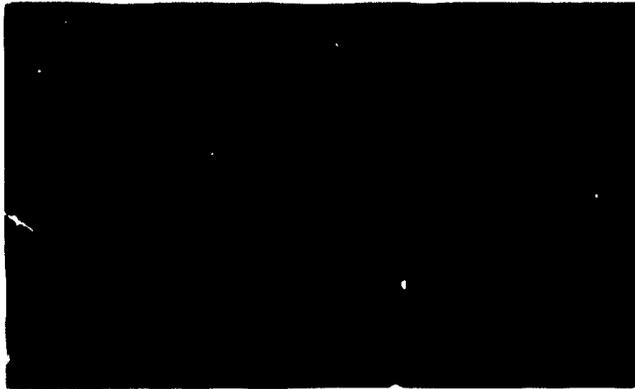


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**RURAL ELECTRIFICATION PROJECTS
INDONESIA**



**NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION
JAKARTA, INDONESIA**

NRECA TEAM REPORT

PDO

INDONESIA

AUGUST 1981

MONTHLY REPORT

NRECA INDONESIAN TEAM REPORT

UNITED STATES AGENCY FOR
INTERNATIONAL DEVELOPMENT

Contract No. AID/ASIA CI347
Loan No. 497-T-052

IMPLEMENTING AGENCIES:

DIREKTORAT JENDERAL KOPERASI
Directorate General of Cooperatives

PERUSAHAAN UMUM LISTRIK NEGARA:
National Electric Power Agency

CONSULTANTS:

National Rural Electric Cooperative Association
Management, Organization and Training

C.T. Main International, Inc.
Architect and Engineering

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DESCRIPTION AND OBJECTIVES OF PROJECT (DGC)

The Government of Indonesia (GOI) has initiated a demonstration rural electrification program which is planned to provide areawide electric power distribution in ten specified areas within the next four or five years. The objective of this program is to demonstrate conclusively that reliable electric service and the social and economic benefits that accrue therefrom can be made available to the very poor people at a price they are able to pay.

Three of the electrical distribution systems will be located on separate islands outside of Java and will be implemented through rural electric cooperatives organized by the Directorate General of Cooperatives (DGC). The National Electric Power Agency (PLN) operates an extensive electric system in Central Java, and is responsible for constructing, operating and maintaining the seven systems located on that island.

The U.S. Agency for International Development (USAID) is assisting the GOI in this demonstration by making available AID grant funds to provide organizational, management and technical advisory services. The National Rural Electric Cooperative Association (NRECA), through its International Programs Division, was contracted by AID to provide these services because of its demonstrated capability and experience in assisting rural electric cooperatives in developing nations throughout the world.

NRECA is working with the two separate agencies charged with implementing the project. Because of the different organization, management, training and experience of these two agencies, the services provided by NRECA differ in scope and location. The services for DGC include complete assistance in the organization of the individual cooperatives; including staffing patterns, job descriptions, cost accounting, O&M methods, training, planning, policies and procedures, housewiring and etc. The NRECA services and progress to date for the seven systems in Central Java are the subject of a separate report.

The three outer island projects are located on Central Lampung (South Sumatra), East Lombok, and Luwu (South Sulawesi) and are to be constructed and developed

by the member-consumers themselves through the organization of rural electric cooperatives. Each cooperative will construct, own and operate a diesel generating plant to provide power for the distribution system. (The Canadian Government is assisting with the generating project.) A special agency known as the Project Development Office (PDO) under the Directorate General for Cooperatives (DGC) is the GOI implementing agency for the Cooperatives.

The key personnel which NRECA has agreed to furnish for the performance of this contract are as follows:

<u>NAME</u>	<u>TITLE</u>	<u>ADDRESS</u>
Peter McNeill	Team Leader	Pondok Indah Bukit Hijau VIII/31 PH: 761132
Louie Sansing	Sr. RE Specialist	Ratu Plaza Apartment #1103 Jl. Jenderal Sudirman PH: 713850
*Sam Adkins	Sr. RE Specialist	c/o C.T. Main Inc. Box 26 Semarang PH: 024-311832
Paul Swanson	Sr. RE Specialist	Kotak Pos 43 Ampenan, Lombok PH: 0364-23517
John DeFoor	RE Specialist	c/o Bina Marga Office Jl. Imam Bonjol 8 Palopo. S. Sulawesi
Ray Shoff	Administrative/Finance Officer	Ratu Plaza Apartment #1002 Jl. Jenderal Sudirman PH: 712034
Claude Franke	RE Specialist	P.O. Box 88 Tanjungkarang Lampung PH: 0721-52058

* PLN Advisor

NRECA Jakarta Team Activities

I. General

--- The NRECA team leader visited the Lampung project on two occasions during the month of August to assist in the change of NRECA project advisors and to monitor activities of the cooperative. Mr. James Cudney, NRECA-IPD Deputy Administrator, South-east Asia, was in-country during this period and accompanied the team leader to Lampung during one visitation.

