

10-113-052

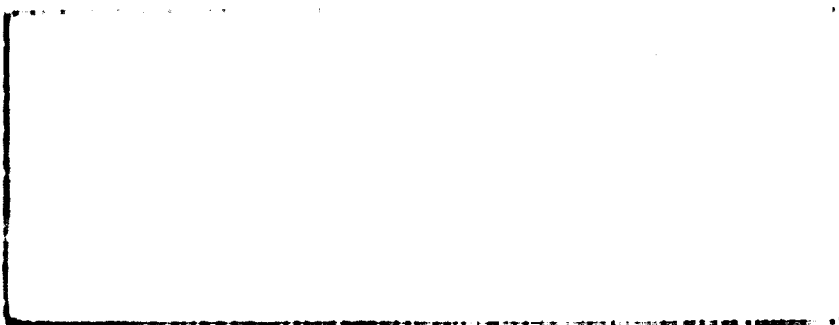
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**PERUSAHAAN UMUM LISTRIK NEGARA
AGENCY OF MINISTRY OF MINES AND ENERGY
GOVERNMENT OF THE REPUBLIC OF INDONESIA**



**RURAL ELECTRIFICATION PROJECT
CONTRACT AID/ASIA-C - 1357
AID LOAN NO. 497 - T - 052**



CHAS.T. MAIN INTERNATIONAL, INC

RURAL ELECTRIFICATION PROJECT - INDONESIA
UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT
LOAN NO. 497-T-052

MONTHLY REPORT NO. 26
FOR
FEBRUARY 1981

SUBMITTED BY
CIAS. T. MAIN INTERNATIONAL, INC.

MAIN
Engineers

PERUSAHAAN UMUM LISTRIK NEGARA CONSULTANTS
CHAS. T. MAIN INTERNATIONAL, INC.

ADDRESS	BANDUNG JL. PROGO No. 32 TROMOLPOS No. 69	JAKARTA JL. WIJAYA 1/61 P.O. BOX 100 - KBYT KEBAYORAN TIMUR 74041 - 2. 776925 1 7 1 5 6	SEMARANG JL. SLAMET No. 1 P.O. BOX 26 312701, 311702, 315340
P.O. BOX			
TELEPHONE	5 6 8 6 9		
TELEX	2 8 2 7 0		

April 21, 1981

Letter No. S - 7290

United States Agency for International
Development
Jalan Merdeka Selatan No. 5
Jakarta, Indonesia.

Attention : Mr. Abraham Grayson
Chief Engineer

Subject : Rural Electrification Project
Contract No. AID/ASIA-C-1357
Monthly Report - February 1981

Gentlemen :

Attached are twelve (12) copies of our report summarizing PLN project activities during the month of February 1981.

Very Truly Yours,
Chas.T. Main International, Inc.



H.E. Johnson
Area Manager

cc : Mr. Samaun Samadikun (1)
PLN, Pusat - Attn. :
Dir. of Construction (2)
Mr. J. Rumondor (25)
Proyek Induk Jaringan Jawa Tengah (5)
PLN Wilayah XIII (2)
NRECA (2)
MAIN, Boston (2)
Dr. Azis D. Pabaney (1)

HEJ/tw.

RURAL ELECTRIFICATION PROJECT

MONTHLY REPORT

FEBRUARY 1981

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I. INTRODUCTION

A. THE CONTRACT

Contract AID/ASIA-C-1357 was executed on September 18, 1978 between the United States Agency for International Development and Chas. T. Main International, Inc. following the completion of a Loan Agreement, AID Loan November 497-T-052, dated May 6, 1978, and a Grant Agreement, dated March 30, 1978, between the Republic of Indonesia and The United States of America for the implementation of a Rural Electrification Project, AID Project Number 497-0267.

Funding for Contract AID/ASIA-C-1357 is contained in the Grant Agreement. No Letter-of-Credit is involved in this contract. The date of implementation of the contract was September 18, 1978.

