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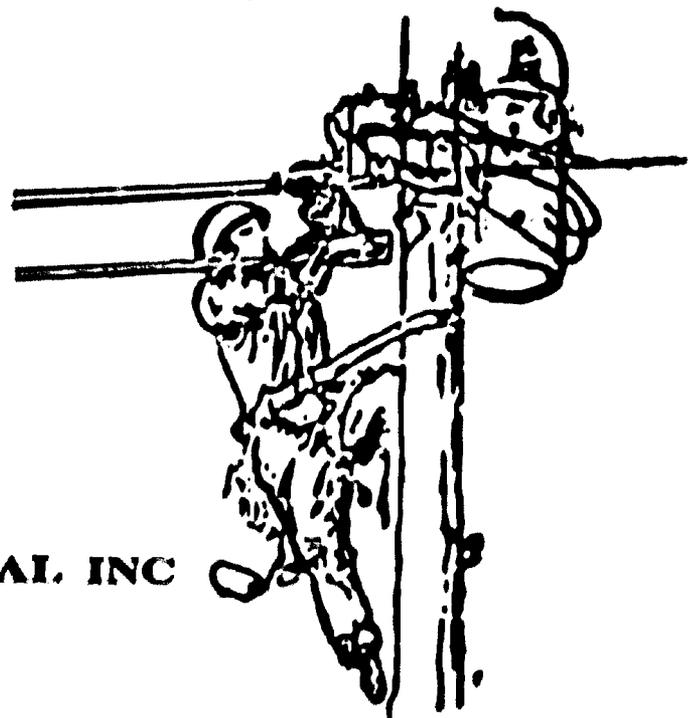
DIRECTORATE GENERAL OF COOPERATIVES

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

MONTHLY REPORT
FOR FEBRUARY 1982

MAIN

CHAS. T. MAIN INTERNATIONAL INC

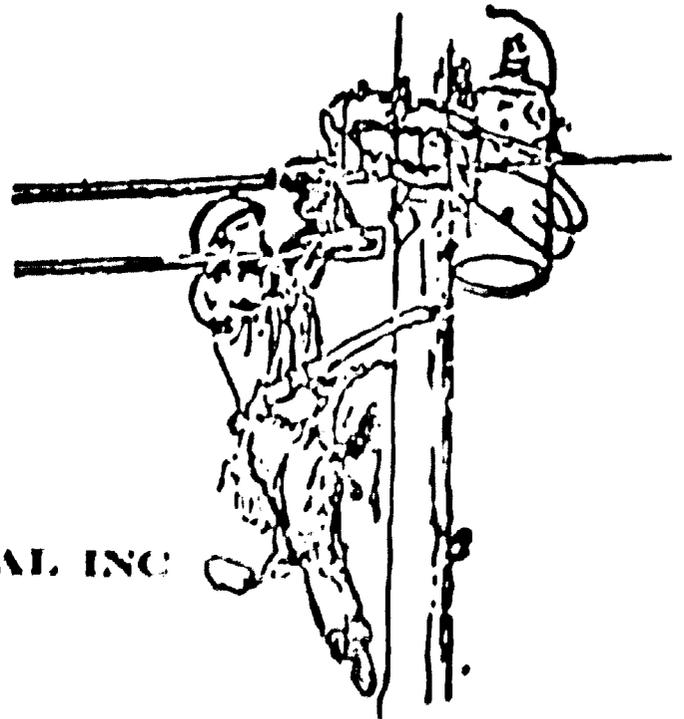


DIRECTORATE GENERAL OF COOPERATIVES

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



CLAS. T. MAIN INTERNATIONAL INC



MAIN*Engineers***CHAS. T. MAIN INTERNATIONAL, INC.**

BANDUNG - TROMOLPOS 69. TEL. : 56869. JLN. PROGO 32
 JAKARTA - P.O. BOX 46 KBYT. KEBAYORAN TIMUR. TEL. 774041-2. 776925 JL. WIJAYA 1/61
 SEMARANG - P.O. BOX : 6. TEL. : 311702. JLN. SLAMET 5

Date : March 15, 1982

Letter No. : R - 2832

USAID
 c/o American Embassy,
 Jalan Merdeka Selatan No. 5,
 Jakarta, Indonesia

Attn. : Mr. J.D. Baird,
 Rural Electrification I
 Project Officer

Subject: Rural Electrification
 Contract No. AID/ASIA-C-1357
MONTHLY REPORT for FEBRUARY 1982

Gentlemen:

Attached hereto are twelve (12) copies of our report summarizing MAIN's activity for the month ending 28 February 1982.

Very truly yours,

T. MAIN INTERNATIONAL, INC.,



Donald A. Dowling
 Donald A. Dowling
 Projects Director

cc. : Mr. Soedjanadi - Director General for Cooperatives, w/3 copies.
 Mr. Muslimin Nasution - Secretary to the Deputy Minister for Cooperatives, w/2 copies.
 Mr. Sjouffjan Awal - Chief PDO/RE, w/6 copies.
 Mr. Achmad Markam - Chief Foreign Technical Aid Division/Secretariat to the Directorate General for Coops., w/1 copy.
 Mr. Peter McNeill - NRECA, w/1 copy.
 Mr. A.J. Curran - MAIN Boston, w/2 copies.

-/jd

R E P O R T

NO. 28

RURAL ELECTRIFICATION PROJECT - INDONESIA
UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT

LOAN NO. 497-T-052

MONTHLY REPORT

FEBRUARY 1982

SUBMITTED BY

CHAS. T. MAIN INTERNATIONAL, INC.

RURAL ELECTRIFICATION PROJECT

MONTHLY REPORT

FEBRUARY 1982

DIRECTORATE GENERAL OF COOPERATIVES

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I. DESCRIPTION OF PROJECT

The objective of this Project is to assist the Government of Indonesia (GOI) in its plan to provide area-wide electric power distribution facilities in ten specific areas.

Three service areas are located on the islands of Sumatra, Lombok and Sulawesi and will be constructed and operated as investor owned Cooperatives under the direction of the Directorate General of Cooperatives (DGC). Information presented in this report applies to the DGC service areas only.

The Cooperative Projects will consist of approximately 1,647 kilometers of overhead primary and secondary distribution lines and is planned to encompass at least 190 towns and villages. The completed Projects will ensure the availability of reliable and inexpensive electric service to an estimated 110,000 homes. Approximately 51,500 customers will be connected during the first three years of operation and the remainder connected during the following twelve years.

