REPUBLIC OF THE PHILIPPINES

NATIONAL POWER CORPORATION

(Pambansang Korporasyon sa Elektrisidad)

BID DOCUMENTS

Name of Project : **SUPPLY AND DELIVERY OF RENEWABLE ENERGY FOR THE HYBRIDIZATION OF DIESEL POWER PLANTS UNDER SCHEDULE IV CLUSTER 10-TAWI-TAWI**

PR No. : **HO-PMD25-004**

Contents:

SECTION II – INSTRUCTIONS TO BIDDERS

TABLE OF CONTENTS

SECTION II – INSTRUCTIONS TO BIDDERS

1. Scope of Bid

The **National Power Corporation** wishes to receive Bids for the **SUPPLY AND DELIVERY OF RENEWABLE ENERGY FOR THE HYBRIDIZATION OF DIESEL POWER PLANTS UNDER SCHEDULE IV (CLUSTER 10-TAWI-TAWI), with PR No. HO-PMD25-004.**

The Procurement Project (referred to herein as "Project") is composed of supply of energy from RE facilities in one cluster, the details of which are described in **Section VII** (Technical Specifications).

2. Funding Information

2.1 The GOP through the source of funding as indicated below for 2027 to 2047 in the total amount of Php740,000,000.00 for the 20-year period O&M of the RE Facility.

2.2 The source of funding is the Corporate Operating Budget of NPC.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof,

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or Notice of Eligibility & Shortlisting (NES) by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's, CPI must be at least equivalent to:

a. For the procurement of Non- expendable Supplies and Services: The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

7. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address {[insert if applicable] and/or through videoconferencing/webcam as indicated in Notice of Eligibility & Shortlisting.

8. Clarification and Amendment of Bidding Documents

Prospective may request clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

9. Documents Comprising the Bid: Eligibility and Technical Components

9.1 The first envelope shall contain the eligibility and technical documents of the Bid as specified in Section VIII (Checklist of Technical and Financial Documents).

9.2 The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within twenty (20) years prior to the deadline for the submission and receipt of bids.

9.3 If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

10. Documents comprising the Bid: Financial Component

10.1 The second bid envelope shall contain the financial documents for the Bid as specified in Section VIII (Checklist of Technical and Financial Documents).

10.2 If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.

10.3 Any bid exceeding the ABC or SAGR cap for the cluster as indicated in Item 2 of the **NES** shall not be accepted.

10.4 For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

11. Bid Prices

11.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:

a. For Goods offered from within the Procuring Entity's country:

i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);

ii. The cost of all customs duties and sales and other taxes already paid or payable;

iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and

iv. The price of other (incidental) services, if any, listed in the **BDS.**

b. For Goods offered from abroad:

i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.

ii. The price of other (incidental) services, if any, as listed in the **BDS.**

12. Bid and Payment Currencies

12.1 For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2 Payment of the contract price shall be made in:

a. Philippine Pesos.

13. Bid Security

13.1 The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the BDS, which shall be not less than the percentage of the ABC in accordance with the SCHEDULE IVn the BDS.

13.2 The Bid and bid security shall be valid for **One Hundred Twenty (120) calendar** days from the date of opening of bids. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

14. Sealing and Marking of Bids

Each Bidder shall submit Two (2) copies of the first and second components of its Bid, marked **Original** and photocopy. Only the original copy will be read and considered for the bid.

Any misplaced document outside of the **Original** copy will not be considered. The photocopy is ONLY FOR REFERENCE.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

15. Deadline for Submission of Bids

15.1. The Bidders shall submit on the specified date and time and either at its physical address as indicated in **NES.**

16. Opening and Preliminary Examination of Bids

16.1 The BAC shall open the Bids in public at the time, on the date, and at the place specified in **NES**. The Bidders' representatives who are present shall sign a register evidencing their attendance.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

16.2 The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

17. Domestic Preference

17.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

18. Detailed Evaluation and Comparison of Bids

18.1 The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.

18.2 If the Project allows partial bids, bidders may submit a proposal on any of the clusters/lots or plants/items, and evaluation will be undertaken on a per cluster/lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 14 shall be submitted for each cluster/lot or item separately.

18.3 The descriptions of the clusters/lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these clusters/lots or plants/items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the clusters/lots or items participated in by the prospective Bidder

18.4 The Project having several plants/items shall be awarded as One Contract.

18.5 Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the clusters/lots or plants/items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the clusters/lots or plants/items participated in by the prospective Bidder.

19. Post-Qualification

19.1 Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

20. Signing of the Contract

20.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

SECTION III - BID DATA SHEET

ITB Clause	
5.1	Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
5.2	Foreign ownership limited to those allowed under the rules may participate in this Project.
5.3	For this purpose, contracts similar to the Project shall comply with at least 50% of the ABC either through Option A or through Option B: A) Completed Contract/Agreement for any of the following: 1. Supply of energy from any type of power plant; 2. Construction of any type of power plant with on-going PSA/ PPA; B) Two (2) similar contracts with an aggregate contract amount of at least 50% of the ABC 1. One (1) completed PSA/ PPA or Completed Construction of Any Power Plant Contract (with ongoing PSA/ PPA) with an amount of at least 25% of the ABC; 2. One (1) ongoing contract (PSA/ PPA of RE Facility only) with completed portion amounting to at least 25% of the ABC, provided that the RE facility is operationalized, and a certificate of satisfactory performance has been issued by the concerned Procuring Entity. It shall be a ground for disqualification if verification and validation cannot be conducted for reasons attributable to the Bidder.
19.1	The bid evaluation will be undertaken as follows: 1. The technical and financial offers shall be evaluated as to completeness of information and conformance with specified requirements. Non-compliance is a ground for disqualification of bid. 2. The Tariff Rate offer that exceeds the set SAGR and/ or the computed Contract Amount that exceeds the ABC shall be disqualified. 3. Subject to Section 32 of RA 9184 IRR, the basis of ranking of the complying bids will be computed using the formula below in reference to Section 7, Part II: Technical Data Sheet, and Section 8, Bidding Forms, Schedule of Prices: $\mathbf{AGCD = (NPC\ RATE\ CAP)\ (AG_{REPP}) - (CAGC_{CORRECTED})}$ $\mathbf{CAGC_{CORRECTED} = TR \times AG_{REPP}}$

	Where: **AGCD** – Annual Generation Cost Difference **NPC RATE CAP** – Subsidized Approved Generation Rate in the area/ cluster $\mathbf{CAGC_{CORRECTED}}$ – Computed Annual Generation Cost as corrected **TR** – Tariff Rate Offered $\mathbf{AG_{REPP}}$ – Annual Generation committed by the REPP $\mathbf{AG_{REPP} = AG_{PLANT1} + AG_{PLANT2} + \ldots + AG_{PLANTn}}$ $\mathbf{AG_{PLANT}}$ – Annual Generation per Plant Note: $\mathbf{AG_{PLANT}}$ lower than the minimum annual generation requirement of NPC OR higher than the product of REPP's committed Capacity and Availability multiplied by 365 days will be grounds for disqualification. The Highest Rated Bid (HRB) will be the bid offer that will maximize the benefit to NPC which is the highest computed value of AGCD. In the event that the TR will be equal to the NPC Rate Cap, the HRB will be based on the highest AG_{REPP}.
19.2	Partial bid is not allowed. The diesel power plants are grouped into clusters which shall not be divided into sub-clusters for the purpose of bidding, evaluation, and contract award.
19.3	The NFCC will be computed based on the 2-year construction cost or the total capital investment for the renewable energy facility, instead of the ABC of the Project. The NFCC must be sufficient for the total construction cost for the cluster participated in by the prospective Bidder
19.4	The project will be awarded per cluster specifying the components per plant.
19.5	Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to GPPB Resolution No. 01-2024, which must be sufficient for the Two (2) Year construction cost of the RE facility for all the cluster/s participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the RE facility construction cost for the cluster/s participated in by the prospective Bidder.
20.2	Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the HRB, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law such as RE Service Contract, Certificate of Compliance (COC), and other Government Permits.

21.1	The RE Power Purchase Agreement (REPPA) is the equivalent of the contract agreement as prescribed by the IRR of RA 9184 under Section 37.2.

SECTION IV – GENERAL CONDITIONS

TABLE OF CONTENTS

CLAUSE NO. **TITLE** **PAGE NO.**

SECTION IV – GENERAL CONDITIONS

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the Special Conditions of Contract (SCC).

2. Advance Payment and Terms of Payment

2.1 Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.

2.2 The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated.

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC**, **Section VII (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify

the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

5.1 In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.

5.2 The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

SECTION V – SPECIAL CONDITIONS OF THE CONTRACT

GCC Clause	
1	**Delivery and Documents –** Delivery of Services shall be made by the Renewable Energy Power Provider (REPP) in accordance with the terms specified in Section VI – Schedule of Requirements and Schedule VI - Technical Specifications. The details of documents to be furnished by the REPP are as follows: (i) Copy of system design plans, drawings and schematic diagrams for NPC's reference; (ii) Summary of the REPP's installed RE facility equipment, parts and appurtenances; (iii) Copy of REPP's factory test/ inspection report particularly for the metering facility; (iv) Copy of the certification from ERC of the energy meter and calibration record; (v) Copy of Testing, Commissioning, and Final Inspection Report; and (vi) Documents specified in the Technical Specifications, if any. For purposes of this Clause the Procuring Entity's Representative during the Construction stage are as follows: 1) Technical Staff from the Office of the President and Chief Executive Officer (OPCEO), 2) The Functional Group Head of the Power Engineering Services. The Functional Group Head of SPUG will be the representative of NPC during the Operation stage. **Incidental Services –** The REPP is required to provide other services as necessary in addition to those specified in Section VI – Schedule of Requirements. **Spare Parts –** Availability of spare parts of the RE Facility shall be the responsibility of the REPP. The REPP shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Services for the contract period specified in the Technical Specifications. Spare parts or components shall be supplied as promptly as possible. **Contract Period –** The Contract Period for the Supply and Delivery of Renewable Energy for the Hybridization of Diesel Power Plants under Schedule IV (Cluster 10 – Tawi-Tawi) is Twenty-Two (22) Years covering the two (2) years pre-construction

<table>
<tr><td></td><td>and construction and twenty (20) years plant operation or upon exhaustion of contract amount whichever is earlier, reckoned from the first day of its commercial operation.</td></tr>
<tr><td>2.1</td><td>Not Applicable</td></tr>
<tr><td>2.2</td><td>Delivery of energy under the contract will be paid monthly based on billing submitted by the supplier and the records of energy generation. The monthly energy shortfall with corresponding penalty will be reconciled annually.</td></tr>
<tr><td>3</td><td>1. To secure the REPP's obligation and commitment to design, develop, construct, and operate the RE facility under the REPPA, the REPP must post a Development and Construction Performance Security which shall be based on Appendix E, and Operation Performance Security based on Item 3 below.

2. The following must be indicated in the performance security to be posted by the Supplier:

i. Company Name
ii. Correct amount of the Bond
iii. Contract/Purchase Order Reference Number
iv. Purpose of the Bond:
"To guarantee the faithful performance of the Principal's obligation to undertake (Contract/Purchase Order Description) in accordance with the terms and conditions of (Contract No. & Schedule/Purchase Order No.) entered into by the parties."

3. To guarantee the faithful performance by the winning bidder of its obligations under the contract in accordance with the Bidding Documents, it shall post a performance security prior to the signing of the contract.

The Operation Performance Security shall be in an amount not less than the required percentage of the total contract price in accordance with the following schedule.

<table>
<tr><th>Form of Operation Performance Security</th><th>Amount of Performance Security (Not less than the required percentage of the Total Contract Price)</th></tr>
<tr><td>a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank.</td><td rowspan="2">Five percent (5%)</td></tr>
<tr><td>b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.</td></tr>
</table>
</td></tr>
</table>

	c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Thirty percent (30%)

4. In case of surety bond, any extension of the contract duration or delivery period granted to the SUPPLIER shall be considered as given, and any modification of the contract shall be considered as authorized, as if with the expressed consent of the surety, provided that such extension or modifications falls within the effective period of the said surety bond. However, in the event that the extension of the contract duration or delivery schedule would be beyond the effective period of the surety bond first posted, it shall be the sole obligation of the SUPPLIER to post an acceptable Performance Security within ten (10) calendar days after the contract duration/delivery period extension has been granted by NPC.

5. Other required conditions in addition to the standard policy terms issued by the Bonding Company:

   i. The bond is a penal bond, callable on demand and the entire amount thereof shall be forfeited in favor of the Obligee upon default of the Principal without the need to prove or to show grounds or reasons for demand for the sum specified therein;

   ii. The amount claimed by the Obligee under this bond shall be paid in full and shall never be subject to any adjustment by the Surety;

   iii. In case of claim, the Surety shall pay such claim within sixty (60) days from receipt by the Surety of the Obligee's notice of claim/demand letter notwithstanding any objection thereto by the Principal.

6. The Development and Construction Performance Security shall be valid until the committed Commercial Operation Start Date (COSD) indicated in the REPPA while the Operation Performance Security shall be for a 20-year contract period.

4	NPC to participate on the following: 1. Conduct of Test and Commissioning of the necessary Communication and Interface Systems for Synchronization and Protection of the RE facility to be interconnected with NPC's diesel power plant to verify compliance with the different construction codes and standard. 2. Inspection and test for the metering facility.
5	Not Applicable
6	In the event of inexcusable delay in the committed Commercial Operation Start Date (COSD) of the RE facility, Liquidated Damage shall be imposed in accordance with RA 9184 as shown in the following formula:

	LD = 1/10 {0.01 [(Offered Annual Generation in kWh/365) (Bid Price Offer in Php/kWh) (No. of days delayed)]} Shortfall from the Offered Annual Generation, except those caused by Forced Majeure, shall be subject to Penalty Charges computed monthly and reconciled at the end of the year as shown on the formula below: P = M(Jan) + M(Feb) + M(Mar) + . . . + M(Dec) Where: P = Yearly Penalty to be imposed to REPP due to shortfall on Generated Electricity M = Computed Monthly Penalty = (MC - MA) x FR x D MC = Committed Energy (kwh) for the Month MA = Actual Generated Energy (kwh) for the Month FR = Fuel Rate at 0.30 Liters/kwh D = Peso per Liter Cost of Diesel for the Month Note: Penalties shall be imposed to recover the cost incurred by NPC in lieu of the shortfall. Shortfall due to insufficiency or absence of RE source like solar, water, wind, etc., is not force majeure and shall be subject to the imposition of Penalty Charges. Force Majeure is an extraordinary event which cannot be foreseen or which though foreseen, cannot be avoided. The event must render it impossible for a Party to fulfill its obligation in a normal manner despite the exercise of due care. Force Majeure shall only be limited to a storm, typhoon, lightning, flood, drought, earthquake, tsunami, fire, war, rebellion, insurrection, riot, naval or other blockade, labor disturbance, civil unrest, and other analogous circumstances natural or man-made. For the avoidance of doubt, force majeure does not include absence or limited RE resources like sunlight, wind, water, etc. that limits energy production.

SECTION VI – SCHEDULE OF REQUIREMENTS

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item Number	Description	Quantity	Total	Delivered, Weeks/Months
1.	Financing, Pre-Construction, and Construction of RE Facility	per plant site	7	Maximum of two (2) years from Notice to Proceed
2.	Operation and Maintenance of RE Facility	per plant site	7	Twenty (20) years from Commercial Operation Start Date
3.	Training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in start-up, operation, maintenance, and/or repair of the RE Facility.	per plant site	7	Prior to Commercial Operation of the RE Facility

SECTION VII – PART I: TECHNICAL SPECIFICATIONS

SECTION VII - PART I: TECHNICAL SPECIFICATIONS

TS 1.0 PROJECT DESCRIPTION

This specification covers the general technical and associated requirements for the Supply and Delivery of Renewable Energy for the Hybridization of Diesel Power Plants under Schedule IV (CLUSTER 10 - TAWI-TAWI).

The Generating Facility shall utilize any of the following Renewable Energy Resources:

a. Biofuel
b. Biomass
c. Geothermal
d. Solar + BESS
e. Water (Hydro or Tidal + BESS)
f. Wind + BESS
g. Hybrid

The Generating Capacity of the Renewable Energy facility shall be determined by the REPP based on the Load Curve/Demand profiles of the TAWI-TAWI Area.

TS 2.0 PROJECT LOCATION

The Supply and Delivery of Renewable Energy for the Hybridization of Diesel Power Plants under Schedule IV (CLUSTER 10 - TAWI-TAWI) can be referred to Appendix B: Cluster Location Map.

TS 3.0 CONNECTION POINT

Connection point shall be at the NPC assigned delivery/ tapping/ metering point where the Billing Meter will be installed. Interconnection assets shall be included in the scope of work to be provided by the REPP.

TS4.0 PROJECT DEVELOPMENT DURATION

Delivery Period/ Commercial Operation shall be twenty-four (24) months or earlier reckoned from the receipt of the Notice to Proceed by the winning bidder.

TS 5.0 CONTRACT PERIOD

The Contract Period for the Supply and Delivery of Renewable Energy for the Hybridization of Diesel Power Plants under **Schedule IV (CLUSTER 10 - TAWI-TAWI)** is Twenty-Two (22) Years covering the two (2) years pre-construction and construction and twenty (20) years

plant operation or upon exhaustion of contract amount whichever is earlier, reckoned from the first day of its commercial operation.

TS 6.0 SCOPE OF WORKS

TS 6.1 GENERAL

The scope of works shall cover the Supply and Delivery of Renewable Energy for the Hybridization of Diesel Power Plants under Schedule IV (CLUSTER 10 –TAWI-TAWI).

The Supplier's scope of works under this Contract shall generally consist of provisions stipulated hereunder.

TS 6.2 PRE-CONSTRUCTION ACTIVITIES

a. Project financing, site investigation, selection and survey, acquisition of Site/Right of Way, and securing of possessory rights for the land (lease maybe an option);

b. Securing all necessary permits and licenses including but not limited to Environmental Compliance Certificate (ECC)/Certificate of Non-Coverage (CNC), Permit to Operate (PTO) Wastewater Discharge Permit (WDP), Hazardous Waste Generator Registration Certificate (HWGR Cert./HW ID), Chemical Control Order for PCB Registration (CCO-PCB Reg.), from Department of Environmental and Natural Resources – Environmental Management Bureau (DENR – EMB), Water Permit from National Water Resources Board (NWRB), Renewable Energy Service Contract (RESC) from Department of Energy (DOE), Certificate of Endorsement (COE) from DOE, Certificate of Compliance (COC) from Energy Regulatory Board (ERC), and other permits/ not specifically mentioned herein but necessary for the construction and operation of the facility;

c. Design of the whole system including the Renewable Energy Facility, Battery Energy Storage System (BESS), 13.8 kV Tie Line and all necessary communication and Energy Management or Interface Systems for Synchronization and Protection of existing NPC assets to meet the demand during the operation of the RE facility in the island grids including the charging of the BESS, as necessary, in coordination with the Distribution Utilities/ Electric Cooperatives and NPC SPUG. Option of installing solar facilities at the rooftops of buildings shall also be explored/considered in the study/design.

TS 6.3 CONSTRUCTION OF RE GENERATING FACILITY

a. Supply, delivery, construction, installation, test and commissioning of the Renewable Energy Facility including all the interconnecting

assets and necessary appurtenances for the safe and proper operation and maintenance of the said facility;

b. Supply, delivery, installation, test and commissioning of BESS (solar, wind, tidal) to allow the diesel generator sets to ramp up and synchronize during the switch of operation from the renewable energy facility to the diesel generator sets and vice versa.

c. Compliance with different construction codes and standards to ensure system safety and protection of NPC's diesel power plant where the RE facility will be interconnected;

d. Supply, delivery, installation, test and commissioning of metering facilities. The Kilowatt-hour Meter must be certified and approved by ERC and be guided by the provided specifications particularly for 13.8kV three phase kilowatt-hour meter including instrument transformer and accessories for the metering facility:

ITEM	DESCRIPTION	SPECIFICATION
1	Number of Wires	4
2	Voltage, V	120-480
3	Accuracy class	0.2s
4	Frequency, Hz	60
5	Register Type	LCD
6	Soft Switches	Available
7	LCD Display	Programmable
8	Communication Port for Kilowatt-hour meter	To be Provided
9	Meter Test Block	
	a. No. of Poles	10 (4 Voltage & 6 Current Terminals)
	b. Rated Voltage, V	600
	c. Equipment Standard	ANSI C12.9
	d. Test Block Cover	Required
11	Metering Current Transformer	
	a. Application (Indoor/Outdoor)	Outdoor
	b. Insulation type	Full cast epoxy resin
	c. Primary rated current, A	20
	d. Secondary rated current for all windings, A	5
	e. No. of cores	One (1) core Secondary CT
	f. CT ratio	20:5
	g. Burden	45

ITEM	DESCRIPTION	SPECIFICATION
	h. BIL, kV	110
12	Metering Voltage Transformer	
	a. Application (Indoor/Outdoor)	Outdoor
	b. Highest continuous operating voltage, kV	15
	c. Nominal voltage, kV	8.4
	d. Rated secondary voltage, V	120
	e. Insulation type	Full cast epoxy resin
	f. PT ratio	70:1
	g. Burden	75
	h. BIL, kV	110
13	Meter Housing/ Enclosure	
	a. Material	Stainless Steel
	b. Dimension (LxWxH)	16" x 12" x 22" (Front Height) & 24"(Rear Height)
	c. Display/Viewing Window	Required

The 13.8kV Three Phase Kilowatt-Hour Meter shall have but not limited to the following features:

1. Pilferage proof
2. Tamper Proof
3. Wrong Wiring Alarm
4. Can withstand the temperature of -20°C to +70°C and Humidity of up to 95% non-condensing
5. With back light display
6. With built-in battery for LCD display and back-up battery
7. TOU Programmable Ready
8. Measure display (Delivered and Received Energy, RMS voltage & current per phase, Reactive & Apparent Power, Power factor, Frequency and etc.)

The 13.8kV three phase kilowatt-hour meter and its required metering instruments shall be pole mounted with stainless steel bracket, bolts, etc.

TS 6.4 OPERATION AND MAINTENANCE OF THE RE GENERATING FACILITY

This will involve the capability of the RE facility with BESS for stand-alone operation during its availability period and synchronization with NPC's diesel power plant during transition from RE source to Diesel Power and vice versa, and maintenance activities. Parallel operation for

both REPP's RE Facility and NPC's diesel power plant shall be implemented whenever necessary.