B. DESCRIPTION OF PROJECT

The objective of this project is to assist the Government of Indonesia (GOI) in its plan to provide areawide electric power distribution facilities in ten specified areas.

Seven of the project areas are located in the Province of Central Java, and the distribution systems for these areas will be operated by Perusahaan Umum Listrik Negara (PLN). Information presented in this report applies to the Central Java Project Areas only.

The project will consist of approximately 2,500 kilometers of overhead primary and secondary distribution lines and is planned to encompass at least 440 towns and villages. The completed project will insure the availability of reliable, inexpensive electric service to an estimated 260,000 rural homes. Approximately 130,000 consumers will be connected during the first three years of operation, and the remainder connected during the following twelve years.

CENTRAL JAVA
RURAL ELECTRIFICATION
PROJECT SERVICE AREAS

Java Sea



WEST
JAVA



PEKALONGAN
PEMALANG

SEMARANG



BANYUMAS

CILACAP

MAGELANG



SRAGEN



SLEMAN



BANTUL



KLATEN

WONOGIRI



EAST JAVA

Indian Ocean



SCALE : NONE

CTM-109

The seven Central Java Project Service Areas are shown on CTM Map No. 109, page 2 of this report. These seven areas will be connected to the existing PLN, Central Java grid for their power requirements. Project Service Areas, number of villages served, approximate number of consumer connections and the estimated total number of power recipients are as follows :

<u>SERVICE AREA</u>	<u>VILLAGES SERVED</u>	<u>APPROXIMATE NO. OF CONNECTIONS</u>	<u>ESTIMATED NO. OF RECIPIENTS</u>
Klaten	95	25,000	225,000
Pem/Pek	103	20,000	180,000
Bantul	21	20,000	180,000
Wonogiri	54	15,000	135,000
Sragen	49	15,000	135,000
Magelang	83	20,000	180,000
Banyumas	<u>35</u>	<u>15,000</u>	<u>135,000</u>
TOTALS	440	130,000	1,170,000

The above tabulations reflect project expectations after the first three years of commercial operation.

II. SCOPE OF SERVICES

The scope of MAIN's services is to assist the PLN staff located at Semarang and Central Java in all phases of the design and construction of seven rural electric distribution systems. The engineering assistance will consist of, among other things, circuit routing and phasing, structure selection, conductor selection, protection and sectionalizing, and estimating of material and equipment requirements. MAIN will prepare material and equipment bid documents and assist PLN in the evaluation of bids, the preparation and Administration of material and equipment Supply contracts and the receipt and distribution of materials and equipment. MAIN will also assist PLN during the construction phase of the project by inspecting construction for quality and quantities of work, maintenance of construction schedules and the inventory and documentation of completed construction.

III. PROJECT ACTIVITIES & PROGRESS

A. ENGINEERING

1. DISTRIBUTION SYSTEMS

The preparation of distribution system construction maps by PLN staff continued throughout the reporting period. The status of completion of the construction maps and structure data sheets for the various systems are shown in Table 1. During the reporting period, the percentage of completion of the construction maps for Klaten and Banyumas were increased.

During the reporting period, MAIN's staff continued an engineering review of the construction maps and SDS sheets for Klaten and Magelang.

2. HEADQUARTERS COMPLEXES

During the reporting period PLN design and drafting personnel continued to prepare the design and to amend the design and tracings as a result of MAIN's technical review conducted during the previous reporting period. Foundations design was revised as well as various structural details. As of the end of this reporting period, work towards completed design is continuing.

B. PROCUREMENT

1. TOOLS AND EQUIPMENT

During the reporting period, USAID issued a Letter of Commitment for the following contract:

Pj. 216/PST/80 Merican-Curtis, Inc. February 12, 1981.