Each of the Project service areas shall include a Headquarters Complex consisting of a Cooperative administrative office building, a warehouse building containing an operations office and vehicle maintenance facilities, as well as covered and open material and equipment storage areas.

The power requirements of the completed distribution system will be supplied by diesel powered electric generating plants which shall be owned and operated by each of the Cooperatives.

Locations of the three Cooperative service areas are shown on Page 3 of this report. Project service areas, estimated pole line kilometers, numbers of villages to be served and the approximate number of consumer connections after three years of commercial operation are as follows :

<u>SERVICE AREA</u>	<u>COOPERATIVE</u>	<u>POLE LINE KM</u>	<u>VILLAGES TO BE SERVED</u>	<u>APPROXIMATE NO. OF CONNECTIONS</u>
Central Lampung, Sumatra	Sinar Siwo Mego	974	108	23,000
East Lombok	Sinar Rinjani	196	32	14,000
Luwu, South Sulawesi	Samabotuna	477	50	14,500
		<u>1,647</u>	<u>190</u>	<u>51,500</u>
		=====	===	=====

LOCATIONS OF PROJECT SITES



II. ENGINEER'S SCOPE OF WORK

On 18 September 1978, Contract AID/ASIA-C-1357 was executed between the United States Agency for International Development (USAID) and Chas. T. Main International, Incorporated (MAIN). MAIN's scope of work, as described in this Contract and as amended by Amendment No. 1 to said Contract, is as follows :

A. ENGINEERING/DESIGN

MAIN will be responsible for all phases of the Cooperative distribution systems to include field surveys, electrical design studies and the preparation of material, equipment and construction specifications. The design and construction management of Headquarters Complexes at each of the three Cooperative sites will also be MAIN's responsibility.

B. PROCUREMENT

Procurement activities to be performed by MAIN shall include the preparation and issuance of tender documents, evaluation of proposals received, recommendations for awards of contracts, preparation and administration of supply contracts and assistance to PDO/RE and the Cooperatives in the receiving, inspection and storage of project material and equipment.

C. CONSTRUCTION

MAIN shall be responsible for administrative procedures relevant to the construction of the Cooperative distribution systems and Headquarters Complexes. Responsibilities shall include the pre-qualification of local construction contractors, the preparation and issuance of construction tender documents, bid evaluations for awards of contracts and the preparation and administration of construction contracts.

Construction records to be maintained by MAIN shall include distribution systems construction inventories, as-built construction drawings, construction schedules and documentation

for payments to the construction contractors. MAIN shall also be responsible for construction supervision and inspection of all aspects of the contractor's construction activities.

D. TRAINING

The PDO/RE staff will increase their administrative and technical skills through active participation in MAIN's Project activities.

This transfer of technology through On-The-Job Training is concentrated primarily with the six Electrical Engineers and four Design Draftsmen who are designated to be assigned to MAIN's production staff by Amendment No. 1.

III. FINANCIAL

A. Following is a summary of USAID and DGC/PDO costs invoiced through 28 January 1982 :

	<u>BUDGET</u>	<u>INVOICE TO DATE</u>	<u>PAID TO DATE</u>
USAID	\$ 5,355,261	\$ 3,761,065	\$ 3,566,166
DGC		Rp. 48,895,260	48,895,260

B. A detailed breakdown by Contract line item of MAIN's invoices to USAID is as follows :

	<u>Budget</u>	<u>Cost To Date</u>		<u>TOTAL</u>
		<u>FIN</u>	<u>DGC</u>	
Salaries & Wages	\$ 1,484,257	\$ 561,820	\$ 622,143	\$ 1,183,963
Fringe Benefits	278,636	85,216	90,659	175,875
Allowances	382,355	176,842	151,649	278,491
Travel & Transportation	959,825	282,040	248,775	530,815
Other Direct Costs	450,037	43,636	184,380	228,016
Overhead	1,390,151	527,277	583,301	1,110,578
Fee	410,000	121,455	131,872	253,327
T O T A L	\$ 5,355,261	\$ 1,748,286	\$ 2,012,779	\$ 3,761,065
	=====	=====	=====	=====

IV. ENGINEERING

A. SYSTEM DESIGN

The office design of the electrical distribution systems of the three (3) Cooperative service areas is complete. Preparation of maps and staking sheets for the three (3) service areas continued during this report period.

Following pages indicate the previous, current and total progress of mapping, survey and staking sheet preparation for each service area; page 9 - Lampung, page 10 - Lombok and page 11 - Luwu. The staking sheets required for the Lombok Service Area were completed during this report period. The related checking and approval procedure for those staking sheets will commence and continue as the work load of the Project Team Leader and Electrical Engineer permit. Approximately thirty percent of the Lampung and fifty percent of the Luwu service areas staking sheets are completed.

Preparation of the DGC Specifications and Construction Standards progressed satisfactorily during this report period. It is anticipated that approximately eighty one (81) drawings will be required to complete the set. The status of drawing preparation is as follows :

Total drawing authorized to date	80
Complete (signed off)	70
Remaining (approximately)	10

A preview copy of the DGC Construction Standards Manual was sent to PDO/RE and USAID in February. A MAIN, USAID and PDO/RE review of the preview DGC Construction Standard Manual indicated that minor corrections and editing were required on 41 of the pages.

In addition to the preparation and correction work on the DGC Construction Standard Manual, the Drafting/Reproduction Section of MAIN Project Staff completed during this report period, the reproduction of 1700 construction plan prints, (35 sets) required for tendering and construction of the Headquarters Complexes, as well as drafting three individual covers for these plans.

The preparation of key and detail system maps by MAIN's Drafting/Reproduction Section will be accelerated after the DGC Construction Standards are completed.

