

CONFORMED COPY

LOAN NUMBER 2833 CH

(Alto Jahuel-Polpaico Transmission Project)

between

INTERNATIONAL BANK FOR RECONSTRUCTION
AND DEVELOPMENT

and

EMPRESA NACIONAL DE ELECTRICIDAD S.A.

Dated December 16, 1987

LOAN NUMBER 2833 CH

LOAN AGREEMENT

AGREEMENT, dated December 16, 1987 between INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT (the Bank), and EMPRESA NACIONAL DE ELECTRICIDAD S.A. (the Borrower).

WHEREAS (A) The Republic of Chile (the Guarantor) and the Borrower, having been satisfied as to the feasibility and priority of the Project described in Schedule 2 to this Agreement, have requested the Bank to assist in the financing of the Project;

(B) by an agreement (the Guarantee Agreement) of even date herewith between the Guarantor and the Bank, the Guarantor has agreed to guarantee the obligations of the Borrower in respect of the Loan and to undertake such other obligations as set forth in the Guarantee Agreement; and

WHEREAS the Bank has agreed, on the basis, inter alia, of the foregoing, to extend the Loan to the Borrower upon the terms and conditions set forth in this Agreement;

NOW THEREFORE the parties hereto hereby agree as follows:

ARTICLE I

General Conditions; Definitions

Section 1.01. The "General Conditions Applicable to Loan and Guarantee Agreements" of the Bank, dated January 1, 1985, with the last sentence of Section 3.02 deleted (the General Conditions) constitute an integral part of this Agreement.

Section 1.02. Unless the context otherwise requires, the several terms defined in the General Conditions and in the Preamble to this Agreement have the respective meanings therein set forth and the following additional terms have the following meanings:

(a) "Special Account" means the account referred to in Section 2.02 (b) of this Agreement;

(b) "Legislation" means the Guarantor's Decreto con Fuerza de Ley No. 1, dated September 13, 1982, as amended up to the date of this Agreement, and any other legislation of the Guarantor including, without limitation, constitutional provisions, laws, legislative decrees, decree-laws, supreme decrees (reglamentos), and any other legal provision of a similar nature, which regulates the pricing of electricity in the Guarantor's territory; and

(c) "By-laws" means the by-laws of the Borrower approved on April 29, 1986, as amended to the date of this Agreement.

ARTICLE II

The Loan

Section 2.01. The Bank agrees to lend to the Borrower, on the terms and conditions set forth or referred to in the Loan Agreement, an amount in various currencies equivalent to twenty one million five hundred thousand dollars (\$21,500,000).

Section 2.02. (a) The amount of the Loan may be withdrawn from the Loan Account in accordance with the provisions of Schedule 1 to this Agreement for expenditures made (or, if the Bank shall so agree, to be made) in respect of the reasonable cost of goods and services required for the Project described in Schedule 2 to this Agreement and to be financed out of the proceeds of the Loan.

(b) The Borrower shall, for the purposes of the Project, open and maintain in a bank acceptable to the Bank a special account in dollars on terms and conditions satisfactory to the Bank. Deposits into, and payments out of, the Special Account shall be made in accordance with the provisions of Schedule 5 to this Agreement.

Section 2.03. The Closing Date shall be June 30, 1994 or such later date as the Bank shall establish. The Bank shall promptly notify the Borrower and the Guarantor of such later date.

Section 2.04. The Borrower shall pay to the Bank a commitment charge at the rate of three-fourths of one per cent ($3/4$ of 1%) per annum on the principal amount of the Loan not withdrawn from time to time.

Section 2.05. (a) The Borrower shall pay interest on the principal amount of the Loan withdrawn and outstanding from time to time at a rate per annum for each Interest Period equal to one-half of one percent per annum above the Cost of Qualified Borrowings for the last Semester ending prior to the commencement of such Interest Period.

(b) As soon as practicable after the end of each Semester, the Bank shall notify the Guarantor and the Borrower of the Cost of Qualified Borrowings for such Semester.

(c) For purposes of this Section:

(i) "Interest Period" means the six-month period commencing on each date specified in Section 2.06 of this Agreement,

including the Interest Period in which this Agreement is signed.

(ii) "Cost of Qualified Borrowings" means the cost of the outstanding borrowings of the Bank drawn down after June 30, 1982, expressed as a percentage per annum, as reasonably determined by the Bank.

(iii) "Semester" means the first six months or the second six months of a calendar year.