Further to the previously reported Maison International, Ltd. request for price increase in Contract Pj. 196/PST/80, Maison furnished information showing comparative costs but without

TABLE NO. 1
STATUS OF MAP AND STRUCTURE DATA SHEETS
MONTH ENDING FEBRUARY, 1981

Construction Beginning Sequence	PROJECT AREA	No. of Maps	Construction Maps		Structure Data Sheets		Complete Field Checking & Revisions
			% Complete	Date of Completion	% Complete	Date of Completion	
7	BANYUMAS/CILACAP	311	78.4	RE 12/31/81	100	9/30/80	RE 1/31/82
2	KLATEN	352	89.2	E 3/31/81	100	10/31/80	E 4/30/81
1	MAGELANG	423	100	12/31/80	100	9/30/80	RE 4/31/81
R 6	PEKALONGAN/PEMALANG	560	77.5	RE 10/15/81	100	8/31/80	RE 11/15/81
3	SLEMAN/BANTUL	268	88.3	RE 6/30/81	100	8/31/80	RE 8/31/81
R 5	SRAGEN	364	79	RE 8/31/81	100	9/30/80	RE 9/31/81
4	WONOGIRI	530	100	10/31/80	100	9/31/80	RE 6/30/81

A - ACTUAL
E - ESTIMATED
R - REVISED

verifying documentation. On February 10, 1981, PLN again requested verifying documentation showing the basis of alleged increased costs.

During the reporting period, Maison shipped all of the maintenance shop equipment and a major portion of the communication is equipment to be furnished under Contract Pj. 196/PST/80.

Import permits for vehicles and communications equipment have not yet been obtained. Import permits for vehicles requires vehicle serial numbers which are not yet available from the supplier.

2. MATERIALS AND EQUIPMENT

During the reporting period, PLN signed the following contracts for various items of line materials and equipment :

Pj. 029/PST/81	IRBY CONSTRUCTION CO.	February 20, 1981
Pj. 030/PST/81	COPPERWELD INDUSTRIES	February 23, 1981
Pj. 031/PST/81	McGRAW-EDISON CO.	February 23, 1981
Pj. 032/PST/81	PRODUTOS PARA LINHAS PREFORMADAS LTDA.	February 23, 1981

Of the thirteen contracts to be executed, eleven contracts were delivered to the respective suppliers for signature. Two contracts, each in excess of \$ 800,000, are still under review by Sekretariat Negara (SEKNEG).

3. HOUSEWIRING MATERIALS

There was no activity in this portion of the procurement activity pending receipt of bids on March 10, 1981.

4. CONDUCTORS

No developments in this procurement action has been reported during the period.

5. POLES

During the reporting period, the wood pole supplier delivered 136 treated wood poles to the Project. A total of 1483 poles have been delivered.

Contracts for the supply and erection of RS steel poles at Magelang and Klaten were executed during the reporting period.

6. FUNDING

The present accumulated value of procurement contracts and funds committed by Letter of Commitment from the USAID loan are shown in Table 2.

A spread sheet showing additional details of contracts, Letter of Commitment and Letters of Credit is contained in the Appendix.

C. CONSTRUCTION

1. DISTRIBUTION SYSTEMS

Line construction continued at Magelang and began at Klaten with the hauling and setting of poles. The quantity and type of poles set are as follows :

<u>SITE</u>	<u>STEEL RS</u>	<u>WOOD</u>
Klaten	151	-
Magelang	-	241

2. HEADQUARTERS COMPLEXES

During the reporting period, site works construction proceeded at all sites. The respective contract and construction data for the various sites are shown in Table 3.

TABLE 2
COMMITTED FUNDS - AID LOAN

As of : February 28, 1981.

<u>NO.</u>	<u>CONTRACT SUPPLIER</u>	<u>AMOUNT</u>	<u>NO.</u>	<u>LETTER OF COMMITMENT</u>	
				<u>BANK</u>	<u>AMOUNT *</u>
Pj. 194/PST/1980	Maison Int'l. Ltd.	\$ 322,267.55	497-T-05207	CitiBank NA	\$ 323,878.80
Pj. 195/PST/1980	New World Research Corp.	821,722.00	497-T-05208	CitiBank NA	825,722.00
Pj. 195/PST/1980	Hyundai Corp.	327,804.00	497-T-05209	CitiBank NA	329,443.02
Pj. 216/PST/1980	American Cortis, Inc.	569,473.00	497-T-05210	Wells Fargo	572,320.37
	Present Total	\$ 2,041,266.55		Present Total	\$ 2,051,364.28

* Includes Bank Charges

February 28, 1981.