A1. STATUS REPORT OF MAPS, SURVEY AND STAKING SHEETS INDICATING SELECTED KEY QUANTITIES

FOR THE SERVICE AREA : Lampung

<u>DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>PREVIOUSLY COMPLETED</u>	<u>PROGRESS THIS REPORT PERIOD</u>	<u>COMPLETED TO DATE</u>
1. Key Maps _____	1	.1	0	.1
2. Detail Maps _____	35	0	0	0
3. Centerline Staking (Kilometers) _____	974	974	0	974
4. Pole Staking (Kilometers) _____	974	376	104	480
5. Line Restaking, Kilometers (Resurvey) _____	100	0	0	0
6. Staking Sheets _____	850	196	103	299
A) Checked _____	850	65	0	65
B) P o l e s _____	12,700	2,226	1,388	3,614
C) Pole Line Kilometers _____	974	175	106	281
(a) Primary _____	563	100	56	156
(b) Secondary _____	411	75	50	125
(c) Underbuild _____	424	77	39	116
D) Approved _____	850	65	0	65

REIL PROJECT INCLUDED

A2. STATUS REPORT OF MAPS, SURVEY AND STAKING SHEETS INDICATING SELECTED KEY QUANTITIES

FOR THE SERVICE AREA : Lombok

<u>DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>PREVIOUSLY COMPLETED</u>	<u>PROGRESS THIS REPORT PERIOD</u>	<u>COMPLETED TO DATE</u>
1. Key Maps _____	1	.1	0	.1
2. Detail Maps _____	7	0	0	0
3. Centerline Staking (Kilometers) _____	196	196	0	196
4. Pole Staking (Kilometers) _____	196	155	0	155
5. Line Restaking, Kilometers (Resurvey) _____	25	0	0	0
6. Staking Sheets _____	250	141	49	190
A) Checked _____	250	0	0	0
B) P o l e s _____	2,600	1,846	251	2,097
C) Pole Line Kilometers _____	196	117.542	37.458	155
(a) Primary _____	148	85.516	28.028	113.544
(b) Secondary _____	48	32.026	9.43	41.456
(c) Underbuild _____	54	41.778	15.3961	57.1741
D) Approved _____	250	0	0	0

REIL PROJECT INCLUDED IN POLE KILOMETERS.

A3. STATUS REPORT OF MAPS, SURVEY AND STAKING SHEETS INDICATING SELECTED KEY QUANTITIES

FOR THE SERVICE AREA : L U W U

<u>DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>PREVIOUSLY COMPLETED</u>	<u>PROGRESS THIS REPORT PERIOD</u>	<u>COMPLETED TO DATE</u>
1. Key Maps _____	1	.08	.04	.12
2. Detail Maps _____	30	0	0	0
3. Centerline Staking (Kilometers) _____	477	477	0	477
4. Pole Staking (Kilometers) _____	477	477	0	477
5. Line Restaking, Kilometers (Resurvey) _____	50	0	0	0
6. Staking Sheets _____	415	136	75	211
A) Checked _____	415	0	0	0
B) P o l e s _____	7,500	2005	1093	3098
C) Pole Line Kilometers _____	477	143.756	78.621	222.377
(a) Primary _____	263	92.164	52.670	144.834
(b) Secondary _____	214	51.592	25.951	77.543
(c) Underbuild _____	214	72.259	39.414	111.673
D) Approved _____	415	0	0	0

B. DESIGN OF HEADQUARTER COMPLEXES

The Construction Plans for each of the three Headquarters Complexes have been completed, approved and printed. Volume I - General Conditions and Volume II - Technical Specifications of the IFB's to be opened between April 13 and 19 have been approved and reproduced. The documents and plans will go on sale 5 March 1982 at the offices of PDO/RE and may be obtained by the pre-qualified contractors on the payment by them of Rp. 150,000.- per set.

The tendering, evaluation and contract award schedule for the construction of the Headquarters Complexes is indicated below :

<u>ACTIVITY</u>	<u>PERIOD</u>	<u>NO. OF DAYS</u>
1. Notice to Qualified Bidders	Feb. 25 - March 4, 1982	7
2. Obtain Bid Documents	March 5 - March 12, 1982	7
3. Explanation of Bids/Prebid Conference	March 13- March 20, 1982 Lampung - March 18, 1982) L u w u - March 19, 1982)* Lombok - March 20, 1982)	7
4. Preparation/Submission of Bids	March 6 - April 12, 1982	31
5. Bids Opening Period	April 13- April 19, 1982 Lampung - April 13, 1982) L u w u - April 16, 1982)** Lombok - April 19, 1982)	6
6. Evaluation of Bids	April 13- M a y 6, 1982	21
7. Announcement of Winning Bidders	M a y 7, 1982	1
8. Receiving of Complaints/ Denial Period	M a y 8 - M a y 14, 1982	6
9. Formal Answer to Complaints Period	M a y 16- M a y 20, 1982	6
10. Formal Notices to Winning Bidders	M a y 21- M a y 30, 1982	10

NOTES : *) To be held in Jakarta

***) To be held at each Provincial Capital.

A notice concerning the tendering process for construction of the Headquarter Complexes were sent to the selected qualified contractors by PDO/RE during this report period.

Seven local consulting firms were contacted by MAIN during November 1981 to inquire if they would be interested in providing construction supervision services for the Headquarters Complexes.

1. P.T. DACREA, Jl. Jenderal Sudirman, Jakarta
2. P.T. ARCHICONS, Jl. Jenderal Sudirman, Jakarta
3. P.T. CIPTA PURA, Jl. Surabaya, Jakarta
4. P.T. PERENCANA JAYA, Jl. S. Parman, Jakarta
5. CIPTA STRADA Engineering Consultants,
Jl. Jenderal Sudirman, Jakarta
6. P.T. WIDYA PERTIWI, Jl. Menteng Raya, Jakarta
7. P.T. ENCONA ENGINEERING, INC., Jl. Angkasa,
Jakarta

Follow-up letters and telephone calls have been processed by MAIN since November to these companies. To date MAIN has been able to ascertain that five of the listed firms are interested, but do not have qualified personnel that can be spared from projects under implementation. P.T. Perencana Jaya and Cipta Strada Engineering Consultants have not acknowledged MAIN's repeated requests for a reply.

C. FIELD TRIPS

MAIN's Project Office Engineering Staff did not make any field trips during the report period ending 28 February 1982.

D. PDO/RE STAFF ASSIGNED TO MAIN'S PROJECT STAFF

PDO/RE assigned three Distribution Engineering Technicians in February to MAIN's Project Staff. The three Technicians are receiving training in the preparation of staking sheets and are assisting MAIN's regular staff in the preparation of Project staking sheets. Training for these Technicians will also include other relevant procedures as time permits.

It is anticipated that PDO/RE will also send its Distribution Engineers to work with and receive training from MAIN's Distribution Engineering Staff Personnel.