The team leader also attended the energization ceremony at Kalijaga, Lombok, and assisted the NRECA project advisor and cooperative officials in areas of management and organization.

--- The NRECA training officer spent ten days at the Luwu Cooperative conducting training courses and assisting the NRECA project advisor and staff members in preparations for operation and maintenance of the demonstration electrification project.

--- All three Jakarta-based NRECA team members attended the project evaluation meeting held at USAID offices in Jakarta on August 12th.

II. PDO-RE Activities

--- During this period, the Indonesia version of revision number one to the Uniform System of Accounts was printed and distributed to PDO-RE and the cooperatives. This accounting manual was originally printed in 1979 and is being followed by the cooperative's accounting department personnel. Improvements or minor alterations were deemed beneficial to assure that the accounting manual is accurate and complete.

--- All three cooperatives are now complying with the PDO-RE guideline on the subject of financial/statistical reports and reporting requirements. Monthly reports are now being received by PDO-RE. To assist PDO-RE in report analysis, NRECA prepared and distributed a step-by-step procedure for processing financial/statistical reports. Workshops are being scheduled on this subject.

--- PDO-RE members and NRECA coordinated efforts to prepare a guideline on "money-management" to be submitted to the cooperatives. Of primary concern are general fund bank-account balances (revenue from the sale of electric energy) and housewiring revolving-fund balances (collections from housewiring installations). Local branches of Bank Rakyat Indonesia (BRI) add interest to regular bank account balances at the low rate of 1.8% per annum. Under consideration are time-deposits which offer considerably higher interest rates.

--- NRECA team members continued preparing training course handouts for courses held at the cooperative sites this period, the details of which are included in other sections of this report. In addition, training materials are being prepared for concentrated training to be conducted for PDO-RE staff members beginning in the month of September.

III. Problem Areas

- "A" - A major problem which was listed in the NRECA July report remains unsolved as of the end of August. The three PDO-RE employees who are serving as managers of the three projects are still serving in an "acting" capacity. Overseas training plans for management personnel cannot be finalized until permanent appointments are made.
- "B" - NRECA has officially requested PDO-RE to approve plans for training courses for PDO-RE personnel and to provide names and titles of participants. Although agreement exists on the need for training, as of the end of August, participants had not been selected.

OUTER ISLAND PROJECTS

Luwu - Samabotuna Rural Electric Cooperative

I. General

This month marked the first energization of electrical facilities at the Luwu Cooperative. Line-testing began on August 12 and by August 22, the date of the official energization, one hundred sixty (160) consumers in the village of Bone Bone were receiving electric service from darkness to daylight. (See pages 14 and 15.)

Speakers at the energization ceremony included Mr. Bustanil Arifin, Jr. Minister of Cooperatives, Col. Andi Odang, Governor of South Sulawesi and Mr. Abdullah Suara, Luwu Bupati. Other dignitaries in the crowd of approximately four hundred and fifty (450) persons were Mr. Sjoufjan Awal, PDO-RE Chief and Mr. Ima Suwandi, Chief of DGC-South Sulawesi.

II. Organization/Management

--- Construction materials/equipment continued to arrive at the warehouse in Bone Bone during the first half of this period. To meet the proposed energization date, it was necessary to rapidly issue materials to construction crews, sometimes on the same date they arrived. NRECA provided continuing assistance to warehouse personnel in material identification, inventory recording and preparation of receiving reports and material charge tickets.

--- NRECA assisted the cooperative in kWh meter pre-installation inspection. Two kWh meters were taken to PLN-Ujungpandang for testing and are being used as STANDARDS in meter testing.

--- Service drop, service entrance and kWh meter installations began in the second week of August. The actual installation and connection of kWh meters was performed by RMSS employees of the cooperative. Assistance was rendered during installation and in associated record-keeping.

--- After energization, efforts concentrated on personnel requirements for the initial operating period (until a full-scale construction program resumes). NRECA prepared a revised organizational chart which reflected

35 positions of employment during the interim. This chart was presented to cooperative management for their consideration.

III. Training

--- Four formal training courses were conducted by PDO-RE, NRECA, and the C.T. Main field supervisor at the Luwu Cooperative during this reporting period. These are enumerated as follows: (pictures on page 16)

(1) Service Drop and Staking Sheet Guidelines

Duration: 8 hours

Participants: 9 employees (RMSS, linemen, warehousemen and accounting personnel)

Contents: - Staking Sheet Preparation
- Construction Assembly Unit Selection
- kWh Meter Flow
- Forms, Preparation and Disposition
- Inspection
- Meter Installation
- Safety

(2) Distribution System Operation and Maintenance

Duration: 10 hours

Participants: 23 employees (linemen, plant operators, warehousemen and RMSS employees)

