Kinope No. 1 Hydro Power Station. We are very pleased to hear that the power station is contributing substantially to the supply capability of the company and wish to thank you for your expression of appreciation to the Bank for its assistance to the project.

We are glad to hear that Kansai is adding a 150 MW unit to its Himeji No. 2 Thermal Power Station by arrangements with Westinghouse Electric International Co. and Export-Import Bank of Washington. We wish you great success in your new project.

With best regards,

Sincerely yours,

Gordon M. Street
Department of Operations - Far East

MRCHAKRVARTY/GMstreet:vcw
LHRD

✓

1964 JUL 21 AM 11:30

RECEIVED
GENERAL FILES
COMMUNICATIONS

July 20, 1964

Mr. Claudio Marcello
Via Visconti di Modrone 18
Milano, Italy


Dear Mr. Marcello:

Many thanks for your letter dated July 8, 1964 which clarifies the questions you had on progress of work at Kurobe.

We shall all be looking forward with interest to your further comments after the next progress report is distributed. In the meantime, you will have received copy of my letter to Mr. Gicot which I trust was self-explanatory.

With warm personal regards.

Sincerely yours,


Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations

ccMessrs.Aldewereld/Vogel

MP:bli
IHRD (196-JA)

1964 JUL 21 11:31

COMMUNICATIONS
GENEVE LIFE
RECEIVED

24-172

July 20, 1964

Mr. Claudio Marcello
Via Visconti di Modrone 18
Milano, Italy

Dear Mr. Marcello:

Many thanks for your letter dated July 8, 1964 which clarified the questions you had on progress of work at Mirpe.

We shall all be looking forward with interest to your further comments after the next progress report is distributed. In the meantime, you will have received copy of my letter to Mr. Groot which I trust was self-explanatory.

With warm personal regards.

Sincerely yours,

Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations

ccMessrs. Aldeveredj Vogel

MR:DLJ
IRPD (196-7A)

1964 JUL 21 AM 11:31

RECEIVED
GENERAL FILES
COMMUNICATIONS

JA-196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

July 18, 1964

Mr. Mario Piccagli ✓
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington 25, D. C., U. S. A.

T.O.D. CORRES.
ANS'D. BY _____
DATE _____

Dear Mr. Piccagli,

Thank you very much for your letter dated July 7. We are very grateful to I.B.R.D. and members of its Board of Consultants for having continuous interest to our Kurobe dam.

Kurobe dam, after having commenced to be raised the waterlevel from October '60, it is expected to proceed until EL 1425 on November this year following the schedule recommended by the Board with careful observation and measurements.

The data of the measurements up to the present seems to indicate generally normal behaviour of the dam, and it is scheduled to have discussion with ELC members about these data and further schedule of the reservoir operation during their inspection visit in coming August at Kurobe dam.

We are always, of course, ready to welcome any reviews of I.B.R.D. and its Board of Consultants for the problems of Kurobe dam. However, it will be more valuable to have this opportunity after checking the data obtained both during the period of sustained load under the water-level of EL 1425 in this year and that of during drawing down to EL 1380 in the next year.

I am expecting the information from you about the opinions of Messrs. Gicot and Marcello on this matter.

Thanking again, I remain

Sincerely yours,

Keiji Matsumoto

Keiji Matsumoto
Senior Managing Director

ack. July 22

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

2 NAKAKOSHIMA 3 CHOME, KITA-KU

OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER-OSAKA"

July 18, 1964

T.O.D. CREDIT
ANS'D BY _____
DATE _____

Mr. Mario Piccolini
 Chief, Hydro Electric Division
 Department of Technical Operations
 International Bank for
 Reconstruction and Development
 1818 E Street, N.W.
 Washington 25, D.C. U.S.A.

Dear Mr. Piccolini,

Thank you very much for your letter dated July 7. We are very
 grateful to I.E.S.E. and members of its Board of Consultants for
 having continuous interest in our Kinoshita dam.

Kinoshita dam, after having commenced to be raised the water level
 from October '63, it is expected to proceed until EL 147.5 on November
 this year following the schedule recommended by the Board with careful
 observation and management.

The rate of the measurements up to the present seems to indicate
 quite generally normal behavior of the dam, and it is scheduled to
 have discussion with I.E.S.E. members about these data and further schedule
 of the reservoir operation during their inspection visit in coming
 August of Kinoshita dam.

We are always, of course, ready to welcome any review of I.E.S.E.
 and its Board of Consultants for the problems of Kinoshita dam. However,
 it will be more valuable to have this opportunity after checking the
 data obtained both during the period of sustained load under the water-
 level up to EL 147.5 and also after the start of raising the water level to EL
 150 in the next year.

I am expecting the information from you about the opinions of
 Messrs. Goto and Kuroki on this matter.

Thanking you again, I remain

Sincerely yours,

Osaka Kinoshita
 Director

1964 JUL 22 AM 9:03

RECEIVED
 GENERAL FILES
 COMMUNICATIONS

ROUTING SLIP	Date
	7-13-64

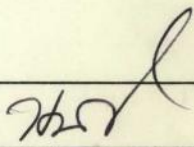
NAME	ROOM NO.
Mr. T. B. M. Conitt	

To Handle	Note and File
Appropriate Disposition	Note and Return
Approval	Prepare Reply
Comment	Per Our Conversation
Full Report	Recommendation
Information	Signature
Initial	Send On

REMARKS

We have all this material
already on file.

From



INTERNATIONAL BANK FOR
RECONSTRUCTION AND DEVELOPMENT

ROUTING SLIP		Date July 9, 1964
NAME		ROOM NO.
Mr. Piccagli		300
<i>Gen Vogel</i>		345
	To Handle	Note and File
	Appropriate Disposition	Note and Return
	Approval	Prepare Reply
	Comment	Per Our Conversation
	Full Report	Recommendation
	Information	Signature
	Initial	Send On
REMARKS		
<p>The Kansai people who were concerned with the construction of Kurobe have started a consulting firm to which the attached papers refer. They asked me to ensure that people in the Bank knew of this event. Perhaps you have these papers already.</p> <p><i>There goes the inflation of would-be consultants - These people Attachment. would be well advised to stick to power generation and sales</i></p>		
From I.P.M. Cargill <i>JW</i>		

INTERNATIONAL BANK FOR
RECONSTRUCTION AND DEVELOPMENT

INTERNATIONAL DEVELOPMENT ASSOCIATION

INTERNATIONAL FINANCE CORPORATION

WASHINGTON, D. C. 20433

ENGINEERING CONSULTANTS

NEWJEC



KUROBE DAM

(Arch dam)
dam height 186m

NEW JAPAN

ENGINEERING CONSULTANTS, Inc.

OSAKA, JAPAN

KUROBE DAM

The Kurobe River and surrounding mountains of the Japan North Alps



BRIEF INTRODUCTION

The **New Japan Engineering Consultants, Inc.** was born in September, 1963 from the **Kansai Electric Power Company.**

The Kansai Electric Power Company, now one of the leading industries in Japan, has so far been making outstanding contributions to the reconstruction of the war-devastated national resources, since established in 1951, with numerous hydro and steam power plants built up one after another.

In fact, the total capacity of the power plants completed by the Kansai Electric Power Company amounts to 942,640 Kw in hydro-power generation and 2,773,000 Kw in steam power. Among them is the Kurobegawa No. 4 Power Station symbolized by the dome type arch dam of 186-meter height, the designs for which are recognized to be ranked at the top level all over the world.

The engineering staff served for the **New Japan Engineering Consultants, Inc.** are composed chiefly of those engineers ever engaged in the construction of the above cited Kurobegawa No. 4 Power Station. Therefore, we are hopefully confident that their technical knowledges they gained in the field of highly developed hydro and steam power engineering will be utilized most effectively, not merely for the Kansai Electric Power Company alone, but also for other industries both at home and abroad.

Aspect of the new engineering consultants company

Name of Company:

New Japan Engineering Consultants, Inc.

Address:

Maruzen Oil Bldg.

3, Nagahoribashi-suji 1-chome, Minami-ku, Osaka, Japan

Date of Establishment:

September 21, 1963

Objects of Company:

- 1 Design and supervision of general civil engineering and construction works (including those for dams, tunnels, power stations, water supply and sewerage, irrigations, highways and roads, bridges, port construction, general building construction, the development of tourist and recreation resorts, and city planning, etc.).
- 2 Design and supervision of the power generation and transmission facilities.
- 3 Survey, research and businesses incidental to those mentioned in the preceding items (1) and (2) (including geological survey, soil study, rock tests and the calculation works and their analysis which require the help of electronic computers).

Various facilities and equipment such as the 300-ton oil-pressure jack, the constant loading equipment and the measurement instruments of kinds are ready for use.

Capital:

Authorized Capital 200,000,000 yen

Original Capital 50,000,000 yen

NEW JAPAN ENGINEERING CONSULTANTS, Inc.

Head office : Osaka
 Branch office : Tokyo



Employees:

This company is to start with 70 employees as described below, and the number of employees will be increased to some 200 in the years ahead.

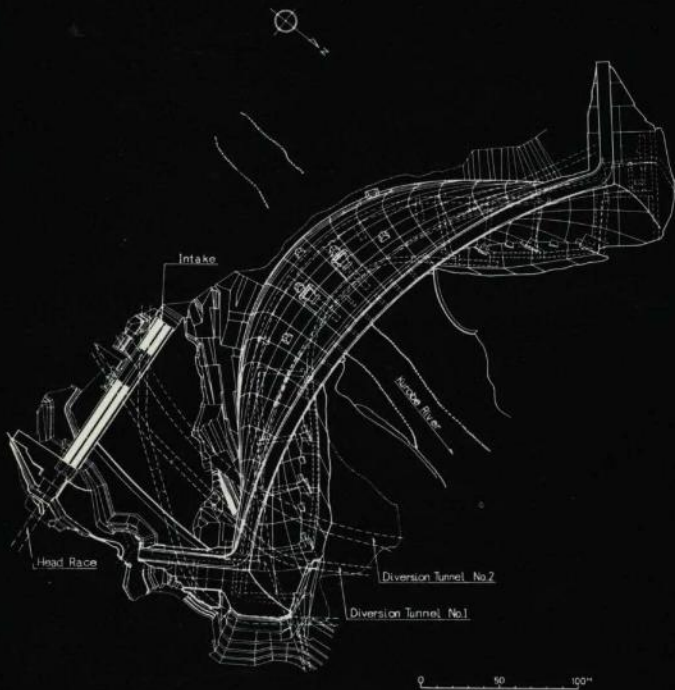
Civil engineers	40
Architects	15
Other engineers and clerks	15
Total	70

Officers:

President	Eiji Matsumoto,	Managing Director The Kansai Electric Power Co., Inc.
Managing Directors	Jiro Maruyama	Senior Investigator The Kansai Electric Power Co., Inc.
	Yohichiro Kawakatsu,	Senior Investigator The Kansai Electric Power Co., Inc.
Directors	Yoshishige Ashihara,	President The Kansai Electric Power Co., Inc.
	Nobuo Tomonaga,	Managing Director The Kansai Electric Power Co., Inc.
	Masanori Nose,	Director The Kansai Electric Power Co., Inc.
Auditors	Seizo Yoshimura,	Vice-president The Kansai Electric Power Co., Inc.
	Minoru Yoshida,	Chief of Construction Dept. The Kansai Electric Power Co., Inc.