TS 7.0 PROCURING ENTITY'S (NPC) PARTICIPATION

During the Contract Period, NPC shall monitor the operations of the Renewable Energy Facility. NPC shall have the authority to restrict the dispatch of power or disconnect the REPP Facility in the event that the REPP exceeds the demand or oversupply of energy from its existing generating assets.

During the development period, NPC shall:

- Monitor the project;
- Allow REPP's access to NPC SPUG Plant/s;
- Provide assistance through best efforts in TS 6.2 (a) and (b) like provision of required data/ information, assistance during site selection/ investigation, and in securing permits/ licenses; and
- Witness the conduct of Testing and Commissioning, Final Inspection of the RE facility, and attest to its successful commissioning.

TS 8.0 ADDITIONAL DOCUMENTS TO BE SUBMITTED DURING POST-QUALIFICATION

1) Technical Simulation of energy output for confirmation of the corresponding offer on the Technical Data Sheet must be available and submitted for verification during post qualification. Non-submission will be ground for post disqualification.

2) List of Plant Operating Parameters minimum requirements

TS 9.0 PAYMENT

Payment shall be based on the monthly billing for the delivered renewable energy (kWh) at the Delivery Point and based on the Bid Price Offer (Php per kWh) in Section VIII – Bidding Forms, Schedule of Prices of the Bid Document.

SECTION VII – PART II: TECHNICAL DATA SHEET

Contract Area / Cluster No.: TAWI-TAWI - 10			
ITEM	**DESCRIPTION**	**NPC REQUIREMENTS**	**SUPPLIER'S DATA**
Plant: MAPUN DPP			
1.0	RE Type	By Supplier	
2.0	Capacity* (kW in AC)	By Supplier	
3.0	BESS (kWh), as applicable	At least 25% of Item 2.0	
4.0	Availability, (PCF or Annual Daily Average in Hours)	16% or 3.8 Hours (minimum)	
5.0	Annual Generation (AG_{PLANT1})	531,835 kWh (minimum)	
6.0	Commercial Operation Start Date (COSD)	2 years or earlier	
Plant: BALIMBING DPP			
1.0	RE Type	By Supplier	
2.0	Capacity* (kW in AC)	By Supplier	
3.0	BESS (kWh), as applicable	At least 25% of Item 2.0	
4.0	Availability, (PCF or Annual Daily Average in Hours)	16% or 3.8 Hours (minimum)	
5.0	Annual Generation (AG_{PLANT2})	357,954 kWh (minimum)	
6.0	Commercial Operation Start Date (COSD)	2 years or earlier	
Plant: LANGUYAN DPP			
1.0	RE Type	By Supplier	
2.0	Capacity* (kW in AC)	By Supplier	
3.0	BESS (kWh), as applicable	At least 25% of Item 2.0	
4.0	Availability, (PCF or Annual Daily Average in Hours)	16% or 3.8 Hours (minimum)	
5.0	Annual Generation (AG_{PLANT3})	138,026 kWh (minimum)	
6.0	Commercial Operation Start Date (COSD)	2 years or earlier	
Plant: MANUK MANGKAW DPP			
1.0	RE Type	By Supplier	
2.0	Capacity* (kW in AC)	By Supplier	
3.0	BESS (kWh), as applicable	At least 25% of Item 2.0	
4.0	Availability, (PCF or Annual Daily Average in Hours)	16% or 3.8 Hours (minimum)	
5.0	Annual Generation (AG_{PLANT4})	134,250 kWh (minimum)	
6.0	Commercial Operation Start Date (COSD)	2 years or earlier	

Name of Firm | Name & Signature of Representative | Designation

Contract Area / Cluster No.: TAWI-TAWI - 10		
DESCRIPTION	**NPC REQUIREMENTS**	**SUPPLIER'S DATA**
Plant: WEST SIMUNUL DPP		
RE Type	By Supplier	
Capacity* (kW in AC)	By Supplier	
BESS (kWh), as applicable	At least 25% of Item 2.0	
Availability, (PCF or Annual Daily Average in Hours)	16% or 3.8 Hours (minimum)	
Annual Generation (AG_{PLANT5})	462,845 kWh (minimum)	
Commercial Operation Start Date (COSD)	2 years or earlier	
Plant: TANDUBAS DPP		
RE Type	By Supplier	
Capacity* (kW in AC)	By Supplier	
BESS (kWh), as applicable	At least 25% of Item 2.0	
Availability, (PCF or Annual Daily Average in Hours)	16% or 3.8 Hours (minimum)	
Annual Generation (AG_{PLANT6})	313,695 kWh (minimum)	
Commercial Operation Start Date (COSD)	2 years or earlier	
Plant: SIBUTU DPP		
RE Type	By Supplier	
Capacity* (kW in AC)	By Supplier	
BESS (kWh), as applicable	At least 25% of Item 2.0	
Availability, (PCF or Annual Daily Average in Hours)	16% or 3.8 Hours (minimum)	
Annual Generation (AG_{PLANT7})	371,346 kWh (minimum)	
Commercial Operation Start Date (COSD)	2 years or earlier	
Total Annual Generation for the Cluster (AG_{REPP})	**2,309,952 kWh (min)**	

Notes:
1. * Shall be determined based on the given load curve data in Annex C.
2. Any offer not meeting the NPC minimum requirements shall be grounds for disqualification.
3. The BESS with at least 25% of the committed capacity will be used to support the shifting operation from RE to diesel and vice versa. However, REPP may opt to install higher capacity if it intends to offer a longer availability period.
4. Offered AG_{PLANT} lower than the minimum annual generation requirement of NPC **OR** higher than the product of REPP's committed Capacity and Availability multiplied by 365 days will be grounds for disqualification.
5. $AG_{REPP} = AG_{PLANT1} + AG_{PLANT2} + AG_{PLANT3} + ... + AG_{PLANT7}$

Name of Firm | Name & Signature of Representative | Designation

SECTION VIII – BIDDING FORMS

TABLE OF CONTENTS

Checklist of Technical & Financial Envelope Requirements for Bidders

A. THE 1ST ENVELOPE (TECHNICAL COMPONENT) SHALL CONTAIN THE FOLLOWING:

1. ELIGIBILITY DOCUMENTS

a. (CLASS A)

- PhilGEPs Certificate of Registration and Membership under Platinum Category (all pages) in accordance with Section 8.5.2 of the Revised IRR of RA. 9184;

  Note: The failure by the prospective bidder to update its Certificate with the current and updated Class "A" eligibility documents shall result in the automatic suspension of the validity of its Certificate until such time that all of the expired Class "A" eligibility documents has been updated;

- Statement of all its ongoing government and private contracts if any, whether similar or not similar in nature and complexity to the contract to be bid *(NPCSF-GOODS-02)*

- Duly signed computation of its Net Financial Contracting Capacity (NFCC) at least equal to 2-year construction cost or the total capital investment for the renewable energy facility (NPCSF-GOODS-03) or Committed Line of Credit (CLC) at least equal to ten percent (10%) of the total capital investment, issued by a Universal or Commercial Bank; If the Bidder opted to submit a Committed Line of Credit (CLC), the bidder must submit a granted credit line valid/effective at the date of bidding.

b. (CLASS B)

- For Joint Venture (if applicable), any of the following:

  - Valid Joint Venture Agreement *(NPCSF-GOODS-04)*

    OR

  - Notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA, if awarded the contract

- Certification from the relevant government office of their country stating that Filipinos are allowed to participate in their government procurement activities for the same item/product *(For foreign bidders claiming eligibility by reason of their country's extension of reciprocal rights to Filipinos)*

2. Technical Documents

- Bid Security, any one of the following:

  - Bid Securing Declaration (NPCSF-GOODS-05c)

    OR

  - Cash or Cashier's/Manager's check issued by a Universal or Commercial Bank – *2% of ABC;*

    OR

  - Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: *(NPCSF-GOODS-05a)- 2% of ABC;*

    OR

This Checklist of Requirements shall be provided to prospective suppliers/contractors including all forms. Suppliers/contractors are encouraged to consult this checklist before submitting their proposals on the deadline for the submission and receipt of offers.

- Surety Bond callable upon demand issued by a reputable surety or insurance company *(NPCSF-GOODS-05b)- 5% of ABC, with*
  - Certification from the Insurance Commission as authorized company to issue surety

➢ Duly signed, completely filled-out and notarized Omnibus Sworn statement (Revised) (NPCSF-GOODS-06), complete with the following attachments:

- For Sole Proprietorship:
  - Special Power of Attorney
- For Partnership/Corporation/Cooperative/Joint Venture:
  - Document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)

➢ Complete eligibility documents of the proposed subcontractor, if any

➢ Documents to be submitted with the Bid as specified in *Section VII: Technical Specifications, Part II-* Technical Data Sheet, that would indicate the Cluster of interest, the diesel power plants and corresponding capacity, RE Type, COSD, availability and metering compliance.

B. THE 2ND ENVELOPE (FINANCIAL COMPONENT) SHALL CONTAIN THE FOLLOWING:

➢ Duly signed Bid Letter indicating the total bid amount in accordance with the prescribed form *(NPCSF-GOODS-07)*

➢ Duly signed and completely filled-out Schedule of Prices *(Section VIII – Bidding Forms)* indicating the Cluster of interest, SAGR for the cluster, bid price/ tariff rate offer that is capped on the cluster's SAGR, Committed Total Annual Generation, Computed Annual Generation Cost, and Computed Cost of Energy for Twenty (2) Years, and Total RE Project Cost

➢ For Domestic Bidder claiming for domestic preference:

- Letter address to the BAC claiming for preference
- Certification from DTI as Domestic Bidder in accordance with the prescribed forms provided

CONDITIONS:

1. *Each Bidder shall submit Two (2) copies of the first and second components of its Bid, marked Original and photocopy. Only the original copy will be read and considered for the bid. Any misplaced document outside of the Original copy will not be considered. The photocopy is ONLY FOR REFERENCE. NPC may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.*

2. *In the case of foreign bidders, the eligibility requirements under Class "A" Documents (except for Tax Clearance) may be substituted by the appropriate equivalent documents, if any, issued by the country of the foreign bidder concerned. The eligibility requirements or statements, the bids, and all other documents to be submitted to the BAC must be in English. If the eligibility requirements or statements, the bids, and all other documents submitted to the BAC are in foreign language other than English, it must be accompanied by a translation of the documents in English. The documents shall be translated by the relevant foreign government agency, the foreign government agency authorized to translate documents, or a registered translator in the foreign bidder's country; and shall be authenticated by the appropriate Philippine foreign*

service establishment/post or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines.

These documents shall be accompanied by a Sworn Statement in a form prescribed by the GPPB stating that the documents submitted are complete and authentic copies of the original, and all statements and information provided therein are true and correct. Upon receipt of the said documents, the PhilGEPS shall process the same in accordance with the guidelines on the Government of the Philippines – Official Merchants Registry (GoP-OMR).

3. *A Bidder not submitting bid for reason that his cost estimate is higher than the set SAGR and/or ABC, is required to submit his letter of non-participation/regret supported by corresponding detailed estimates. Failure to submit the two (2) documents shall be understood as acts that tend to defeat the purpose of public bidding without valid reason as stated under Section 69.1.(i) of the revised IRR of R.A. 9184.*

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or

b. Any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary "pass/fail" criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

Standard Form Number: NPCSF-GOODS-02

List of All Ongoing Government and Private Contracts Including Contract Awarded But Not Yet Started

Business Name : _____
Business Address : _____

Name of Contract/ Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Date Awarded b. Date Started c. Date of Completion or Contract Duration/ Date of Delivery	Value of Outstanding Works / Undelivered Portion
			Description	%		
Government						
Private						
					Total Cost	

The bidder shall declare in this form all his on-going government and private contracts including contracts where the bidder (either as individual or as a Joint Venture) is a partner in a Joint Venture agreement other than his current joint venture where he is a partner. Non declaration will be a ground for disqualification of bid.

Note : This statement shall be supported with the following documents for all the contract(s) stated above which shall be submitted during Post-qualification:

1. Contract/ PSA/ PPA
2. Certification coming from the project owner/client that the performance is satisfactory as of the bidding date.

Submitted by : _____
(Printed Name & Signature)
Designation : _____
Date : _____

Standard Form Number: NPCSF-GOODS-03

NET FINANCIAL CONTRACTING CAPACITY (NFCC)

A. Summary of the Supplier's/Distributor's/Manufacturer's assets and liabilities on the basis of the income tax return and audited financial statement for the immediately preceding calendar year are:

		Year 20__
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = [(Current assets minus current liabilities) x 15] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract for this Project.

NFCC = P _____

Note: NFCC shall be compared with the two (2) year construction cost or total capital investment for the RE Facility project per Appendix E.

Herewith attached is certified true copy of the audited financial statement, stamped "RECEIVED" by the BIR or BIR authorized collecting agent for the immediately preceding calendar year.

Submitted by:

_____
Name of Supplier / Distributor / Manufacturer

_____
Signature of Authorized Representative

Date : _____

Standard Form Number: NPCSF-GOODS-04

JOINT VENTURE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

That this JOINT VENTURE AGREEMENT is entered into by and between: _____, of legal age, *(civil status)* _____, authorized representative of _____ and a resident of _____.

- and –

_____, of legal age, *(civil status)* _____, authorized representative of _____ a resident of _____.

That both parties agree to join together their capital, manpower, equipment, and other resources and efforts to enable the Joint Venture to participate in the Bidding and Undertaking of the hereunder stated Contract of the **National Power Corporation.**

NAME OF PROJECT	**CONTRACT AMOUNT**

That the capital contribution of each member firm:

NAME OF FIRM	CAPITAL CONTRIBUTION
1.	₱
2.	₱

That both parties agree to be jointly and severally liable for their participation in the Bidding and Undertaking of the said contract.

That both parties agree that _____ and/or _____ shall be the Official Representative/s of the Joint Venture, and are granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Joint Venture in the Bidding and Undertaking of the said contract, as fully and effectively and the Joint Venture may do and if personally present with full power of substitution and revocation.

That this Joint Venture Agreement shall remain in effect only for the above stated Contract until terminated by both parties.

_____
Name & Signature of Authorized Representative

_____
Official Designation

_____
Name of Firm

_____
Name & Signature of Authorized Representative

_____
Official Designation

_____
Name of Firm

Witnesses

1. _____ 2. _____

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Standard Form Number: NPCSF-GOODS-05a

FORM OF BID SECURITY (BANK GUARANTEE)

WHEREAS, *(Name of Bidder)*_____ (hereinafter called "the Bidder") has submitted his bid dated *(Date)*_____ for the *[name of project]* (hereinafter called "the Bid").

KNOW ALL MEN by these presents that We *(Name of Bank)*_____ of *(Name of Country)*_____ having our registered office at _____ (hereinafter called "the Bank" are bound unto National Power Corporation (hereinafter called "the Entity") in the sum of *[amount in words & figures as prescribed in the bidding documents]* for which payment well and truly to be made to the said Entity the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ 20___.

THE CONDITIONS of this obligation are that:

1) if the Bidder withdraws his Bid during the period of bid validity specified in the Bidding Documents; or
2) if the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidder; or
3) if the Bidder, having determined as the LCB, fails or refuses to submit the required tax clearance, latest income and business tax returns and PhilGEPs registration certificate within the prescribed period; or
4) if the Bidder having been notified of the acceptance of his bid and award of contract to him by the Entity during the period of bid validity:
   a) fails or refuses to execute the Contract; or
   b) fails or refuses to submit the required valid JVA, if applicable; or
   c) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

we undertake to pay to the Entity up to the above amount upon receipt of his first written demand, without the Entity having to substantiate its demand, provided that in his demand the Entity will note that the amount claimed by it is due to the occurrence of any one or combination of the four (4) conditions stated above.

The Guarantee will remain in force up to 120 days after the opening of bids or as it may be extended by the Entity, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE _____ SIGNATURE OF THE BANK _____

WITNESS _____ SEAL _____

_____
(Signature, Name and Address)

Standard Form Number: NPCSF-GOODS-05b

FORM OF BID SECURITY (SURETY BOND)

BOND NO.: _____ DATE BOND EXECUTED: _____

By this bond, We *(Name of Bidder)* _____ (hereinafter called "the Principal") and *(Name of Surety)* _____ of *(Name of Country of Surety)* _____, authorized to transact business in the Philippines (hereinafter called "the Surety") are held and firmly bound unto National Power Corporation (hereinafter called "the Employer") as Obligee, in the sum of *(amount in words & figures as prescribed in the bidding documents)*, callable on demand, for the payment of which sum, well and truly to be made, we, the said Principal and Surety bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

SEALED with our seals and dated this _____ day of _____ 20 _____

WHEREAS, the Principal has submitted a written Bid to the Employer dated the _____ day of _____ 20 _____, for the _____ (hereinafter called "the Bid").

NOW, THEREFORE, the conditions of this obligation are:

1) if the Bidder withdraws his Bid during the period of bid validity specified in the Bidding Documents; or
2) if the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidder; or
3) if the Bidder, having determined as the LCB, fails or refuses to submit the required tax clearance, latest income and business tax returns and PhilGEPs registration certificate within the prescribed period; or
4) if the Bidder having been notified of the acceptance of his bid and award of contract to him by the Entity during the period of bid validity:
    d) fails or refuses to execute the Contract; or
    e) fails or refuses to submit the required valid JVA, if applicable; or
    f) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

then this obligation shall remain in full force and effect, otherwise it shall be null and void.

PROVIDED HOWEVER, that the Surety shall not be:

a) liable for a greater sum than the specified penalty of this bond, nor

b) liable for a greater sum that the difference between the amount of the said Principal's Bid and the amount of the Bid that is accepted by the Employer.

Standard Form Number: NPCSF-GOODS-05b
Page 2 of 2

This Surety executing this instrument hereby agrees that its obligation shall be valid for 120 calendar days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived.

PRINCIPAL _____ SURETY _____

SIGNATURE(S) _____ SIGNATURES(S) _____

NAME(S) AND TITLE(S) _____ NAME(S) _____

SEAL _____ SEAL _____

Standard Form No: NPCSF-GOODS-05c

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

BID-SECURING DECLARATION
SUPPLY AND DELIVERY OF RENEWABLE ENERGY FOR THE HYBRIDIZATION OF DIESEL POWER PLANTS UNDER SCHEDULE IV (CLUSTER I0 - TAWI-TAWI)

To: **National Power Corporation**
BIR Road cor. Quezon Ave.
Diliman, Quezon City

I/We[1], the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
2. I/We understand that this Bid-Securing Declaration shall be enforced/applied in accordance with Section 5 of the Guidelines on the use of Bid-Securing Declaration (Appendix 10 of RA 9184 IRR).
3. I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of written demand by the procuring entity for the commission of acts resulting to the forfeiture of bid security under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1 (f), of the IRR of RA 9184; without prejudice to other legal action the government may undertake.
4. I/We understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
    a) Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
    b) I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right;
    c) I am/we are declared as the bidder with the Highest Rated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, *I/we* have hereunto set my hand this ____ day of ____ 20____ at _____, Philippines.

_____
[Name and Signature of Bidder's Representative/ Authorized Signatory]
[Signatory's legal capacity]
Affiant

[1]Select one and delete the other. Adopt same instruction for similar terms throughout the document.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of month] [year] at [place of execution].

[Insert NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]

Affiant
SUBSCRIBED AND SWORN to before me this __ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____.

Witness my hand and seal this ___ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____
Notary Public for _____ **until** _____
Roll of Attorneys No. _____
PTR No. __, [date issued], [place issued]
IBP No. __, [date issued], [place issued]
Doc. No. ___
Page No. ___
Book No. ___
Series of ____.

Standard Form No: NPCSF-GOODS-06

Omnibus Sworn Statement (Revised)

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

   [If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

   [If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

   [If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

   [If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units (LGUs), foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

   [If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

   [If a partnership or cooperative:] None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management

Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

   a. Carefully examining all of the Bidding Documents;

   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;

   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and

   d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Standard Form No: NPCSF-GOODS-07

BID LETTER

Date: _____

To: **THE PRESIDENT**
National Power Corporation
BIR Road cor. Quezon Ave.
Diliman, Quezon City

Gentlemen:

Having examined the Bidding Documents including Bid Bulletin Numbers *[insert numbers]*____, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to perform **SUPPLY AND DELIVERY OF RENEWABLE ENERGY FOR THE HYBRIDIZATION OF DIESEL POWER PLANTS UNDER SCHEDULE IV (CLUSTER 10 – TAWI-TAWI)** in conformity with the said Bidding Documents for the tariff rate of _____ and computed cost of energy to be delivered for twenty (20) years in the amount of Php_____.

We undertake, if our Bid is accepted, to supply and deliver the goods and perform other services, if required within the contract duration and in accordance with the scope of the contract specified in the Schedule of Requirements and Technical Specifications.

If our Bid is accepted, we undertake to provide a performance security in the form, amounts, and within the times specified in the Bidding Documents.

We agree to abide by this Bid for the Bid Validity Period specified in Bid Documents and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements pursuant to the Bidding Documents.

We likewise certify/confirm that the undersigned, ***[for sole proprietorships, insert:*** as the owner and sole proprietor or authorized representative of*[Name of Bidder]*_____has the full power and authority to participate, submit the bid, and to sign and execute the ensuing contract, on the latter's behalf for the [*Name of Project]*_____of the National Power Corporation***[for partnerships, corporations, cooperatives, or joint ventures, insert:*** is granted full power and authority by the *[Name of Bidder]* _____to participate, submit the bid, and to sign and execute the ensuing contract on the latter's behalf for [*Name of Project]*_____ of the National Power Corporation.

We acknowledge that failure to sign each and every page of this Bid Letter, including the attached Schedule of Requirements (Bid Price Schedule), shall be a ground for the rejection of our bid.

_____ _____

[name and signature of authorized signatory] *[in the capacity of]*

Duly authorized to sign Bid for and on behalf of _____

[name of bidder]

SECTION VIII – BIDDING FORMS
SCHEDULE OF PRICES
SCHEDULE IV: CLUSTER 10 – TAWI-TAWI, ABC=Php740M, CY2025 SAGR = Php6.7072/kWh

DESCRIPTION	UNIT	OFFER (Up to 4 decimal places)	
		(IN WORDS)	(IN FIGURES)
A. TARIFF RATE	(Php/kWh)		
B. TOTAL ANNUAL GENERATION (AG_{REPP}) (From Technical Data Sheet)	kWh		
C. COMPUTED ANNUAL GENERATION COST (CAGC) = A x B	Php		
D. COST OF ENERGY FOR TWENTY (20) YEARS = C X 20 Years	Php		
E. TOTAL RE PROJECT COST	Php		

_____ _____ _____

Name of Firm | Name & Signature of Authorized Representative | Designation

Note:
1. The bid price offer in words shall prevail in case of discrepancy.
2. Tariff Rate is capped at CY2025 SAGR as specified above and any offer exceeding the cap will be ground for disqualification.
3. The CAGC is the basis in determining the Highest Rated Bid (HRB).
4. The contract amount cost of energy for twenty (20) years exceeding the ABC will Be grounds for disqualification
5. The Total RE Project Cost shall be used as reference for NFCC.