TABLE 3
SITE DEVELOPMENT CONTRACTS
HEADQUARTERS COMPLEXES

SITE	BID REC'D	CONTRACT AWARD	CONSTRUCTION	% COMP.	SCHEDULED CONSTRUCTION COMPLETE
BANTUMAS	Oct. 9, 1980	Dec. 15, 1980	Jan. 1, 1981	27.8	June 15, 1981
KLATEN	Oct. 9, 1980	Nov. 5, 1980	Nov. 10, 1980	83.4	June 10, 1981
MAGELANG	Aug. 25, 1980	Sept. 22, 1980	Oct. 10, 1980	89.6	April 15, 1981
PEKALONGAN	Oct. 9, 1980	Nov. 10, 1980	Nov. 15, 1980	32.0	April 10, 1981
SIEMAN-BANTUL	Aug. 25, 1980	Sept. 15, 1980	Sept. 29, 1980	86.7	Feb. 22, 1981
SURABAYA	Oct. 9, 1980	Dec. 1, 1980	Dec. 9, 1980	48.6	April 30, 1981
WONOGIRI	Oct. 9, 1980	Nov. 3, 1980	Nov. 15, 1980	76.1	April 25, 1981

E. PROJECT PROGRESS

A chart depicting the scheduling and progress status of engineering and construction activities is being prepared for inclusion in the monthly report. As of this reporting period, the schedule of contractor supply and erection of steel and concrete poles is not yet formalized. As this activity is a pre-requisite of the follow-on line construction activities, a line construction schedule is not yet complete. It is anticipated that this matter will soon be resolved and that sufficient firm data will be available to proceed with accurate scheduling. An engineering and construction progress chart will be included as soon as scheduling is completed.

IV. ADMINISTRATION

A. PERSONNEL

Table 4 lists the job classifications and associated manmonths allocated to MAIN. Also shown are the personnel assigned and manmonths consumed for each job classification.

During the period, Mr. B.R. Morrow returned to the project from home leave. Mr. Morrow returned to Indonesia on February 19, 1981.

B. LOGISTICS

Table A-2, Appendix, lists the continuing logistic support furnished by PLN to MAIN.

During the reporting period, PLN assigned one (1) CJ-7 jeeps and two (2) Toyota sedans to MAIN at Semarang as replacements for three (3) vehicles previously assigned.

TABLE 4

JOB CLASSIFICATIONS & MANMONTHS

THROUGH : JANUARY 29, 1981.

JOB CLASSIFICATIONS	LOCATION	AGENCY		PERSONNEL ASSIGNED	MANMONTH		% CONS.	% REMAIN
		PLN	DGC		ALLOCATED	CONSUMED		
Project Director	Jakarta	x	x	D. A. Dowling	40	27.0	67.5	32.5
Business Manager	Semarang	x	x	R. N. Key	39	26.8	68.0	32.0
Administrative Ass't	Jakarta	x	x	P. Korin	24	6.4	26.7	73.3
Area Manager	Semarang	x		H. E. Johnson	24	3.9	16.2	83.8
Lead Elect. Engineer	"	x		F. W. Hill	38	23.3	61.3	38.7
Civil Engineer	"	x		B. R. Morrow	24	15.8	65.8	34.2
Architect	-	x		-	3	-	-	-
Distrib. Const. Sup'r.	"	x		J. W. Pitts	37	25.5	68.9	31.1
Field Supervisor	"	x		J. J. Bennett	34	21.3	62.6	37.4
Field Supervisor	"	x		J. V. Hardman	35	21.8	62.3	37.7
Lead Elect. Engineer	Jakarta		x	G. Smith	39	24.5	62.8	37.2
Elect. Engineer	"		x		24	24.0	100.0	-
Electrical Engineer	"		x	E. Borja	24	6.3	26.2	73.8
Electrical Engineer	"		x	C. S. Saniel	24	7.4	30.8	69.2
Electrical Engineer	"		x	T. Resabal	24	2.2	9.2	90.8
Civil Engineer	"		x	N. H. Sidiongco	24	7.7	32.0	68.0
Senior Draftsman	"		x	D. K. Hoffer	24	11.3	47.0	53.0
Field Supervisor	Lampung		x	F. Cachin	35	24.8	70.8	29.2
Field Supervisor	Lombok		x	C. T. Nuez	35	19.5	55.7	44.3
Field Supervisor	Luwu		x	R. Garcia	35	25.1	71.7	28.3
Materials Supervisor	-		x		12	-	-	-
Boston Office					90	44.0	49.0	51.0
					688	368.6		