Section 2.06. Interest and other charges shall be payable semiannually on March 1 and September 1 in each year.

Section 2.07. The Borrower shall repay the principal amount of the Loan in accordance with the amortization schedule set forth in Schedule 3 to this Agreement.

ARTICLE III

Execution of the Project

Section 3.01. The Borrower declares its commitment to the objectives of the Project as set forth in Schedule 2 to this Agreement, and to this end, shall carry out the Project with due diligence and efficiency and in conformity with appropriate administrative, financial, engineering, and public utilities and environmental practices, and shall provide, promptly as needed, the funds, facilities, services and other resources required for the Project.

Section 3.02. Except as the Bank shall otherwise agree, procurement of the goods, works and consultants' services required for the Project and to be financed out of the proceeds of the Loan shall be governed by the provisions of Schedule 4 to this Agreement.

ARTICLE IV

Management and Operations of the Borrower

Section 4.01. The Borrower shall carry on its operations and conduct its affairs in accordance with sound administrative, financial, and public utilities practices, under the supervision of qualified and experienced management assisted by competent staff in adequate numbers.

Section 4.02. The Borrower shall at all times operate and maintain its plants, machinery, equipment and other property, and from time to time, promptly as needed, make all necessary repairs and renewals thereof, all in accordance with sound engineering, financial and public utilities practices.

Section 4.03. The Borrower shall take out and maintain with responsible insurers, or make other provisions satisfactory to the Bank for, insurance against such risks and in such amounts as shall be consistent with appropriate practice.

ARTICLE V

Financial Covenants

Section 5.01. (a) The Borrower shall maintain records and accounts adequate to reflect in accordance with sound accounting practices its operations and financial condition, including separate records and accounts reflecting the resources and expenditures for the Project.

(b) The Borrower shall:

(i) have its records, accounts and financial statements (balance sheets, statements of income and expenses and related statements) and the records and accounts for the Special Account for each fiscal year audited, in accordance with appropriate auditing principles consistently applied, by independent auditors acceptable to the Bank;

(ii) furnish to the Bank as soon as available, but in any case not later than five months after the end of each such year: (A) certified copies of its financial statements for such year as so audited and (B) the report of such audit by said auditors, of such scope and in such detail as the Bank shall have reasonably requested; and

(iii) furnish to the Bank such other information concerning said records, accounts and financial statements, as well as the audit thereof, as the Bank shall from time to time reasonably request.

(c) For all expenditures with respect to which withdrawals from the Loan Account were made on the basis of statements of expenditure, the Borrower shall:

(i) maintain, in accordance with paragraph (a) of this Section, records and accounts reflecting such expenditures;

(ii) retain, until at least one year after the Bank has received the audit report for the fiscal year in which the last withdrawal from the Loan Account was made, all records (contracts, orders, invoices, bills, receipts and other documents) evidencing such expenditures;

(iii) enable the Bank's representatives to examine such records; and

(iv) ensure that such records and accounts are included in the annual audit referred to in paragraph (b) of this Section and that the report of such audit contains a separate opinion by said auditors as to whether the statements of expenditure submitted during such fiscal year, together with the procedures and internal controls involved in their preparation, can be relied upon to support the related withdrawals.

Section 5.02. (a) Except as the Bank shall otherwise agree, the Borrower shall maintain at all times a ratio of debt to equity not greater than 60 to 40.

(b) For purposes of this Section:

(i) The term "debt" means any indebtedness of the Borrower maturing by its terms more than one year after the date on which it is originally incurred.

(ii) Debt shall be deemed to be incurred: (A) under a loan contract or agreement or other instrument providing for such debt or for the modification of its terms of payment on the date of such contract, agreement or instrument; and (B) under a guarantee agreement, on the date the agreement providing for such guarantee has been entered into.

(iii) The term "equity" means the sum of the total unimpaired, paid-up capital, retained earnings and reserves of the Borrower not allocated to cover specific liabilities.

(iv) Whenever for the purposes of this Section it shall be necessary to value, in terms of the currency of the Guarantor, debt payable in another currency, such valuation shall be made on the basis of the prevailing lawful rate of exchange at which such other currency is, at the time of such valuation, obtainable for the purposes of servicing such debt, or in the absence of such rate, on the basis of a rate of exchange acceptable to the Bank.

Section 5.03. (a) Except as the Bank shall otherwise agree, the Borrower shall not incur any debt, unless the net revenues of the Borrower for the fiscal year immediately preceding the date of such incurrence or for a later twelve-month period ended prior to the date of such incurrence, whichever is the greater, shall be at least 1.3 times the estimated maximum debt service requirements of the Borrower for

the immediately following fiscal year on all debt of the Borrower, including the debt to be incurred.