Contents: - Electric Power Generation and Distribution
- Multi-grounded Distribution System
- Distribution Line Equipment O&M
- Voltage Control
- Preventive Maintenance
- Trouble-shooting Procedures
- Line Patrol
- Protective Grounding and Tagging

- kWh Meters, Care and Use
- Tools and Work Equipment
- Record-keeping

(3) Safety and Safety Procedures

Duration: 6 hours

Participants: same as #2 above

- Contents:
- Basic Safety Information
 - Personal Safety
 - Accidents and Their Causes
 - Public Safety
 - Safety Reminders to Cooperative Members
 - Artificial Respiration
 - Pole-top Rescue

(4) Meter-reading, Billing and Collecting

Duration: 7 hours

Participants: 15 persons (RMSS meter readers, billing and accounting personnel)

- Contents:
- Consumer Account-number System
 - Meter-reading Books and Routes
 - Bill Preparation
 - Collection Procedures
 - Posting
 - Consumer Relations

In addition to four formal training courses, NRECA and PDO-RE staff members conducted a workshop for Board members and key personnel on the subjects of retail rates (TARIF) and policy formation (billing, collecting, connect and disconnect policies).

IV. Problem Areas

- (1) Financial reporting is behind schedule. Information was not available in the cooperative's accounting records to permit the preparation of a balance sheet report, period ending July 31st.
- (2) The number of people assigned from DGC-Palopo to serve as employees of this electric cooperative exceeds requirements.
- (3) Directors serve in dual capacity: as members of the Board of Directors; and as employees of the cooperative.

Solutions:

- PDO-RE has assigned a staff member to assist the cooperative in accounting and reporting. Improvement should be forthcoming.
- Employees still receive their salaries from DGC-DIP funds. It is apparent that the problem of personnel-compliment will not be resolved during this fiscal year.
- The chief of PDO-RE has instructed Board members to make a choice -- remain on the Board and resign from employment -- or resign from the Board and continue employment.

LOMBOK - Sinar Rinjani Electric Cooperative

I. General

The desa of Kalijaga was officially energized on August 14th. NRECA team members, Messrs. Peter McNeill, Paul Swanson and PDO-RE representative, Mr. Djapar, attended the energization ceremony. Approximately, two thousand (2,000) people were present when Lombok Governor, Mr. Gatot Suherman, "throw the switch" and three hundred (300) households began receiving electric service. (Pictures on page 17.)

A favorable "side-effect" was apparent with the energization of the fourth desa, Kalijaga. Board members and employees became more enthusiastic about their role in the RE program and began exerting greater efforts to fulfill their respective responsibilities.

II. Organization/Management

--- NRECA provided assistance to the cooperatives' employees on the installation of service drops, meter entrances and kWh meters in Kalijaga. These activities continued at the end of this reporting period in an effort to reach the goal of five hundred (500) installations.

--- Assignment of consumer account members continued as Rural Member Service Specialists (RMSS), employees of the member service department of the cooperative, prepared for meter-reading and billing of the new consumer accounts. In keeping with present billing procedures, the kWh meters in Kalijaga will be read each month by employees of the cooperative, the billing department will prepare the electric bills, and a desa representative will make collections for a fee of Rp 70 per bill collected.

--- PDO-RE and NRECA continued to locate invoices and other information relative to the cost of project REIL, generation and distribution facilities installed in 1980 by a PDO-RE task force. By the end of this reporting period, sufficient information was obtained to facilitate the close-out of project REIL construction and to prepare accurate financial reports.

--- Efforts continue to promote the productive-use of electric service to increase day-time load. Meetings were held with owners of a rice mill in Aikmel and with representatives of a local irrigation district. Officials of the cooperative are optimistic that electric motor loads will be added to the distribution system prior to the end of calendar year 1981.

III. Operations

Operating statistics for the month of July may be found on page 18 of this report. Unfortunately some statistics are misleading because test energization of distribution facilities in Kalijaga occurred in July and the consumer kWh-consumption for this area is not included in the total kWh billing.

At the time this report is being prepared, statistics for the month of August are not available. (The proposed NRECA contract amendment includes a change in monthly reporting dates. If approved, future NRECA reports will contain more current statistical information.)

The system demand increased to 248 kw's during July, reflecting the addition of electric load in Kalijaga. A daily load curve and a monthly load curve may be found on pages 19 and 20 of this report.

IV. Training

No formal training courses were conducted for the cooperative personnel during the month of August but NRECA staff members continued assistance in various areas of on-the-job training.

V. Problem Areas

A - To meet the energization deadline for Kalijaga, it was deemed necessary to utilize the services of contract electricians to install service drops and kWh meter entrances. Much of the work performed by these inexperienced men is sub-standard. Costly corrective action is now in progress.