OUTLINE OF

KUROBEGAWA No.4 HYDRO-POWER STATION

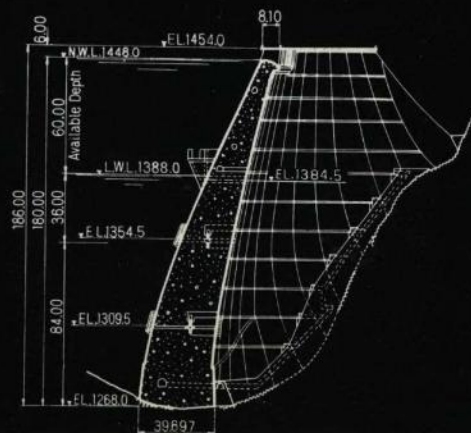


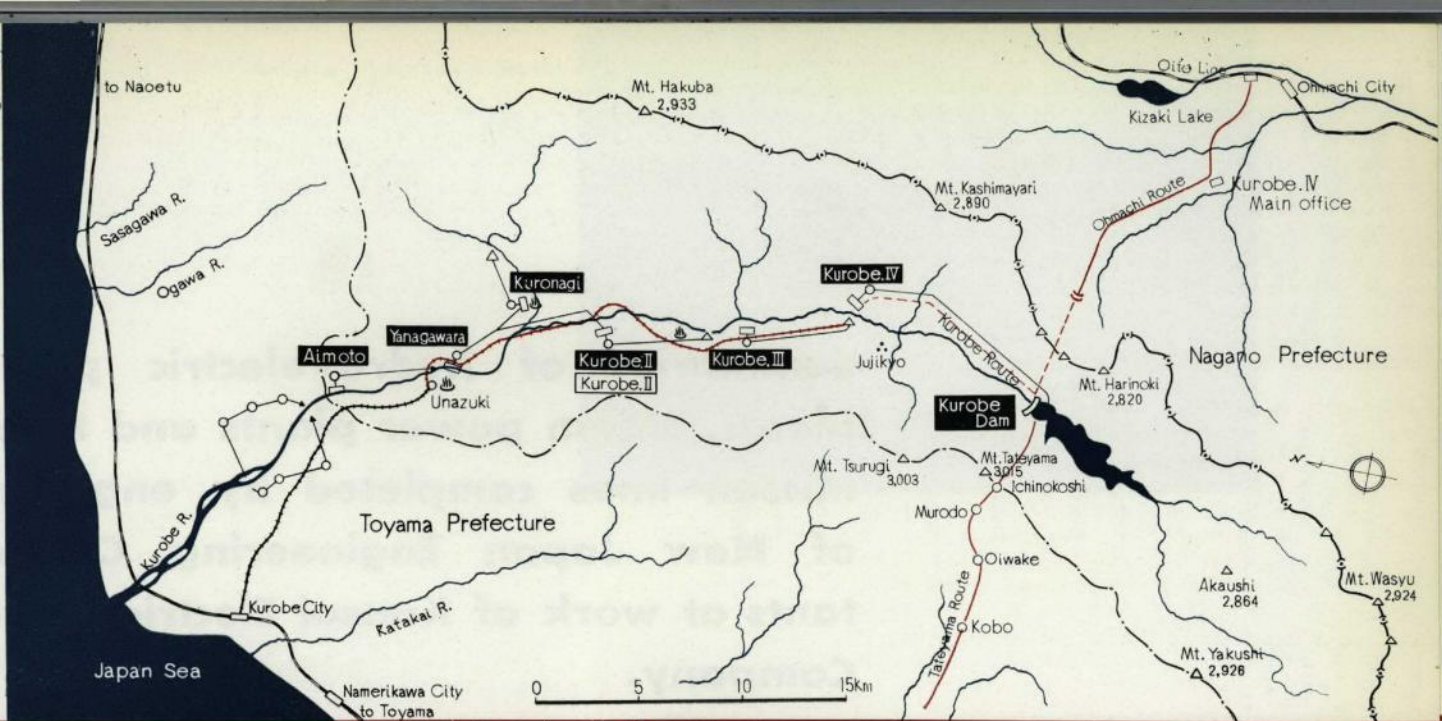
General

Discharge	54.00 m ³ /s
Effective head	560.20 m
Output	258,000 kw

Available energy 《 Annual 》

Kurobegawa No. 4	1,037,625 kwh
Increment of downstream station	267,211 kwh
Sum	1,304,846 kwh





Civil works

Dam

Type	Dome type arch dam with wing dams
Height	186 m
Crest length	494.92 m
Crest thickness	8.00 m
Base thickness	39.70 m

Reservoir

Gross storage capacity	219,800,000 m ³
Effective storage capacity	163,800,000 m ³
Available depth	60.00 m

Head race

Type	Circular pressure tunnel
Inside diameter	4.80 m
Length	10,408.00 m

Penstock

Type	Banded - pipe
Number	1 - line
Diameter	« header » 3.25 m « branch » 1.60 ~ 2.80 m
Total length	768.68 m
Thickness	« pipe » 12 ~ 24 mm « band » 27 ~ 46 mm

Underground Bldgs.

Area	« power house » 2,340 m ² « substation » 3,000 m ² « switch yard » 3,411 m ²
------	---

Tail race

Type	Horse - shoe type
Inside diameter	5.00 ~ 6.60 m
Length	896.00 m

Electric Accommodation

Water turbine

Type	Pelton vertical shaft 6 nozzles
Number	3 units
Capacity (60 ~ 50 ~)	90,000 ~ 87,000 kw
R. P. M (60 ~ 50 ~)	360 ~ 300 r. p. m.

Generator

Type	Vertical shaft, 3 phases A. C. synchronized generator
Number	3 units
Capacity (60 ~ 50 ~)	95,000 ~ 86,000 kva

Transportation route

Ohmachi route	21 kilometers
Kurobe route	12 kilometers

Work schedule

Commencement of works	July, 1956
Partial power generation	January, 1961
Completion of all works	June, 1963



Kurobe Dam : Downstream view

NEW JAPAN ENGINEERING CONSULTANTS Inc.

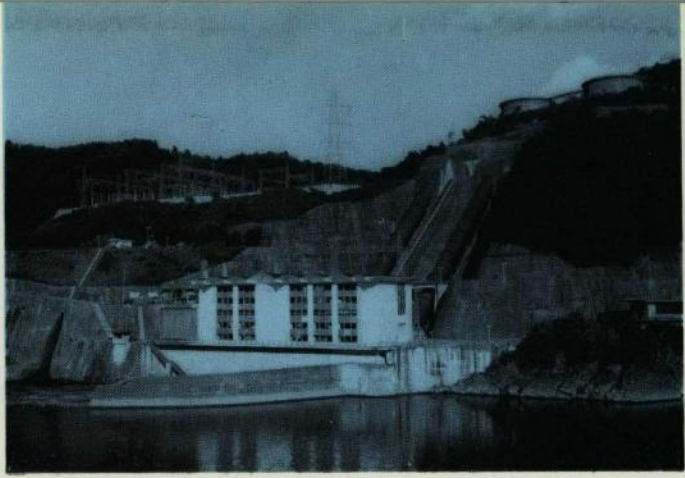
Summaries of hydro-electric power plants, steam power plants and transmission lines completed by engineers of New Japan Engineering Consultants at work of Kansai Electric Power Company.

HYDRO-POWER PLANTS

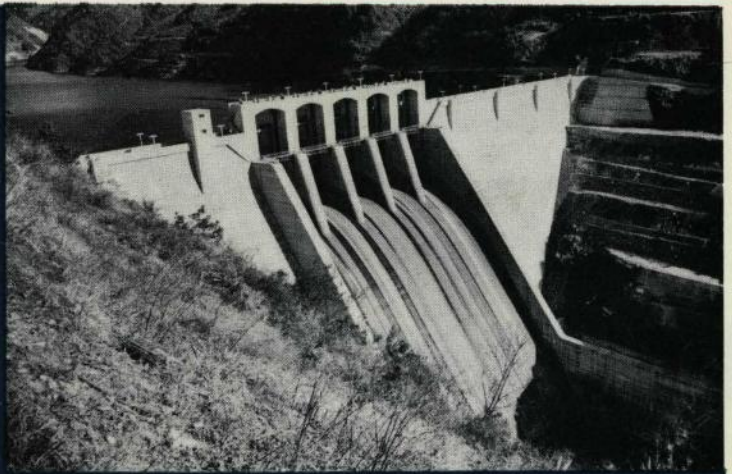
《10,000kw and above》

Name of plants	Output in kw
Narude	35,000
Takigoshi	27,500
Tsubakihara	38,700
Utsubo	24,000
Maruyama	125,000
Ontake # 3	22,000
Tsunokawa	23,000
Hatogaya	40,300
Tonoyama	15,000
Yamaguchi	42,000
Yatagawa	11,000
Yomikaki No. 2	70,000
Kurobegawa No. 4	258,000
Mio	34,000
Shin - Kurobegawa No. 3	56,000
Amagase	92,000
Others 《10,000 kw and below》	29,140
Total	942,640

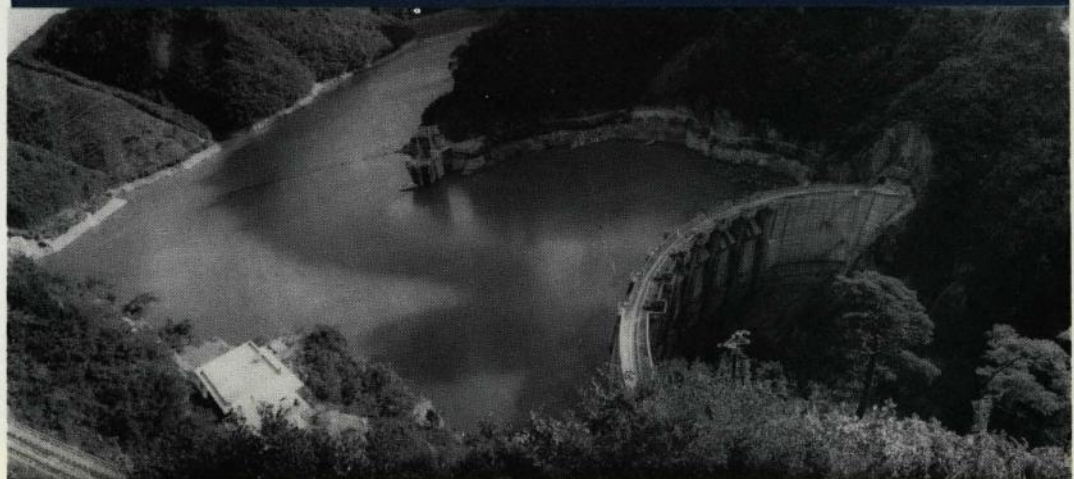
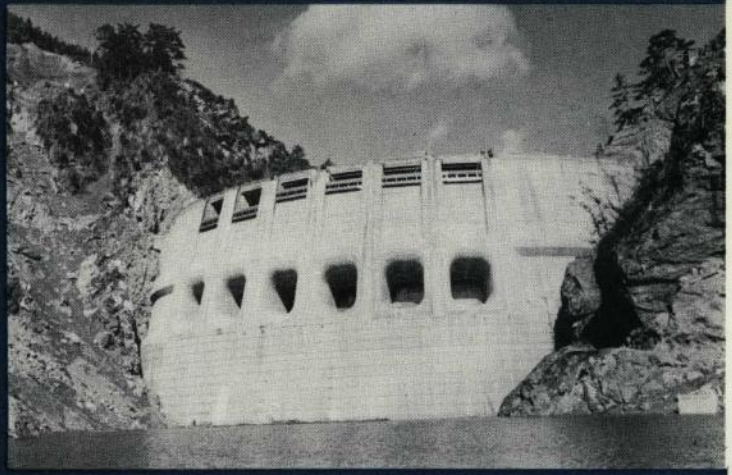
Maruyama Hydro-power Station



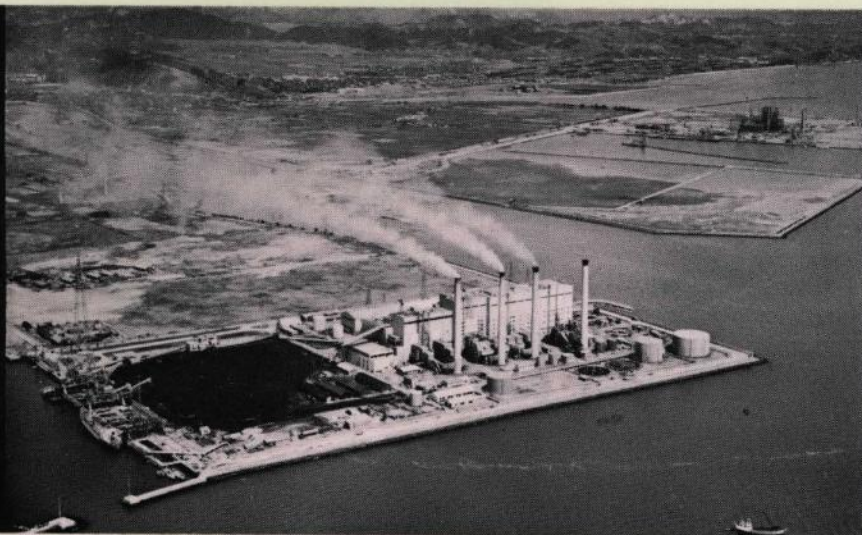
Maruyama Dam



Tonoyama Dam



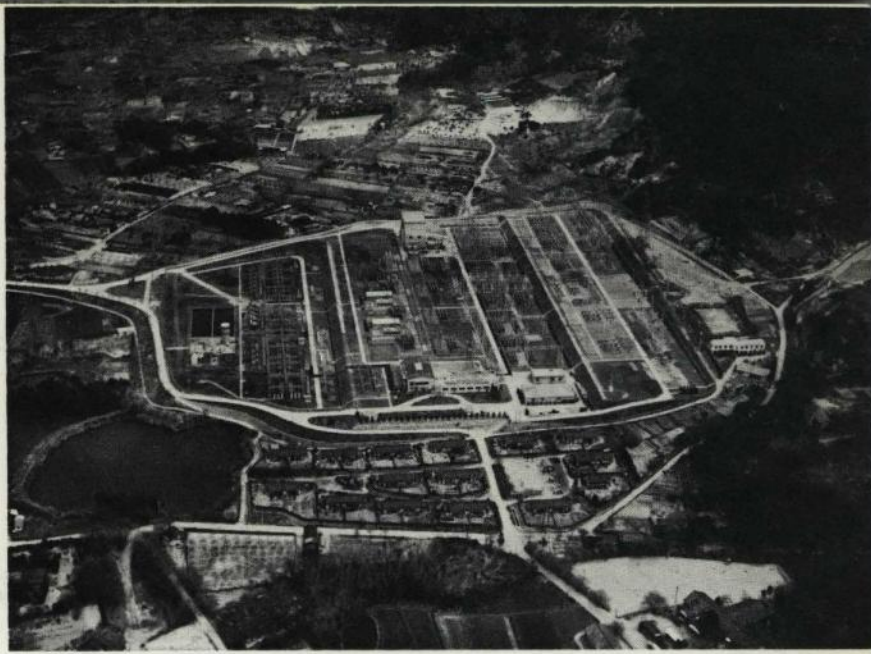
Himeji No.1 Steam Power
Station
Himeji No.2 project site
seen behind