V. PROCUREMENT

A. MAIN's Project procurement activity during this report period was centered around the completion, approval and printing the Lampung, Lombok and Luwu IFBs for Line and Housewiring Materials. Corrections to and editing of the Wood Pole IFB was also started during this report period by the procurement section of MAIN's Project Staff, as well as assisting with the final preparation of the IFBs for Construction of the Headquarters Complexes. A synopsis for advertising the Line and Housewiring IFBs mentioned above was transmitted to USAID during this report period. The IFBs will go on sale March 19, 1982 and are to be opened on May 18, 1982. The up-dated schedule of events relevant to the new IFBs is as follows :

<u>EVENT</u>	<u>DATE</u>	<u>MONTHS</u>
IFB Preparation started	1 December 1981	
IFB Preparation complete	15 January 1982	1.5
IFB Approved by PDO/RE and USAID	15 February 1982	1
IFB Advertisement	19 March 1982	1
IFB Opening	18 M a y 1982	2
IFB Evaluation complete	15 J u n e 1982	1
SEKNEG Evaluation approval	15 J u l y 1982	1
Contract formalities complete	1 September 1982	1.5
L/Com and L/C issued and opened	15 October 1982	1.5
Material Delivery FOB vessel	15 January 1983	3
Material Delivery Port of Entry	15 March 1983	2
Material Delivery at site	1 April 1983	0.5
		<hr/>
		16 Months

These three IFBs include bid requests for the following Categories of Material and Equipment for the areas noted.

	<u>DESCRIPTION</u>	<u>LAMPUNG</u>	<u>LOMBOK</u>	<u>LUWU</u>
1.	Line Hardware (Additional)	x	x	x
2.	Steel Strand		x	
3.	Conductor, Bare	x	x	x
5.	Conductor, Bare (Special)		x	
*6.	Conductor, Insulated (Special)		x	
8.	Connectors (Additional)	x	x	x
9.	Insulators		x	
14.	Wood Products (Plus Additional Items)	x	x	x
2H.	Cables	x	x	x
3H.	Wiring Devices - I	x	x	x
4H.	Wiring Devices - II	x	x	x
8H.	Miscellaneous Material - II	x	x	x

* To be included in Category 3 for Lombok.

A page following this narration indicates the distribution and status of the Project's Dollar Funds, which is followed by three (3) sets of Procurement Status Reports, one for each service area.

A short review covering Pole and Communication Equipment procurement, field and inspection trips undertaken by the Material Coordinator and Project Lead Engineer are at the end of this section of the Monthly Project Report.

DISTRIBUTION AND STATUS OF PROJECT DOLLAR FUNDS FOR PROCUREMENT OF MATERIAL,
EQUIPMENT AND HEADQUARTERS COMPLEX CONSTRUCTION

DOLLAR EXPENDITURES AS CONTRACTED AND ESTIMATED, FOR :	\$ FUNDS UNDER CONTRACT FOR THE LAMPUNG PROJECT	\$ FUNDS UNDER CONTRACT FOR THE LOMBOK PROJECT	\$ FUNDS UNDER CONTRACT FOR THE LUWU PROJECT	TOTAL \$ FUNDS UNDER CONTRACT TO DATE
LINE MATERIAL AND EQUIPMENT	1,879,160.48	721,034.07	907,139.42	3,507,333.97
HOUSEWIRING AND METERING MATERIAL AND EQUIPMENT	744,471.32	512,312.41	524,667.41	1,781,451.14
TOOLS, EQUIPMENT AND VEHICLES	58,866.22	45,644.20	45,644.20	150,154.62
HEADQUARTERS COMPLEX	0	0	0	0
REIL PROJECT	267,425.00	0	211,180.00	478,605.00
ESTIMATED AMOUNT OF DOLLAR FUNDS YET TO BE PUT UNDER CONTRACT	LAMPUNG	LOMBOK	LUWU	TOTAL PROJECT
LINE MATERIAL AND EQUIPMENT	1,210,000.00	407,000.00	827,000.00	2,444,000.00
HOUSEWIRING AND METERING MATERIAL AND EQUIPMENT	300,000.00	300,000.00	300,000.00	900,000.00
TOOLS, EQUIPMENT AND VEHICLES	140,000.00	55,000.00	55,000.00	250,000.00
HEADQUARTERS COMPLEX w/FURNITURE	525,000.00	535,000.00	540,000.00	1,600,000.00
REIL PROJECT	0	0	- 174,643.17	- 174,643.17
DOLLAR VALUE OF MATERIAL UNDER CONTRACT	2,949,923.02	1,278,990.68	1,688,631.03	5,917,544.73
ESTIMATED DOLLAR VALUE OF MATERIAL YET TO BE CONTRACTED	2,175,000.00	1,297,000.00	1,547,356.83	5,019,356.83
ESTIMATED TOTAL FUNDS REQUIRED FOR COMPLETION	5,124,923.02	2,575,990.68	3,235,987.85	10,936,901.55
ORIGINAL DOLLAR FUNDS COMMITTED FOR PROJECT	316,000.00 4,000,000.00	315,000.00 3,400,000.00	315,000.00 2,600,000.00	946,000.00 10,000,000.00
DIFFERENCE BETWEEN COMMITTED AND REQUIRED FUNDS	- 808,923.02	+ 1,139,009.32	- 320,987.85	+ 9,098.45

PROCUREMENT STATUS REPORT
FOR LAMPUNG

LAMPUNG SERVICE AREA

<u>BID CATEGORY</u>	<u>UP-TO-DATE STATUS</u>
1. Line Hardware	- Submitted to Bank Indonesia to name Paying Bank.
2. Steel Strand	- Received at Port of Entry.
3. Conductor Bare	- To be advertised March 19, 1982.
4. Conductor, Insulated	- O, S & D report submitted.
5. Conductor, Bare (Special)	- Amendment to be signed by PDO/RE.
6. Conductor, Insulated (Special)	- Contract completed.
7. Conductor Accessories	- Submitted to USAID for L/Comm amendment.
8. Connectors	- Submitted to BAPPENAS. PDO/RE must now send a letter to BAPPENAS correcting errors in the original submission.
9. Insulators	- Partial shipment received at Port of Entry.
10. Protective Devices	- O, S & D report submitted.
11. Transformer	- Quantity change amendment signed.
12. Reclosers	- Amendment submitted to USAID for L/Comm amendment.
13. Street Lighting Equipment	- Submitted to BAPPENAS. PDO/RE must now send a letter to BAPPENAS correcting errors in the original submission.
14. Wood Products (less poles)	- Delivery started.
15. T and M Equipment	- Submitted to BAPPENAS. PDO/RE must now send a letter to BAPPENAS correcting errors in the original submission.