Bank Guarantee Form for Advance Payment

To: **THE PRESIDENT**
National Power Corporation
Gabriel Y. Itchon Building
Sen. Miriam P. Defensor-Santiago Blvd.
(formerly BIR Road) corner Quezon Avenue
Diliman, Quezon City, Philippines 1100

[name of Contract]

Gentlemen and/or Ladies:

In accordance with the Advance Payment Provision, of the General Conditions of Contract, *[name and address of Supplier]* (hereinafter called the "Supplier") shall deposit with the PROCURING ENTITY a bank guarantee to guarantee its proper and faithful performance under the said Clause of the Contract in an amount of *[amount of guarantee in figures and words]*.

We, the *[name of the universal/commercial bank]*, as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the PROCURING ENTITY on its first demand without whatsoever right of objection on our part and without its first claim to the Supplier, in the amount not exceeding *[amount of guarantee in figures and words]*.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between the PROCURING ENTITY and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition, or modification.

This guarantee shall remain valid and in full effect from the date the advance payment is received by the Supplier under the Contract and until the Goods are accepted by the PROCURING ENTITY.

Yours truly,

Signature and seal of the Guarantors

_____
[name of bank or financial institution]

_____
[address]

_____
[date]

CERTIFICATION AS A DOMESTIC BIDDER

This is to certify that based on the records of this office, *(Name of Bidder)* _____ is duly registered with the DTI on _____.

This further certifies that the articles forming part of the product of *(Name of Bidder)* _____, which are/is *(Specify)* _____. are substantially composed of articles, materials, or supplies grown, produced or manufactured in the Philippines. (Please encircle the applicable description/s).

This certification is issued upon the request of *(Name of Person/Entity)* _____ in connection with his intention to participate in the bidding for the *(Name of Project)* _____ of the National Power Corporation (NPC).

Given this __ day of _____ 20__ at _____, Philippines

_____
Name

_____
Position

_____
Department of Trade & Industry

SECTION IX – APPENDICES

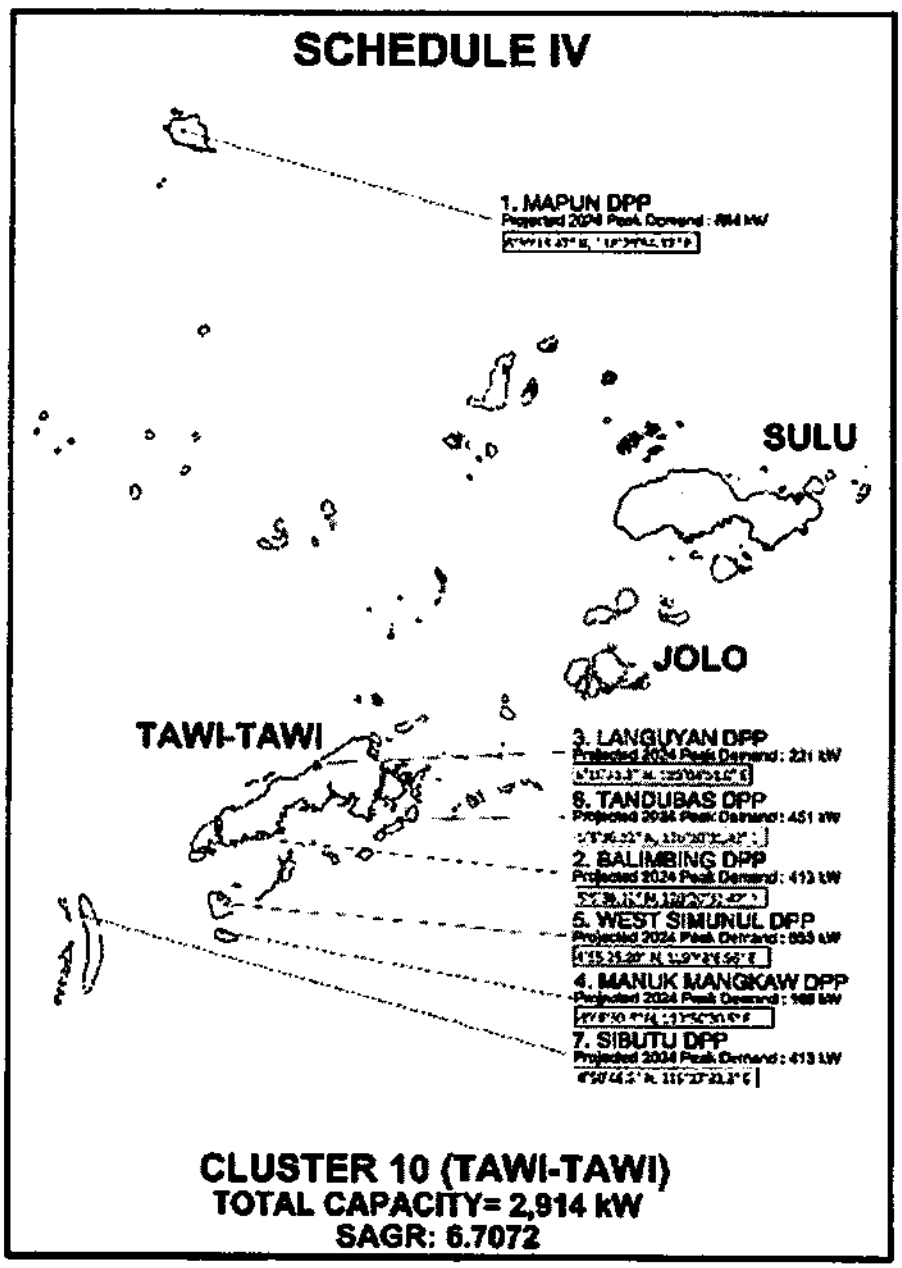
APPENDIX A

CLUSTER DETAILS

	SPUG POWER PLANTS	TOTAL CAPACITIES		GRID PEAK LOAD (MW) of 25 March 2023	Projected 2024 Peak Demand (MW)	ECs/DUs/NPC	SAGR CY 2024	TCGR Forecast CY 2024 (with RORB)	ABC
		RATED	DEP						
	CLUSTER 10 (TAWI-TAWI)	9.891	7.045		2.914		6.7072		[illegible]
	TAWI TAWI	9.891	7.045	[illegible]	2.914	[illegible]	[illegible]	[illegible]	[illegible]
1	MAPUN DPP	1.920	1.670	0.4750	0.594	CASELCO	6.7072	32.0123	
2	BALIMBING DPP	1.276	0.750	0.3290	0.413	TAWELCO	6.7072	32.0119	
3	LANGUYAN DPP	0.740	0.400	0.1550	0.221	TAWELCO	6.7072	38.9681	
4	MANUK MANGKAW DPP	0.841	0.590	0.1170	0.169	TAWELCO	6.7072	43.8276	
5	WEST SIMUNUL DPP	2.373	1.870	0.4200	0.653	TAWELCO	6.7072	30.7015	
6	TANDUBAS DPP	1.655	1.010	0.3480	0.451	TAWELCO	6.7072	33.5010	
7	SIBUTU DPP	1.086	0.755	0.2100	0.413	TAWELCO	6.7072	38.1792	

APPENDIX B

CLUSTER LOCATION MAP



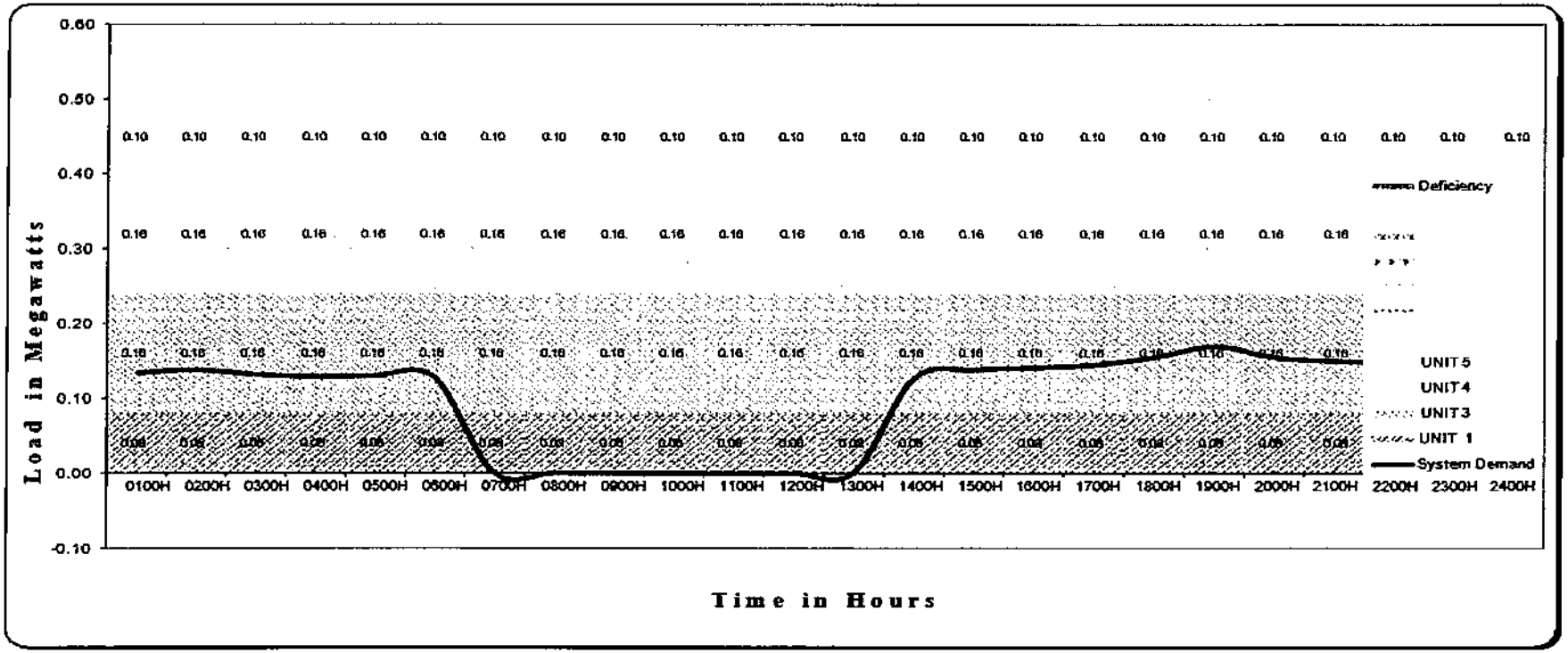
APPENDIX C

LOAD AND DEMAND CURVE

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
JANUARY 2024

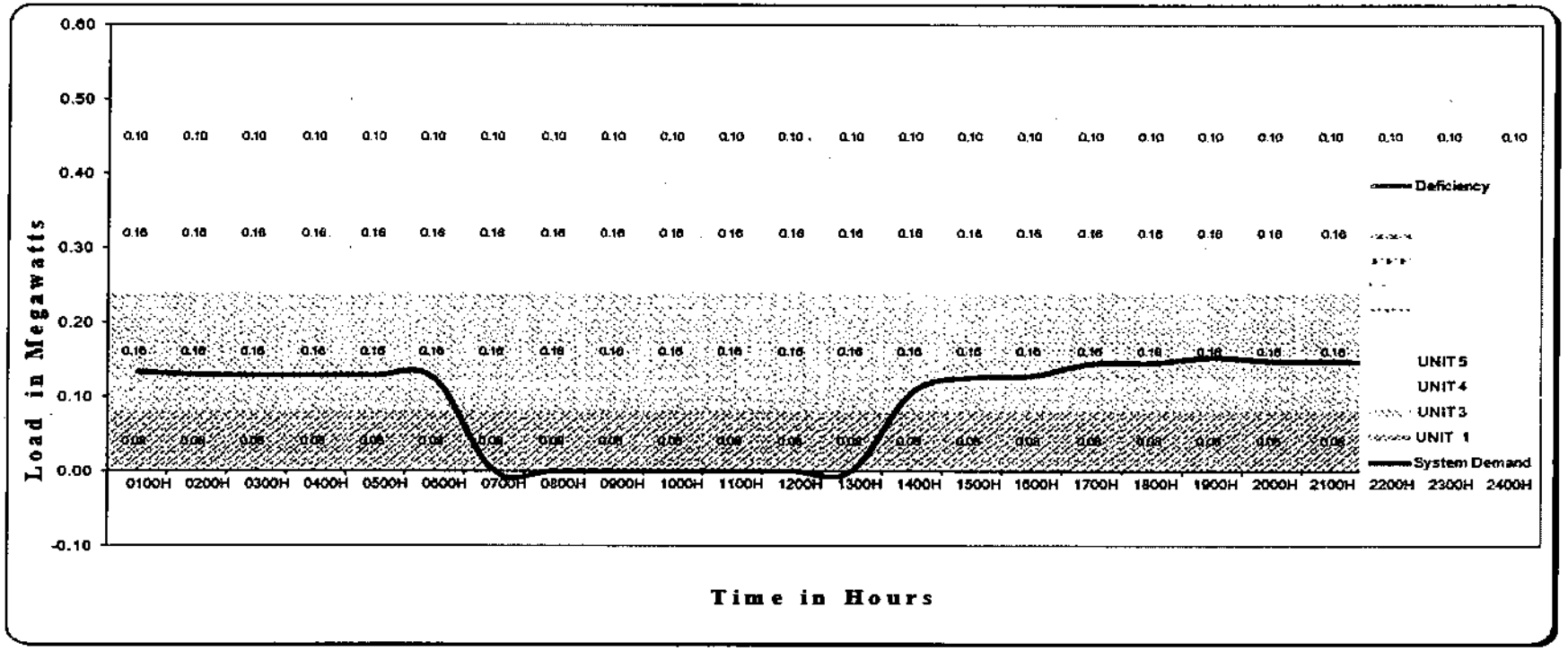


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND																							
0.134	0.138	0.132	0.129	0.130	0.128	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.138	0.141	0.145	0.155	0.170	0.165	0.150	0.153	0.147	0.147	0.147
RESERVED / (DEFICIENCY)																							
0.366	0.362	0.368	0.371	0.370	0.372	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.362	0.359	0.355	0.345	0.330	0.335	0.350	0.347	0.353	0.353	0.353

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
FEBRUARY 2024

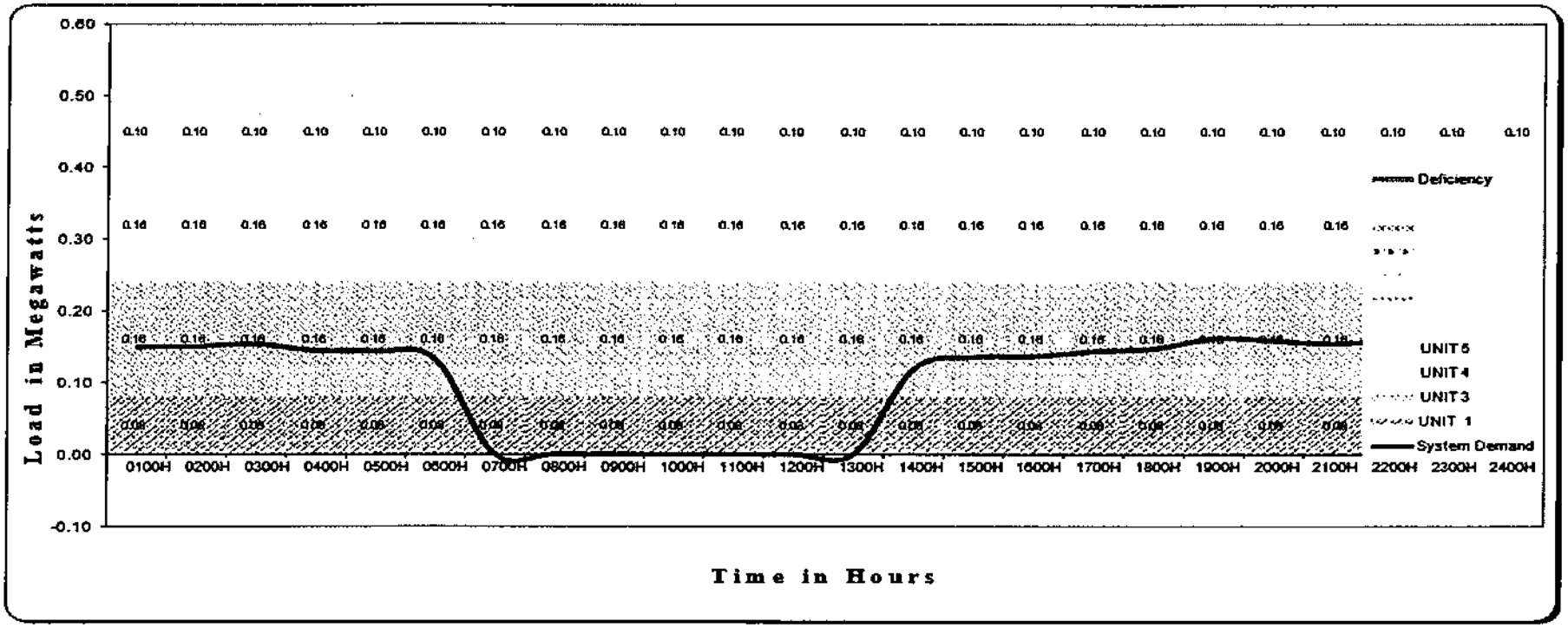


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND																							
0.134	0.130	0.129	0.129	0.129	0.129	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.126	0.126	0.146	0.146	0.153	0.153	0.148	0.148	0.146	0.146	0.146
RESERVED / (DEFICIENCY)																							
0.366	0.370	0.371	0.371	0.371	0.371	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.374	0.374	0.355	0.354	0.347	0.347	0.352	0.352	0.354	0.354	0.354

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
MARCH 2024

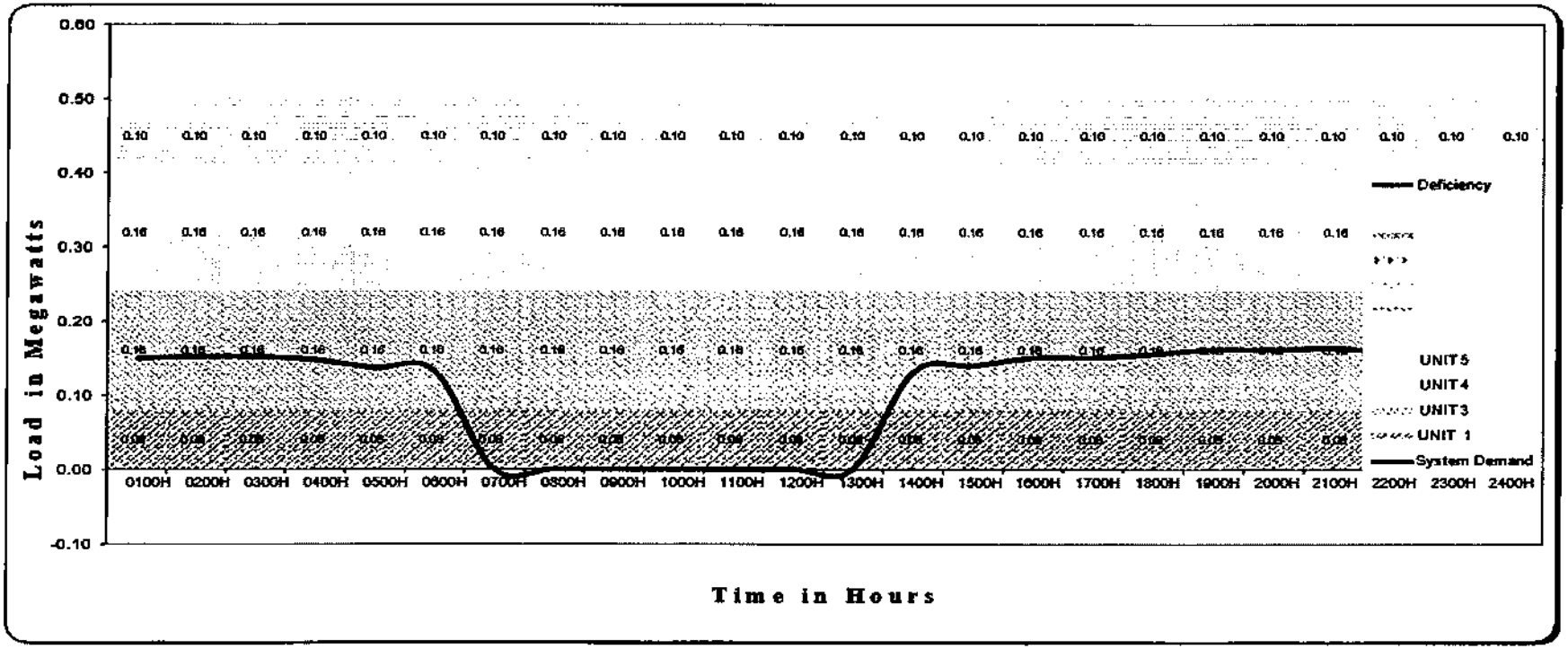


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND																							
0.150	0.150	0.154	0.149	0.144	0.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.136	0.142	0.144	0.144	0.162	0.156	0.155	0.160	0.153	0.153
RESERVED / (DEFICIENCY)																							
0.350	0.350	0.346	0.351	0.356	0.356	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.364	0.358	0.356	0.356	0.338	0.344	0.345	0.340	0.347	0.347