(b) For the purposes of this Section:

(i) The term "debt" means any indebtedness of the Borrower maturing by its terms more than one year after the date on which it is originally incurred.

(ii) Debt shall be deemed to be incurred: (A) under a loan contract or agreement or other instrument providing for such debt or for the modification of its terms of payment on the date of such contract, agreement or instrument; and (B) under a guarantee agreement, on the date the agreement providing for such guarantee has been entered into.

(iii) The term "net revenues" means the difference between:

(A) the sum of revenues from all sources related to operations adjusted to take account of the Borrower's rates in effect at the time of the incurrence of debt even though they were not in effect during the twelve-month period to which such revenues relate, the amount represented by the sale of assets and net non-operating income; and

(B) the sum of: (i) all expenses related to operations including administration, adequate maintenance, taxes and payments in lieu of taxes, but excluding provision for depreciation, other non-cash operating charges and interest and other charges on debt; and (ii) any dividend payment, or payment to any shareholder for the repurchase or redemption of shares of stock, or any other payment to any shareholder which would result in a reduction of the Borrower's equity.

(iv) The term "net non-operating income" means the difference between:

(A) revenues from all sources other than those related to operations; and

(B) expenses, including taxes and payments in lieu of taxes, incurred in the generation of revenues in (A) above.

(v) The term "debt service requirements" means the aggregate amount of repayments (including sinking fund payments, if any) of, and interest and other charges on, debt.

(vi) The term "equity" means the sum of the total unimpaired paid-up capital, retained earnings and reserves of the Borrower not allocated to cover specific liabilities.

(vii) Whenever, for the purposes of this Section, it shall be necessary to value, in terms of the currency of the Guarantor, debt payable in another currency, such valuation shall be made on the basis of the prevailing lawful rate of exchange at which such other currency is, at the time of such valuation, obtainable for the purposes of servicing such debt, or in the absence of such rate, on the basis of a rate of exchange acceptable to the Bank.

ARTICLE VI

Remedies of the Bank

Section 6.01. Pursuant to Section 6.02 (k) of the General Conditions, the following additional events are specified:

(a) the Legislation shall have been amended, suspended, abrogated, repealed, waived or otherwise modified in such a way which would, in the opinion of the Bank,

materially and adversely affect the mechanisms and methods for the determination of electricity prices to be charged by electric power utilities in the Guarantor's territory, including PEHUENCHE;

(b) the shareholders of the Borrower or any authority having jurisdiction shall have taken any action for the dissolution or disestablishment of the Borrower or for the suspension of its operations; and

(c) the By-laws shall have been amended or otherwise modified so as to materially and adversely affect the operations of the Borrower or its ability to perform any of its obligations under this Agreement.

Section 6.02. Pursuant to Section 7.01 (h) of the General Conditions, the following additional event is specified, namely, that any of the events specified in Section 6.01 of this Agreement shall occur.

ARTICLE VII

Termination

Section 7.01. The date March 15, 1988 is hereby specified for the purposes of Section 12.04 of the General Conditions.

ARTICLE VIII

Representative of the Borrower; Addresses

Section 8.01. The General Manager of the Borrower is designated as representative of the Borrower for the purposes of Section 11.03 of the General Conditions.

Section 8.02. The following addresses are specified for the purposes of Section 11.01 of the General Conditions:

For the Bank:

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

Cable address:

INTBAFRAD
Washington, D.C.

Telex:

440098 (ITT)
248423 (RCA) or
64145 (WUI)

For the Borrower:

Empresa Nacional de Electricidad S.A.
Casilla 1392
Santiago, Chile

Telex:

240491-NDSA-CL

IN WITNESS WHEREOF, the parties hereto, acting through their duly authorized representatives, have caused this Agreement to be signed in their respective names in the District of Columbia, United States of America, as of the day and year first above written.

INTERNATIONAL BANK FOR
RECONSTRUCTION AND DEVELOPMENT

By /s/ S. Shahid Husain

Regional Vice President
Latin America and the Caribbean

EMPRESA NACIONAL DE ELECTRICIDAD S.A.