- B - Provincial officials are urging Board members and the manager of the cooperative to extend service to the desa of Suralaga, located in the southwestern part of the cooperative's service area. Constraints include; an inadequate supply of construction materials; limited rupiah loan funds available in this year's budget; and power-supply limitations. At the end of this reporting period, officials of PDO-RE and cooperative were striving to find a solution to this problem.

- C - The chief accountant completed his three-month probationary period on August 31st. His performance was deemed satisfactory by the manager of the cooperative, PDO-RE officials and NRECA. He is now a permanent employee of the cooperative. However, his services alone are not sufficient to meet the needs of the accounting department.

Qualified personnel for the positions of Stock Record Clerk, Payroll Clerk and Work Order Clerk are difficult to locate in the cooperative service area. It is apparent that at least one more "outsider" must be hired to serve as bookkeeper/accounting clerk. (This is evidenced by the fact that July and August financial reports have not been prepared.)

NRECA is urging PDO-RE to continue their assistance in solving the staffing problems of this cooperative.

LAMPUNG - Sinar Siwomego Electric Cooperative

I. General

Mr. Lloyd Lake, NRECA Advisor to this cooperative since October 1979, retired this month and returned to the United States. Mr. Claude Franke is now in Lampung to replace Mr. Lake. He and his wife are residing in Tanjungkarang.

The month of August was an orientation and adjustment period for the new advisor. Since the construction program for the demonstration program is almost finished, the manager and key staff members were able to schedule briefing and get-acquainted sessions with Mr. Franke.

II. Organization/Management

--- As the initial construction program neared completion, the manager and Board of Directors reviewed the organizational structure and determined employment requirements for the interim period (present and until construction of the main project begins). A special meeting of the Board of Directors was held this month with this subject as the major agenda item. A decision on how and when to decrease the number of employees is pending.

--- Board members and the manager requested NRECA input in developing an electric rate applicable to street-lighting. When determined, the monthly charges for the fifteen street-lighting fixtures now in service will be billed through the office of the village Lurah.

--- NRECA and staff members of the accounting department of the cooperative are attempting to obtain construction material prices and to complete the pricing of all material charge and credit tickets. Labor and overhead costs for the demonstration project are being tabulated and it is expected the construction-closeout will be accomplished by October 1981.

III. Operations

--- At the end of this reporting period, approximately twelve hundred (1,200) members were receiving electric service in the demonstration project area

out of a potential of two thousand (2,000). The daily hours of operation of gen-sets increased from 5 hours to 12 hours during August.

--- kWh meters were read for the second time, bills were submitted and collection was made for the amount due from the first billing period. The cycle has now been established --- read the consumer's kWh meter on specific dates during the month --- collect payments for the previous month, all in one trip.

--- Officials of the cooperative are studying the possibility of connecting an ice plant to their electric distribution system. This plant, located near Metro, presently receives electric service from a 150 kva gen-set which is owned and operated by owners of the ice plant. Desirable features of the connection include greater utilization of the cooperatives' gen-sets during off-peak hours. Constraints include the problem of power requirements for starting large electric motors from a power supply that consists of small-size gen-sets.

IV. Problem Areas

(A) The work-load for employees in the cooperative's accounting department during this early stage of the operating period hindered financial/statistical report preparation. July and August reports had not been received at PDO-RE's Jakarta office at the time this NRECA report was prepared.

NRECA/Jakarta staff members and the NRECA project advisor will provide assistance to help the cooperative catch-up on report preparation.

LWU ELECTRIC COOPERATIVE



The temporary power plant in Bone Bone which is the source of power for the demonstration electrification project. Two USAID/furnished gen-sets, 100 kw each, are installed at present.



The electrical connection from the temporary power plant to the distribution system and segments of the 220/380 volt distribution lines along the main road in Bone Bone.

LUWU ELECTRIC COOPERATIVE



Part of the "welcoming-committee" in the main street of Bone Bone awaiting the arrival of dignitaries to the August 22, 1981 energization ceremony.



Part of the crowd in attendance at the energization ceremony seated under an improvised shelter near the temporary power plant in Bone Bone.

LWU ELECTRIC COOPERATIVE



Employees of the Cooperative who were participants in the "Line Operation and Maintenance" and the "Safety" seminars held in Bone Bone during August 1981. (NRECA training officer Louie Sansing, C.T. Main Field Supervisor R.M. Garcia and NRECA Project Advisor John DeFoor, left to right in the foreground.)



Participants in the "Safety" Training Course practicing artificial respiration at the Cooperative's warehouse facilities in Bone Bone.

LOMBOK ELECTRIC COOPERATIVE



The colorful speakers-platform erected by local officials and employees of the Cooperative for use during the energization ceremony in Kalijaga, August 14th, 1981.



Lombok Governor, Mr. Gatot Suherman, during his address at the energization ceremony.