V. FINANCIAL

A. Following is a summary of costs invoiced to January 29, 1981 :

	<u>Budget</u>	<u>Invoiced Costs</u>		<u>Paid To Date</u>
		<u>To Date</u>	<u>This Period</u>	
U.S. AID \$ 5,355,261		\$ 2,382,178	\$ 118,883	\$ 2,174,579
PLN		Rp. 51.547.473	Rp. 6.986.117	Rp. 42.878.004

B. A detailed breakdown by contract line item of CTM invoices to U.S. AID is as follows :

	<u>Budget</u>	<u>Costs to Date</u>		
		<u>PLN</u>	<u>DGC</u>	<u>Total</u>
Salaries & Wages	\$ 1,484,257	375,687	362,846	738,533
Fringe Benefits	278,636	63,393	67,102	130,495
Allowances	382,355	86,586	87,780	174,366
Travel & Transp.	959,825	192,109	166,097	358,206
Other Direct Costs	450,037	35,500	92,125	127,625
Overhead	1,309,151	352,736	341,073	693,809
Fee	410,000	80,942	78,202	159,144
TOTAL :	<u>\$ 5,355,261</u>	<u>1,186,953</u>	<u>1,195,225</u>	<u>2,382,178</u>
	=====	=====	=====	=====

C. Although the Contract amount is \$ 5,355,261, the amount of allocated funds is \$ 2,956,075, in accordance with General Provision B, limitation of Costs, of the Contract, CTM notified U.S. AID, October 9, 1980, that it is expected that the total accumulated costs will, within the next sixty (60) days, exceed seventy-five percent (75%) of the funds allocated to the Contract.

VI. PROBLEM AREAS

A. POLES

Lack of wood poles continue to hamper construction progress due to inability of supplier to provide quality poles in sufficient quantities.

PLN and USAID have taken action to alleviate this problem by USAID concurrence to a PLN proposal to supply and use steel secondary poles and pre-stressed spun concrete poles. PLN has initiated procurement action executing contracts for the supply of steel poles and negotiated impending contracts for the supply of concrete poles.

B. LINE MATERIALS AND EQUIPMENT

Procurement action has lagged due to administrative reviews, supplier delays in signing contracts and the administrative processes involved in issuance of Letters-of-Commitment and Letters-of-Credit.

PLN and USAID has begun to coordinate their respective activities in these matters to a greater degree and are emphasising attention and action to reduce the time which these activity consumes.

VII. OFFICIAL VISITS & TRIPS

A. OFFICIAL VISITS

During the period, MAIN field staff members made several trips to Magelang, Klaten and Sleman to assist PLN pole setting activities at Magelang and Klaten and to review construction drawings in the field. Several trips were made to Jakarta by MAIN staff members to coordinate project administrative, procurement and technical matters with PLN-PUSAT and AID.

There were no official visits to the Project by PLN or USAID personnel during the reporting period.