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
APRIL 2024

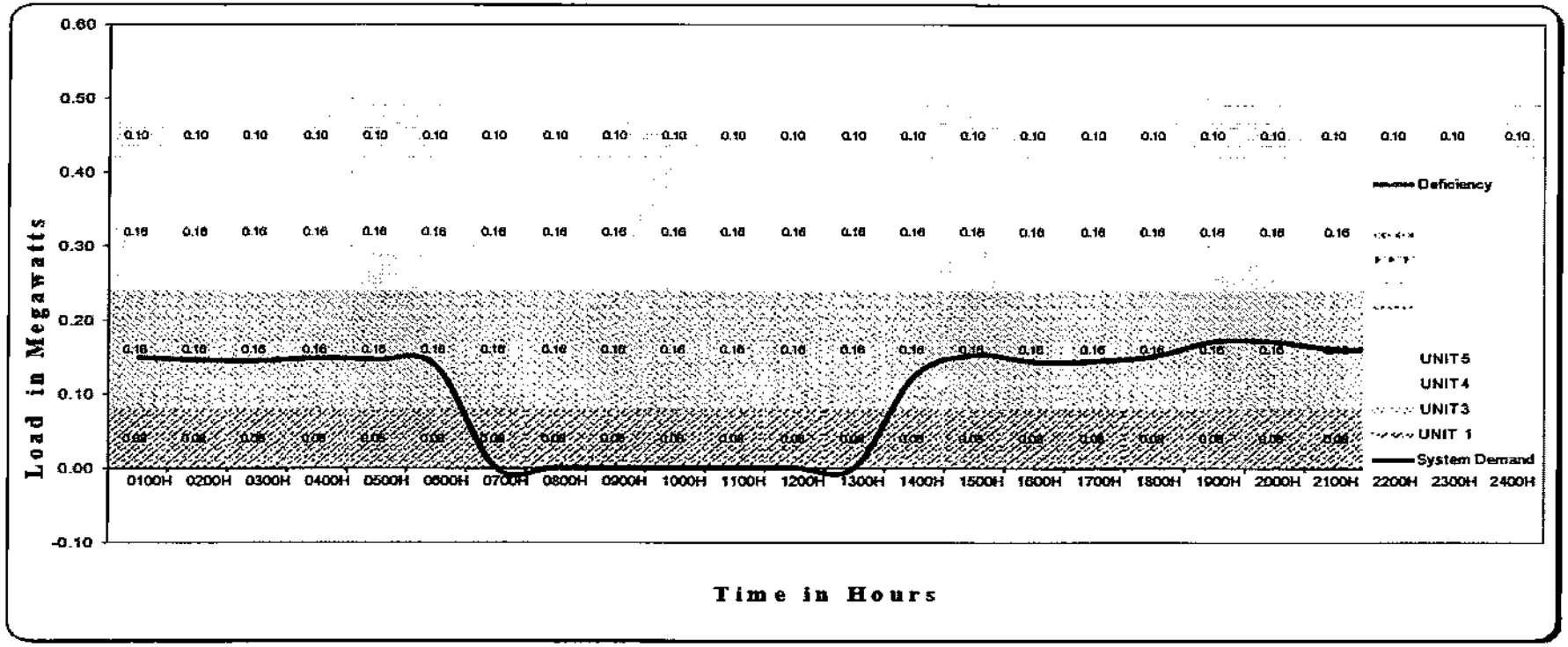


0100H	0300H	0500H	0700H	0900H	1100H	1300H	1500H	1700H	1900H	2100H	2300H
TOTAL CAPABILITY											
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND											
0.150	0.152	0.137	0.000	0.000	0.000	0.000	0.140	0.151	0.162	0.164	0.154
RESERVED / (DEFICIENCY)											
0.350	0.348	0.363	0.500	0.500	0.500	0.500	0.360	0.349	0.338	0.336	0.346

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
MAY 2024

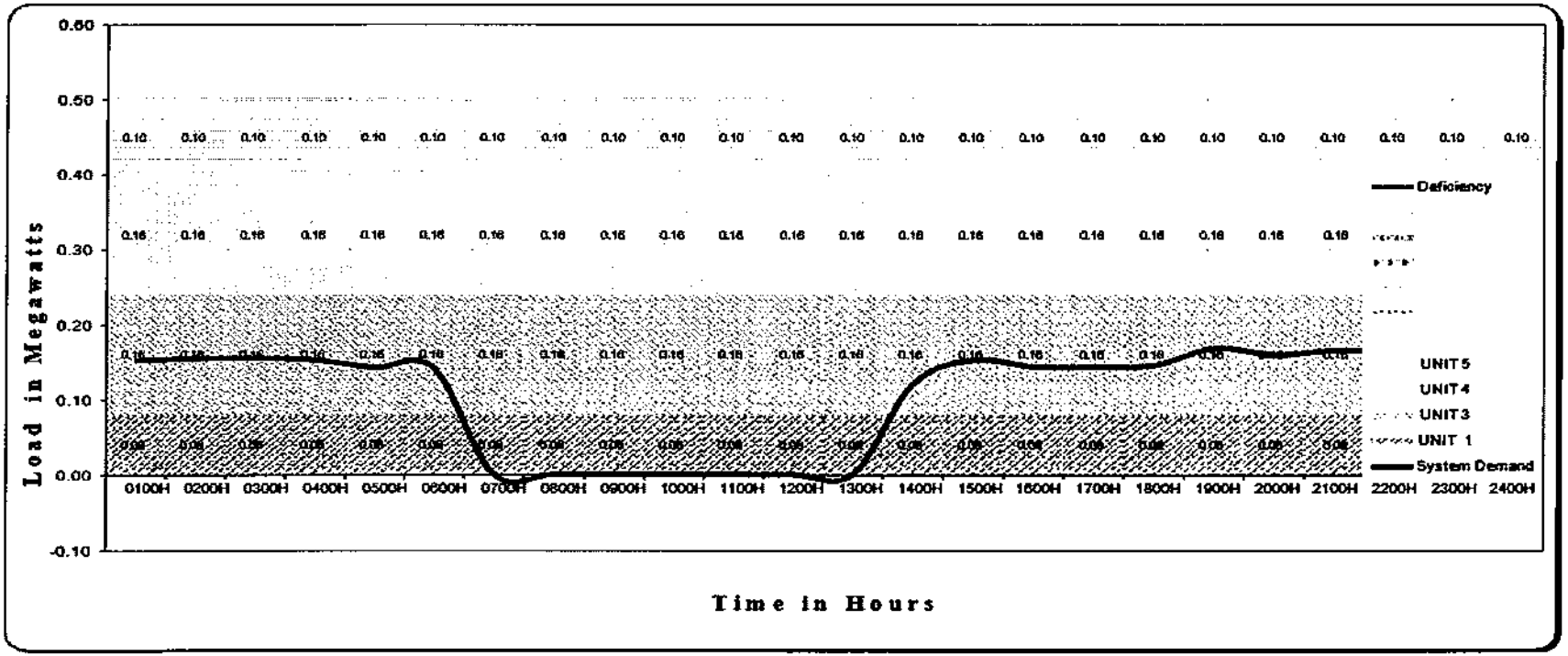


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND																							
0.149	0.145	0.144	0.144	0.146	0.148	0.000	0.000	0.000	0.000	0.000	0.000	0.152	0.152	0.152	0.144	0.144	0.171	0.171	0.160	0.160	0.150	0.150	0.150
RESERVED / (DEFICIENCY)																							
0.351	0.355	0.356	0.356	0.354	0.352	0.500	0.500	0.500	0.500	0.500	0.500	0.348	0.348	0.348	0.356	0.356	0.329	0.329	0.340	0.340	0.350	0.350	0.350

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
JUNE 2024

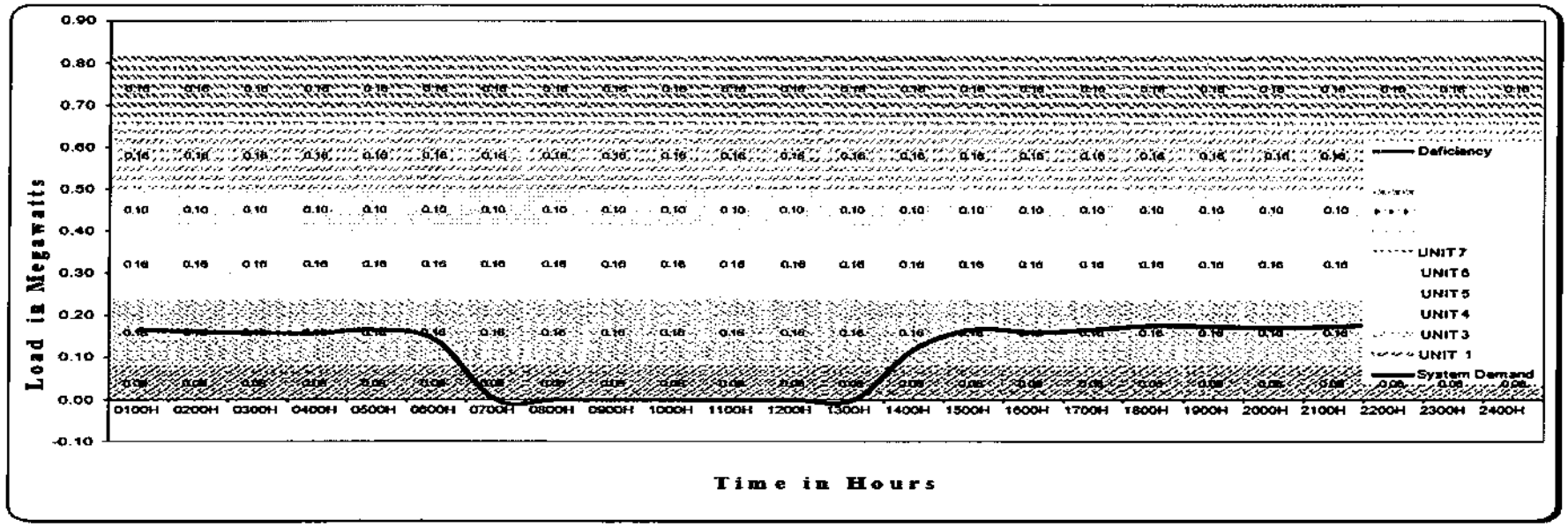


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND																							
0.153	0.157	0.157	0.154	0.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.154	0.000	0.145	0.000	0.170	0.000	0.167	0.000	0.163	0.000	0.000	0.000
RESERVED / (DEFICIENCY)																							
0.347	0.343	0.343	0.346	0.356	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.346	0.500	0.355	0.500	0.330	0.500	0.333	0.500	0.337	0.500	0.500	0.500

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
JULY 2024

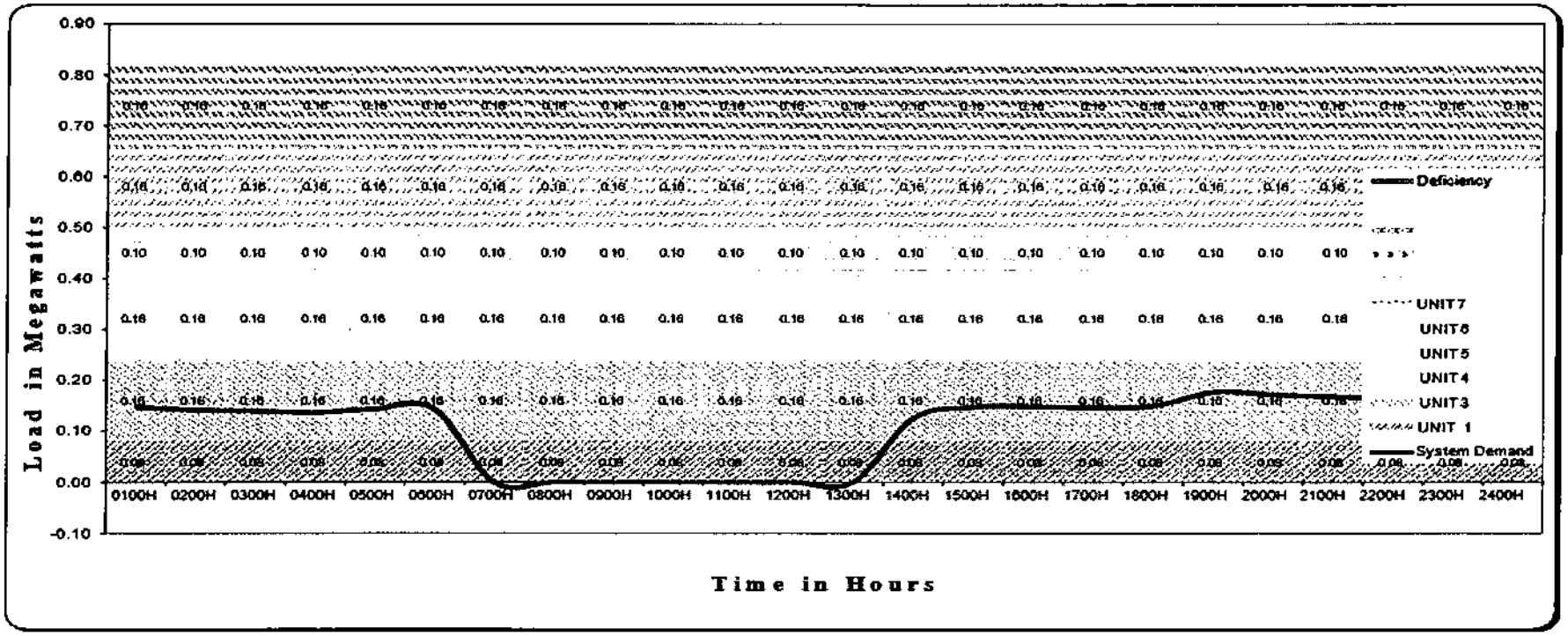


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.167	0.161	0.159	0.161	0.166	0.174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.167	0.000	0.167	0.174	0.174	0.173	0.174	0.160	0.174	0.160
RESERVED / (DEFICIENCY)																							
0.653	0.659	0.661	0.659	0.654	0.646	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.653	0.820	0.653	0.646	0.646	0.647	0.646	0.660	0.646	0.660

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
AUGUST 2024

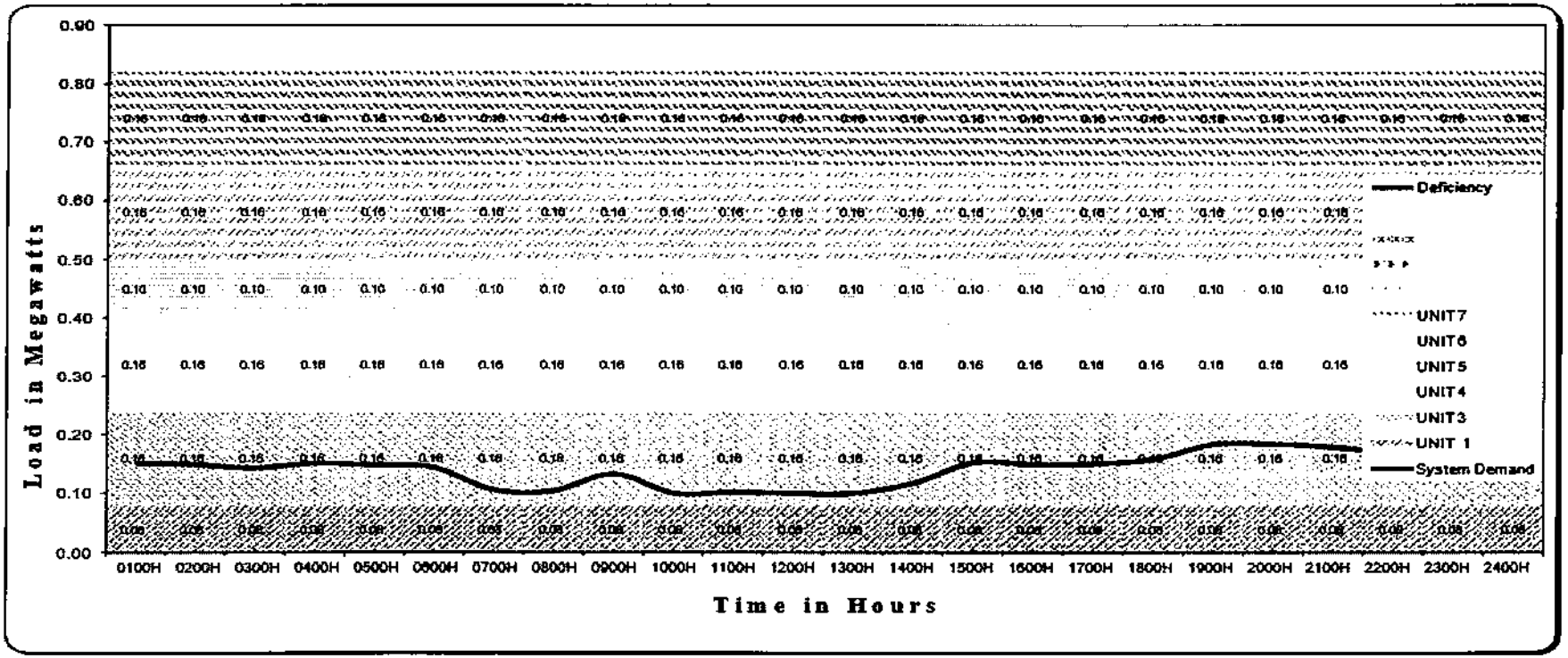


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.147	0.143	0.139	0.143	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.147	0.147	0.148	0.148	0.178	0.178	0.167	0.167	0.150	0.150	0.147
RESERVED / (DEFICIENCY)																							
0.673	0.677	0.681	0.677	0.677	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.673	0.673	0.674	0.674	0.644	0.644	0.653	0.653	0.670	0.670	0.673

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
SEPTEMBER 2024

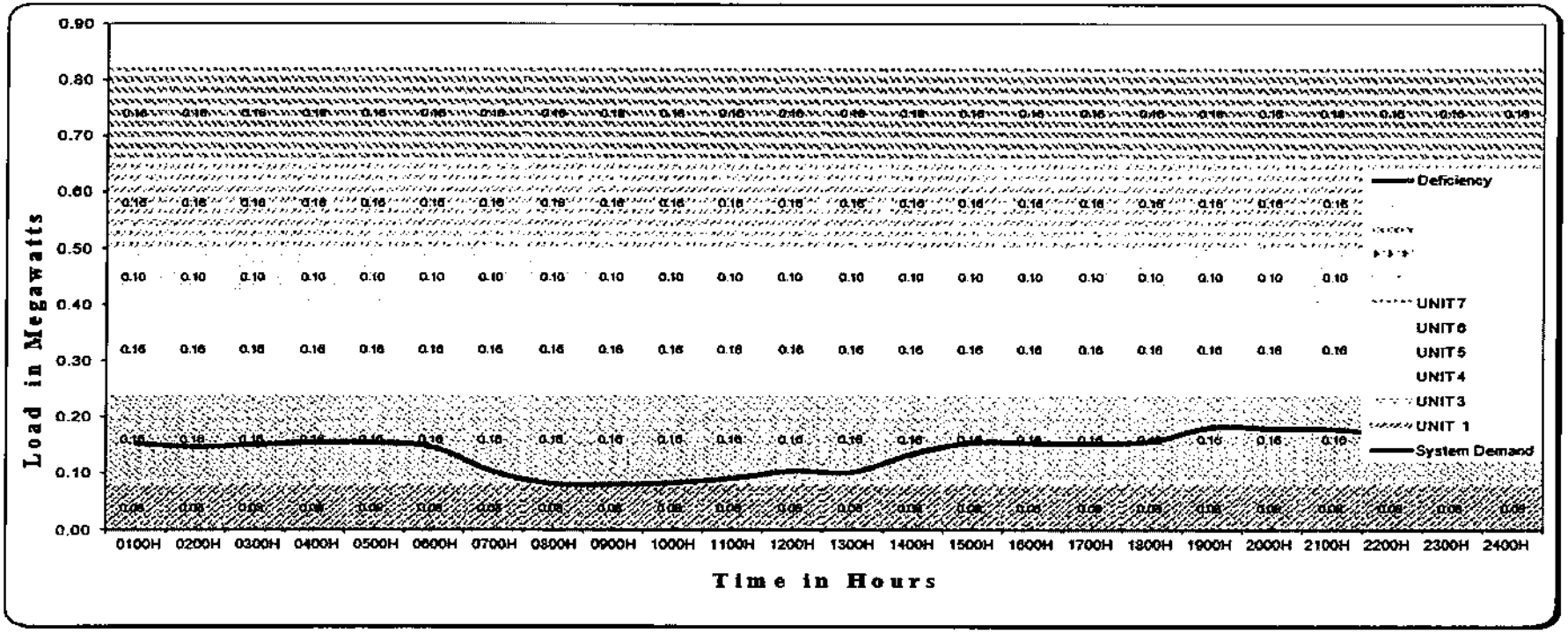


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.152	0.144	0.144	0.149	0.149	0.107	0.107	0.134	0.134	0.103	0.103	0.101	0.101	0.153	0.153	0.151	0.151	0.184	0.184	0.179	0.179	0.164	0.164	0.164
RESERVED / (DEFICIENCY)																							
0.668	0.676	0.676	0.671	0.671	0.713	0.713	0.686	0.686	0.717	0.717	0.719	0.719	0.667	0.667	0.669	0.669	0.636	0.636	0.641	0.641	0.656	0.656	0.656