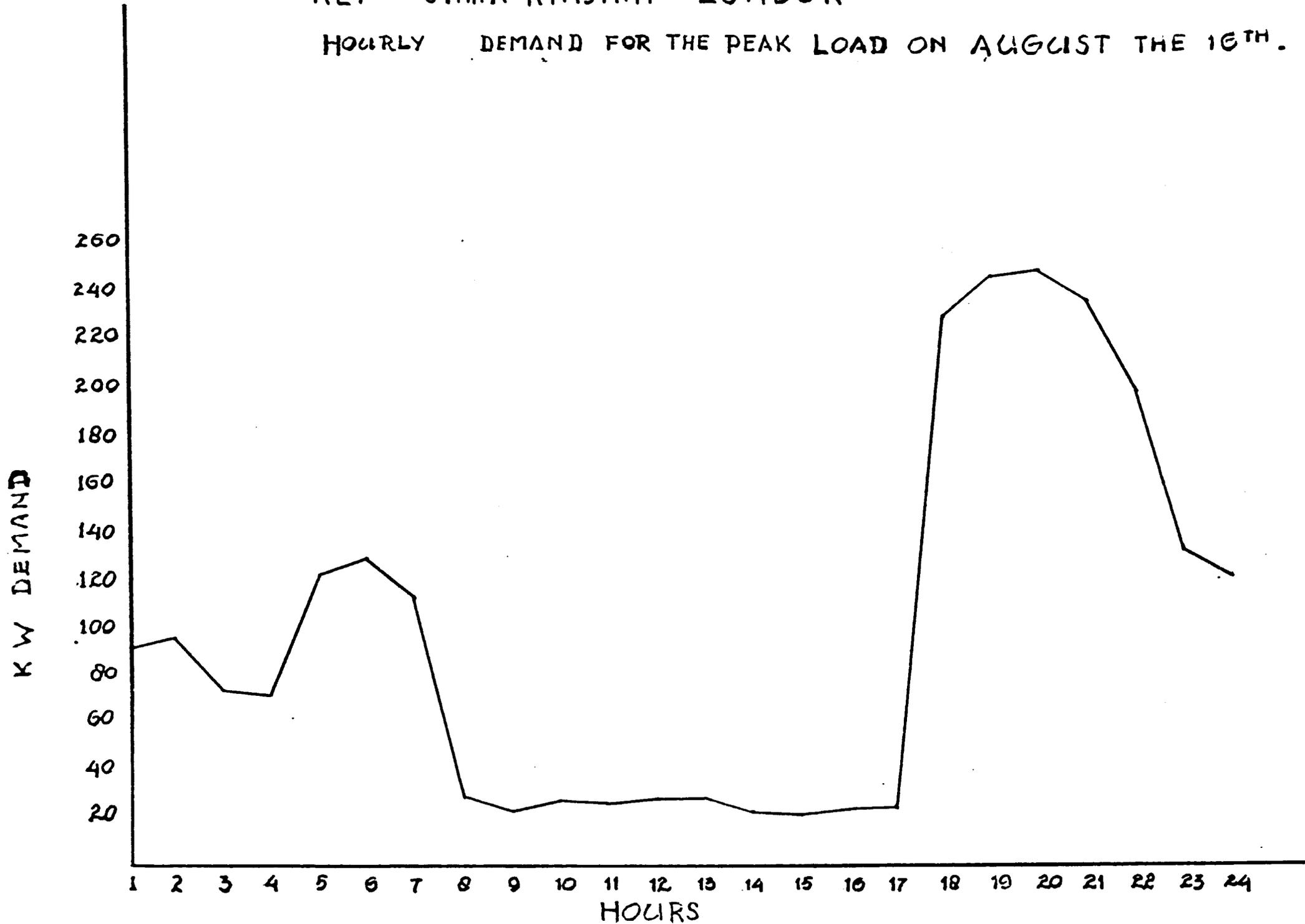
LOMBOK ELECTRIC COOPERATIVE
OPERATING STATISTICS
March - July 1981

	MAR	APR	MAY	JUN	JUL
Number consumers billed	1424	1430	1459	1485	*1489
Total revenue	Rp 2,175,465	Rp 2,145,785	Rp 2,339,065	Rp 2,435,925	Rp 2,440,000
Total kWh billed	27,518	28,106	32,349	34,596	34,743
Average revenue per consumer	Rp 1,529	Rp 1,501	Rp 1,603	Rp 1,640	Rp 1,638
Average number kWh per consumer	19.3	19.7	22.2	23.3	23.3
kWh generated	38,302	38,377	41,849	44,286	*54,050
Liters diesel fuel consumed	14,740	14,545	16,970	14,985	18,735
kWh's generated per liter	2.6	2.6	2.5	2.9	2.8
Fuel and lube oil cost	Rp 883,000	Rp 858,000	Rp 898,000	Rp 830,702	Rp 998,303
Fuel cost per kWh generated	Rp 23	Rp 22	Rp 21	Rp 19	Rp 18.5
% system losses	28%	27%	23%	22%	35%
Peak kw demand	-	-	181	183	248