OUTLINE OF STEAM POWER ENGINEERING WORKS

Name of plants	Output 《in kw》	Site area 《in m ² 》	Main Bldg. 《in m ³ 》	Reclaimed land 《in m ² 》	Quay installation	Sea wall 《in m》
Tanagawa 《dual firing》	462,000	318,000	105,700	160,000	10,000 t 《1 Berth》	Constructed by other industry
Osaka 《dual firing》	624,000	249,000	475,100	57,000	10,000 t 《1 Berth》	800
Amagasaki No. 3 《oil firing》	312,000	125,000	178,000	125,000	2,000 t 《2 Berth》 or 5,000 t 《1 Berth》	1,880
Himeji No. 1 《oil firing》	422,000	160,000	370,000	160,000	10,000 t 《1 Berth》 or 3,500 t ~ 3,000 t 《1 Berth》	1,092
Himeji No. 2 《oil firing》	575,000	437,000	222,000	437,000		1,830
Kasugade 《oil firing》	312,000	46,900	83,000	0	2,000 t 《1 Berth》 or 500 t 《2 Berth》	0
Amagasaki-Higashi 《coal firing》	312,000 under construction	100,000	111,400	0	500 t 《3 Berth》	Constructed by local authorities
Sakaikoh 《oil firing》	2,000,000 under construction	730,000	136,000	730,000	3,000 t 《1 Berth》	1,000

General view of
Hirakata Substation



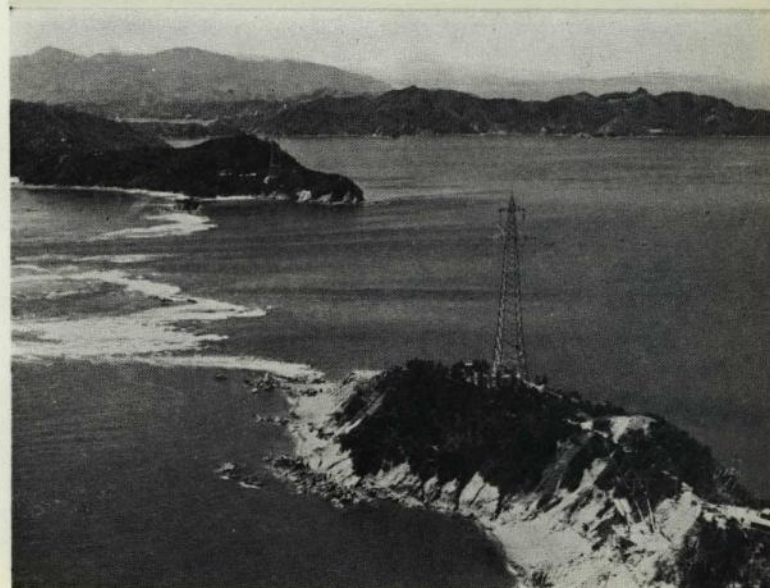
Kurobe. No. 4 Dam project :
Aggregate transportation route



Kurobe. No. 4 Dam project :
General view of Ohmachi Route, the
Japan North Alps range seen behind
(Altitude of 3,000-meter order)

SUPER HIGH TENSION LINES

Name of trunk lines	Line capacity in kv	Distance in km	Circuits
Higashi - Osaka	250	12.6	2
Kita - Osaka	250	46.0	2
Himeji	250	70.0	2
OKayama	200	78.0	2
Kurobe- Shin Aimoto	250	29.0	2
Himeji Steam Plant	250	21.4	2
Shin - Kobe	250	14.8	2
Dai - Kurobe	250	24.0	2

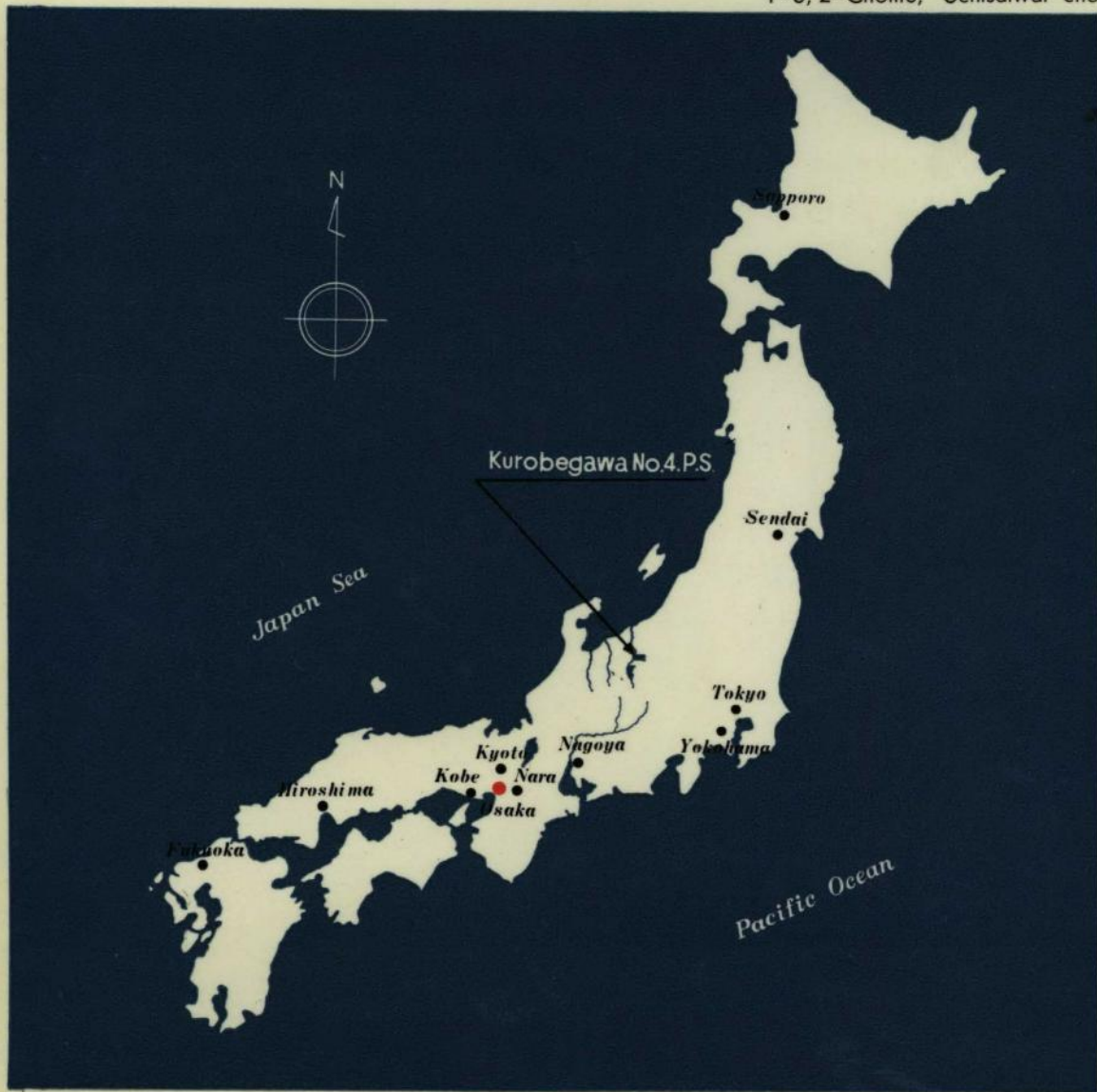


Naruto Trunk Line : Channel of Seto Inland Sea

NEW JAPAN ENGINEERING CONSULTANTS, Inc.

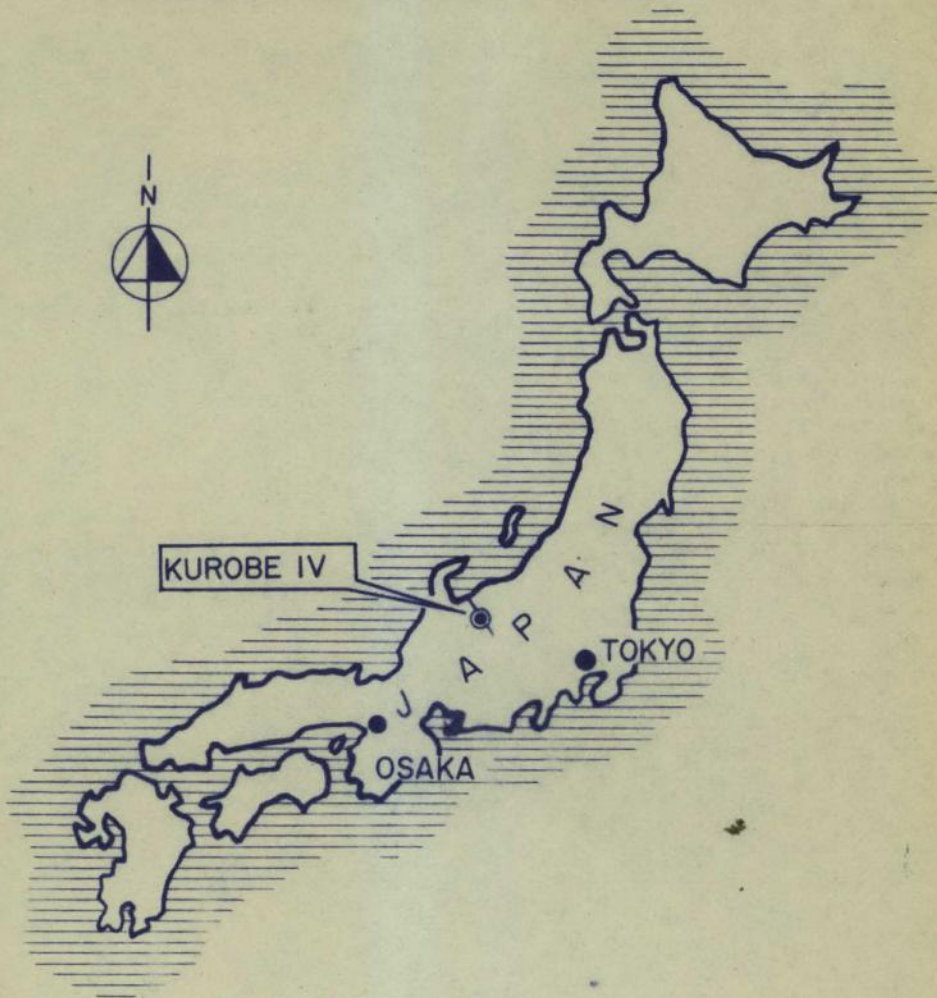
Head Office : Maruzen Oil Bldg. 3, Nagahoribashi-suji 1-chome, minami-ku, Osaka, Japan

Tokyo Office : c/o Kansai Electric Power Co. Tokyo Office (Osaka Bldg.)
1-3, 2-Chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo, Japan



LOCATION

0 200 400 600 800 1000 km



KUROBE IV SCHEME

BASIN

CATCHMENT AREA km² 203

RESERVOIR

TOTAL STORAGE m³ 199 300 000
 LIVE STORAGE m³ 148 800 000
 LIVE STORAGE DEPTH m 60

DAM

MAX. HEIGHT m 186
 CONCRETE VOLUME m³ 1 558 000

CONDUCTION TUNNEL

INSIDE DIAMETER m 4.80
 LENGTH m 10 300

PENSTOCKS

TOTAL LENGTH m 767

UNDERGROUND POWER STATION

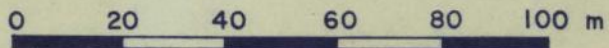
EFFECTIVE HEAD m 560.20

MAX WATER DISCHARGE m³/s 54

INSTALLED CAPACITY (3 PELTON) MW 258

ENERGY PRODUCTION

ANNUAL MWh 1 038 000



THE KANSAI ELECTRIC POWER CO., INC.	16-1000
KUROBE IV DAM	
GENERAL ARRANGEMENT	

x = +350

y = +250

y = +200

y = +150

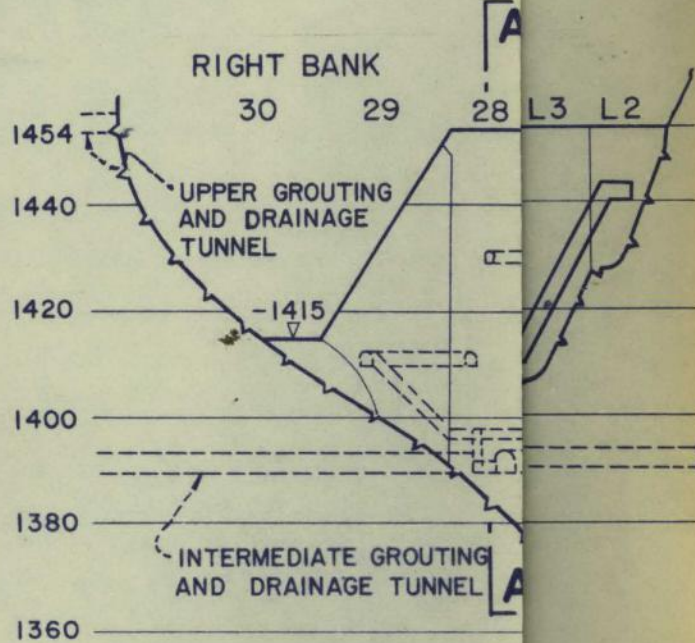
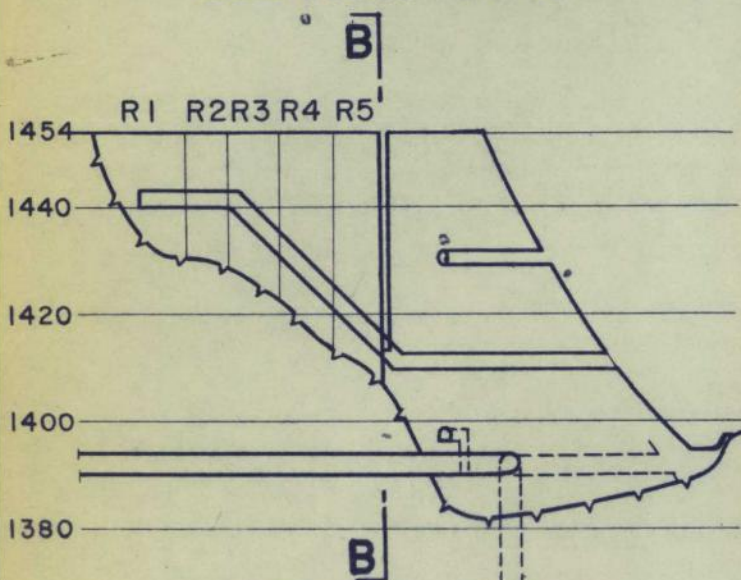
y = +100