LAMPUNG

IFB HOUSEWIRING MATERIAL AND METERING EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	CONTRACT AWARDED TO	STAMP TAX PAID	CONTRACT SIGNED BY CONTRACTOR AND PDO	PERFORMANCE BOND DELIVERED	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	LETTER OF COMMITMENT REQUESTED AND CONDITIONAL LETTER OF CREDIT	L/COM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	DELIVERY COMPLETED	REPLACEMENT MATERIAL REQUESTED	CONTRACT CLOSED
		FOR AMOUNT																
1	R & C METERS	GENERAL ELECTRIC CO. \$ 590,440.10	X	X	X	X	X	X	X									
2	CABLES	NEW IFB																
3	WIRING DEVICES-1	NEW IFB																
4	WIRING DEVICES-2	NEW IFB																
5	PROTECTIVE DEVICES	GENERAL ELECTRIC CO. \$ 25,440.00	X	X	X	X	X	X	X									
6	LAMPS	PT. INTRA SAPTA / TITAN \$ 15,750.00	X	X	X	X												
7	MISC. MATERIAL - 1	PT. INTRA SAPTA / TITAN \$ 65,657.70	X	X	X	X												
8	MISC. MATERIAL-2	NEW IFB																
9	MISC. MATERIAL-3	PT. INTRA SAPTA / TITAN \$ 21,411.52	X	X	X	X												
10	GROUNDING EQUIPMENT	PT. INTRA SAPTA / TITAN \$ 25,772.00	X	X	X	X												

LAMPUNG

IFB TOOLS, EQUIPMENT AND VEHICLES

CATEGORY	CATEGORY DESCRIPTION	CONTRACT AWARDED TO	STAMP TAX PAID	CONTRACT SIGNED BY CONTRACTOR AND PDO	PERFORMANCE BOND DELIVERED	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	LETTER OF COMMITMENT REQUESTED AND CONDITIONAL LETTER OF CREDIT	L/COM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	DELIVERY COMPLETED	REPLACEMENT MATERIAL REQUESTED	CONTRACT CLOSED
		FOR AMOUNT																
1	PERSONNEL EQUIPMENT	PT. INTRA SAPTA / TITAN \$ 5,479.76	X	X	X	X												
2	HAND TOOLS	PT. INTRA SAPTA / TITAN \$ 3,654.56	X	X	X	X												
3	CONSTRUCTION TOOLS & EQUIPMENT	CV. GLORIA TRADING CO. \$ 16,822.54	X	X	X	X	X	N/A	N/A	X								
4	COMPRESSION TOOLS	CV. GLORIA TRADING CO. \$ 8,622.38	X	X	X	X	X	N/A	N/A	X								
5	SHOP TOOLS	CV. GLORIA TRADING CO. \$ 12,660.50	X	X	X	X	X	N/A	N/A	X								
6	TEST EQUIPMENT	CV. GLORIA TRADING CO. \$ 9,045.73	X	X	X	X	X	N/A	N/A	X								
7	SAFETY GROUNDING EQUIPMENT	CV. GLORIA TRADING CO. \$ 2,580.75	X	X	X	X	X	N/A	N/A	X								
8	VEHICLES																	

Key  PREVIOUSLY COMPLETED  COMPLETED DURING REPORT PERIOD

- 22 -

PROCUREMENT STATUS REPORT
FOR LOMBOK

LOMBOK SERVICE AREA

<u>BID CATEGORY</u>	<u>UP-TO-DATE STATUS</u>
1. Line Hardware	- Submitted to Bank Indonesia to name Paying Bank.
2. Steel Strand	- To be advertised March 19, 1982.
3. Conductor, Bare	- To be advertised March 19, 1982.
4. Conductor, Insulated	- Shipment started.
5. Conductor, Bare (Special)	- To be advertised March 19, 1982.
6. Conductor, Insulated (Special)	- To be advertised March 19, 1982.
7. Conductor Accessories	- Awaiting PDO/RE submittal to BAPPENAS.
8. Connectors	- Submitted to BAPPENAS. PDO/RE must now send a letter to BAPPENAS correcting errors in the original submission.
9. Insulators	- To be advertised March 19, 1982.
10. Protective Devices	- Submitted to BAPPENAS. PDO/RE must now send a letter to BAPPENAS correcting errors in the original submission.
11. Transformers	- To be transferred from Lampung Project.
12. Reclosers	- Delivery started.
13. Street Lighting Equipment	- Submitted to BAPPENAS. PDO/RE must now send a letter to BAPPENAS correcting errors in the original submission.
14. Wood Products (less poles)	- To be advertised March 19, 1982.
15. T and M Equipment	- Submitted to BAPPENAS. PDO/RE must now send a letter to BAPPENAS correcting errors in the original submission.

MATERIAL AND EQUIPMENT INFORMATION

CONTRACT NUMBER IN FORCE	CATEGORY NUMBER	DESCRIPTION OF MATERIAL IN CATEGORY	NAME OF CONTRACTOR	LETTER OF COMMITMENT OR DRA NO. 497-T-052xx	DOLLAR AMOUNT UNDER CONTRACT PER CATEGORY
03/KLP/LO/81	12	RECLOSERS	McGRAW-EDISON CO.	24	45,588.47
05/KLP/LO/81	4	CONDUCTOR-INSULATED	NEW WORLD RESEARCH	24	194,800.00
07/KLP/LO/81	10	PROTECTIVE DEVICES	McGRAW-EDISON		55,420.90
08/KLP/LO/81	7	CONDUCTOR ACCESSORIES	IRBY CONSTRUCTION CO.		41,350.50
09/KLP/LO/81	8	CONNECTORS	IRBY CONSTRUCTION CO.		44,659.29
- " -	13	S.L. EQUIPMENT	- " -		11,185.35
- " -	15	T & M EQUIPMENT	- " -		21,190.05
10/KLP/LO/81	1	LINE HARDWARE	JOSLYN CO.		140,618.20
	2	STEEL STRAND			EST 10,000.00
	5	CONDUCTOR, B (SPECIAL)			EST 12,500.00
	6	CONDUCTOR, I (SPECIAL)			EST 1,000.00
	14	WOOD PRODUCTS			EST 35,000.00
	3	CONDUCTOR-BARE			EST 270,000.00
	9	INSULATORS			EST 50,000.00
	()	MISC. ITEMS			EST 28,000.00
06/KLP/LA/81	11	TRANSFORMERS	META EPSI ENGINEERING	21	166,221.30
TOTAL DOLLARS OBLIGATED ON LINE M & E FOR THE LOMBOK PROJECT					406,609.77
TOTAL DOLLARS CONTRACTED TO DATE FOR LOMBOK PROJECT - LINE M and E					721,034.07
ADDITIONAL DOLLAR AMOUNT REQUIRED FOR LOMBOK PROJECT - LINE M and E					EST 407,000.00
TOTAL DOLLAR AMOUNT REQUIRED FOR LOMBOK PROJECT - LINE M and E					EST 1,128,034.07