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
OCTOBER 2024

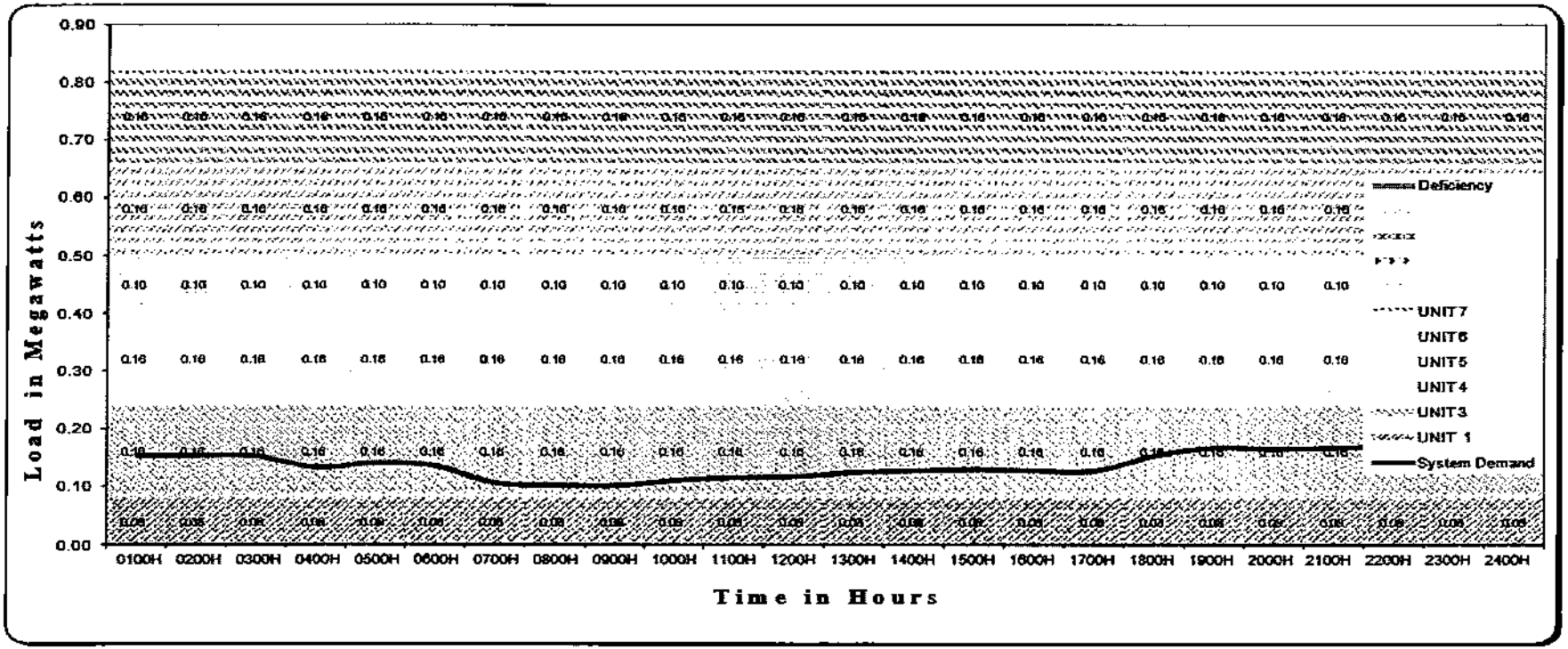


0100H	0300H	0500H	0700H	0900H	1100H	1300H	1500H	1700H	1900H	2100H	2300H
TOTAL CAPABILITY											
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND											
0.153	0.151	0.155	0.103	0.080	0.091	0.102	0.155	0.153	0.183	0.179	0.162
RESERVED / (DEFICIENCY)											
0.667	0.669	0.665	0.717	0.740	0.729	0.718	0.665	0.667	0.637	0.641	0.658

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
NOVEMBER 2024

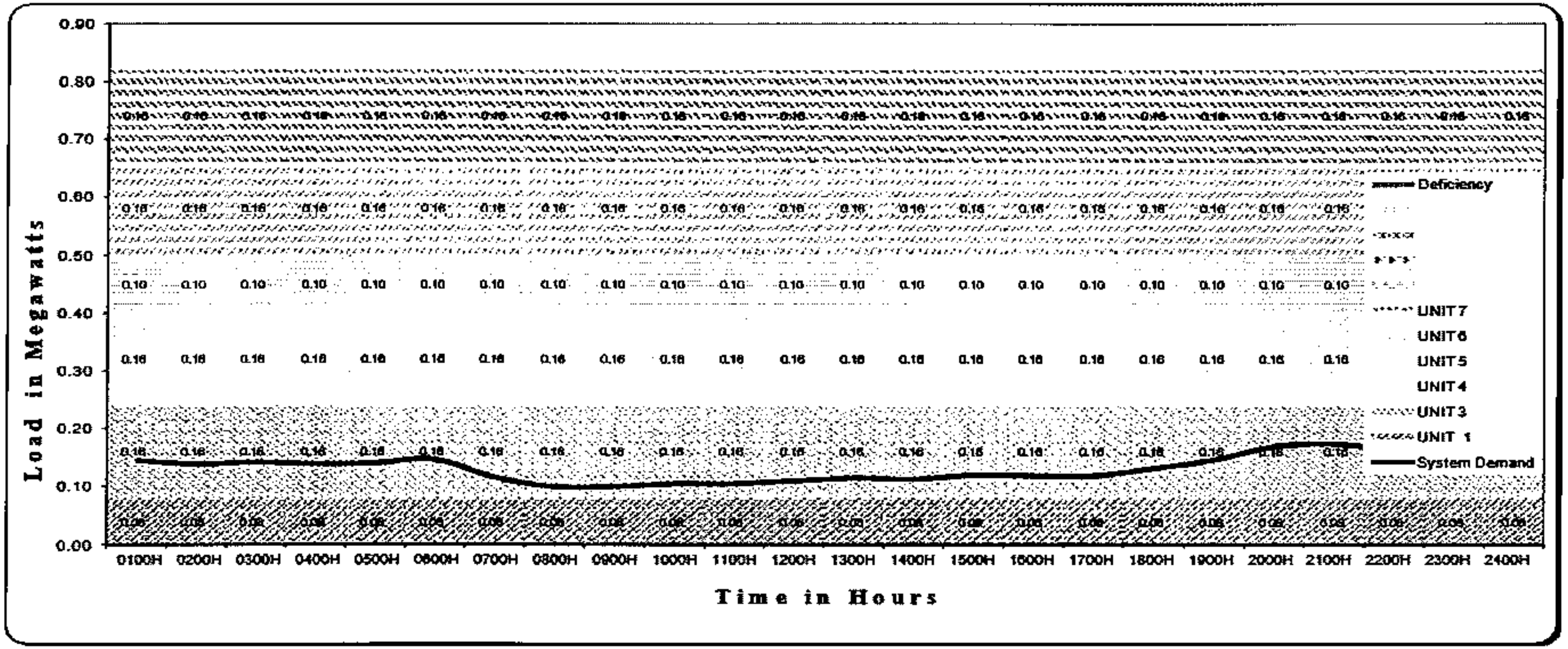


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.154	0.154	0.153	0.139	0.141	0.139	0.107	0.098	0.102	0.111	0.116	0.118	0.125	0.128	0.130	0.130	0.128	0.154	0.168	0.168	0.168	0.166	0.161	0.159
RESERVED / (DEFICIENCY)																							
0.666	0.666	0.667	0.681	0.679	0.681	0.713	0.722	0.718	0.709	0.704	0.702	0.695	0.692	0.690	0.690	0.692	0.666	0.652	0.652	0.652	0.654	0.659	0.661

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
DECEMBER 2024

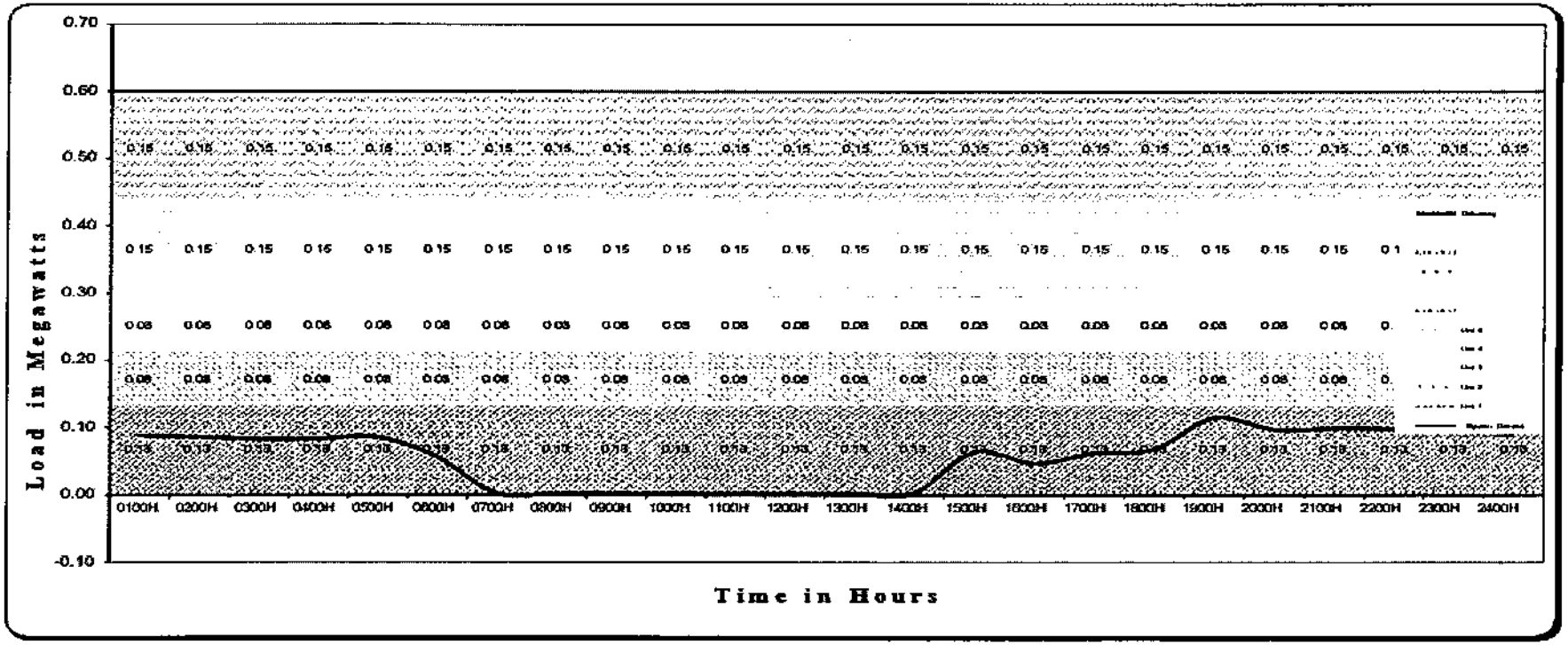


0100H	[illegible]	0300H	[illegible]	0500H	[illegible]	0700H	[illegible]	0900H	[illegible]	1100H	[illegible]	1300H	[illegible]	1500H	[illegible]	1700H	[illegible]	1900H	[illegible]	2100H	[illegible]	2300H	[illegible]
TOTAL CAPABILITY																							
0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]
SYSTEM DEMAND																							
0.147	[illegible]	0.144	[illegible]	0.142	[illegible]	0.117	[illegible]	0.101	[illegible]	0.106	[illegible]	0.116	[illegible]	0.121	[illegible]	0.120	[illegible]	0.148	[illegible]	0.175	[illegible]	0.157	[illegible]
RESERVED / (DEFICIENCY)																							
0.673	[illegible]	0.676	[illegible]	0.678	0.672	0.703	[illegible]	0.719	[illegible]	0.714	[illegible]	0.704	[illegible]	0.699	0.700	0.700	[illegible]	0.672	[illegible]	0.645	[illegible]	0.663	[illegible]

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
JANUARY 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.085	0.083	0.080	0.080	0.083	0.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.061	0.044	0.059	0.065	0.112	0.094	0.096	0.096	0.091	0.088
RESERVED / (DEFICIENCY)																							
0.505	0.507	0.510	0.510	0.507	0.506	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.529	0.546	0.531	0.525	0.478	0.496	0.494	0.494	0.499	0.502

National Power Corporation

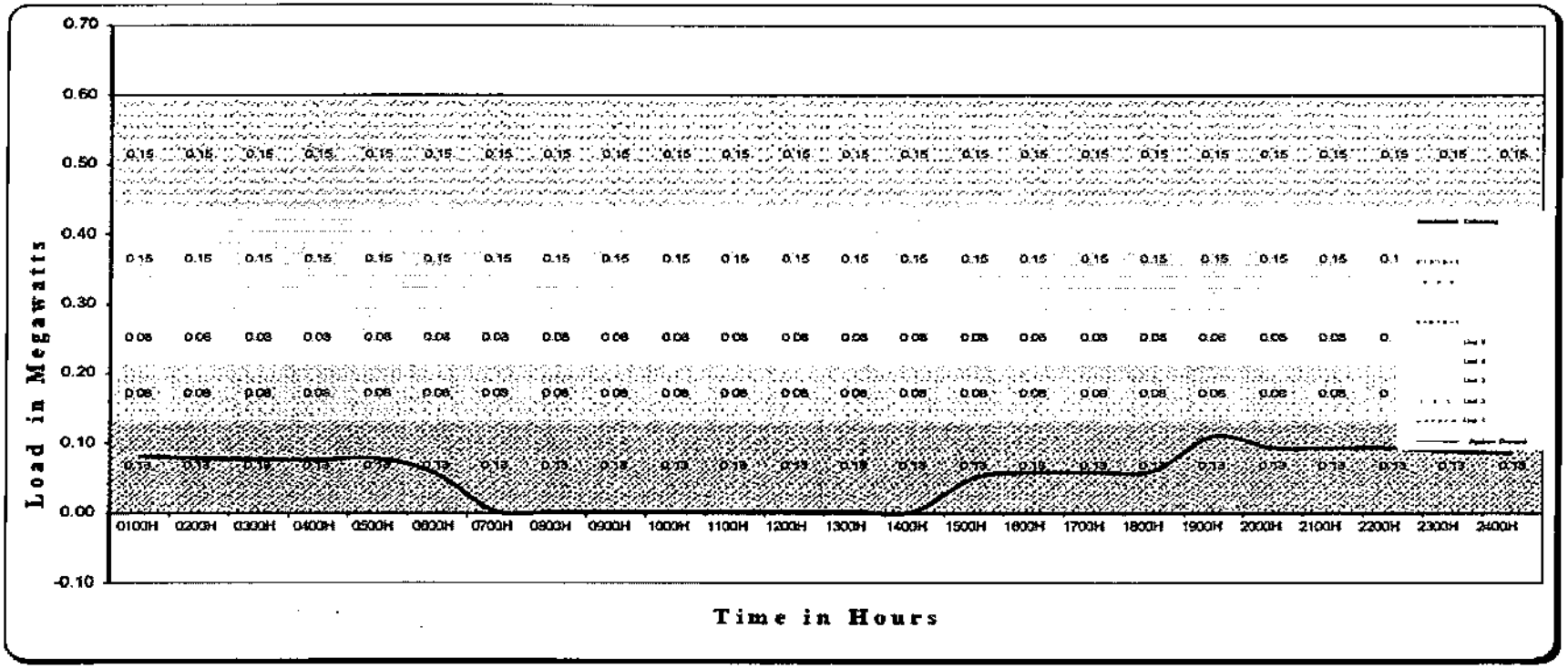
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

MANUK MANGKAW DIESEL POWER PLANT

FEBRUARY 2024

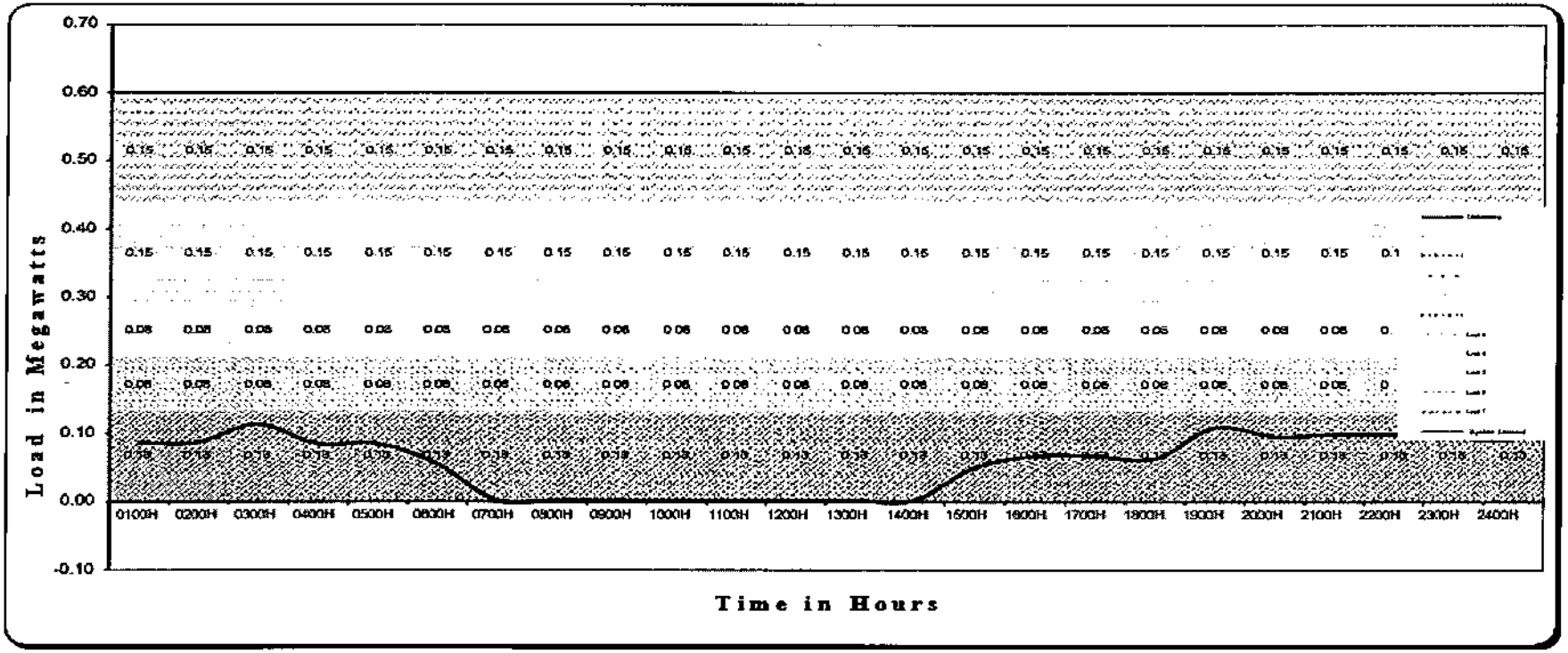


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.079	0.076	0.075	0.074	0.076	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.056	0.056	0.056	0.108	0.099	0.091	0.091	0.086	0.083
RESERVED / (DEFICIENCY)																							
0.511	0.514	0.515	0.516	0.514	0.536	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.542	0.534	0.534	0.534	0.482	0.490	0.499	0.499	0.504	0.507

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
MARCH 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.085	0.085	0.112	0.083	0.083	0.083	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.065	0.065	0.061	0.107	0.094	0.097	0.097	0.092	0.088
RESERVED / (DEFICIENCY)																							
0.505	0.505	0.478	0.507	0.507	0.507	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.542	0.525	0.525	0.529	0.483	0.496	0.493	0.493	0.498	0.502

National Power Corporation

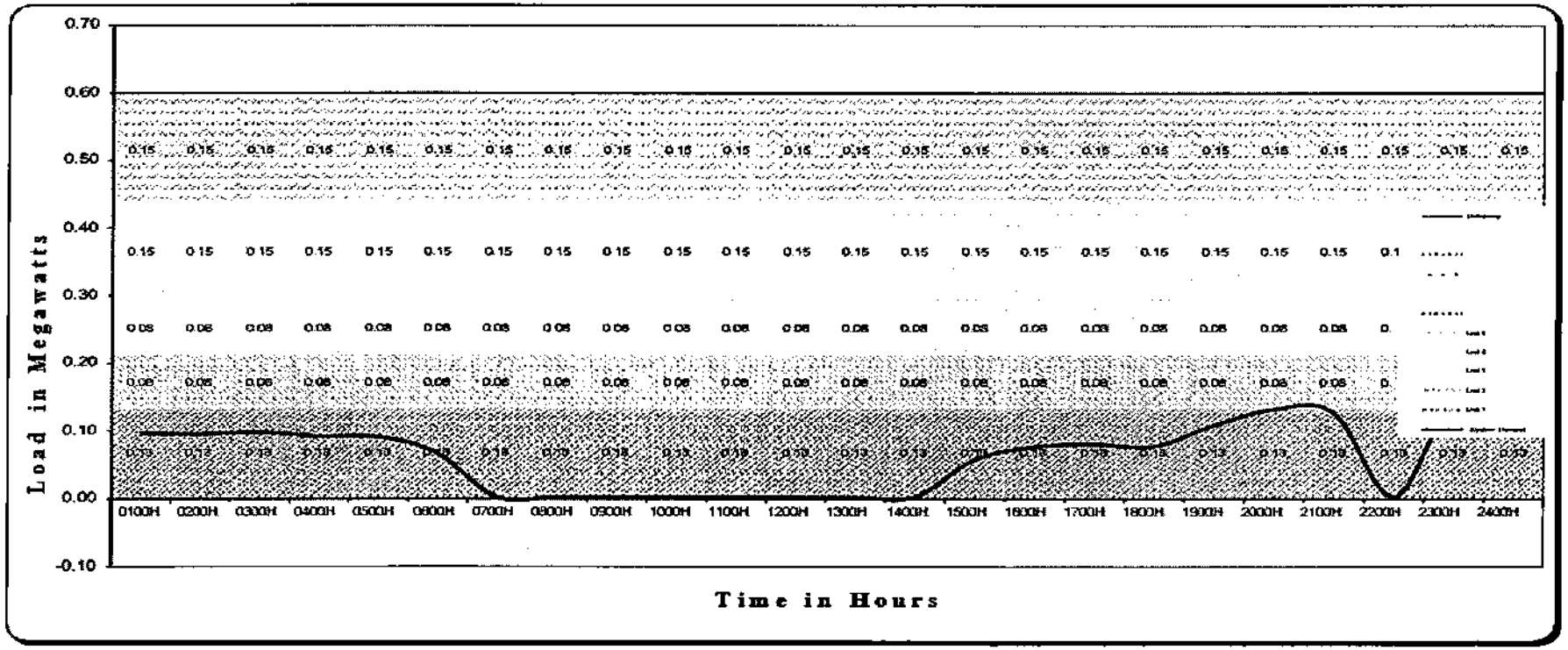
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