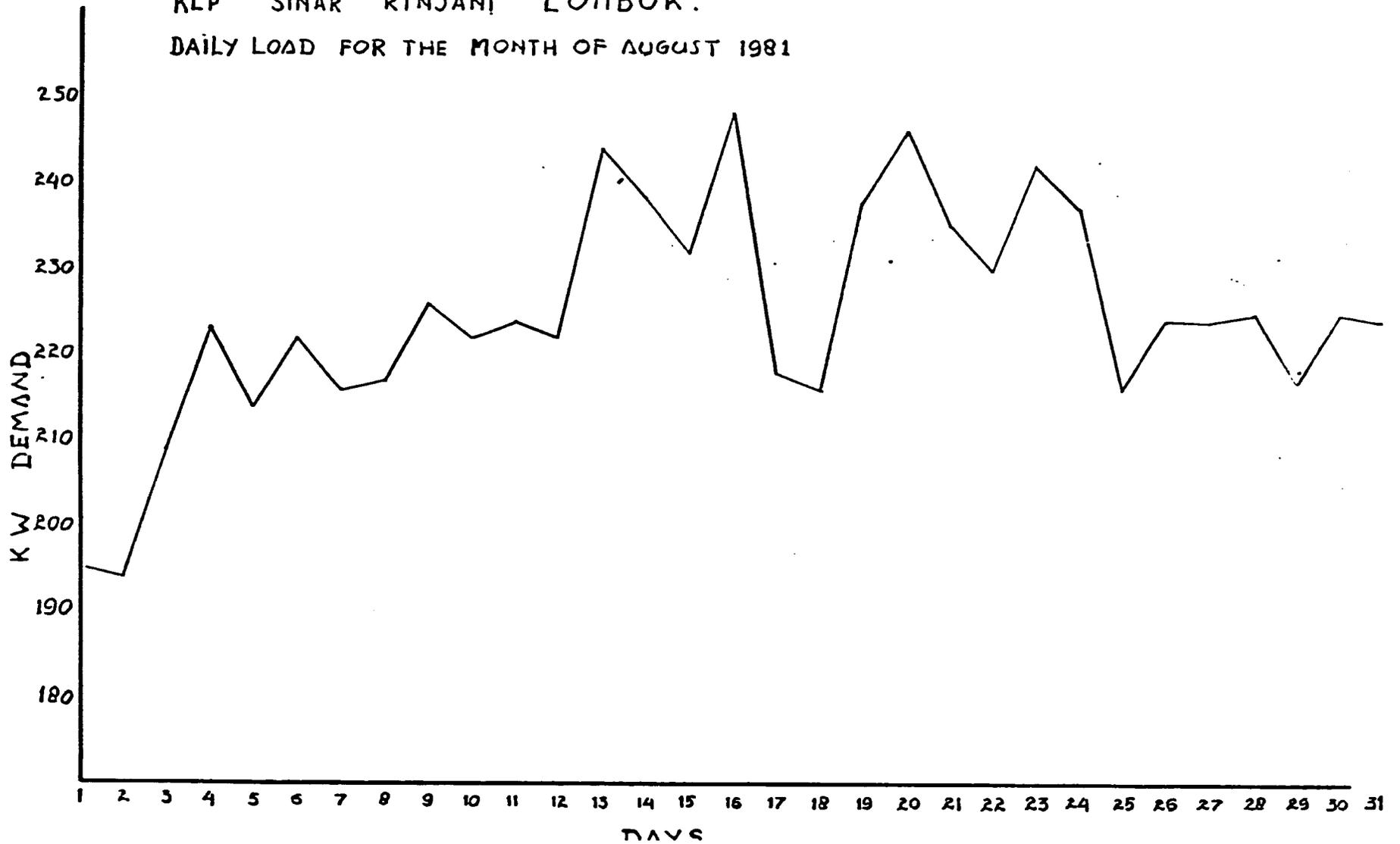
* Eighty consumers were connected in Kalijaga during July that are not included in the consumers billed. Therefore kWhs generated is relatively high, kWhs billed is low.

KLP "SINAR RINJANI" LOMBOK

HOURLY DEMAND FOR THE PEAK LOAD ON AUGUST THE 16TH.