VIII. PROJECT CORRESPONDENCE

A. The following communications were issued from MAIN's Semarang Office during the reporting period :

<u>Addressee</u>	<u>Ltr. No.</u>	<u>Date</u>	<u>Subject</u>
US. AID	S - 7094	Feb. 3, 81	Invoice No. AID-67R Period Ending Feb. 1, 1981.
CTM Jakarta	S - 7100	Feb. 5, 81	Housewiring IFB Central Java
GE Honolulu	S - 7102	Feb. 7, 81	Central Java Housewiring Tender
Ohm Int'l, Inc.	S - 7104	Feb. 7, 81	Glove size seven is correct
CTM Boston	S - 7106	Feb. 7, 81	Specifications of Housewiring Materials.
US. AID	S - 7110	Feb.10, 81	RE IFB-Headquarters Complexes
Sedco/EMSI	S - 7116	Feb.16, 81	4-Way PVC junction
CTM Jakarta	S - 7118	Feb.20, 81	Recloser detailed requirements
Ohm Int'l	S - 7126	Feb.24, 81	Contract to supply PLN with distribution hardware for Central Java, Indonesia.
A.J.Curran	S - 7130	Feb.24, 81	Equipment Purchases
Irby Bandung	S - 7134	Feb.24, 81	Distribution materials and Equipment.
Dahana Kencana Jakarta.	S - 7136	Feb.25, 81	PLN Central Java section PD-1 reclosers.
CTM Jakarta	S - 7142	Feb.26, 81	Draft of suggested telex to Maison.
PLN Pusat	S - 7144	Feb.26, 81	Rural Electrification Revised Contract Quantities
PLN Pusat	S - 7154	Feb.27, 81	R.E.P. Central Java Letter of Credit No.0103/16410/ PL.
US. AID	S - 7156	Feb.28, 81	R.E. Plot Plans

B. The following communications were issued from MAIN's Jakarta Office during the reporting period :

<u>Addressee</u>	<u>Ltr. No.</u>	<u>Subject</u>
H.E. Johnson	J - 3626	Telex - Following telex received from GE Asia Co. PLN/Central Java Housewiring Tender USAID Loan No. 497-T-052.
H.E. Johnson/ R.N. Key	J - 3628	Telex - Housewiring IFB
Ir. Moh. Basoeki	J - 3633	Distribution and Equipment Contracts
Curran	J - 3642	Telex - Housewiring IFB & Maison CJ T & E.
Curran	J - 3645	Memo - Comment on Maison Price Increase
Merican Curtis	J - 3694	Telex - Importation of 29 LMT
Soedarso/PLN Pst	J - 3697	Maison Contract Pj. 196/PST/80.
A. Grayson	J - 3698	Maison request for Price Increase Contract Pj. 196/PST/80.
J.L. Davis	J - 3700	Telex - Supply of Distribution Materials & Equipment for Central Java
John Mullins/ Ohm Int'l	J - 3723	Telex - Status of request for Letter of Credit.
Cable Handling & Strg.	J - 3724	Telex - Ditto
Merican Curtis	J - 3725	Telex - Ditto
I T T	J - 3726	Telex - Ditto
Popov	J - 3735	Memo - Manpower Requirement

TABLE A - 1

PRE DESIGN LINE STAKING

<u>Service Area</u>	<u>No. Villages</u>	<u>Circuit Length - Total KM.</u>			<u>% of Feasibility Study Requirement:</u>
		<u>Three Phase</u>	<u>Single Phase</u>	<u>Sec. Only</u>	
Sleman/Bantul	21	30	192.8	172.6	130
Banyumas	35	45.6	135.6	64.6	102
Klaten	102	64.5	246.8	303.8	112
Magelang	83	51.6	277.8	86.1	131
Pemalang/ Pekalongan	136	73.1	226.1	197.7	153
Sragen	55	35.1	217.3	236.4	149
Wonogiri	54	58.7	346.5	255.7	181