MANUK MANGKAW DIESEL POWER PLANT

APR 2024

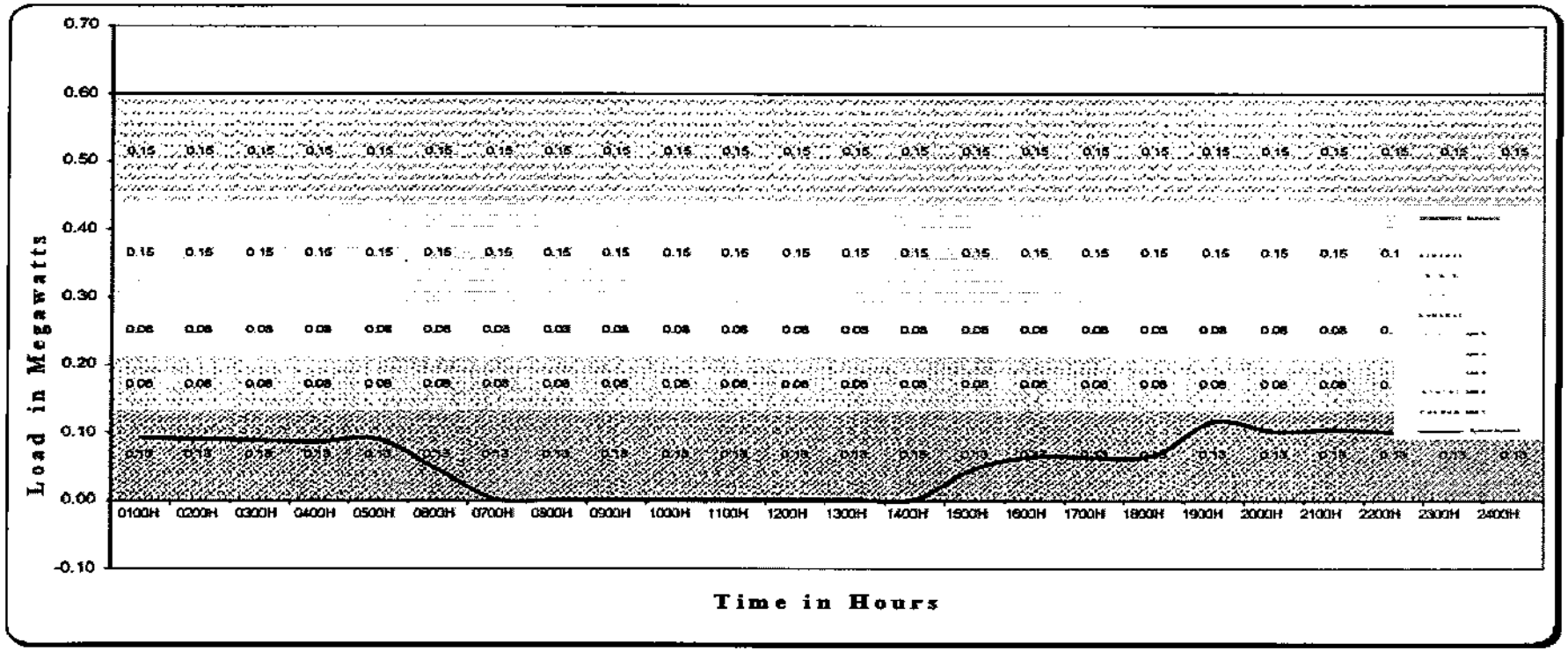


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.094	0.093	0.096	0.096	0.089	0.065	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.055	0.074	0.078	0.075	0.106	0.130	0.125	0.150	0.140	0.098
RESERVED / (DEFICIENCY)																							
0.496	0.497	0.494	0.494	0.501	0.525	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.535	0.516	0.512	0.515	0.484	0.460	0.465	#####	0.450	0.492

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
MAY 2024

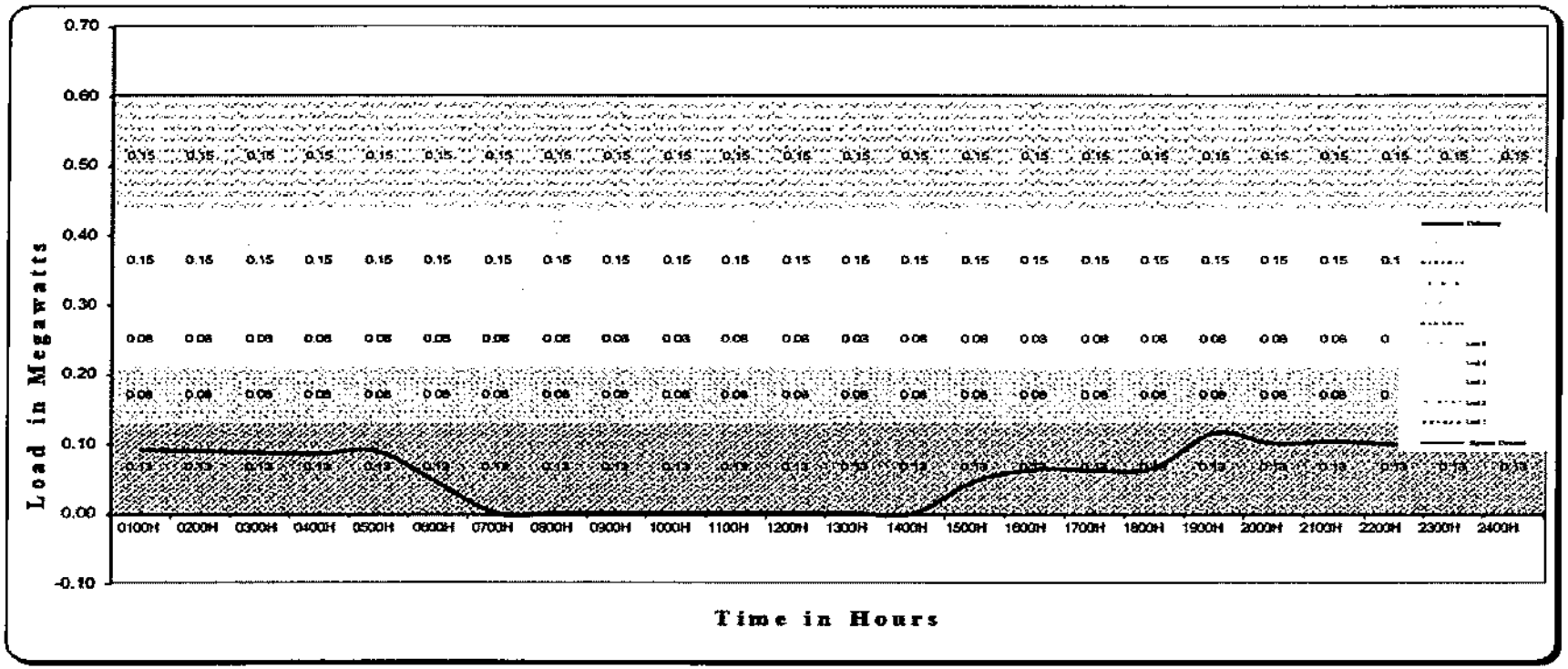


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.090	0.088	0.086	0.086	0.088	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.062	0.061	0.064	0.114	0.090	0.102	0.093	0.097	0.094
RESERVED / (DEFICIENCY)																							
0.500	0.502	0.504	0.504	0.502	0.500	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.545	0.528	0.529	0.526	0.476	0.499	0.488	0.497	0.493	0.496

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
JUNE 2024

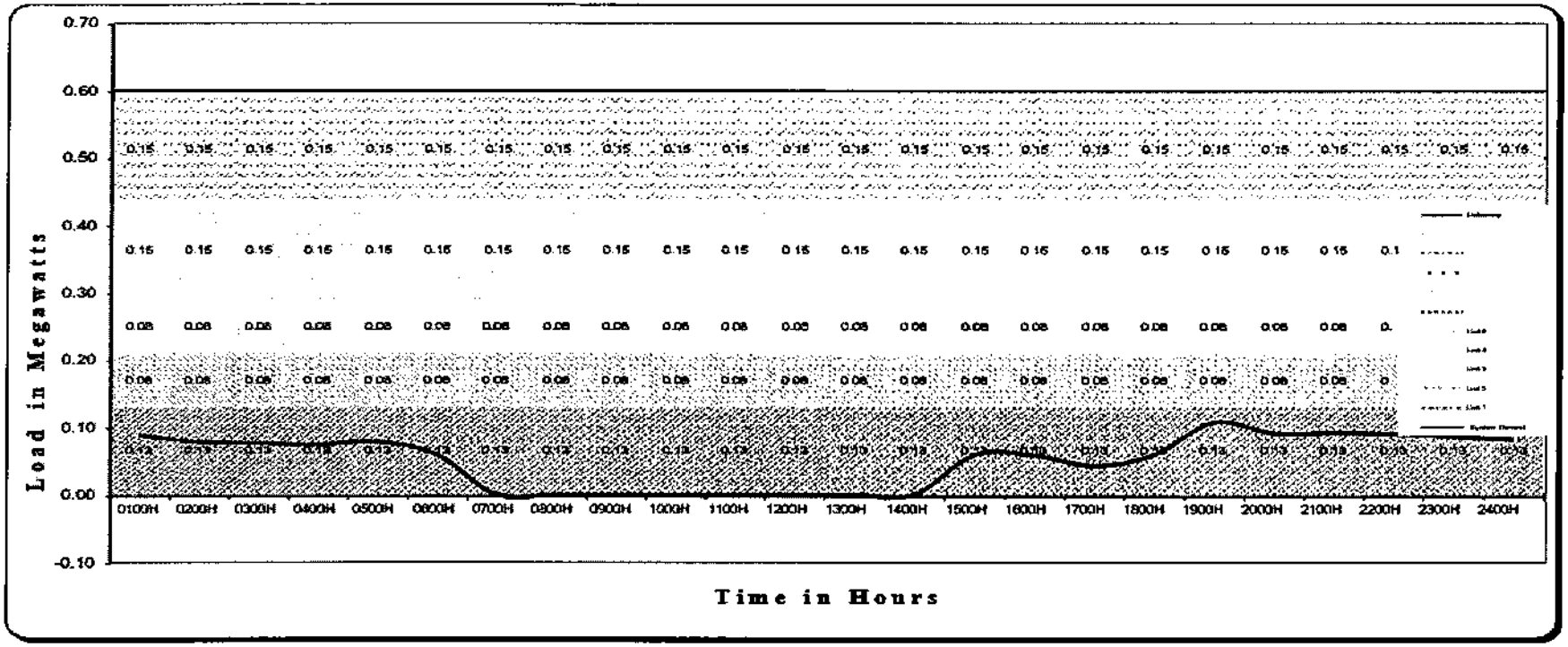


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.090	0.088	0.086	0.088	0.088	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.045	0.061	0.061	0.114	0.114	0.102	0.102	0.097	0.097	0.093
RESERVED / (DEFICIENCY)																							
0.500	0.502	0.504	0.502	0.502	0.500	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.545	0.545	0.529	0.529	0.476	0.476	0.488	0.488	0.493	0.493	0.497

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
JULY 2024

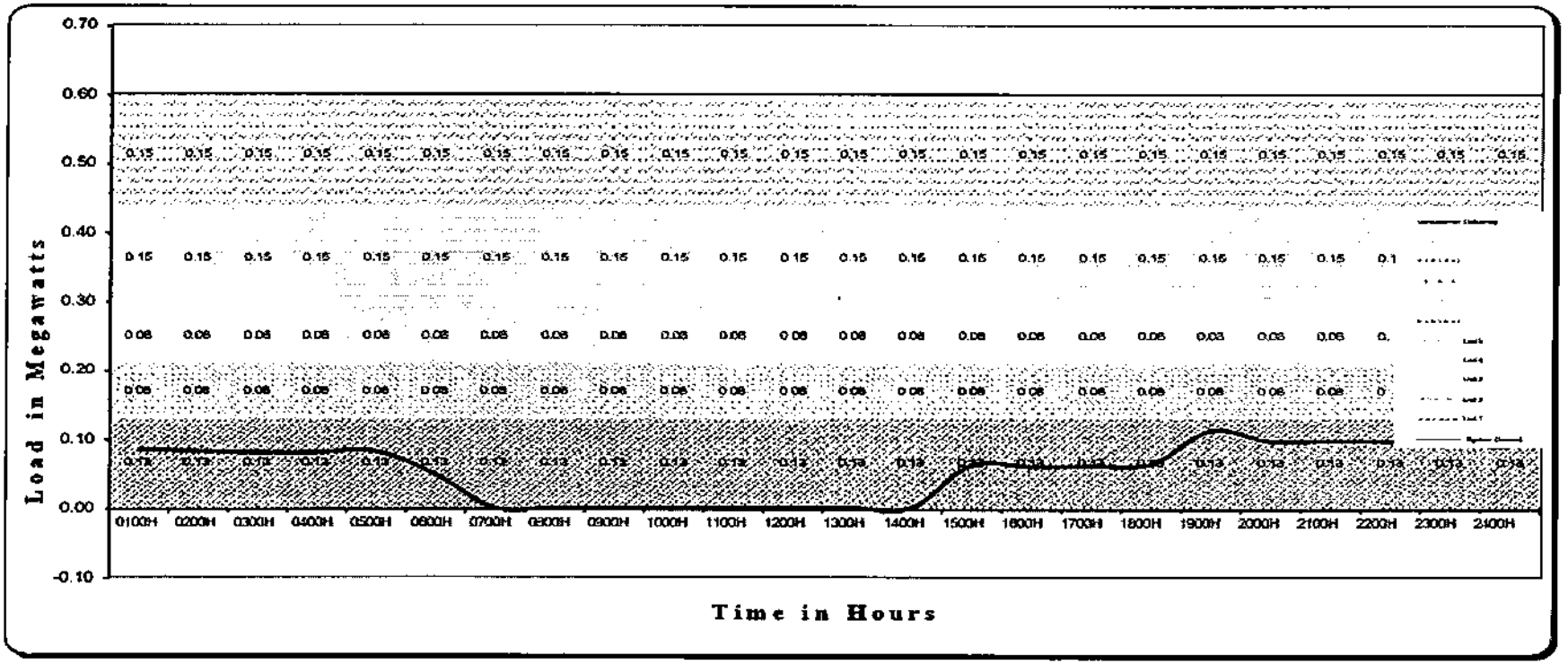


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.089	0.079	0.077	0.079	0.079	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.060	0.043	0.090	0.109	0.092	0.093	0.091	0.087	0.083
RESERVED / (DEFICIENCY)																							
0.501	0.511	0.513	0.511	0.511	0.500	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.530	0.530	0.547	0.500	0.481	0.498	0.497	0.499	0.503	0.507

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
AUGUST 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.085	0.082	0.080	0.080	0.082	0.089	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.062	0.090	0.061	0.094	0.113	0.097	0.098	0.097	0.093	0.093
RESERVED / (DEFICIENCY)																							
0.505	0.508	0.510	0.510	0.508	0.501	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.528	0.500	0.529	0.496	0.477	0.493	0.492	0.493	0.497	0.497

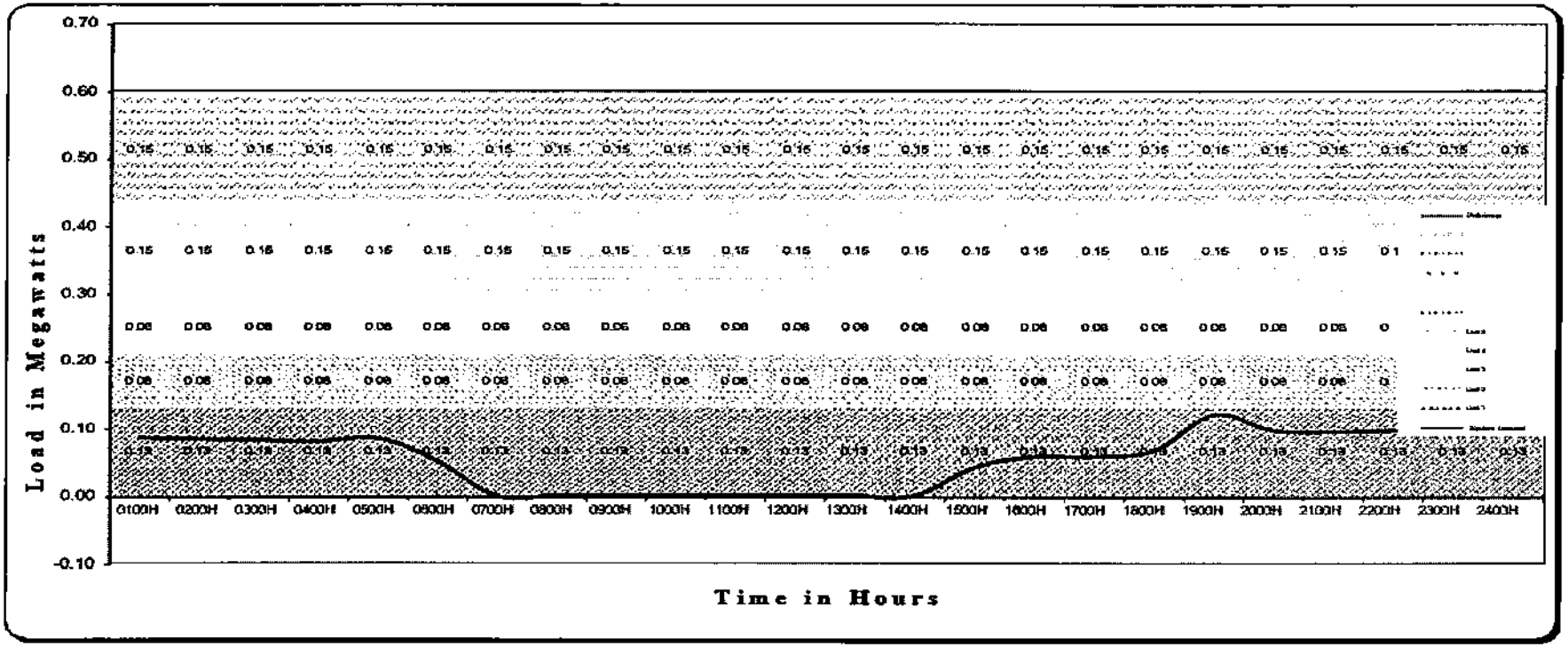
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

MANUK MANGKAW DIESEL POWER PLANT

SEPTEMBER 2024

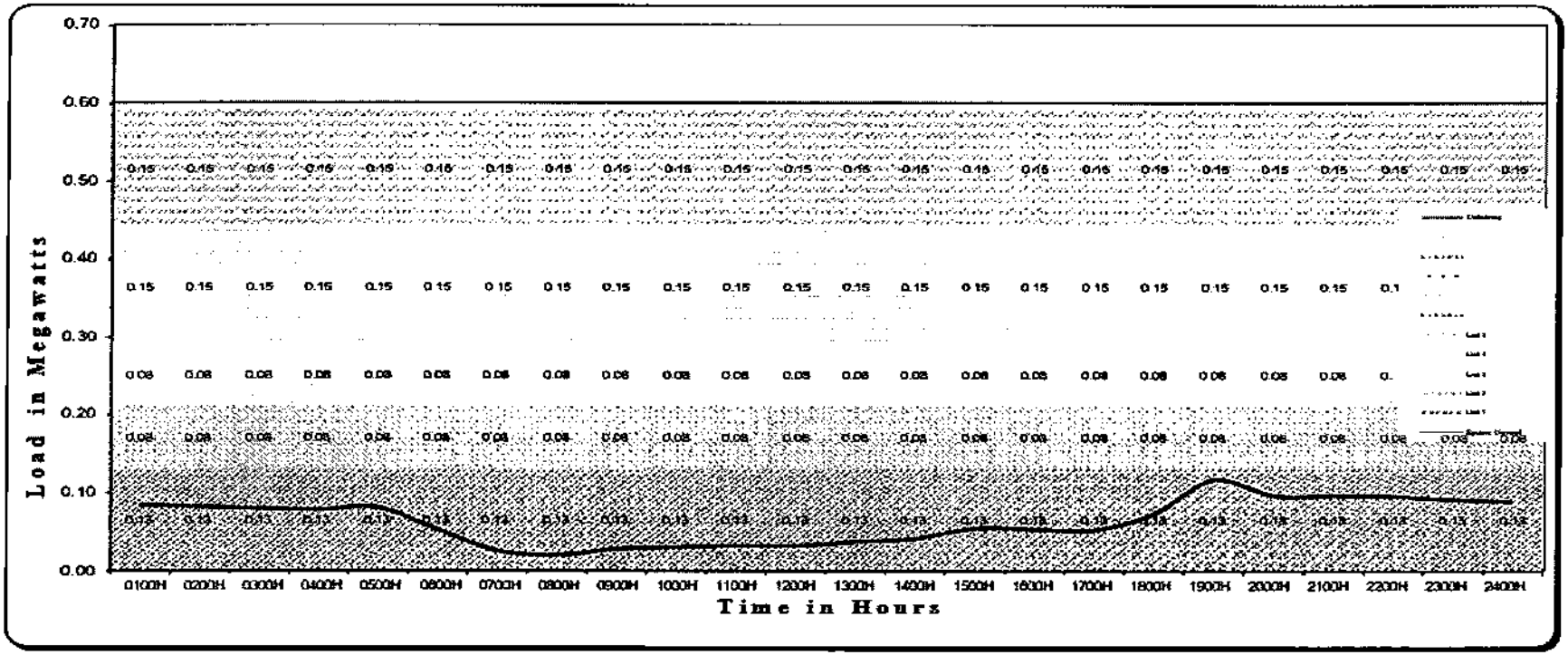


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.086	0.084	0.082	0.080	0.085	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.042	0.066	0.058	0.067	0.120	0.097	0.095	0.097	0.097	0.090
RESERVED / (DEFICIENCY)																							
0.504	0.506	0.508	0.510	0.505	0.508	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.548	0.524	0.532	0.523	0.470	0.493	0.495	0.493	0.493	0.500