KLP "SINAR RINJANI" LOMBOK.
DAILY LOAD FOR THE MONTH OF AUGUST 1981



PDO - R E OUTER ISLANDS
COOPERATIVE TRAINING COURSE SCHEDULE

21-1

NAEC

NO.	TITLE	TARGET DATE IMPLEMENTATION PLAN	COURSE DURATION	1
200	COOPERATIVE MANAGEMENT	MAY 1979	30 hrs.	Ⓝ
205	RMSS TRAINING	JUNE 1979	30 hrs.	
206	ACCOUNTING - REPORTING	JUNE 1979	40 hrs.	
210	STAFF ORIENTATION	AUGUST 1979	20 hrs.	
220	TRAINERS TRAINING (CONSTRUCTION)	OCT/NOV 1979	200 hrs.	
230	TRAINERS TRAINING (HOUSEWIRING)	NOV/DEC 1979	40 hrs.	
240	LINEMAN'S TRAINING	JAN/FEB 1980	200 hrs.	
250	ELECTRICIAN TRAINING	JAN/FEB 1980	40 hrs.	
260	PRODUCTIVE USE SPECIALIST	MARCH 1980	60 hrs.	
300	MATERIAL LOGISTICS	JANUARY 1980	40 hrs.	
310	ACCOUNTING - REPORTING	FEBRUARY 1980	40 hrs.	
320	ELECTRICAL APPARATUS	MARCH 1980	80 hrs.	
330	ENGINEERING	MAR/APR 1980	40 hrs.	
340	METER READING	JULY 1980	40 hrs.	
350	OPERATIONS MAINTENANCE	SEPTEMBER 1980	60 hrs.	
360	ACCOUNTING - REPORTING	NOVEMBER 1980	40 hrs.	
370	WORK ORDER CONTROL	JANUARY 1981	40 hrs.	
380	SUPERVISORY SKILL	FEBRUARY 1981	15 hrs.	
390	SAFETY TRAINING	MARCH 1981	15 hrs.	
400	INFORMATION SEMINAR	MARCH 1981	16 hrs.	
410	LINE MAINTENANCE	APRIL 1981	16 hrs.	
	POWER PLANT OPERATORS**			
	SERVICE DROPS**			
320*	REPEAT COURSE			
330*	REPEAT COURSE			
380*	REPEAT COURSE			
390*	REPEAT COURSE			