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LOMBOK

IFB HOUSEWIRING MATERIAL AND METERING EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	CONTRACT AWARDED TO	STAMP TAX PAID	CONTRACT SIGNED BY CONTRACTOR AND PDO	PERFORMANCE BOND DELIVERED	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	LETTER OF COMMITMENT REQUESTED AND CONDITIONAL LETTER OF CREDIT	L/COM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	DELIVERY COMPLETED	REPLACEMENT MATERIAL REQUESTED	CONTRACT CLOSED
		FOR \$ AMOUNT																
1	R & C METERS	GENERAL ELECTRIC CO. \$ 358,342.25	X	X	X	X	X	X	X	01H/KLP/LO/81								
2	CABLES	NEW IFB																
3	WIRING DEVICES-1	NEW IFB																
4	WIRING DEVICES-2	NEW IFB																
5	PROTECTIVE DEVICES	GENERAL ELECTRIC CO. \$ 25,440.00	X	X	X	X	X	X	X	01H/KLP/LO/81								
6	LAMPS	P.T. FAUATRI UTAMA \$ 12,677.20	X	X	X	N/A	N/A	N/A	N/A	03H/KLP/LO/81				X	X	X		
7	MISC. MATERIAL - 1	P.T. INTRA SAPTA / TITAN \$ 67,483.20	X	X	X	X				02H/KLP/LO/81								
8	MISC. MATERIAL-2	NEW IFB																
9	MISC MATERIAL - 3	P.T. INTRA SAPTA/TITAN \$ 21,934.75	X	X	X	X				02H/KLP/LO/81								
10	GROUNDING EQUIPMENT	P.T. INTRA SAPTA/TITAN \$ 25,435.00	X	X	X	X				02H/KLP/LO/81								

LOMBOK

IFB TOOLS, EQUIPMENT, AND VEHICLES

CATEGORY	CATEGORY DESCRIPTION	CONTRACT AWARDED TO	STAMP TAX PAID	CONTRACT SIGNED BY CONTRACTOR AND PDO	PERFORMANCE BOND DELIVERED	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	LETTER OF COMMITMENT REQUESTED AND CONDITIONAL LETTER OF CREDIT	L/COM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	DELIVERY COMPLETED	REPLACEMENT MATERIAL REQUESTED	CONTRACT CLOSED
		FOR AMOUNT																
1	PERSONNEL EQUIPMENT	C.V. GLORIA TRADING CO. \$ 3,473.38	X	X	X	X	X	N/A	N/A	X 01T/KLP/LO/81								
2	HAND TOOLS	P.T. INTRA SAPTA / TITAN \$ 2,631.92	X	X	X	X			N/A	X 02T/KLP/LO/81								
3	CONSTRUCTION TOOLS & EQUIPMENT	C.V. GLORIA TRADING CO. \$ 10,299.16	X	X	X	X	X	N/A	N/A	X 01T/KLP/LO/81								
4	COMPRESSION TOOLS	C.V. GLORIA TRADING CO. \$ 6,219.38	X	X	X	X	X	N/A	N/A	X 01T/KLP/LO/81								
5	SHOP TOOLS	C.V. GLORIA TRADING CO. \$ 12,297.50	X	X	X	X	X	N/A	N/A	X 01T/KLP/LO/81								
6	TEST EQUIPMENT	C.V. GLORIA TRADING CO. \$ 9,031.61	X	X	X	X	X	N/A	N/A	X 01T/KLP/LO/81								
7	SAFETY GROUNDING EQUIPMENT	C.V. GLORIA TRADING CO. \$ 1,691.25	X	X	X	X	X	N/A	N/A	X 01T/KLP/LO/81								
8	VEHICLES																	

PROCUREMENT STATUS REPORT
FOR LUWU

LUWU SERVICE AREA

<u>BID CATEGORY</u>	<u>UP-TO-DATE STATUS</u>
1. Line Hardware	- Letter of Commitment requested by USAID.
2. Steel Strand	- Delivery started.
3. Conductor, Bare	- To be advertised by March 19, 1982.
4. Conductor, Insulated	- Delivery started.
5. Conductor, Bare (Special)	- Delivery started.
6. Conductor, Insulator (Special)	- Contract completed.
7. Conductor Accessories	- Partially delivered to site.
8. Connectors	- Letter of Commitment requested.
9. Insulators	- Submitted to Bank Indonesia to name Paying Bank.
10. Protective Devices	- Delivery started.
11. Transformers	- Received at site.
12. Reclosers	- Delivery started.
13. Street Lighting Equipment	- Submitted to BAPPENAS.
14. Wood Products (less poles)	- Delivery started.
15. T and M Equipment	- Submitted to Bank Indonesia to name Paying Bank.

MATERIAL AND EQUIPMENT INFORMATION

LUWU

CONTRACT NUMBER IN FORCE	CATEGORY NUMBER	DESCRIPTION OF MATERIAL IN CATEGORY	NAME OF CONTRACTOR	LETTER OF COMMITMENT OR DRA NO. 497-T-052xx	DOLLAR AMOUNT UNDER CONTRACT PER CATEGORY
02/KLP/LW/81	2	STEEL STRAND	COPPERWELD IND.	16	44,032.20
- " -	5	CONDUCTOR-B-(SPECIAL)	INTERNATIONAL INC	16	18,298.00
04/KLP/LW/81	4	CONDUCTOR - INSUL.	WALSIN LIHWA	28	115,929.10
05/KLP/LW/81	6	CONDUCTOR-I- (SPECIAL)	KABELINDO MURNI	18	886.36
06/KLP/LW/81	7	CONDUCTOR ACCESSORIES	P.L.P. CO. (BRAZIL)	16	38,207.90
07/KLP/LW/81	8	CONNECTORS	IRBY CONSTRUCTION CO		35,467.25
--//--	13	S.L. EQUIPMENT	-- " --		11,185.35
09/KLP/LW/81	10	PROTECTIVE DEVICES	NEW WORLD RESEARCH	19	51,177.00
--//--	14	WOOD PRODUCTS	CORP.	19	31,040.00
10/KLP/LW/81	11	TRANSFORMERS	DAEWOO IND. INT'L	20	138,433.00
11/KLP/LW/81	12	RECLOSERS	MCGRAW-EDISON CO.	16	40,884.96
13/KLP/LW/81	9	INSULATORS	NEW WORLD RESEARCH		88,988.40
	15	T & M EQUIPMENT	CORP.		14,060.00
01/KLP/LW/81	1	LINE HARDWARE	HIJASON IND. LTD		278,549.90
	3	CONDUCTOR-BARE			EST 780,000.00
	()	MISC. ITEMS			EST 47,000.00
TOTAL DOLLARS OBLIGATED ON LINE M & E FOR THE LUWU PROJECT					478,888.52
TOTAL DOLLARS CONTRACTED TO DATE FOR LUWU PROJECT LINE M & E					907,139.42
ADDITIONAL DOLLAR AMOUNT REQUIRED FOR LUWU PROJECT LINE M & E					EST 827,000.00
TOTAL DOLLAR AMOUNT REQUIRED FOR LUWU PROJECT LINE M AND E					EST 1,734,139.42