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
OCTOBER 2024

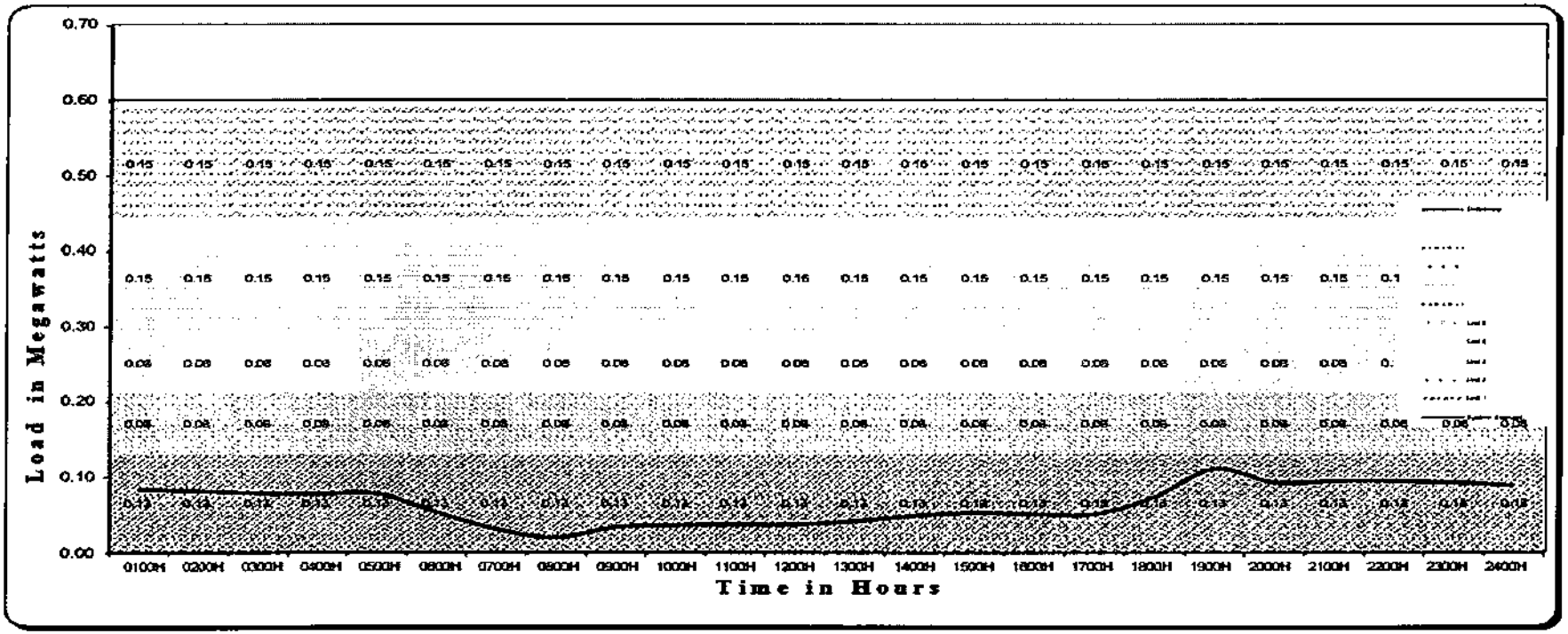


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.083	0.081	0.079	0.077	0.080	0.083	0.026	0.020	0.028	0.030	0.032	0.035	0.037	0.041	0.054	0.053	0.052	0.072	0.115	0.095	0.095	0.094	0.090	0.087
RESERVED / (DEFICIENCY)																							
0.507	0.509	0.511	0.513	0.510	0.507	0.564	0.570	0.562	0.560	0.558	0.555	0.553	0.549	0.536	0.537	0.538	0.518	0.475	0.495	0.495	0.496	0.500	0.503

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
NOVEMBER 2024

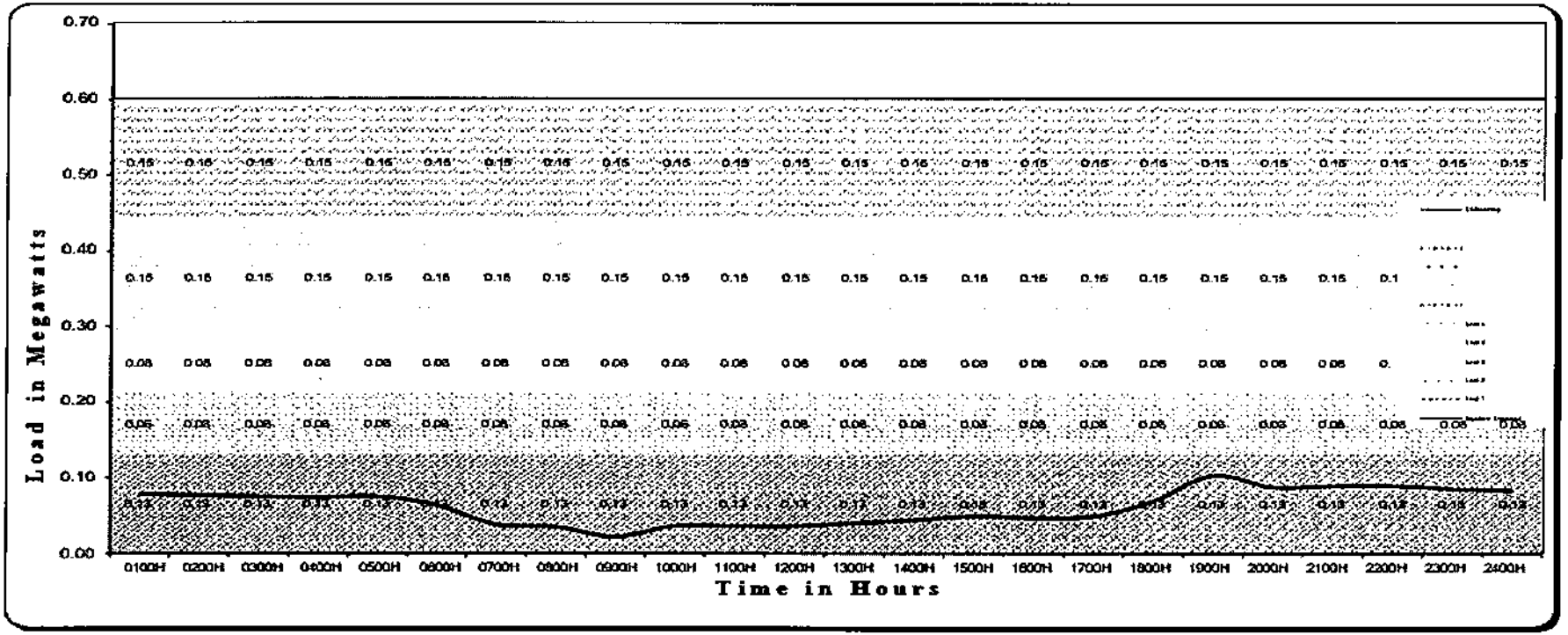


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.082	0.080	0.077	0.077	0.077	0.080	0.031	0.030	0.033	0.035	0.037	0.039	0.041	0.045	0.052	0.049	0.050	0.072	0.100	0.097	0.093	0.093	0.091	0.087
RESERVED / (DEFICIENCY)																							
0.508	0.510	0.513	0.513	0.513	0.510	0.559	0.560	0.557	0.555	0.553	0.551	0.549	0.545	0.538	0.541	0.540	0.518	0.491	0.493	0.497	0.497	0.499	0.503

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
DECEMBER 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.079	0.077	0.075	0.076	0.075	0.075	0.038	0.039	0.022	0.022	0.038	0.038	0.040	0.040	0.049	0.047	0.049	0.049	0.103	0.097	0.089	0.089	0.085	0.083
RESERVED / (DEFICIENCY)																							
0.511	0.513	0.515	0.514	0.515	0.515	0.552	0.551	0.568	0.568	0.554	0.552	0.550	0.550	0.541	0.543	0.541	0.541	0.487	0.493	0.501	0.501	0.505	0.507

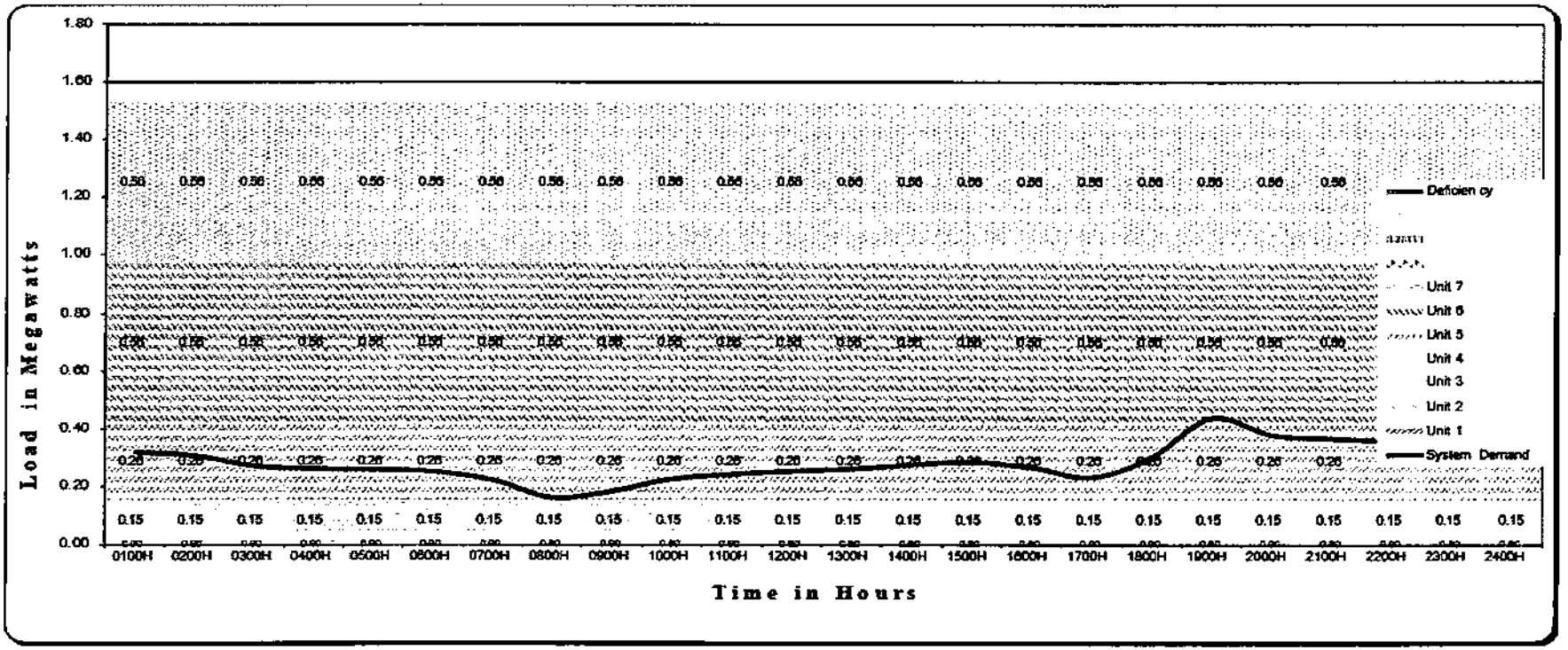
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

Jan. 25, 2024

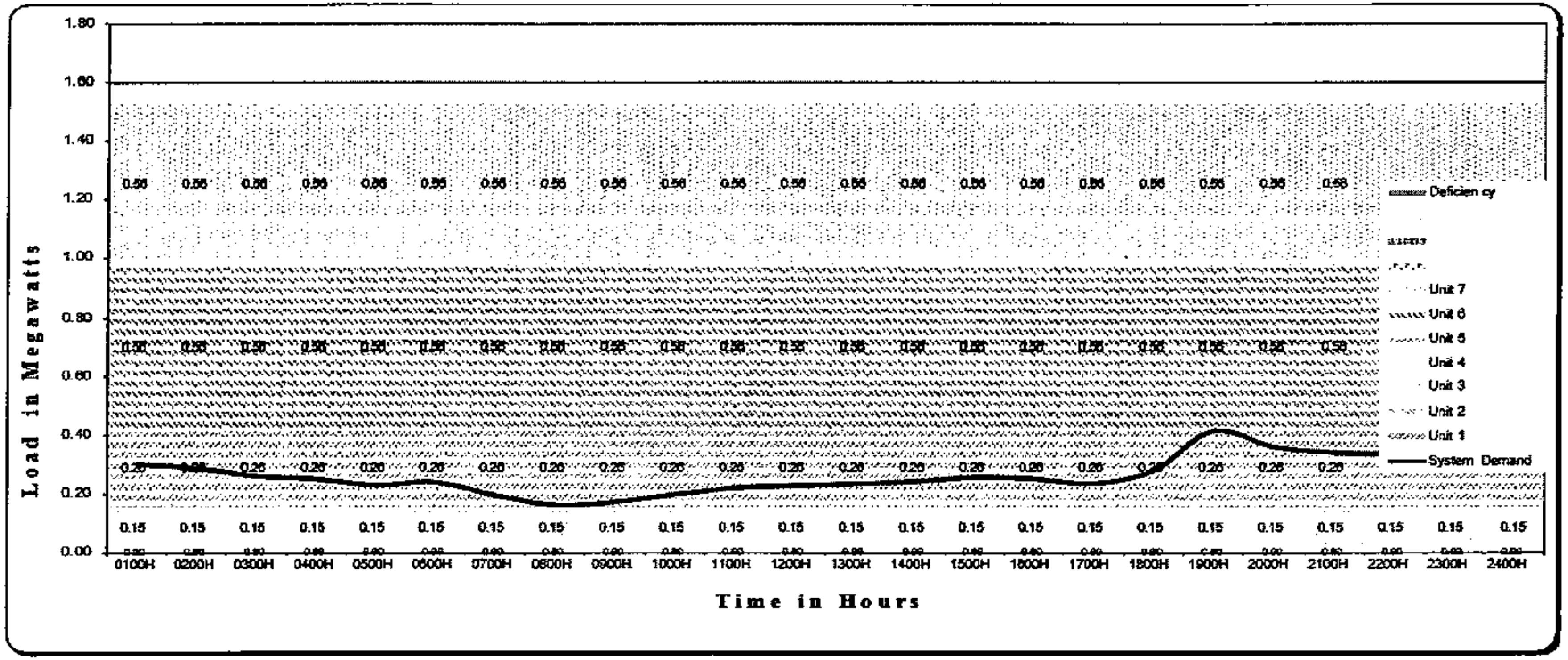


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530
SYSTEM DEMAND																							
0.318	0.305	0.270	0.265	0.257	0.250	0.221	0.199	0.182	0.254	0.240	0.253	0.260	0.270	0.283	0.280	0.230	0.230	0.437	0.370	0.365	0.364	0.340	0.330
RESERVED / (DEFICIENCY)																							
1.212	1.224	1.260	1.265	1.273	1.280	1.309	1.331	1.348	1.276	1.290	1.277	1.270	1.260	1.247	1.250	1.300	1.300	1.093	1.160	1.165	1.166	1.190	1.200

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
WEST SIMUNUL DPP
Feb. 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530
SYSTEM DEMAND																							
0.302	0.287	0.261	0.250	0.230	[illegible]	0.196	0.163	0.173	0.198	0.219	0.226	0.234	0.241	0.255	0.250	0.235	0.278	0.413	0.358	0.340	0.332	0.321	0.312
RESERVED / (DEFICIENCY)																							
1.228	1.243	1.269	1.280	1.300	1.291	1.334	1.367	1.357	1.332	1.311	1.302	1.296	1.290	1.275	1.280	1.295	1.252	1.117	1.172	1.190	1.198	1.209	1.218

National Power Corporation

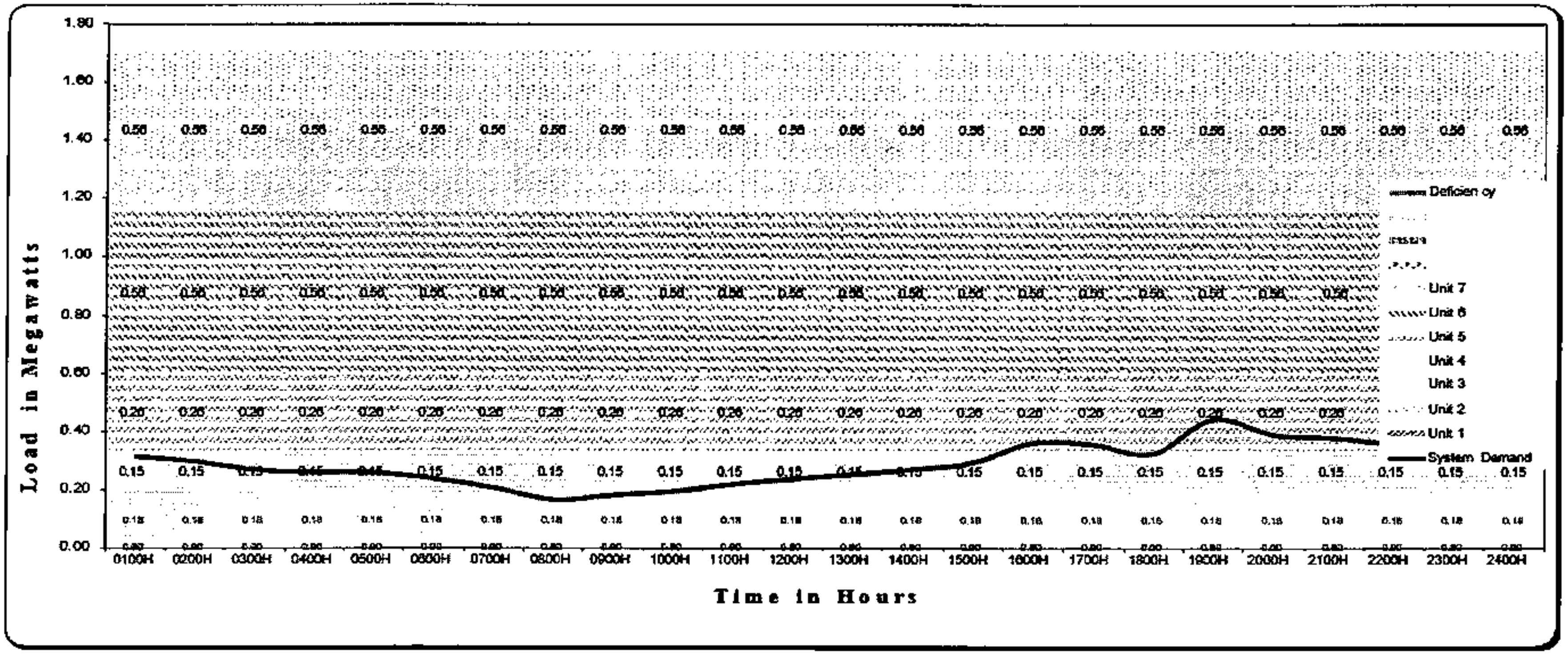
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

March 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	[illegible]	0900H	[illegible]	1100H	1200H	1300H	1400H	1500H	[illegible]	1700H	[illegible]	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	[illegible]	1.710	[illegible]	1.710	[illegible]	1.710	[illegible]	1.710	[illegible]	1.710	[illegible]	1.710	1.710	1.710	[illegible]
SYSTEM DEMAND																							
0.311	0.294	0.266	[illegible]	0.256	0.235	0.204	[illegible]	0.179	[illegible]	0.216	[illegible]	0.250	[illegible]	0.290	[illegible]	0.352	[illegible]	0.440	0.387	0.375	[illegible]	0.340	[illegible]
RESERVED / (DEFICIENCY)																							
1.399	1.416	1.444	1.452	1.454	1.475	1.506	[illegible]	1.531	[illegible]	1.494	[illegible]	1.460	[illegible]	1.420	[illegible]	1.358	[illegible]	1.270	[illegible]	1.335	[illegible]	1.370	[illegible]

National Power Corporation

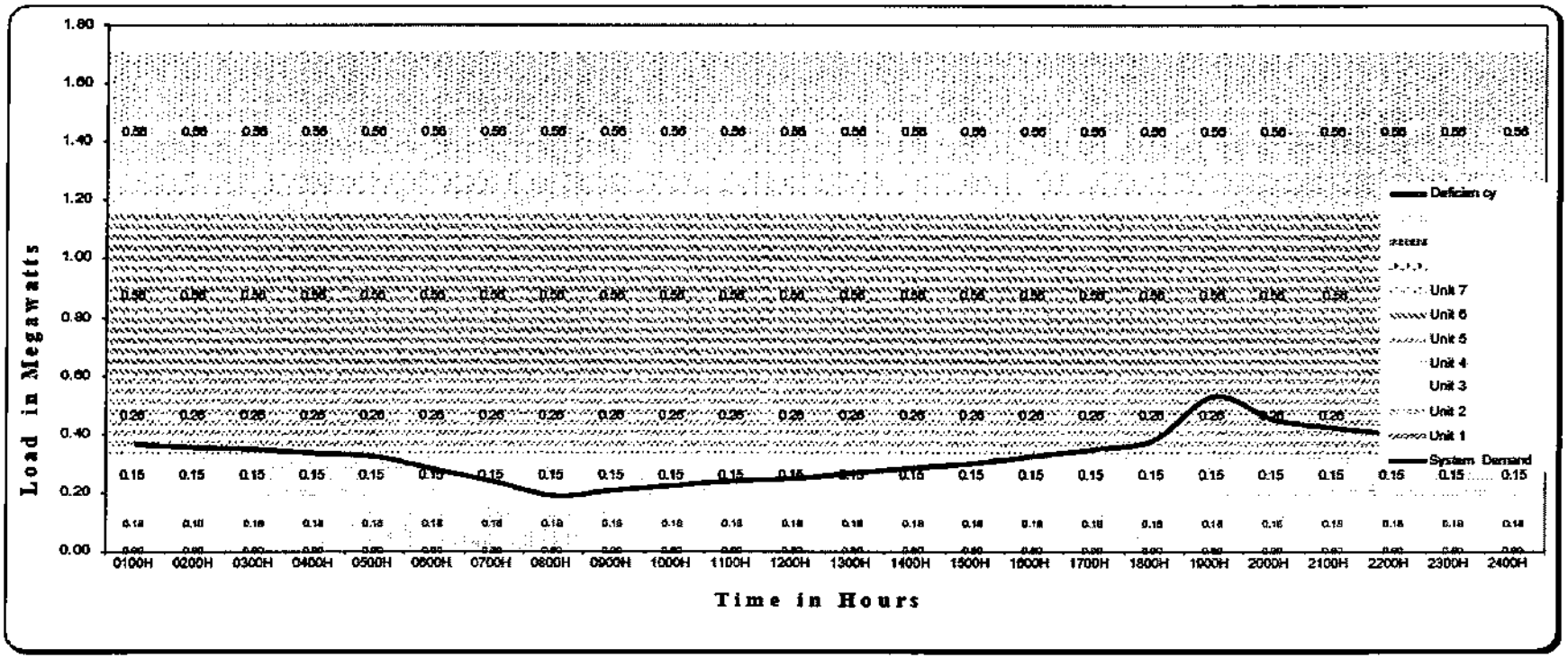
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

April 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710
SYSTEM DEMAND																							
0.365	0.348	0.324	0.238	0.208	0.240	0.267	0.300	0.348	0.530	0.422	0.386												
RESERVED / (DEFICIENCY)																							
1.345	1.362	1.386	1.472	1.502	1.470	1.443	1.410	1.362	1.180	1.288	1.324												