1348 000

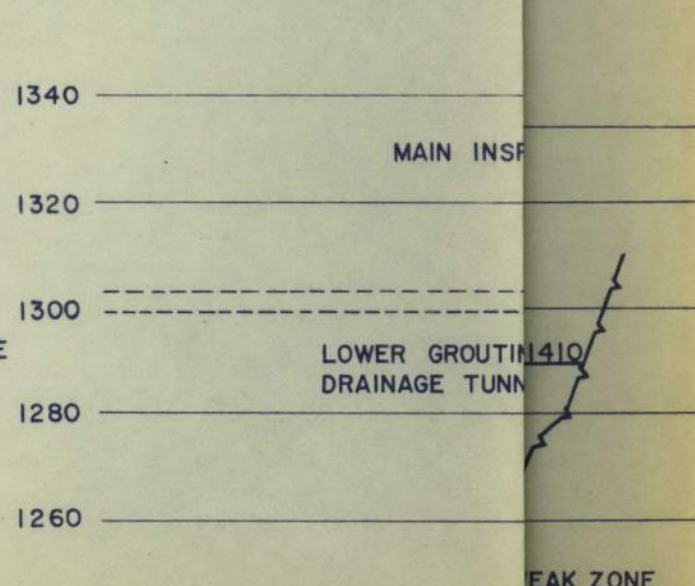
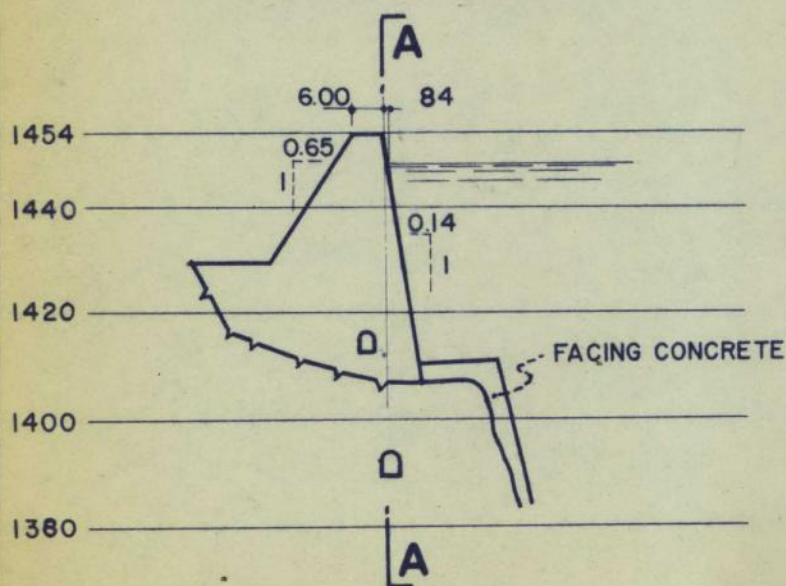
1558 000