By /s/ Agustin Lein

Authorized Representative

SCHEDULE 1

Withdrawal of the Proceeds of the Loan

1. The table below sets forth the Categories of items to be financed out of the proceeds of the Loan, the allocation of the amounts of the Loan to each Category and the percentage of expenditures for items so to be financed in each Category:

Category	Amount of the Loan Allocated (Expressed in Dollar Equivalent)	% of Expenditures to be Financed
(1) Civil Works	2,100,000	75%
(2) Goods	18,800,000	75%
(3) Fellowships abroad and equipment under Part B of the Project	600,000	100% of foreign expenditures
TOTAL	21,500,000	

2. For the purposes of this Schedule, the term "foreign expenditures" means expenditures in the currency of any country other than that of the Guarantor for goods or services supplied from the territory of any country other than that of the Guarantor.

3. Notwithstanding the provisions of paragraph 1 above, no withdrawals shall be made in respect of payments made for expenditures prior to the date of this Agreement.

SCHEDULE 2

Description of the Project

The objective of the Project is to expand the power transmission capacity in the country in order to transmit additional electric power generated in the South region to consumer centers in the city of Santiago and in the North region.

The Project consists of the following parts, subject to such modifications thereof as the Bank and the Borrower may agree upon from time to time to achieve such objectives:

Part A:

(i) Construction of a 500 kV power transmission line of about 63 km from the area of Polpaico to the area of Rodeo;

(ii) construction of a 220 kV power transmission line of about 17 km from the

area of Rodeo to the area of Alto-Jahuel; and

(iii) construction of a 220 kV switching station at Polpaico and expansion of the following 220 kV substations: San Isidro, Alto Jahuel and Colbun.

Part B:

(i) Training of about 50 of the Borrower's professional staff, including about 135 man-months of fellowships and courses abroad and in local universities, and in-house seminars; and

(ii) acquisition of micro-computers and software.

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The Project is expected to be completed by December 31, 1992.

SCHEDULE 3

Amortization Schedule

Date Payment Due	Payment of Principal (expressed in dollars)*
On each March 1 and September 1	
beginning March 1, 1992 through March 1, 2004	825,000
On September 1, 2004	875,000

* The figures in this column represent dollar equivalents determined as of the respective dates of withdrawal. See General Conditions, Sections 3.04 and 4.03.

Premiums on Prepayment

The following premiums are specified for the purposes of Section 3.04 (b) of the General Conditions:

Time of Prepayment	Premium
	The interest rate (expressed as a percentage per annum) applicable to the balance outstanding on the Loan on the day of prepayment multiplied by:
Not more than three years before maturity	.18
More than three years but	.35

not more than six years before maturity	
More than six years but not more than 11 years before maturity	.65
More than 11 years but not more than 15 years before maturity	.88
More than 15 years before maturity	1.00

SCHEDULE 4

Procurement and Consultants' Services

Section I. Procurement of Goods and Works

Part A: International Competitive Bidding

Except as provided in Part C hereof, goods and works shall be procured under contracts awarded in accordance with procedures consistent with those set forth in Sections I and II of the "Guidelines for Procurement under IBRD Loans and IDA Credits" published by the Bank in May 1985 (the Guidelines).

Part B: Preference for Domestic Manufacturers

In the procurement of goods in accordance with the procedures described in Part A hereof, goods manufactured in Chile may be granted a margin of preference in accordance with, and subject to, the provisions of paragraphs 2.55 and 2.56 of the Guidelines and paragraphs 1 through 4 of Appendix 2 thereto.

Part C: Other Procurement Procedures

Items estimated to cost less than the equivalent of \$200,000 in the aggregate may be procured under contracts awarded on the basis of comparison of price quotations solicited from a list of at least three suppliers eligible under the Guidelines, in accordance with procedures acceptable to the Bank.

Part D: Review by the Bank of Procurement Decisions

1. Review of invitations to bid and of proposed awards and final contracts:

(a) With respect to all contracts, the procedures set forth in paragraphs 2 and 4 of Appendix 1 to the Guidelines shall apply. Where payments for such contract are to be made out of the Special Account, such procedures shall be modified to ensure that the two conformed copies of the contract required to be furnished to the Bank pursuant to said paragraph 2 (d) shall be furnished to the Bank prior to the making of the first payment out of the Special Account in respect of such contract.

(b) The provisions of the preceding subparagraph (a) shall not apply to contracts on account of which the Bank has authorized withdrawals from the Loan Account on the basis of statements of expenditure. Such contracts shall be retained in accordance with Section 5.01 (c) (ii) of this Agreement.