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IFB HOUSEWIRING MATERIAL AND METERING EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	CONTRACT AWARDED TO	STAMP TAX PAID	CONTRACT SIGNED BY CONTRACTOR AND PDO	PERFORMANCE BOND DELIVERED	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	LETTER OF COMMITMENT REQUESTED AND CONDITIONAL LETTER OF CREDIT	L/COM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	DELIVERY COMPLETED	REPLACEMENT MATERIAL REQUESTED	CONTRACT CLOSED
		FOR AMOUNT																
1	R & C METERS	GENERAL ELECTRIC CO. \$ 370,707.25	X	X	X	X	X	X	X									
			CONTRACT NUMBER								01H/KLP/LW/81							
2	CABLES	NEW IFB																
3	WIRING DEVICES-1	NEW IFB																
4	WIRING DEVICES-2	NEW IFB																
5	PROTECTIVE DEVICES	GENERAL ELECTRIC CO. \$ 25,440.00	X	X	X	X	X	X	X									
			CONTRACT NUMBER								01H/KLP/LW/81							
6	LAMPS	PT. PANATRI UTAMA \$ 12,667.20	X	X	X	N/A	N/A	N/A	N/A	X				X	X	X		
			CONTRACT NUMBER								03H/KLP/LW/81							
7	MISC. MATERIAL - 1	PT. INTRA SAPTA / TITAN \$ 67,483.20	X	X	X	X												
			CONTRACT NUMBER								02H/KLP/LW/81							
8	MISC. MATERIAL - 2	NEW IFB																
9	MISC. MATERIAL - 3	PT. INTRA SAPTA / TITAN \$ 21,934.76	X	X	X	X												
			CONTRACT NUMBER								02H/KLP/LW/81							
10	GROUNDING EQUIPMENT	PT. INTRA SAPTA / TITAN \$ 26,435.00	X	X	X	X	X											
			CONTRACT NUMBER								02H/KLP/LW/81							

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IFB TOOLS EQUIPMENT AND VEHICLES

CATEGORY	CATEGORY DESCRIPTION	CONTRACT AWARDED TO	STAMP TAX PAID	CONTRACT SIGNED BY CONTRACTOR AND POO	PERFORMANCE BOND DELIVERED	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	LETTER OF COMMITMENT REQUESTED AND CONDITIONAL LETTER OF CREDIT	L/COM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	DELIVERY COMPLETED	REPLACEMENT MATERIAL REQUESTED	CONTRACT CLOSED
		FOR AMOUNT																
1	PERSONNEL EQUIPMENT	C.V. GLORIA TRADING CO. \$ 3,473.38	X	X	X	X	X	N/A	N.A.	X								
2	HAND TOOLS	PT. INTRA SAPTA/TITAN \$ 2,631.92	X	X	X	X												
3	CONSTRUCTION TOOLS & EQUIPMENT	C.V. GLORIA TRADING CO. \$ 10,299.16	X	X	X	X	X	N/A	N.A.	X								
4	COMPRESSION TOOLS	C.V. GLORIA TRADING CO. \$ 6,219.38	X	X	X	X	X	N/A	N.A.	X								
5	SHOP TOOLS	C.V. GLORIA TRADING CO. \$ 12,297.50	X	X	X	X	X	N/A	N.A.	X								
6	TEST EQUIPMENT	C.V. GLORIA TRADING CO. \$ 9,031.61	X	X	X	X	X	N/A	N.A.	X								
7	SAFETY GROUNDING EQUIPMENT	C.V. GLORIA TRADING CO. \$ 1,691.25	X	X	X	X	X	N/A	N.A.	X								
8	VEHICLES																	

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B. POLES

The IFB for the supply of Treated Wood Poles is under revision by MAIN's Project Staff. PDO/RE has decided to issue an IFB for the supply of poles for the Luwu and Lombok areas. The Lampung Area Cooperative will set up a treatment plant to provide the treated wood poles required by them to implement the electrical system construction in that area.

P.T. PADECO (Palembang Timber Development Co., Ltd.) have made many visits to the offices of PDO/RE, NRECA and MAIN to explain the advantages of the wood species Ulin. They indicate that treatment is not required. MAIN contends that the species is untreatable due to its density. MAIN agrees that the wood will probably last indefinitely in water, in the ground or above ground, however, P.T. PADECO has not provided data that proves the species to be long lasting in a situation where the wood is buried and protrudes above the ground. MAIN's concern is in the latter situation as it is indisputable that the major problem with the use of wood for overhead electric lines is at the ground line where decay is most likely to occur. A sample that was cut two months previously was brought to MAIN's office. The sample shows an excessive amount of checking. Its density indicates that field drilling would be almost impossible and certainly could not be climbed by linemen wearing hooks. MAIN's Project Lead Engineer along with the NRECA Team Leader will travel to Palembang on 23 March to investigate the possibility of using this species.

C. COMMUNICATION EQUIPMENT

The Single Side Band Communication Equipment has been received at the port of entry. The installation scheduled for November, has been delayed due to problems encountered in customs clearance. BAPPENAS and the Department of Trade have issued the necessary documentation to permit duty free import of the equipment and PDO/RE requested the Port Customs Authority to issue permits necessary for the release of the equipment. PDO/RE are now satisfied that duty free clearance of the equipment will not be possible in the near future and have tentatively decided to pay the import duty required by the Port Customs Authority. It is anticipated that the communication equipment will be installed and operational one month after clearance of the equipment from the Customs Authority.

D. FIELD TRIP BY MATERIAL COORDINATOR

In February the Material Coordinator made a trip to the Lampung Project Area to assist the Cooperative Storekeeper with Conductor Reel Storage. The Project construction schedule indicates that the reels will have to be maintained in their present condition two or more years.