RIGHT WING WALL SECTION A-A

LL

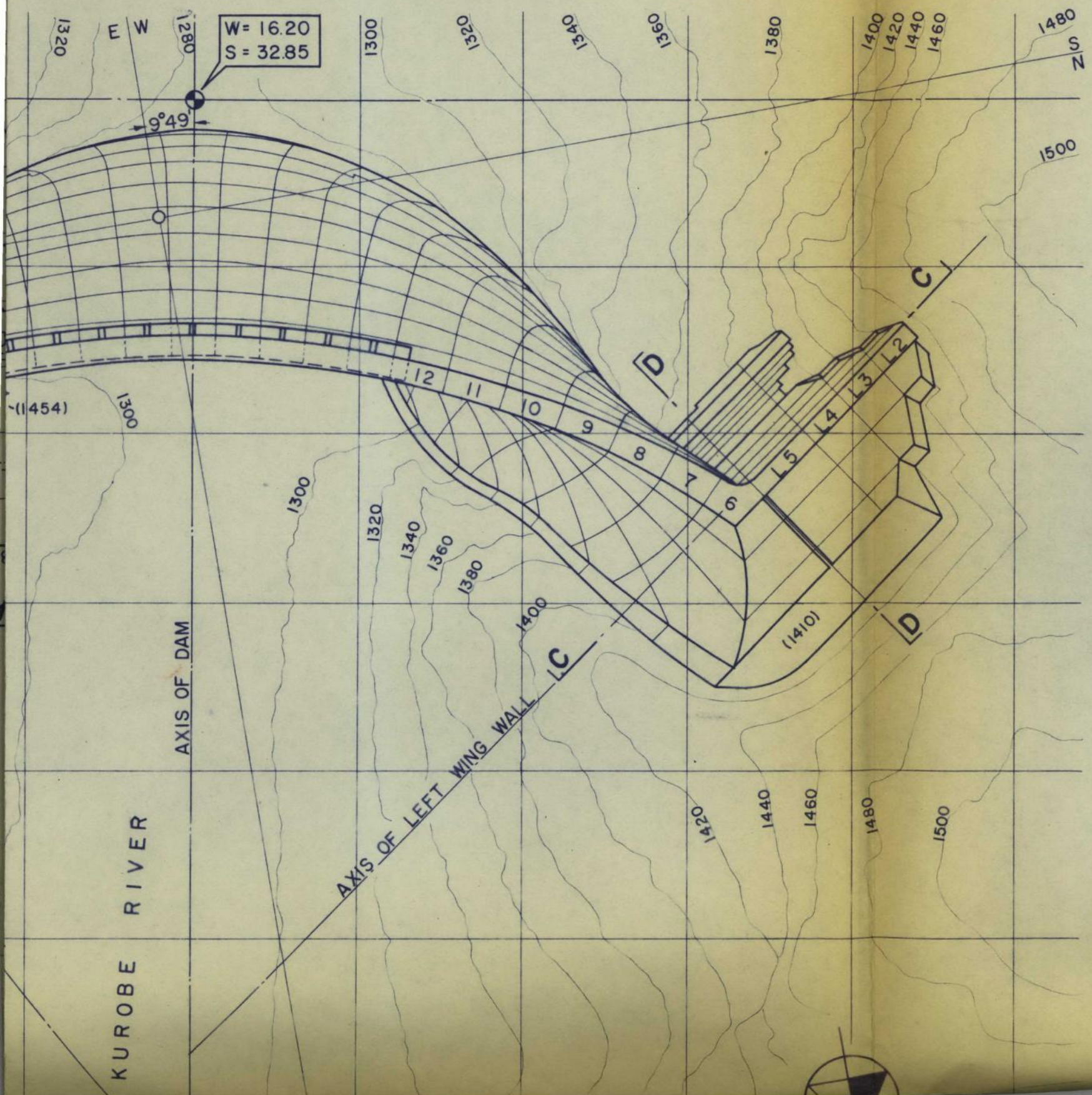


SECTION B-B

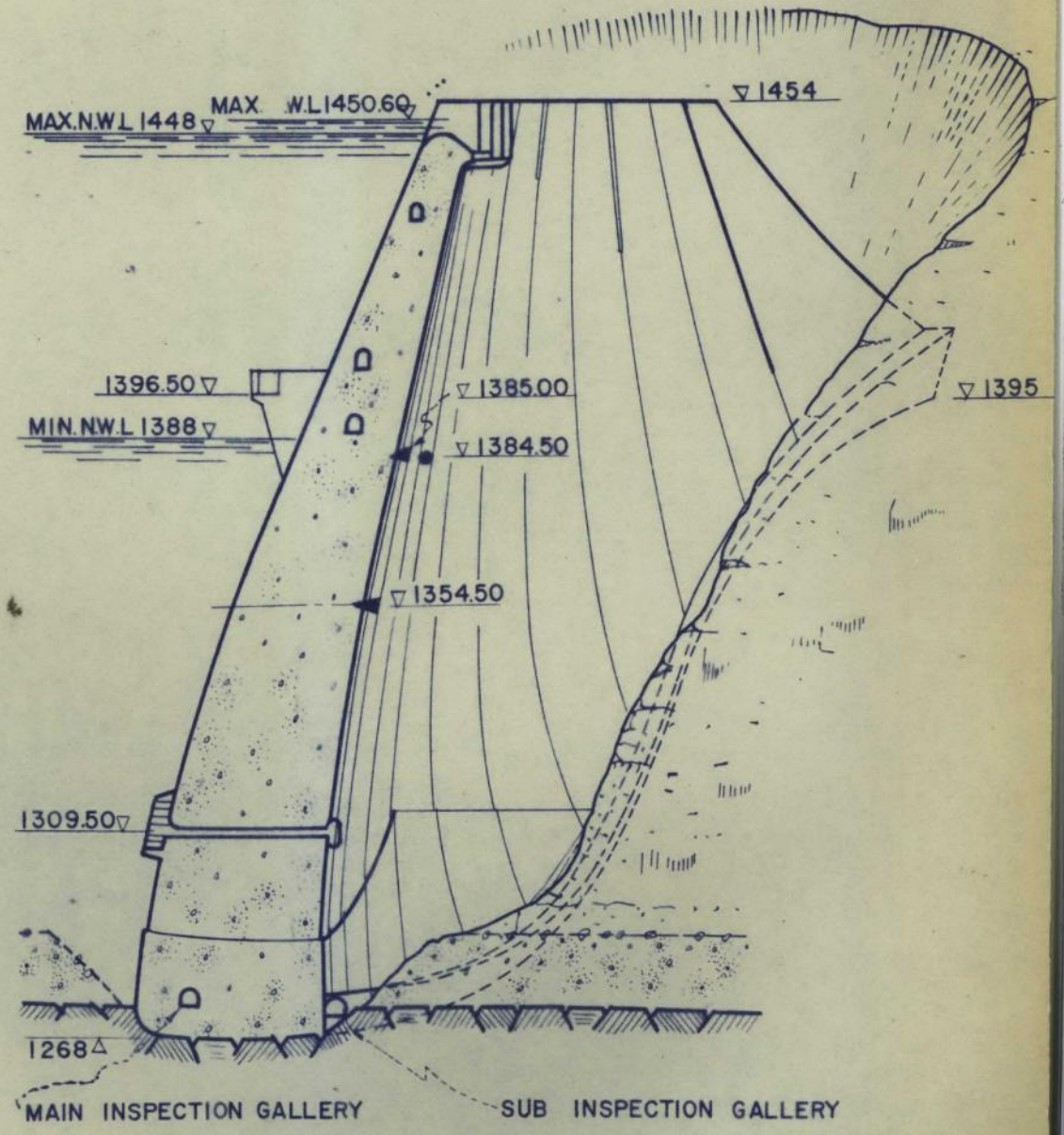


EAK ZONE

GENERAL PLAN



MAIN SECTION AND LATERAL VIEW

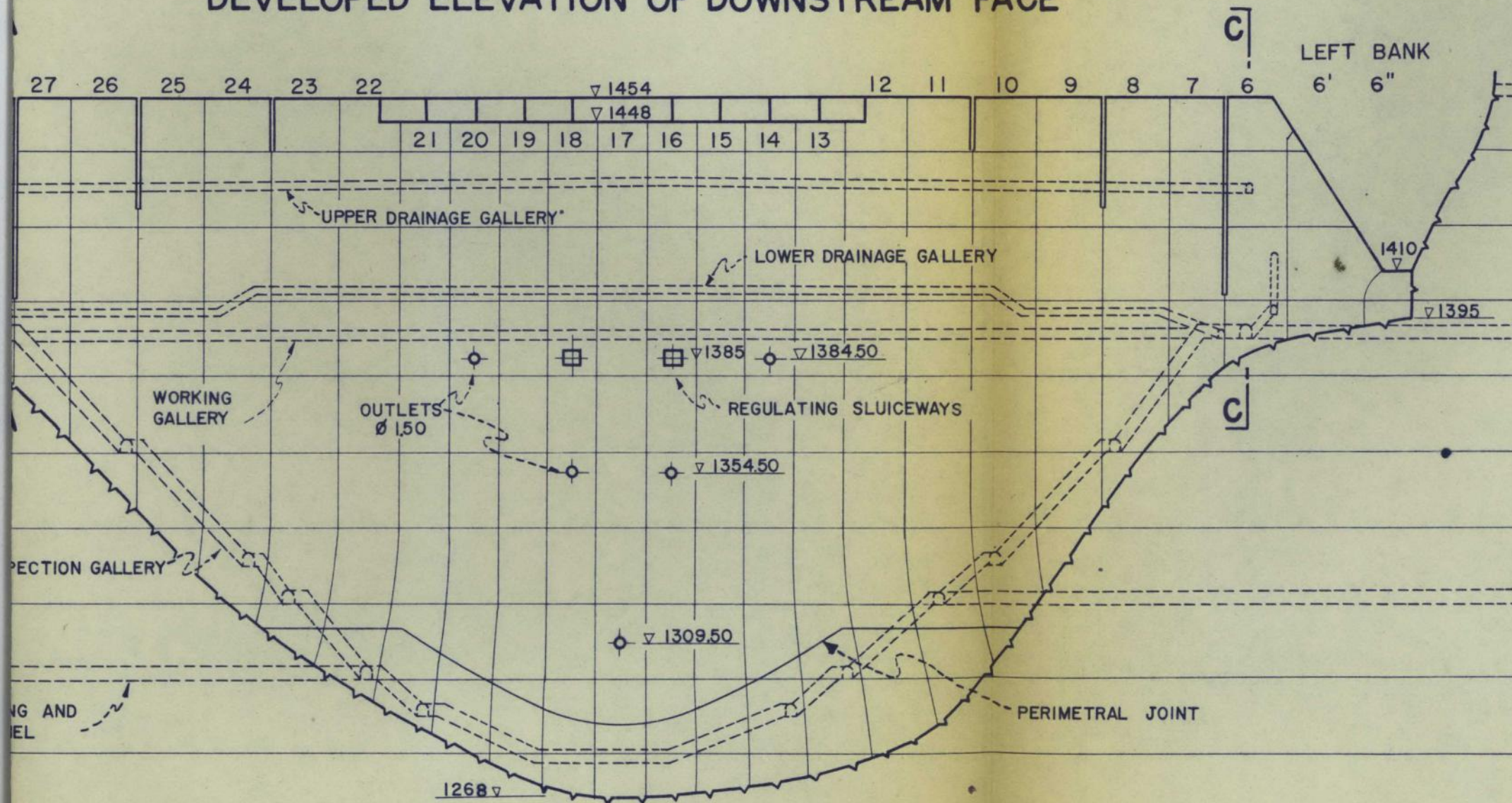


DAM CHARACTERISTICS

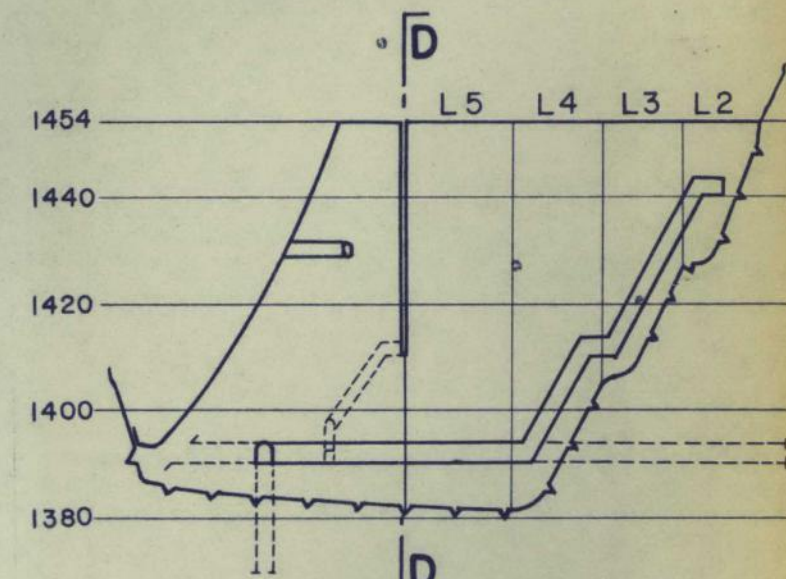
DESCRIPTION	UNIT	DOVE	RIGHT WING WALL	LEFT WING WALL	TOTAL
MAX HEIGHT	m	186	47	66	—
CREST LENGTH	m	367	56	69	—

EL. 1454			6.00	6.00	
BASE THICKNESS EL. 1268	m	39.90	—	—	—
EXTRADOS RADIUS EL. 1454	m	336.25	—	—	—
EXCAVATION VOLUME	m ³	1 308 000	10 000	30 000	1 348 000
CONCRETE VOLUME	m ³	1 450 000	25 000	83 000	1 558 000

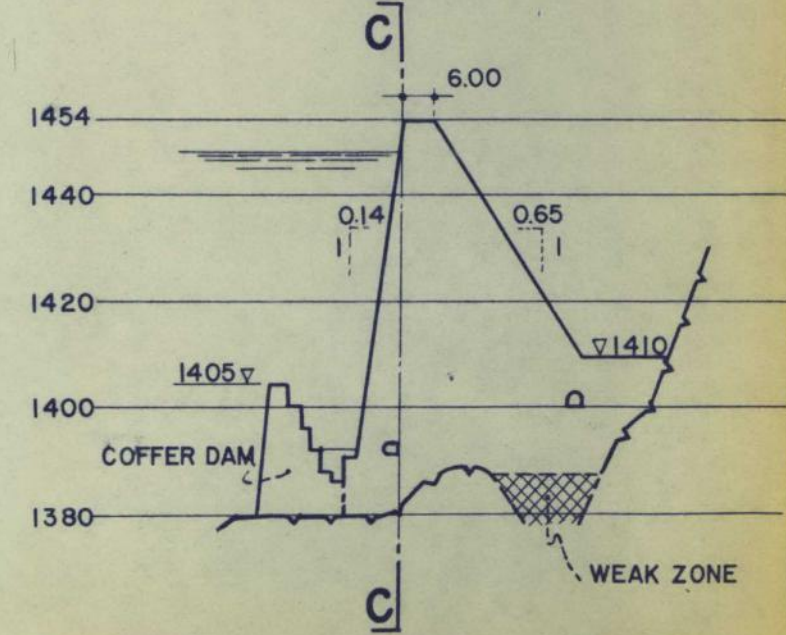
D O M E DEVELOPED ELEVATION OF DOWNSTREAM FACE



LEFT WING WALL SECTION C-C



SECTION D-D



ROUTING SLIP		Date
		July 10/64
NAME		ROOM NO.
Mr. Aldewereld		
Mr. Vogel		
Op. Files		
To Handle		Note and File
Appropriate Disposition		Note and Return
Approval		Prepare Reply
Comment		Per Our Conversation
Full Report		Recommendation
Information		Signature
Initial		Send On
REMARKS		
<p>This resolves the question as of now. The base on which the instrument was mounted moved with the slide and time will be required to get new measurements but we know that the ones in doubt are invalid. HST</p>		
From MARIO PICCAGLI		

JA-196

DOTT. ING. CLAUDIO MARCELLO

VIA VISCONTI DI MODRONE 18 . TEL. 780.392

MILANO

July 8, 1964

Mr. Piccagli
Chief, Public Utilities Division
Department of Technical Operation
International Bank for Reconstruction
and Development
1818 H Street N W
WASHINGTON D.C. 20433

*Kurobe
196JA*

T.O.D. CORRES.
ANS'D. BY _____
DATE _____

X

Dear Mr. Piccagli:

I duly received your kind letter of the 17th last.

In fact, I have met during a tour on the Clyde in Scotland in connection with the 8th Congress of the International Commission on Large Dams, Mr. Floor of the Bank and General Vogel with whom I have spoken of a certain concern which I felt when I saw the reports on deformations of the Kurobe dam, as I regularly receive them (quarterly, if I remember well).

My concern has been appeased, or at least relieved, by the information received from the Kansai themselves that a small landslide had damaged a theodolite used for taking measurements and therefore the results were not to be considered reliable. I have advised them that the measuring instruments should have been restored and measurements repeated to secure reliable data, considering the topmost importance of deflection measurements for the safety of the dam. I am waiting for news, and I shall not fail to keep you informed.

X I had the occasion in a casual meeting to mention this fact with Mr. Gicot who too was a member of the Commission, and perhaps he may have written although our ways are completely independent because Mr. Gicot is of the opinion to speak for the Commission, which of course has been dismissed, while I wish to express my advice on my own independent initiative and not involving the Commission. However, I shall let you know the results of the new measurements as soon as I get them;

I too hope to meet you again in a near future, since I expect to be able to come to the United States and to visit Washington in the autumn of this year or in the spring of next year.

With best personal regards

Yours sincerely

Claudio Marcello

1964 JUL 10 10:58
COMMUNICATIONS
GENERAL OFFICE
RECORDED

RECEIVED
GENERAL FILES
COMMUNICATIONS

Handwritten signature

1964 JUL 10 AM 10:29

YONLS ZYNCELEJL

With best belonng legzlda

of this year or in the spring of next year.
 re urge to come to the United States and to visit Washington in the summer
 I too hope to meet you again in a near future, since I expect to
 of the new arrangements as soon as I get them:
 and not including the Commission. However, I shall let you know the results
 discussed, while I want to express my advice on my own independent initiative
 is of the opinion to speak for the Commission, which of course has been
 have written strongly on this and completely independent because Mr. Grogg
 with Mr. Grogg who remains a member of the Commission, and perhaps he may
 I had the occasion in a casual meeting to mention this fact
 informed.
 safety of the plan. I am waiting for news, and I shall not fail to keep you
 date, considering the obvious importance of deflection arrangements for the
 should have been resolved and arrangements referred to settle matters
 be considered later. I have advised them that the existing instruments
 procedure need for taking arrangements and therefore the results were not to
 received from the various premises that a small number had discussed a
 my concern has been expressed, or at least referred, by the information
 the whole plan as I regularly receive them (directly, if I remember well).
 a certain concern which I felt when I saw the reports on deformations of
 Dams, Mr. Flood of the Bank and General Dodge with whom I have spoken of
 in connection with the 8th Congress of the International Commission on Large
 in fact, I have met during a tour on the Clyde in Scotland
 I fully received your kind letter of the 1st last.

Dear Mr. Grogg:

Handwritten initials

DATE
 VIS. D' BA
 L'O'D' COMRES

WASHINGTON D.C. 20543
 1818 H Street N W
 and Development
 International Bank for Reconstruction
 Department of Technical Operations
 Chief, Public Utilities Division
 Mr. Grogg

MIGVINO

JUL 8 ' 1964

Handwritten number

ROUTING SLIP

Date

July 15, 1964

OFFICE OF THE PRESIDENT

Name	Room No.
Mr. Cargill	
<i>Mr Street</i>	
<i>pls acknowledge</i>	

Action	Note and File
Approval	Note and Return
Comment	Prepare Reply
Full Report	Previous Papers
Information	Recommendation
Initial	Signature

Remarks

Does attached need a reply and, if so, will you have one prepared.

[Handwritten Signature]
G. D. Woods

From

SA-196 Argged
JUL 10 REC'D

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

July 7, 1964

Mr. George D. Woods
President
International Bank for Reconstruction
and Development
1818 H Street, N. W., Washington 25, D. C.
U. S. A.

Dear Mr. Woods:

We take pleasure in advising that the Kurobe No.4 Hydro Power Station, completed with the financial assistance of your Bank in June last year, has since been in good operating conditions and contributing to the favorable supply capability of the Company. We owe it much to the kind consideration of your Bank and wish to express our profound appreciation for your services and cooperation extended to us.

We also take the liberty of informing you that we have decided the construction of the fourth unit for Himeji No.2 Thermal Power Station, a supercritical steam power generation unit with a capacity of 450 MW to be imported from Westinghouse Electric International Co. of the United States and partly financed by the Export-Import Bank of Washington. This addition is to meet the power demand in this company's area which continues ever to go upwards keeping pace with the development of the Japanese economy.

Final purchase contract for equipment and services and the loan agreement were entered into on July 1, 1964, as outlined on the attached sheet.

Hoping for your further and kind assistance and cooperation, we remain.

With my personal best regards.

Sincerely yours,

Yoshishige Ashihara
Yoshishige Ashihara
Director & President

acsb July 30

JUL 10 1964

THE KANSAI ELECTRIC POWER CO. LTD.

(KANSAI DENKIYU KAWANISHI KAISHA)
2 MARUICHIYAMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
KANSAIPOWER OSAKA

July 7, 1964

Mr. George D. Woods
President
International Bank for Reconstruction
and Development
1818 H Street, N.W., Washington 25, D.C.
U.S.A.