2. The figure of 10% is hereby specified for purposes of paragraph 4 of Appendix 1 to the Guidelines.

Section II. Employment of Consultants

In order to assist the Borrower in carrying out the Project, the Borrower shall, if and when required, employ consultants whose qualifications, experience and terms and conditions of employment shall be satisfactory to the Bank. Such consultants shall be selected in accordance with principles and procedures satisfactory to the Bank on the basis of the "Guidelines for the Use of Consultants by World Bank Borrowers and by

the World Bank as Executing Agency" published by the Bank in August 1981.

SCHEDULE 5

Special Account

1. For the purposes of this Schedule:

(a) the term "eligible Categories" means Categories of items to be financed out of the proceeds of the Loan set forth in the table in paragraph 1 of Schedule 1 to this Agreement;

(b) the term "eligible expenditures" means expenditures in respect of the reasonable cost of goods and services required for the Project and to be financed out of the proceeds of the Loan allocated from time to time to the eligible Categories in accordance with the provisions of Schedule 1 to this Agreement; and

(c) the term "Authorized Allocation" means an amount equivalent to \$2,000,000 to be withdrawn from the Loan Account and deposited in the Special Account pursuant to paragraph 3 (a) of this Schedule.

2. Except as the Bank shall otherwise agree, payments out of the Special Account shall be made exclusively for eligible expenditures in accordance with the provisions of this Schedule.

3. After the Bank has received evidence satisfactory to it that the Special Account has been duly opened, withdrawals of the Authorized Allocation and subsequent withdrawals to replenish the Special Account may be made as follows:

(a) On the basis of a request or requests by the Borrower for a deposit or deposits which add up to the aggregate amount of the Authorized Allocation, the Bank shall, on behalf of the Borrower, withdraw from the Loan Account and deposit in the Special Account such amount or amounts as the Borrower shall have requested.

(b) The Borrower shall furnish to the Bank requests for replenishment of the Special Account at such intervals as the Bank shall specify. On the basis of such requests, the Bank shall withdraw from the Loan Account and deposit into the Special Account such amounts as shall be required to replenish the Special Account with amounts not exceeding the amount of payments made out of the Special Account for eligible expenditures. All such deposits shall be withdrawn by the Bank from the Loan Account under the respective eligible Categories, and in the respective equivalent amounts, as shall have been justified by the evidence supporting the request for such deposit furnished pursuant to paragraph 4 of this Schedule.

4. For each payment made by the Borrower out of the Special Account for which the Borrower requests replenishment pursuant to paragraph 3 (b) of this Schedule, the Borrower shall furnish to the Bank, prior to or at the time of such request, such documents and other evidence as the Bank shall reasonably request, showing that such payment was made for eligible expenditures.

5. (a) Notwithstanding the provisions of paragraph 3 of this Schedule, no further deposit into the Special Account shall be made by the Bank when either of the following situations first arises:

(i) the Bank shall have determined that all further withdrawals should be made by the Borrower directly from the Loan Account in accordance with the provisions of Article V of the General Conditions and paragraph (a) of Section 2.02 of this Agreement; or

(ii) the total unwithdrawn amount of the Loan allocated to the eligible Categories, minus the amount of any outstanding special commitment entered into by the Bank pursuant to Section 5.02 of the General Conditions with respect to the Project, shall be equal to the equivalent of twice the amount of the Authorized Allocation.

(b) Thereafter, withdrawal from the Loan Account of the remaining unwithdrawn amount of the Loan allocated to the eligible Categories shall follow such procedures

as the Bank shall specify by notice to the Borrower. Such further withdrawals shall be made only after and to the extent that the Bank shall have been satisfied that all such amounts remaining on deposit in the Special Account as of the date of such notice will be utilized in making payments for eligible expenditures.

6. (a) If the Bank shall have determined at any time that any payment out of the Special Account (i) was made for any expenditure or in any amount not eligible pursuant to paragraph 2 of this Schedule, or (ii) was not justified by the evidence furnished pursuant to paragraph 4 of this Schedule, the Borrower shall, promptly upon notice from the Bank, deposit into the Special Account (or, if the Bank shall so request, refund to the Bank) an amount equal to the amount of such payment or the portion thereof not so eligible or justified. No further deposit by the Bank into the Special Account shall be made until the Borrower has made such deposit or refund.

(b) If the Bank shall have determined at any time that any amount outstanding in the Special Account will not be required to cover further payments for eligible expenditures, the Borrower shall, promptly upon notice from the Bank, refund to the Bank such outstanding amount for crediting to the Loan Account for immediate cancellation.