MAIN's Project Lead Engineer proceeded in February along with two PDO/RE Section Heads to factory inspect the line hardware being supplied by Hijason Ind. (Taiwan) Ltd. The team also visited the Shihlin Electric Company's transformer plant while in Taipei. Shihlin will manufacture the transformers for the Lampung and Lombok Service Areas.

VI. CONSTRUCTION - REIL PROJECTS

A. LAMPUNG

The installations completed during the month and total installations of the Lampung REIL Project are as follows :

	<u>PREVIOUS</u>	<u>FEBRUARY</u>	<u>TOTAL</u>
Signed Members	1,691	0	1,691
Service Drops	1,403	17	1,420
Houses Wired	1,444	11	1,455
Members Served	1,403	17	1,420
Meters Set	1,403	17	1,420
Poles Set	838	0	838
Guys Installed	359	0	359
Transformer Set	43	0	43
Maximum Demand	150 KW	144 KW	150 KW

In the Lampung service area MAIN's Field Supervisor has split the line survey and staking crew into three groups, thereby, making it possible to increase the kilometers of line staked in a given time frame. During February 51 kilometers of line was staked which included six villages.

B. LOMBOK

The installations completed during the month and total installations on the Lombok REIL Project are as follows :

	<u>PREVIOUS</u>	<u>FEBRUARY</u>	<u>TOTAL</u>
Signed Members	2,577	9	2,586
Service Drops	2,018	0	2,018
Houses Wired	2,212	22	2,234
Members Served	2,018	0	2,018
Meters Set	2,018	0	2,018
Poles Set	439	20	459
Guys Installed	187	23	210
Transformers Set	11	1	12
Maximum Demand	250 KW	237 KW	250 KW

In the Lombok service area MAIN's Field Supervisor assisted in the construction activity associated with the installation of a line to provide electric power to the village of Suralaga. Energization of this circuit is set for 20 March 1982 provided all of the necessary material is available and installed. Primary conductor stringing is being delayed due to the late delivery of 13 and 14 meter poles.

C. L U W U

The installations completed during the month and total installations on the Luwu Mini REIL Project are as follows :

	<u>PREVIOUS</u>	<u>FEBRUARY</u>	<u>TOTAL</u>
Signed Members	415	0	415
Service Drops	400	15	415
Houses Wired	400	15	415
Members Served	400	15	415
Meters Set	400	15	415
Poles Set	102	0	102
Guys Installed	62	0	62
Transformers Set	0	0	0
Maximum Demand	65 KW	67 KW	67 KW

D. OVERALL FIELD SUPERVISION ACTIVITY

Systems are now in operation in each of the three project service areas. MAIN's Field Supervisors are now constantly on call to provide operational help, guidance and supervision for these systems as well as the services they normally provide on system field design, survey and pole staking.

APPENDIX I

Personnel Assigned To The Project as of 28 February 1982

D.A. Dowling	- Projects Director
E.S. Leffler	- Project Lead Engineer
J.D. Kerr	- Electrical Engineer
R.N. Key	- Business Manager
P.V. Wilson	- Material Coordinator
C.J. Whitby	- Administrator
E.V. Borja	- Distribution Engineer
T.L. Resabal	- Distribution Engineer
G.S. Saniel	- Distribution Engineer
D.K. Hoffer	- Drafting Supervisor
F.P. Cachin	- Field Supervisor
C.T. Nuez	- Field Supervisor
R.M. Garcia	- Field Supervisor
V.H. Sydiongco	- Civil Engineer

Personnel Travel Details

Mr. E.S. Leffler - MAIN's Project Lead Engineer departed 10 February 1982 on a 4 day factory inspection trip returning to Indonesia on 14 February 1982.

Mr. Leffler then proceeded on 18 February 1982 on an R & R trip and is expected to return to the Project on 8 March 1982.

JOB CLASSIFICATIONS & MANMONTHS

Through : 28 January 1982

JOB CLASSIFICATIONS	LOCATION	PLN	DGC	PRESENT PERSONNEL ASSIGNED	MANMONTHS		% CONS.	% REMAIN
					ALLOCATED	CONSUMED		
Projects Director	Jakarta	x	x	D.A. Dowling	40	38.5	38.5	3.8
Business Manager	Semarang	x	x	R.N. Key	39	36.5	93.6	6.4
Administrative Ass't.	Jakarta	x	x		24	10.6	44.2	55.8
Area Manager	Semarang	x		H.E. Johnson	24	14.6	60.8	39.2
Lead Elect. Engineer	Semarang	x			38	27.7	72.9	27.1
Civil Engineer	Semarang	x		E.M. Downing	24	24.9	103.8	(3.8)
Architect		x			3	-	-	-
Field Supervisor	Semarang	x		H.E. Earl	37	35.5	95.6	4.4
Field Supervisor	Semarang	x		J.J. Bennett	34	30.7	90.3	9.7
Field Supervisor	Semarang	x		J.V. Hardman	35	31.8	90.9	9.1
Lead Electrical Eng.	Jakarta		x	E.S. Leffler	39	37.1	95.1	4.9
Electrical Engineer	Jakarta		x	J.D. Kerr	24	29.9	124.6	(24.6)
Distribution Engineer	Jakarta		x	E.V. Borja	24	16.2	67.5	32.5
Distribution Engineer	Jakarta		x	G.S. Saniel	24	17.9	74.6	25.4
Distribution Engineer	Jakarta		x	T.L. Resabal	24	12.5	52.1	47.9
Civil Engineer	Jakarta		x	V.H. Sydiongco	24	17.2	71.7	28.3
Senior Draftsman	Jakarta		x	D.K. Hoffer	24	21.8	90.8	9.2
Field Supervisor	Lampung		x	F.P. Cachin	35	35.6	101.7	(1.7)
Field Supervisor	Lombok		x	C.T. Nuez	35	29.9	85.4	14.6
Field Supervisor	Luwu		x	R.M. Garcia	35	36.3	103.7	(3.7)
Material Coordinator	Jakarta		x	P.V. Wilson	12	10.2	85.0	15.0
Administration Manager	Jakarta		x	C.J. Whitby	-	4.8	-	-
Home Office	Boston	x	x	Various	90	63.6	70.7	29.3
TOTALS :					688	583.8	84.9	15.1

APPENDIX II

PROJECT STATUS
RURAL ELECTRIFICATION

DIRECTORATE GENERAL OF COOPERATIVES

1. Bar Chart revised as of July 31, 1981.
 2. Bar Chart revised as of Dec 31, 1981.
- Projected and completed percentages based upon activity months.

MAIN

REPORTING PERIOD : Feb. 1982