Dear Mr. Woods:

We take pleasure in advising that the Kyoto No. 4 Hydro Power Station, completed with the financial assistance of your bank in June last year, has since been in good operating condition and contributing to the favorable energy capability of the Company. We are most grateful for the kind consideration of your bank and wish to express our profound appreciation for your services and cooperation extended to us.


We also take the liberty of informing you that we have designed the construction of the fourth unit for Himeji No. 5 Thermal Power Station, a 100,000 kilowatt steam power generation unit with a capacity of 450 MW to be imported from Westinghouse Electric International Co. of the United States and partly financed by the Export-Import Bank of Washington. This addition is to meet the power demand in this country, which continues ever to go upwards keeping pace with the development of the Japanese economy.

Final purchase contract for equipment and services and the loan agreement were entered into on July 1, 1964, as outlined on the attached sheet.

Hoping for your further and kind assistance and cooperation, we remain,

With my personal best regards,

Sincerely yours,


Yoshitaka Ashihara
Director & President

1964 JUL 10 AM 8:27

RECEIVED
GENERAL FILES
COMMUNICATIONS

Outline of Agreements

1. Equipment purchased: one 450 MW supercritical steam power generation unit

2. Purchase price:	Contract price	\$23,576,000
	Freight & Insurance	\$ 1,500,000
	Total	\$25,076,000

3. Loan:

From Westinghouse	\$ 3,536,400, 15 per cent of contract price
From Ex-Im Bank	\$19,182,000, 75 per cent of contract price plus freight & insurance
Total	\$22,718,400

\$2,357,600, or 10 per cent of the contract price is the down payment payable by this company.

4. Interest rate: 5.5 per cent per annum both

5. Reimbursement: 30 equal installments semi-annually on and from April 15, 1968

6. Guarantor: The Japan Development Bank

July 7, 1964

Mr. Eiji Matsumoto
Managing Director
The Kansai Electric Power Company Inc.
5 Nakanoshima 3-Chome, Kita-ku
Osaka, Japan

Re: Loan 196-JA

Dear Mr. Matsumoto:

I am attaching copies of letters exchanged with two of the members of the Board who reviewed the problems of the Kurobe Dam. I believe these letters are self-explanatory. It appears that one or more of the members of the Board consider that it would be desirable at this time for them to make a review of the problem of the Kurobe Dam abutments.

Needless to say, if the consultants of the Board were to confirm this view and to indicate the reason for their concern, the Bank would indeed like to allow them an opportunity for the suggested meeting. I thought it would be appropriate at this time to inform you of this. I would be grateful for any views you might wish to express on this subject and I would, of course, write to you again when I have replies from Mr. Marcello and Mr. Gicot.

With warm personal regards.

Sincerely yours,

Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations

Attachments

cc: Mr. Aldewereld
Gen. Vogel

July 6, 1964

Mr. Henri Gicot
Consulting Engineer
Route Fort St. Jacques 25
Fribourg, Switzerland

Dear Mr. Gicot:

I have your letter dated June 22, 1964, addressed to Mr. Finne on the subject of Kurobe IV Dam.

It is a pleasure to hear from you again and I should like to address myself to the two questions you seem to raise in your letter.

The first question appears to be a procedural one - that is, whether, once the Bank has asked a Board of Consultants to review a problem, it should be considered that this is a continuing assignment until the Bank formally discharges the Board. I do not think we have ever considered this problem in such a formal manner. The Bank would consider that the question remains open at least until the recommendations made by the Board are fully accepted and their implementation is undertaken. The Bank would expect to take the initiative in proposing further meetings of the Board if it felt that these were needed; it would also welcome the suggestions of the consultants on the Board regarding the need of any review. I do not think that we have ever formally dismissed a Board but there would be no difficulty in adopting a procedure whereby, at the appropriate time, the Bank would formally notify its consultants that the purpose of their engagement has been discharged, if you would consider this to be helpful or desirable.

The second question concerns the specific case of Kurobe. The Board made a number of recommendations concerning the gradual filling of the reservoir and the diligent recording of specific observations on behaviour of the Dam. According to the information we have been receiving from the Kansai Electric Power Company, these recommendations have been followed and the results of the measurements have been sent to us as well as to the members of the Board. These reports have indicated that until now, while the program of abutment treatment has not been completed, things have been progressing approximately as expected. If, however, in examining these reports you had found, or were to find in the future, any reason for concern which in your opinion would justify a review by the Board, I would be most grateful if you would call the problem to the attention of the Bank.

ack Aug 15

Mr. Henri Gicot

- 2 -

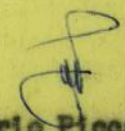
July 6, 1964

You may be interested in knowing that Mr. Marcello recently discussed questions relating to the Kurobe Dam with Gen. Vogel, and I have been expecting a letter from Mr. Marcello on this subject. I am attaching for your information copy of a letter which I have sent Mr. Marcello recently.

Finally, it is not clear whether the Kurobe Dam Model Report, which you had not received in 1962, has been made available to you since then. If this is the case, I shall be very happy to arrange for a copy to be sent to you.

With best regards.

Sincerely yours,


Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations

Attachment

Copies to: Messrs. Hammond, Falconnier, Marcello (Mr. John J. Hammond, 630 Forest St., Denver 20)
Mr. Matsumoto
Mr. Alfred Falconnier,
Mr. Aldewereld 24 Avenue Rive, Nyon, Switz.
Gen. Vogel Mr. Claudio Marcello,
Via Visconti di Modrone 18,
Milano, Italy)

MP:bli
IBRD (196-JA)

HENRI GICOT

INGÉNIEUR CONSEIL
A. S. I. C. & S. I. A.

FRIBOURG (Suisse)

Route Fort St-Jacques 25
Téléphone (037) 2 36 69
Chèques postaux IIa 808

Fribourg, June 22, 1964

International Bank for Reconstruction
and Development

Mr. Christian FINNE

Assistant Chief, Public Utilities
Division
Department of Technical Operations

WASHINGTON D.C.

1818 H Street, N.W.

Recommanded

Subject : KUROBE IV Dam, Japan

T.O.D. CORRES.
ANS'D. BY <i>Mano Pricceff</i>
DATE <i>July 6/64</i>

Dear Mr. Finne,

In October 1962, as I was in Japan for another business, the Bank asked me to visit the site of the Kurobé arch dam, because it was concerned about the intention of Kansai of raising the water level of the reservoir up to El. 1415 at the end of November 1962, in spite of the delay of the remedial works.

This question was subject of my letter of October 29, 1962, addressed to Mr. Gail A. Hathaway, followed by my report of November 8, 1962, to the Bank, as well by the comments of the four others members of the International Board.

Since then, the Board did not get from the Bank further directions concerning the future development at the Kurobé. We also did not receive the Kurobé Dam Model Report "Testing the stability of the foundation rock" mentioned in the letter of August 8, 1962, addressed by Mr. Gail A. Hathaway to Electroconsult.

However, the members of the Board receive periodically from Kansai progress reports and measuring results of the dam. I did examine these papers in order to satisfy my personal interest, but as chairman of the Board, I should make clear the present situation of the Board towards the Bank.

If the mission entrusted in 1960 to the Board by the Bank is considered accomplished, so wants the Board to be

RECEIVED

HENRI GICOT
 INGENIEUR CONSEIL
 A.S.I.C. & S.I.A.
 FRIBOURG (Suisse)
 Route For 2e-jacques 27
 Telephone (077) 26 60
 Cédex postale H 808

Fribourg, June 22, 1964

International Bank for Reconstruction
 and Development
 Mr. Christian FINNE
 Assistant Chief, Public Utilities
 Division
 Department of Technical Operations
WASHINGTON D.C.
 1818 H Street, N.W.



Recommended

Subject: KUROBE IV Dam, Japan

T.O.D. CORRES.
 AND D. BY *M. Finne*
 DATE *July 1964*

Dear Mr. Finne,

In October 1962, as I was in Japan for another business, the Bank asked me to visit the site of the Kurobe arch dam, because it was concerned about the intention of Kansai of raising the water level of the reservoir up to E1.1415 at the end of November 1962, in spite of the delay of the remedial works.

This question was subject of my letter of October 29, 1962, addressed to Mr. Gail A. Hathaway, followed by my report of November 8, 1962, to the Bank, as well by the comments of the four others members of the International Board.

Since then, the Board did not get from the Bank further directions concerning the future development at the Kurobe. We also did not receive the Kurobe Dam Model Report "Testing the stability of the foundation rock" mentioned in the letter of August 8, 1962, addressed by Mr. Gail A. Hathaway to Electro-consult.

However, the members of the Board receive periodically from Kansai progress reports and measuring results of the dam. I did examine these papers in order to satisfy my personal interest, but as chairman of the Board, I should make clear the present situation of the Board towards the Bank.

If the mission entrusted in 1960 to the Board by the Bank is considered accomplished, so wants the Board to be

RECEIVED
 GENERAL AFFAIRS
 COMMUNICATIONS
 JUN 29 AM 10 32
 1964

discharged.

If not, and is the Bank still expecting further recommendations concerning the dam and the filling of the reservoir, I would be very grateful to you to make it appear. In this case I am of the opinion that a meeting of the Board would be necessary, to discuss the results of the measurements made up to now.

Expecting your reply, I am

very truly yours

H. Gicot

H. Gicot
Consulting Engineers

Copy to Messrs. Hammond, Falconnier and Marcello

June 17, 1964

Mr. Claudio Marcello
Via Visconti di Modrone 18
Milano, Italy

Dear Mr. Marcello:

When Gen. Vogel returned from the Edinburgh Conference he told us about the conversations you had with him while there. We were particularly interested of course in hearing that you had expressed concern at the status of the remedial work for the Kurobe Dam abutments.


Gen. Vogel reported that it was your intention shortly to write the Bank stating the reasons for your concern and suggesting that this in your opinion made it desirable to arrange for a further review of the problem by the Bank's Board of Consultants.

I am very thankful for the attention you are continuing to give this problem to which the Bank attached considerable importance. I am looking forward to the receipt of your letter. If this will confirm the suggestion for a board review, I believe that it would be useful if you would also comment on what in your opinion would be the suitable timing, location and scope of the review.

Quite aside from this matter, I hope in the not too distant future to have the pleasure of seeing you again.

With best personal regards,

Sincerely yours,


Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations

cc: Mess~~r~~Mr. Aldewereld
Gen. Vogel
Operational Files
Division File

JA-196

June 1, 1964

The Kansai Electric Power Co. Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Re: Loan No. 196 JA

Gentlemen:

✓ We acknowledge with thanks receipt of your letter dated
May 20, 1964 with which you enclosed two copies of Progress
Report No. 23 on the Kurobe IV Dam for the period ended
March 31, 1964.

✓
DOC #75

Very truly yours,

L. Gray Marshall
Public Utilities Division
Department of Technical Operations

bjb
IBRD

1964 JUN 2 2:22 PM -5

COMMUNICATIONS
GENERAL LINES
RECEIVED

44-176

June 1, 1964

The Kansai Electric Power Co., Inc.
2 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Re: Loan No. 196 JA

Gentlemen:

We acknowledge with thanks receipt of your letter dated
May 20, 1964 with which you enclosed two copies of Progress
Report No. 23 on the Kurobe IV Dam for the period ended

March 31, 1964.

Very truly yours,

J. Gray Marshall
Public Utilities Division
Department of Technical Operations

Doc # 12

1964 JUN -2 PM 5:55

RECEIVED
GENERAL FILES
COMMUNICATIONS

IBRD
p7b

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

May 20, 1964

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

Dear Mr. Piccagli:

We are forwarding to you under separate cover two copies of our Progress Report No. 23 on the Kurobe Dam, dated April 25, 1964.

Besides, a copy of the report will be forwarded directly to each member of the Bank's Board of Consultants as has been done in the past.

With our very best wishes for your further assistance and cooperations.

Very truly yours,

Eiji Matsumoto

Eiji Matsumoto
Managing Director

Doc #75

1964 MAY 21 AM 8:24

COMMUNICATIONS
GENERAL LINES
RECEIVED

Acknowledged
6/11/64
[Signature]

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

2 NAKAOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

"KANSAIPOWER OSAKA"
CABLE ADDRESS

May 20, 1964

Mr. Mario Piccazzi
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N.W.
Washington, D. C., U. S. A.

Doc # 72

Dear Mr. Piccazzi:

We are forwarding to you under separate cover two copies of
our Progress Report No. 23 on the Kurobe Dam, dated April 25, 1964.

Besides, a copy of the report will be forwarded directly to
each member of the Bank's Board of Consultants as has been done in
the past.

With our very best wishes for your further assistance and
cooperations.

Very truly yours,

Eiji Matsumoto
Eiji Matsumoto
Managing Director

1964 MAY 27 AM 8:54

RECEIVED
GENERAL FILES
COMMUNICATIONS

*Received
May 27 1964*

May 14, 1964

Mr. Yoshishige Ashihara
President and Director
The Kansai Electric Power Co. Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Dear Mr. Ashihara:

Thank you very much for your letter of May 6,
1964, addressed to Mr. Woods regarding the issuance of
new shares by your Company effective September 1964.
He is pleased to hear of the proposed issue. We note
that 40,368,690 shares will be sold to existing share-
holders and 9,010 shares will be offered for public
subscription.