TABLE A-2
LOGISTICS SUPPORT

<u>PERSONNEL</u>	<u>HOUSING</u>		<u>TRANSPOR</u>
	<u>LOCATION</u>	<u>BY</u>	
J. J. Bennett & Family	Semarang	PLN	PLN
D. A. Dowling & Family	Jakarta	AID	Vehicle by PLN operation by DGC
J. V. Hardman & Family	Semarang	PLN	PLN
F. W. Hill & Family	Semarang	PLN	PLN
H. E. Johnson	Semarang	PLN	PLN
R. N. Key & Family	Semarang	PLN	PLN
B. R. Morrow & Family	Semarang	PLN	PLN
J. W. Pitts & Family	Semarang	PLN	PLN

PLN provides offices at Semarang for MAIN and full logistic support consisting of secretarial personnel, drivers and all operational necessiters.

PLN provides office facilities at Jakarta and partial operational support for that office.

CONTRACT No	CONTRACTOR	DATE OF CONTRACT	EFFECTIVE DATE OF CONTRACT	FOF
PJ.111/PSI/CO	New World Research Corp.	30-7-80		Encl. 3 Blank Telephone Special Note
PJ.112/PSI/CO	Cable International Inc.	11-1-80		Commutative Print. Blot
PJ.113/PSI/CO	Hyland Corp.	1-1-80		Grounding
PJ.114/PSI/CO	Cable International, Inc.	1-1-80		Distn. Hand
PJ.115/PSI/CO	Mexican Electric, Inc.	8-1-80		Maintenance
PJ.116/PSI/CO	Cable International, Inc.	8-1-80		Compressor
PJ.117/PSI/CO	Cable wiring & stringing Equipment Inc.	27-10-80		Stringing
PJ.118/PSI/CO	ITT Export Corp.	10-11-80		Distn. Line
PJ.119/PSI/CO	ITT Export Corp.	8-1-81		Distn. Line
PJ.120/PSI/CO	ITT Export Corp.	8-1-81		Distn. Line
PJ.121/PSI/CO	ITT Export Corp.	10-1-81		Distn. Line
PJ.122/PSI/CO	ITT Export Corp.	1-1-81		Distn. Line

BEST AVAILABLE DOCUMENT

SUMMARY OF CONTRACT STATUS

CONTRACT FOR MATERIAL & EQUIPMENT

FOR SUPPLY OF	LETTER OF COMMITMENT		
	CORRESPONDENT BANK	No	DATE
Lab. & Test Equipment \$ 157,522.00	[REDACTED]	497-T-05206	2-1-81
Vehicle Equipment 113,900.00	[REDACTED]		
Ground Rods 310,000.00	[REDACTED]		
Communication Equipment 225,073.74	CITIZEN BANK N.A.	497-T-05207	25-11-80
Maint. Shop Equipment 57,113.24			
Grounding Material 327,164.00	CITIZEN BANK N.A.	497-T-05209	21-1-81
Distr. Hand Tools 169,185.17	WELLS FARGO BANK INTERNATIONAL		
Maintenance Trucks 569,473.00	WELLS FARGO BANK INTERNATIONAL	497-T-05210	12-2-81
Compression Tools 69,149.73	WELLS FARGO BANK INTERNATIONAL		
Stringing Equipment 314,711.96	WELLS FARGO BANK INTERNATIONAL		
Distr. Line Tools 194,171.76	WELLS FARGO BANK INTERNATIONAL		
Service Materials 260,107.10			
Protective devices 177,400.00			
Exp. Strands 394,177.00			
Protective devices 50,711.00			
Conductor Specialties			

BEST AVAILABLE DOCUMENT

TABLE A-3

AS OF : FEBRUARY 28, 1981

SHEET 1 OF 1

ENT		LETTER OF CREDIT			
DATE	EXPIRE. DATE	BANK INDONESIA No	DATE	CORRESPONDENT No	BANK DATE
2-1-81	1-11-82				
25-11-80	1-11-82	0103/15410/PL	15-12-80		
21-1-81	1-11-82	0103/15903/PL	18-2-81		
12-2-81	31-1-83				

BEST AVAILABLE DOCUMENT

A-3-3