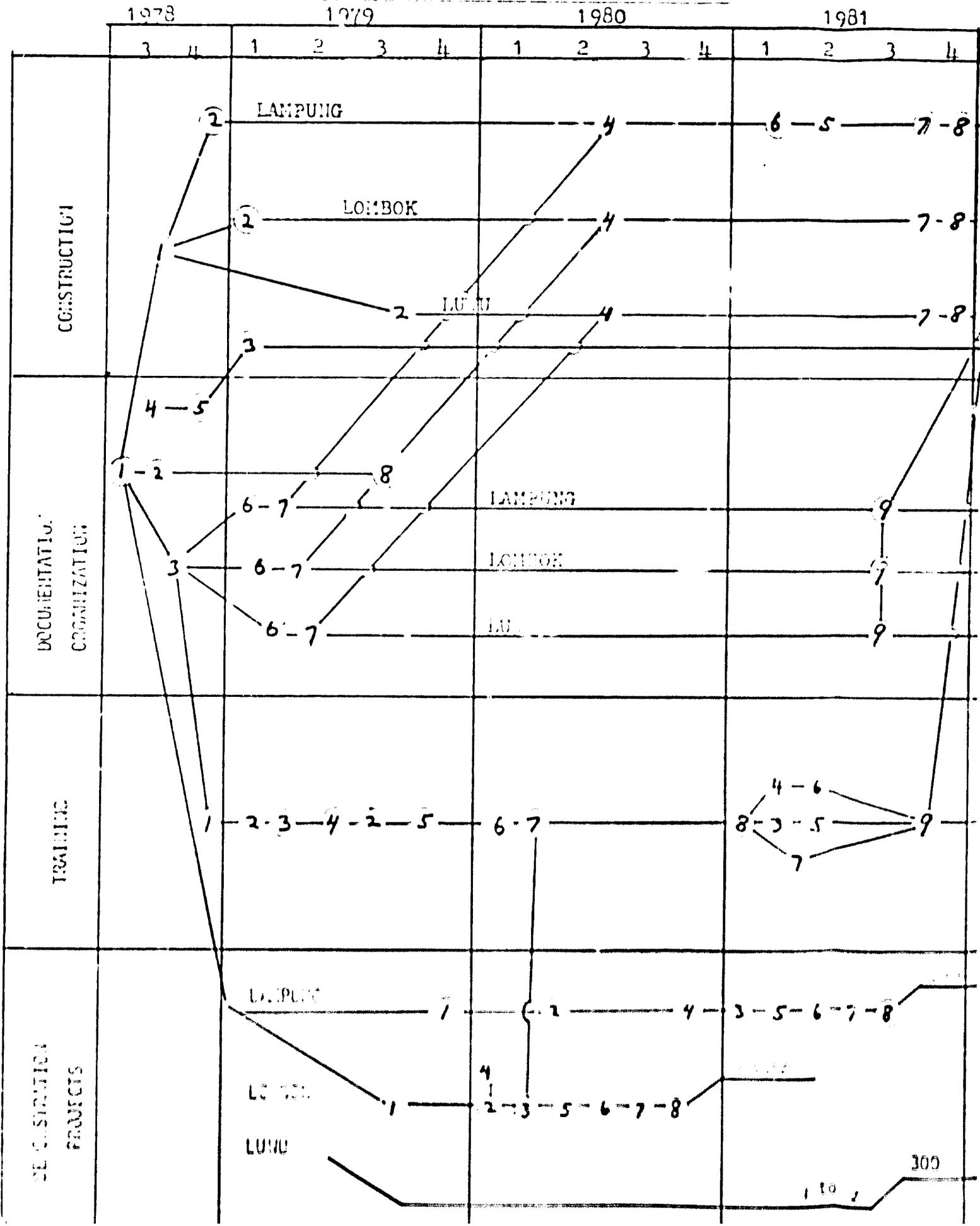
* Repeat courses as needed

** Course added

Course completed and number of people trained ○

Courses scheduled ○

2-1



ON

22-3

-
- . A/E CONTRACT SIGNED
 - 2. A/E STARTS DESIGN WORK
 - 3. CIDA CONSULTANT STARTS DESIGN
 - . MAJOR PROCUREMENT & OBLIGATION DOCUMENTS PROCESSED
 - 5. START HEADQUARTERS CONSTRUCTION
 - . START SYSTEM CONSTRUCTION
 - ' . COMPLETE HEADQUARTERS CONSTRUCTION
 - . INTERIM GENERATORS INSTALLED
 - ' . MEMBER ENERGIZATION
 - . CANADIAN GENERATOR INSTALLED
 - . CUSTOMER CONNECTIONS

-
- . GRANT AGREEMENT SIGNED
 - . LOAN AGREEMENT SIGNED
 - . NRECA CONTRACT SIGNED
 - . CIDA LOAN FOR GENERATORS SIGNED
 - . CIDA GRANT SIGNED
 - . START ORGANIZING COOPS
 - . INTERIM BOARD APPOINTED
 - . CONDITIONS PRECEDENT MET
 - . INTERIM AREA MEMBERSHIP DRIVE
 - . MAJOR MEMBERSHIP DRIVE INITIATED
 - . PERMANENT COOPERATIVE BOARD ELECTED

-
- . PDO ADMINISTRATION
 - . COOPERATIVE MANAGEMENT
 - . RURAL MEMBER SERVICE SPECIALIST
 - . ACCOUNTING
 - . HOUSEWIRING
 - . MATERIAL LOGISTICS & CONTROL
 - . OPERATIONS - MAINTENANCE - CONSTRUCTION
 - . START TRAINING PHASE
 - . COMPLETE TRAINING PHASE

DESIGN BEGINS
IFB ISSUED
CONSTRUCTION BEGINS
HOUSE WIRING STARTS
GENERATORS INSTALLED
PROJECT ENERGIZED
CONSTRUCTION ENDS
CUSTOMER CONNECTIONS

Summary of Expenditures

National Rural Electrification Cooperative Association
1800 Massachusetts Ave., N.W.
Washington, D.C. 20036

AID/ASIA - C 1347
Date: June, 1981
Period of contract: 8/25/78 - 8/25/82

	Budget	Total Expense To Date	Prior Billings	Current Billings
Salaries - Field	\$ 374,520	\$ 643,099.80	\$ 620,895.82	\$ 22,203.78
Salaries - Home	140,050	108,017.35	105,819.24	2,198.11
Fringe Benefits	256,664	240,184.83	233,852.54	6,322.29
Consultant Fees	95,800	33,906.25	33,966.25	
Allowances	366,145	244,523.91	235,718.23	8,805.68
Travel and Transportation	310,000	221,262.25	213,220.37	8,041.88
Other Direct Costs	125,900	74,511.56	70,773.79	3,737.77
Overhead	225,000	171,946.01	166,333.52	5,612.49
Equipment and Materials	15,000	18,392.51	15,705.27	2,687.24
TOTAL	\$ 2,410,000	\$ 1,755,844.47	\$ 696,225.03	\$ 59,619.44

PERSON-MONTHS BY POSITION, NRECA CONSULTANT TEAM

POSITION	PRESENTLY FILLED BY	CONTRACT PERSON-MONTHS	EXPENDED THIS PERIOD	EXPENDED THROUGH AUGUST	PERCENT OF CONTRACT
Team Leader	Peter McNeill	36	1	35	97
Training Officer	Louie Sansing	36	1	31	86
Administrative Officer	Ray Shoff	19	1	22	115
PLN Advisor	Sam Adkins	42	1	30	71
Lampung Advisor	Claude Franke	44	1	35	79
Lombok Advisor	Paul Swanson	44	1	31	70
Luwu Advisor	John DeFoor	44	1	30	68
Short-term Advisors		27	0	18	66
Consultants		31	0	0	0
		323	7	232	71

RURAL ELECTRIFICATION COOPERATIVE PROJECT SITES