Sincerely yours,

Michael L. Lejeune
Assistant Director
Department of Operations - Far East

cc: Messrs. Wishart
Piccagli
Casson
Webb

NRChakravarti:vcm
IBRD

NC

1964 MAY 12 11:11 AM

COMMUNICATIONS
GENERAL OFFICE
RECEIVED

251-AD

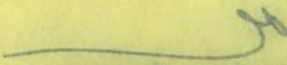
May 14, 1964

Mr. Yoshitake Ashihara
President and Director
The Kansai Electric Power Co. Inc.
2 Sakurabashi 3-Chome, Kita-Ku
Osaka, Japan

Dear Mr. Ashihara:

Thank you very much for your letter of May 6, 1964 addressed to Mr. Woods regarding the issuance of new shares by your company effective September 1964. He is pleased to hear of the proposed issue. We note that 10,388,000 shares will be sold to existing shareholders and 2,010 shares will be offered for public subscription.

Sincerely yours,


Michael L. Johnson
Assistant Director
Department of Operations - Far East

cc: Messrs. Wharff
Piercy
Gason
Webb

RECEIVED
MAY 15 1964

W

1964 MAY 15 AM 11:44

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GENERAL FILES
COMMUNICATIONS

FORM No. 89
(9-62)

INTERNATIONAL BANK FOR
RECONSTRUCTION AND DEVELOPMENT

INTERNATIONAL DEVELOPMENT
ASSOCIATION

INTERNATIONAL FINANCE
CORPORATION

ROUTING SLIP

Date

May 11, 1964

OFFICE OF THE PRESIDENT

Name

Room No.

Mr. Lejeune

Action

Note and File

Approval

Note and Return

Comment

Prepare Reply

Full Report

Previous Papers

Information

Recommendation

Initial

Signature

Remarks

Please handle attached from
Kansai Electric Power Company.



G. D. Woods

F

MAY 11 REC'D

JA-196
Logg

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU

OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

May 6, 1964

Mr. George D. Woods
President
The International Bank for
Reconstruction and Development
1818 H. Street, N. W.
Washington, D. C.,
U. S. A.

Dear Mr. Woods:

It is advised that the Board of Directors of our Company re-
solved at the regular meeting held on May 6, 1964, issuance of new shares
as per attached sheets.

Your kind attention for the above will be highly appreciated.

Very truly yours,

Yoshishige Ashihara

Yoshishige Ashihara
President and Director

MAY 11 1964

COMMUNICATIONS
GENERAL LINES
RECEIVED

MAY 11 REC'D

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHI KAISHA)

2 KARAKOSHIMA 3 CHOME, KITA-KU

OSAKA, JAPAN

"KANSAIPOWER OSAKA"
CABLE ADDRESS

May 6, 1964

Mr. George D. Woods
President
The International Bank for
Reconstruction and Development
1818 H. Street, N. W.
Washington, D. C.,
U. S. A.

Dear Mr. Woods:

It is advised that the Board of Directors of our Company re-
solved at the regular meeting held on May 6, 1964, issuance of new shares
as per attached sheets.
Your kind attention for the above will be highly appreciated.

Very truly yours,

Yoshihide Ashihara
Yoshihide Ashihara
President and Director

MAY 11 AM 9 47

RECEIVED
GENERAL FILES
COMMUNICATIONS

THE KANSAI ELECTRIC POWER Co., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

ATTACHED SHEETS

I. Matters Relating to Partial Transfer of Revaluation Surplus to Stated Capital and Issuance of New Shares due to above Transfer

(1) The sum of ¥4,036,869,000. being a part of the revaluation surplus shall be transferred to stated capital as of September 12, 1964.

(2) Accompanying the above transfer, new shares shall be issued as of the same date.

(a) Number of New Shares to be issued:

40,368,690 shares of non-bearer par value stock.

(b) Method of Allotment:

New shares to be allotted to the shareholders as of 3.00 p.m. on June 30 (Tuesday), 1964 at the rate of 3 new shares to 10 presently held shares.

Fractional share less than one share resulting from the above allotment shall be offered publicly en bloc and an aggregate of issue price in such public offering less subscription price shall be distributed among the shareholders receiving such fractional shares according to the number of holdings of such fractional shares.

(c) Issue Price:

¥500 per share.

(d) Subscription Price:

¥400 per share. (The amount of ¥100, being a part of issue price)

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

of ¥500, shall be applied by the amount transferred to the stated capital from revaluation surplus.)

(e) Warrant Money for Subscription:

¥400 per share, which shall be transferred and applied to Subscription Money for New Share as of payment date.

No interest shall accrue on Warrant Money for Subscription.

(f) Subscription Period:

From August 17 (Monday), 1964 through September 2 (Wednesday), 1964 (inclusive).

(g) Payment Date:

September 11 (Friday), 1964.

(h) Offering of the fractional shares and of shares not subscribed by the end of subscription period, and other matters concerning this issuance of new shares shall be determined by the board of directors at a later date.

(i) The offering of the new shares to be issued pursuant to the above items in this country and the United States of America is subject to effectiveness of registration necessary therefor under the laws and regulations of respective country.

II Matters relating to Issuance of New Shares by Public Offering

New shares shall be issued and offered publicly in this country as follows for adjustment of fraction in the amount of capital.

(a) Number of New Shares to be issued:

9,010 shares of non-bearer par value stock.

THE KANSAI ELECTRIC POWER Co., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

(b) Issue Price:

A price not less than par value.

(c) Payment Date:

September 11 (Friday), 1964.

(d) Method of Public Offering, Issue Price, and other matters concerning this issuance of new shares shall be determined by the board of directors at a later date.

(e) The offering of new shares to be issued pursuant to the above items is subject to effectiveness of registration under the laws and regulations concerned.

elc
electroconsult

JA-196

*did I answer
Matsuno to or
only dakeno? Routeni
ack. B.*

società per azioni
capitale lire 300 000 000
versate lire 120 000 000

consiglio di amministrazione
dr. ing. P. Giustiniani presidente
comm. rag. C. Chigione
dr. ing. A. Rossi

direzione
dr. ing. A. Vecellio
dr. ing. C. Berghinz
dr. A. Semenza
dr. ing. F. De Sanctis
dr. ing. T. Tommaselli

Milano
via Cavallotti 13
telefono 780 241
telegrammi Electroconsult Milano
telex 31398 Milelc

Mr. Mario PICCAGLI
Chief, Public Utilities Division
Department of Technical Operations
International Bank for Reconstruc-
tion and Development
1818 H Street, N. W.
WASHINGTON, D.C. 20433
U. S. A.

nostro *AR*/but/1600
vostro
oggetto Loan 196-JA
Kurobe IV Dam - Japan

April 2, 1964

*Mining on ref
see Doc #85*

Dear Mr. Piccagli,

We thank you for your letter of March 13, 1964 and are pleased to answer your questions on the situation of Kurobe IV dam project. As you have rightly assumed, we also have received Kansai's Progress Report n^o. 22, dated December 31, 1963 and confirm that our Mr. Bossi was at Kurobe site for two weeks during last December. His comments were summarized in our report KU-D-904 which we are sending you under separate cover.

You may see from our report that the serious problems encountered at present are cracks and movements occurring in the right bank foundation. So far, no definite interpretation has been made on the causes of such phenomena. The situation is being carefully followed directly by Kansai through site measurements and visual observations and indirectly by us, we being informed of said measurements.

The main safety measures we recommended to Kansai were:

- a) gradual lowering of water level from El. 1415 to El. 1400;
- b) suspension of the consolidation grouting in the faulted zones of the right abutment;

1984 APR - 2 11 10 52
RECEIVED

RECEIVED
GENERAL FILES
COMMUNICATIONS

- inspected the right apartment:
- b) suspension of the consolidation floating in the
1954 APR - 6 AM 10:29
- to ET. 1400:
- a) gradual lowering of water level from ET. 1412

The main safety measures we recommended to Kansas were:

ments.
and indirectly by us, we being informed of said measure-
Kansas through site measurements and visual observations.
The situation is being carefully followed directly by
Brazilian has been made on the causes of such phenomena.
in the right bank foundation. So far, no definite inter-
ferenced at present are cracks and movements occurring
you may see from our report that the serious problems

which we are sending you under separate cover.
His comments were summarized in our report KU-D-204
was at Kurobe site for two weeks during last December.
dated December 31, 1953 and confirm that our Mr. Bossi
we also have received Kansas's progress report no. 22,
of Kurobe IV dam project. As you have rightly assumed,
we pleased to answer your questions on the situation.
We thank you for your letter of March 13, 1954 and

Dear Mr. Piccaveri,

Handwritten signature
APR 2 1954
#82

Kurobe IV Dam - Japan

AL-1A

APR 1954

tele 31398 Mhelo
telegrammi Electrocopiani Milano
teletono 380 341
via Cavallotti 13
Milano
dir. ing. J. Tommasini
dir. ing. E. De Sanctis
dir. A. Somazzi
dir. ing. C. Bergiani
dir. ing. A. Vecchio
divisione
dir. ing. A. Rossi
comand. ing. C. Cipriani
dir. ing. E. Cristofolini presidente
consiglio di amministrazione
telefono nro 130090000
centrali nro 300000000
societa per azioni

U. S. A.
WASHINGTON, D.C. 20533
1818 H Street, N. W.
tion and Development
International Bank for Reconstruction-
Department of Technical Operations
Chief, Public Utilities Division
Mr. Mario PICCAVERI

Handwritten notes and signature

Electrocopiani
EJC

24-12

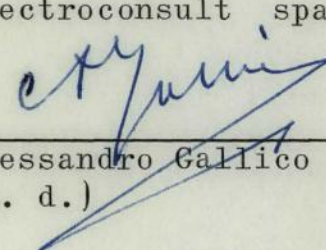
- c) installation of tie-rods in the affected area:
- d) additional program of drainage.

Measures a) and b) were accepted and already executed by Kansai; measures c) and d) have given rise to some objections which will be discussed at the site on the occasion of our inspection visit scheduled for next June.

Our team will probably consist of Messrs. Berghinz, Gallico, and Bossi who will be accompanied by Dr. Müller, who served on several occasions as the geo-mechanical expert for the Kurobe Dam. We shall be pleased to keep you informed of the progress of the situation.

Thanking you again for your kind attention, we remain

Yours very truly,
E L C
electroconsult spa



Alessandro Gallico
(p. d.)

Under separate cover:
as stated

ROUTING SLIP

Date

March 20 '64

OFFICE OF THE PRESIDENT

Name

Room No.

✓ Mr. Street

664

Action

Note and File

Approval

Note and Return

Comment

Prepare Reply

Full Report

Previous Papers

Information

Recommendation

Initial

Signature

Remarks

Mr. Woods approved cable to
Mr. Ashihara and it was sent out late
on March 20th.

F

M. Lenahan

JA-196

THE KANSAI ELECTRIC POWER CO., INC.

MAR 19 REC'D

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

March 17, 1964

Mr. George D. Woods
President
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington 25, D. C.
U. S. A.

Dear Mr. Woods:

I wish to advise that Mr. Shiro Ohtagaki, Chairman of the Board of Directors of this Company, passed away on March 16, at 2.15 a.m., and I shall preside over the Board of Directors from now on.

Sincerely hoping for your support and cooperation as ever.

Yours respectfully,

Yoshishige Ashihara
Yoshishige Ashihara
Director and President

1964 MAR 18 AM 3:33

COMMUNICATIONS
RECEIVED
MARCH 18 1964

MAR 19 1964

The Kansai Electric Power Co., Inc.

(KANSAI DENRYOKU KABUSHIKI KAISHA)
2 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAI POWER OSAKA"

March 17, 1964

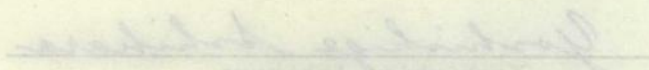
Mr. George D. Woods
President
International Bank for
Reconstruction and Development
1818 H Street, N.W.
Washington 25, D.C.

Dear Mr. Woods:

I wish to advise that Mr. Shiro Goto, Chairman of the
Board of Directors of this Company, passed away on March 15, at
2:15 a.m., and I shall preside over the Board of Directors from
now on.

Sincerely hoping for your expert and cooperation as ever.

Yours respectfully,


Yoshitaka Ishihara
Director and President

1964 MAR 19 PM 3:33

RECEIVED
GENERAL FILES
COMMUNICATIONS

March 13, 1964

Mr. Carlo Berghinz
Manager
Elc Electroconsult
Via Cavallotti 13
Milan, Italy

Re: Loan 196-JA

Doc # 73

Dear Mr. Berghinz:

We have received, with a covering letter dated March 4, 1964, from Kansai their report No.22 and attached drawings, dated December 31, 1963, on Kurobe Dam grouting.

I would assume that you have seen copy of it, particularly in view of the mention it makes that Elc had one of its Engineers reviewing this situation in Japan in December.

I would be pleased to have any comments you might wish to make in confidence on how you see the progress of this situation.

Cordially yours,

Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations

cc: End-use file

ask April 2

March 9, 1964

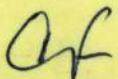
The Kansai Electric Power Co. Inc.
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Re: Loan No. 196 JA

Gentlemen:

Replying to your letter of February 29, 1964 for which we thank you, we are quite willing to wait until July for the Completion Report on the Kurobe Project. It is now our understanding that the quarterly progress reports will no longer be prepared but that you will prepare, in response to Mr. Piccagli's request, a report summarizing the present status of the work of consolidation and grouting of the dam's abutments, the reading of the instruments in the dam, and the decisions on the gradual increase of the storage level during the next two cycles. You will prepare and send us this report in the near future; also you will continue to send us quarterly reports on this work.

Yours very truly,



Christian Finne
Asst. Chief, Public Utilities Division
Department of Technical Operations

cc: Division File

MAR 10 11 01 AM

CORRESPONDENCE
GENERAL FILES

DISPATCHED

IGButcher:bjb
IBRD

7A.176

March 9, 1964

The Kansai Electric Power Co., Inc.
2 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Re: Loan No. 196 JA

Gentlemen:

Replying to your letter of February 29, 1964 for which we thank you, we are quite willing to wait until July for the Completion Report on the Kurobe Project. It is now our understanding that the quarterly progress reports will no longer be prepared but that you will prepare, in response to Mr. Piccaji's request, a report summarizing the present status of the work of consolidation and grouting of the dam's abutments, the reading of the instruments in the dam, and the decisions on the gradual increase of the storage level during the next two cycles. You will prepare and send us this report in the near future; also you will continue to send us quarterly reports on this work.

Yours very truly,

Christian Finne
Asst. Chief, Public Utilities Division
Department of Technical Operations

cc: Division File

MAR 10 11 49 AM 1964

GENERAL FILES
CORRESPONDENCE

DISPATCHED

IGBrtcher:djb
IBRD

March 5, 1964

Mr. Seizo Yoshimura
Executive Vice President
The Kansai Electric Power Co., Inc.
(Kansai Denryoku Kabushiki Kaisha)
5 Nakanoshima 3-Chome, Kita-Ku
Osaka, Japan

Dear Mr. Yoshimura:

Thank you very much for your letter of
February 26, 1964 addressed to Mr. Woods informing
us of the transfer of ¥666,150,000 from the revalua-
tion surplus to share capital of your Company for
distribution of new shares to your existing share-
holders.

Sincerely yours,

Gordon M. Street
Department of Operations - Far East

Cleared with & cc: Messrs. Webb
Finne
cc: Mr. Wishart

NRChakravarti:vcn
IBRD
nc

JA-196

THE KANSAI ELECTRIC POWER Co., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU

OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

March 4, 1964

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

Dear Mr. Piccagli:

Doc # 73

We are forwarding to you under separate cover two copies of our Progress Report No. 22 on the finishing works of Kurobe IV Dam, dated December 31, 1963.

Besides, a copy of the report will be forwarded directly to each member of the Bank's Board of Consultants as has been done in the past.

With our very best wishes for your further assistance and cooperations.

Very truly yours,

Eiji Matsumoto

Eiji Matsumoto
Managing Director

1964 MAR 15 AM 10:21

COMMUNICATIONS
GENERAL LINES
RECEIVED

Acknowledged
3/12/64
bit

7-1962

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

2 KAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

"KANSAIPOWER OSAKA"
CABLE ADDRESS

March 4, 1964

Mr. Mario Piccaffi
Chief, Public Utilities Division
Department of Technical Operations
International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

✓
KOC#73

Dear Mr. Piccaffi:

We are forwarding to you under separate cover two copies of
our Progress Report No. 22 on the finishing works of Kurobe IV Dam,
dated December 31, 1963.

Besides, a copy of the report will be forwarded directly to
each member of the Bank's Board of Consultants as has been done in
the past.

With our very best wishes for your further assistance and
cooperations.

Very truly yours,

Keiji Matsumoto

Keiji Matsumoto
Managing Director

1964 MAR 12 AM 10:57

RECEIVED
GENERAL FILES
COMMUNICATIONS

Robert M. ...
3/12/64
RM

JA-196

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

Mr. Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operation
International Bank for Reconstruction
and Development
1818 H Street, N. W.
Washington, D. C. 20433, U. S. A.

February 29, 1964

Re: 196JA

T.O.D. CORRES.
ANS'D. BY <i>h. J. Butcher</i>
DATE <i>3/9/64</i>

Dear Mr. Piccagli:

We received with thanks your letter dated January 31, 1964.

First of all, we are very sorry to know that you received our letter dated November 30, 1963 by surface mail, which might be done by mistake of Japanese side.

Speaking of the quarterly reporting, besides the Report by our Financing and Accounting Dept. directed to Mr. L. Gray Marshall, there is another report by technical Department directed to you entitled Kurobe IV Dam Progress Report in which the grouting of the dam's abutments, as well as the continued reading of the instruments in the dam and so on are described.

It has been continued until now and will be submitted to you by name of Eiji Matsumoto, Managing Director hereafter.

In regard to a Completion Report, we take it as a matter of course to submit it to you from our Financial & Accounting Department.

As you know very well, this project is an unprecedented work in its scale. So we expect that this Report will be completed during June, 1964. We would like to send it to you as soon as this Completion Report is done, so would you be kind enough to give some time.

It would be very helpful if you would kindly give your comments on our proposal dated November 30, 1963 and the above.

Mr. P. told him

Your cooperation will be appreciated.

Yours truly,

1224 WVB - 1 ON 2/23/64
Kunio Ito

Kunio Ito, Manager

FINANCING & ACCOUNTING DEPARTMENT
COMMUNICATIONS
GENEVEVE LIFE
RECEIVED

cc: Mr. L. Gray Marshall

THE KANSAI ELECTRIC POWER CO., INC.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

2 NAKANOSHIMA 3-CHOME, KITA-KU

OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

February 29, 1964

Mr. Mario Piccazzi
Chief, Public Utilities Division
Department of Technical Operation
International Bank for Reconstruction
and Development
1818 H Street, N. W.
Washington, D. C. 20433, U. S. A.

Re: 1961A

Dear Mr. Piccazzi:

T.O.D. CORRES.
AND'D BY *K. Marshall*
DATE *3/2/64*

We received with thanks your letter dated January 31, 1964.

First of all, we are very sorry to know that you received our letter dated November 30, 1963 by surface mail, which might be done by mistake of Japanese side.

Speaking of the quarterly reporting, besides the report by our Financing and Accounting Dept. directed to Mr. L. Gray Marshall, there is another report by technical Department directed to you entitled "Kurobe IV Dam Progress Report in which the granting of the dam's sub-ments, as well as the continued reading of the instruments in the dam and so on are described.

It has been continued until now and will be submitted to you by name of Eiji Matsumoto, Managing Director hereafter. In regard to a Completion Report, we take it as a matter of course to submit it to you from our Financial & Accounting Department.

As you know very well, this project is an unprecedented work in its scale. So we expect that this Report will be completed during June, 1964. We would like to send it to you as soon as this Completion Report is done, so would you be kind enough to give some time.

It would be very helpful if you would kindly give your comments on our proposal dated November 30, 1963 and the above.

Your cooperation will be appreciated.

Yours truly,

1964 MAR - 4 PM 3:35
RECEIVED
GENERAL FILES
COMMUNICATIONS
Financing & Accounting Department
Kunio Ito, Manager

cc: Mr. L. Gray Marshall

ROUTING SLIP

Date

March 2, 1964

OFFICE OF THE PRESIDENT

Name

Room No.

Mr. Knapp - for information

~~Mr. Lejeune~~ *W*

674

Mr Street. Please handle.

*If we need a reply
let's get it all at
once. all*

Action

Note and File

Approval

Note and Return

Comment

Prepare Reply

Full Report

Previous Papers

Information

Recommendation

Initial

Signature

Remarks Mr. Lejeune:

If action is required on part of the World Bank in approving this new share issue, may we leave it to you to take such action?

I shall be grateful for a spare copy of your reply for Mr. Woods's information.

G. C. Wishart
G. C. Wishart

*logged
JA-196*

THE KANSAI ELECTRIC POWER Co., Inc.

(KANSAI DENRYOKU KABUSHIKI KAISHA)

5 NAKANOSHIMA 3-CHOME, KITA-KU
OSAKA, JAPAN

CABLE ADDRESS
"KANSAIPOWER OSAKA"

MAR 2 REC'D

February 26, 1964

Mr. George D. Woods
President
The International Bank for
Reconstruction and Development
1818 H Street, N. W.
Washington, D. C., U. S. A.

ack has. S

Dear Mr. Woods:

It is advised that the Board of Directors of our Company re-
solved at the regular meeting held on February 26, 1964, issuance of
new shares due to transfer of revaluation surplus as per attached sheet.

Your kind attention for the above will be highly appreciated.

Very truly yours,

Seizo Yoshimura
Seizo Yoshimura
Executive Vice President

1964 NOV -5 AM 2:11

COMMUNICATIONS
GENERAL LINES
RECEIVED

The Kansai Electric Power Co. Inc.

(KANSAI DENRYOKU KAISHA)
2 NAKAHOHMA 3-CHOME, MIYAKI
OSAKA, JAPAN

CABLE ADDRESS
KANSAI POWER OSAKA

February 20, 1964

Mr. George D. Woods
President
The International Bank for
Reconstruction and Development
1818 H Street, N.W.
Washington, D.C., U.S.A.

Dear Mr. Woods:
It is advised that the Board of Directors of our Company re-
solved at the regular meeting held on February 20, 1964, in favor of
now shares due to transfer of development surplus as per attached sheet.
Your kind attention for the above will be highly appreciated.

Very truly yours,
[Signature]
Executive Vice President

1964 MAR -2 AM 9:44

RECEIVED
GENERAL FILES
COMMUNICATIONS

Attached Sheet

I. Matters Relating to Partial Transfer of Revaluation Surplus to Stated Capital and Issuance of New Shares due to above Transfer

- (1) The sum of ¥666,150,000, being a part of the revaluation surplus shall be transferred to stated capital as of April 1, 1964.
- (2) Accompanying the above transfer, new shares shall be issued as of the same date.

(a) Number of new shares to be issued:
1,332,300 shares of non-bearer par value stock.

(b) Method of allotment:

New shares to be allotted to the shareholders as of 3.00 p.m. on March 31 (Tuesday), 1964 at the rate of 0.01 new shares to 1 presently held share.

Fractional share less than one share resulting from the above allotment shall be sold en bloc and the proceeds therefrom shall be distributed among the shareholders receiving such fractional shares according to the number of holdings of such fractional shares.

(c) Issue Price:

¥500 per share. Provided, the amount transferred to the stated capital from the revaluation surplus shall be applied and no subscription money shall be collected.

(d) Date for Dividend Calculation:

April 1, 1964

(e) Other matters concerning this issuance of new shares shall be determined by the board of directors at a later date.

II. Purpose of Issuance of New Shares

In order to cope with ever growing power demand, the Company has been endeavoring to expand generating facilities and others, and needs huge amount of construction funds. Though the Company is trying to utilize own funds as much as possible, it should also rely on capital increase and other outside funds.

It will be important to enhance trust of shareholders in the Company's stock, raising the investment yield of shareholders, in order to carry out these capital increases.

And, as the balance of revaluation surplus is 89,140,300,000 yen, the company will distribute shares without collecting subscription money, as we did previously, to reward our shareholders.

January 31, 1964

The Kansai Electric Power Co. Inc.
5 Nakanoshima 3-Chome, Kita-ku
Osaka, Japan

Re: Loan 196-JA

Gentlemen:

✓ This is to acknowledge receipt of your letter dated November 30, 1964, accompanying your progress report for the period ending September 30, 1963 on the Kurobe Project, as well as of your letter dated January 22, 1964, enquiring whether we had received the previous correspondence. You may be interested in knowing that your November 30 letter with enclosures only arrived here on January 21 as it appeared to have been sent by surface mail.

Your proposal that this be considered the final report on the project has been noted. While I have no objection to your proposal that formal quarterly reporting as it has been practiced until now be discontinued, I feel it will be necessary for us to continue receiving quarterly reports on the work of consolidation and grouting of the dam's abutments, as well as on the continued reading of the instruments in the dam and the subsequent decisions on the gradual increase of the storage level during the next two cycles.

It would be useful in this respect if you would prepare in the near future a report summarizing the present status of this problem. This could be the basis for comparison when receiving subsequent brief reports on this matter.

I trust you will agree with this proposal but if you have any comments they will be welcome. I should like to call your attention to the fact that it is the Bank's practice to ask for a Completion Report to be submitted when a project is completed and its construction account is closed. This report should consist of a description of the project as it was actually built as well as of a statement of the final cost prepared on the basis of the same breakdown as was

The Kansai Electric Power Co.

- 2 -

January 31, 1964

used in progress reports. I feel that in view of the remaining work on the abutments, it may be necessary to wait a little longer before this can be done, but I should like to invite your comments on this also.

Sincerely yours,



Mario Piccagli
Chief, Public Utilities Division
Department of Technical Operations

Copy to: Mr. Y. End
Japan Development Bank
Washington, D.C.

CC: Mr.G.Street
Op.Files -w/inc.1/22/64
inc.11/30/63 w/End-use

Mr. Butcher
Mr Spottewood