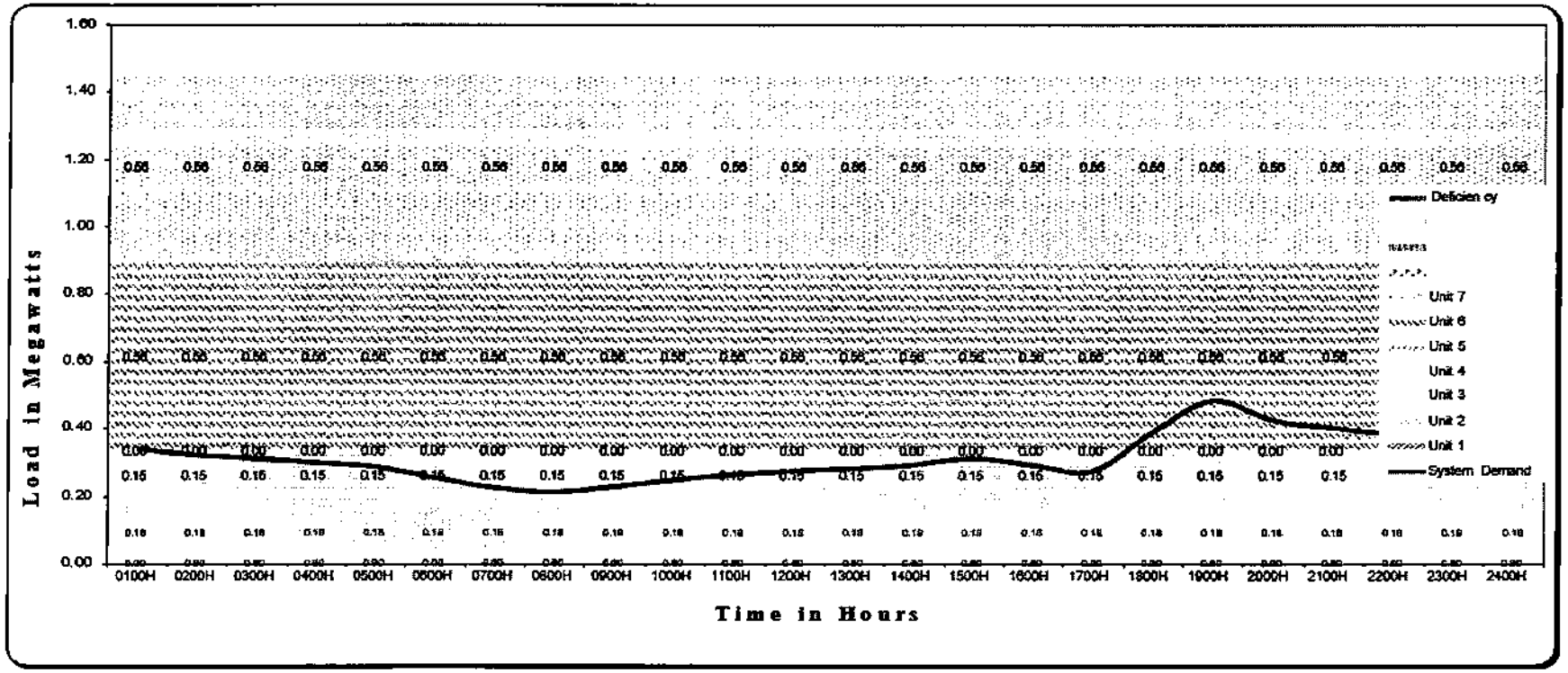
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

May 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450
SYSTEM DEMAND																							
0.339	0.310	0.285	0.222	0.226	0.262	0.280	0.311	0.273	0.484	0.402	0.370												
RESERVED / (DEFICIENCY)																							
1.111	1.140	1.165	1.228	1.224	1.188	1.170	1.139	1.177	0.966	1.048	1.080												

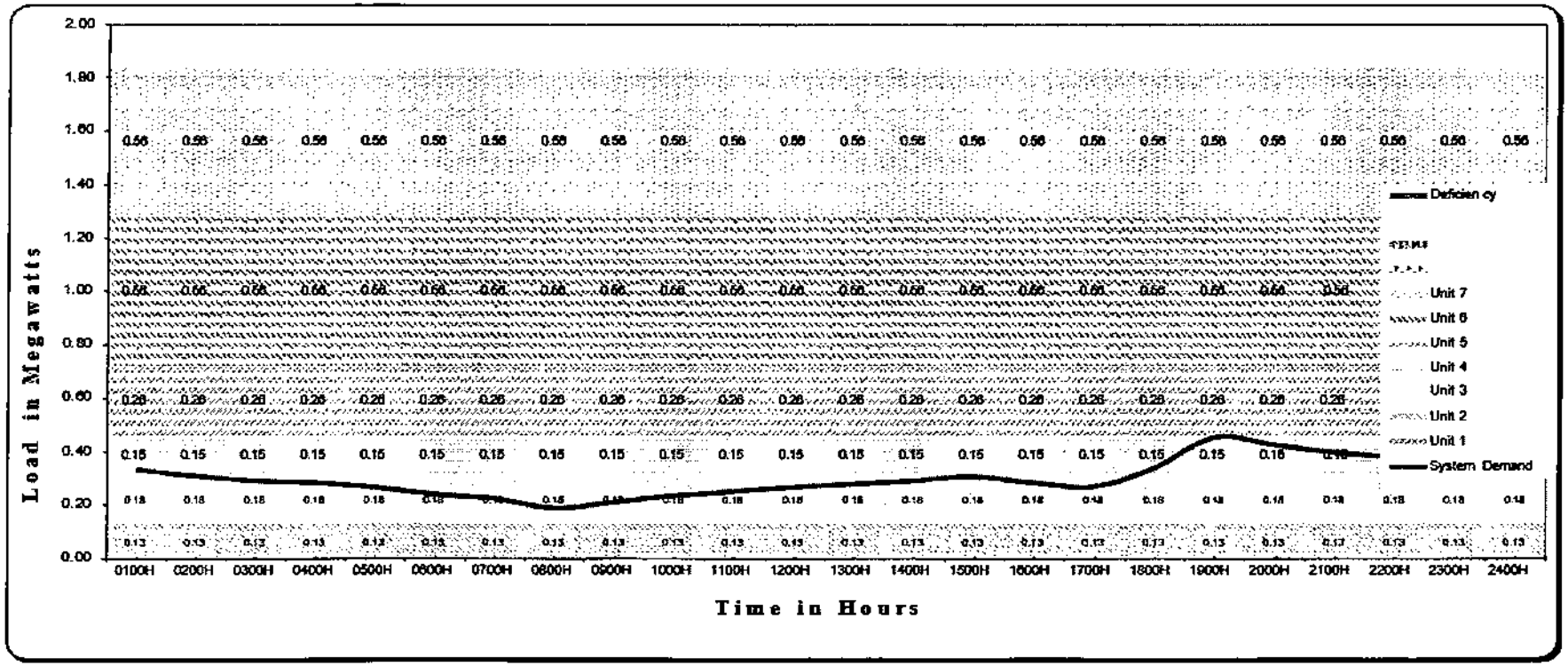
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

June 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835
SYSTEM DEMAND																							
0.331	0.307	0.290	0.282	0.265	0.240	0.224	0.200	0.212	0.235	0.250	0.266	0.277	0.290	0.304	0.282	0.268	0.287	0.450	0.422	0.394	0.378	0.352	0.340
RESERVED / (DEFICIENCY)																							
1.504	1.528	1.545	1.553	1.570	1.595	1.611	1.635	1.623	1.600	1.585	1.569	1.558	1.545	1.531	1.553	1.567	1.548	1.385	1.413	1.441	1.457	1.483	1.495

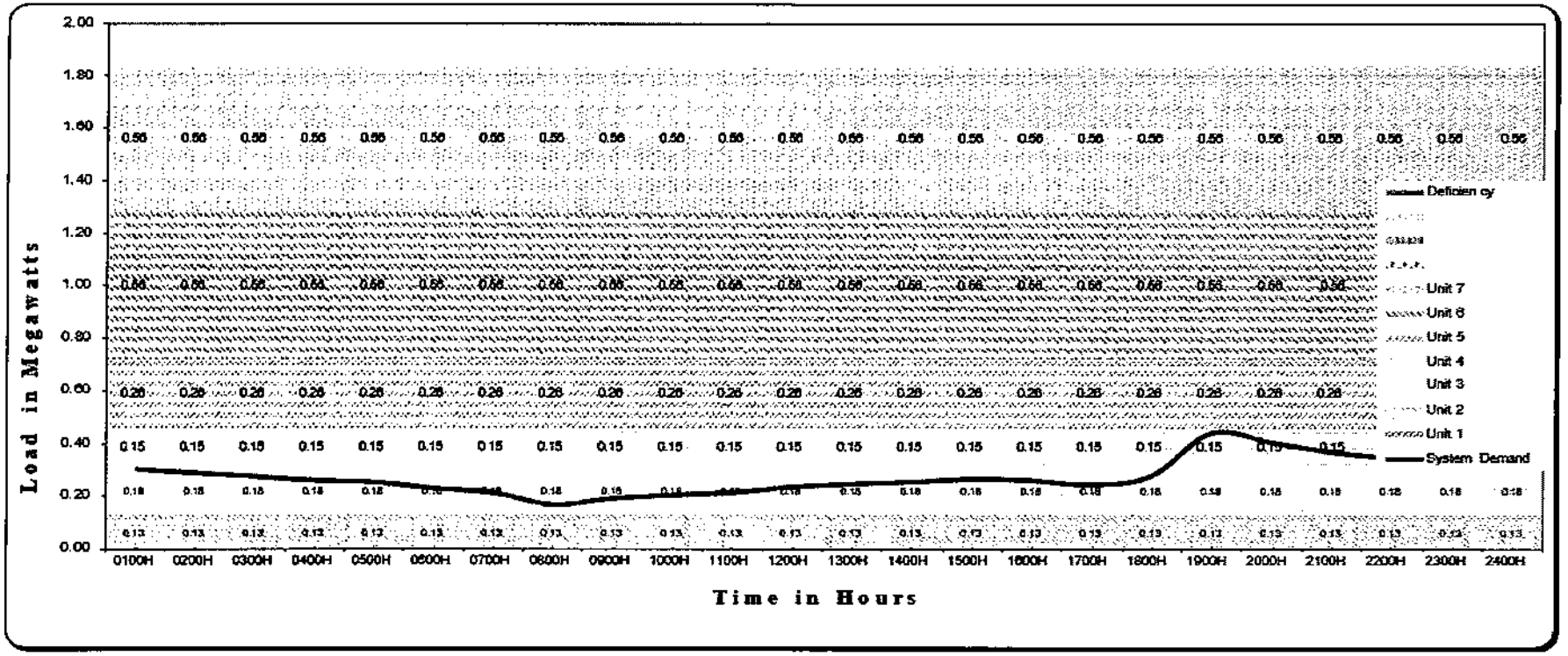
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

July 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835
SYSTEM DEMAND																							
0.303	0.289	0.275	0.259	0.253	0.236	0.214	0.170	0.193	0.206	0.215	0.230	0.247	0.262	0.265	0.260	0.244	0.227	0.440	0.409	0.368	0.344	0.324	0.310
RESERVED / (DEFICIENCY)																							
1.532	1.547	1.560	1.576	1.582	1.599	1.621	1.665	1.642	1.629	1.620	1.605	1.588	1.573	1.570	1.575	1.591	1.608	1.395	1.426	1.467	1.491	1.511	1.525

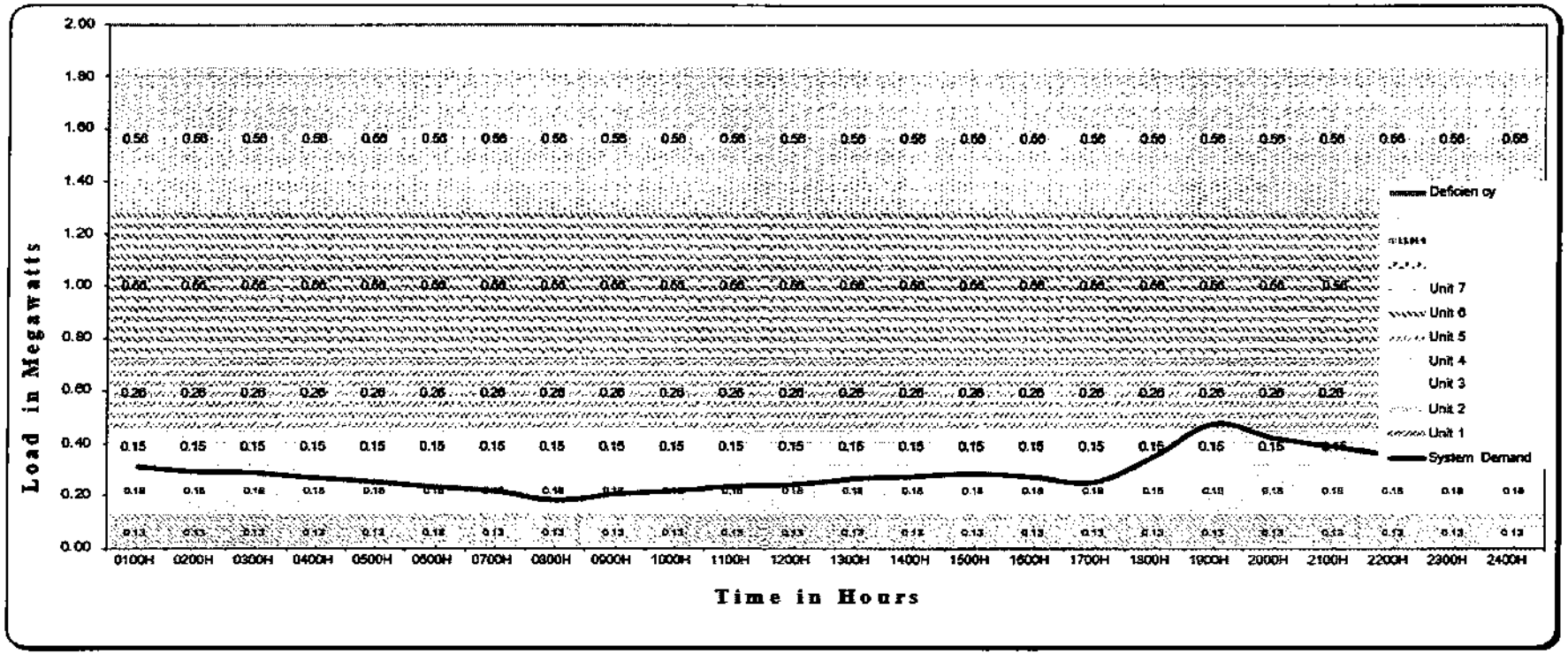
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

August 25, 2024

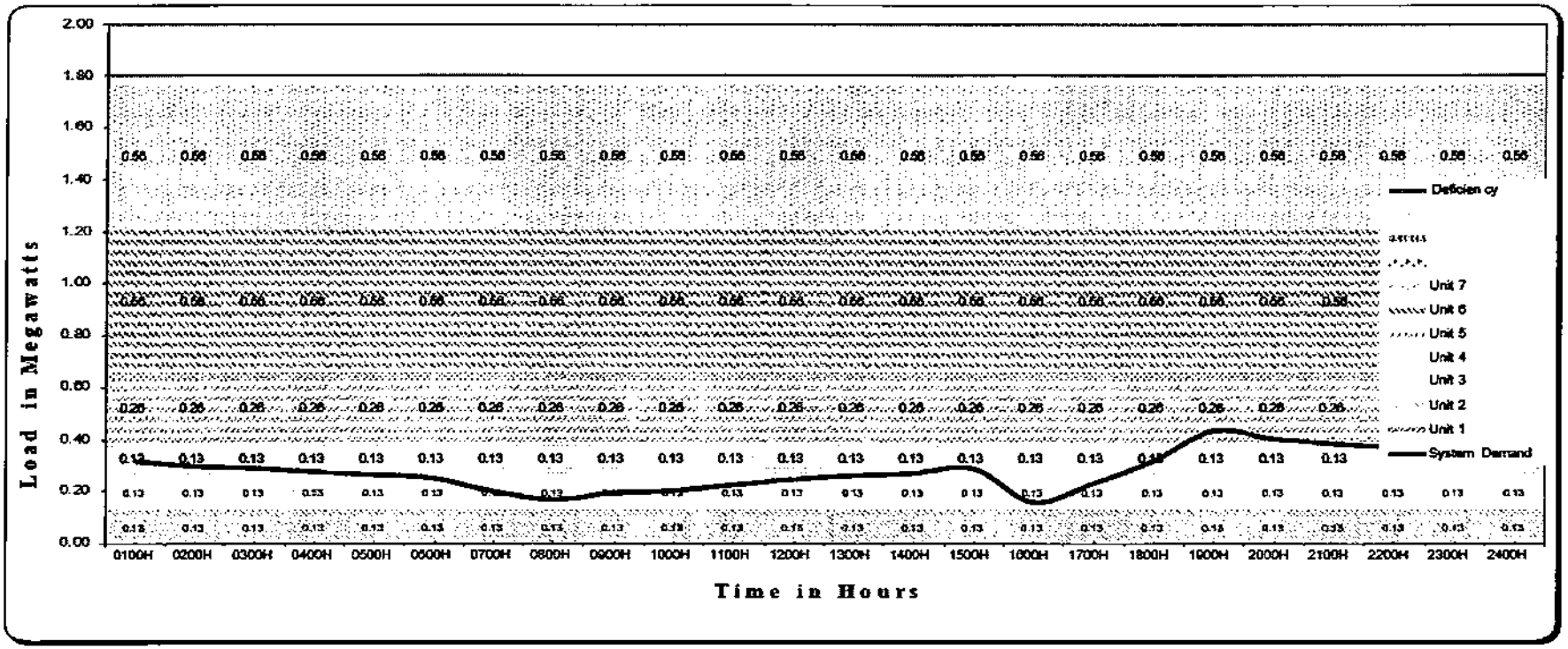


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835
SYSTEM DEMAND																							
0.312	0.288	0.254	0.219	0.207	0.237	0.265	0.285	0.252	0.478	0.322	0.389	0.337	0.338										
RESERVED / (DEFICIENCY)																							
1.523	1.547	1.581	1.616	1.628	1.598	1.570	1.550	1.583	1.359	1.513	1.446	1.497											

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
WEST SIMUNUL DPP
Sept. 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765
SYSTEM DEMAND																							
0.316	0.290	0.290	0.278	0.265	0.290	0.200	0.170	0.194	0.205	0.225	0.250	0.261	0.270	0.288	0.340	0.230	0.317	0.433	0.402	0.384	0.370	0.358	0.340
RESERVED / (DEFICIENCY)																							
1.449	1.475	1.475	1.487	1.500	1.475	1.565	1.595	1.571	1.560	1.540	1.515	1.504	1.495	1.477	1.425	1.535	1.448	1.332	1.363	1.381	1.395	1.407	1.425

National Power Corporation

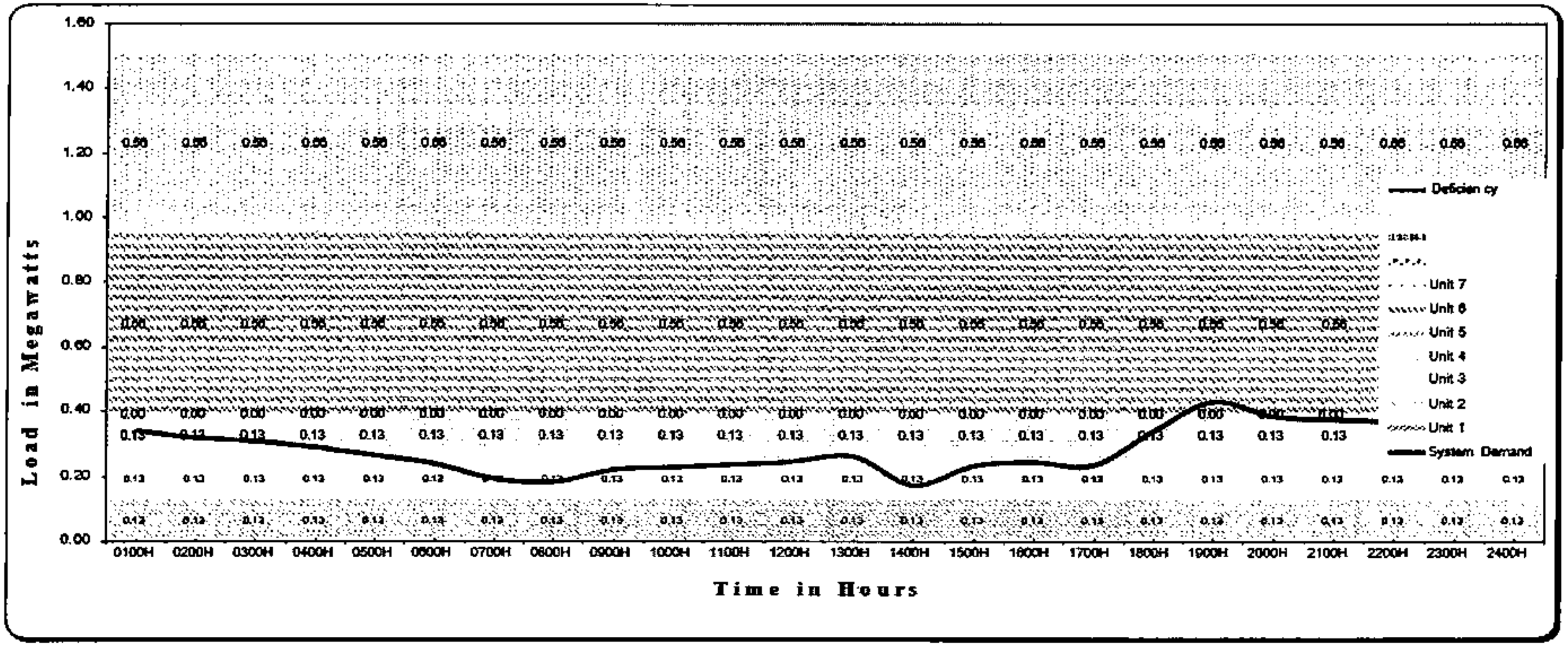
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

Oct. 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]
SYSTEM DEMAND																							
0.340	[illegible]	0.307	[illegible]	0.263	[illegible]	0.191	[illegible]	0.218	0.226	0.235	[illegible]	0.260	[illegible]	0.230	[illegible]	0.232	[illegible]	0.430	[illegible]	0.375	[illegible]	0.360	[illegible]
RESERVED / (DEFICIENCY)																							
1.165	[illegible]	1.198	[illegible]	1.242	[illegible]	1.314	[illegible]	1.287	[illegible]	1.270	[illegible]	1.245	[illegible]	1.275	[illegible]	1.273	[illegible]	1.075	[illegible]	1.130	[illegible]	1.145	[illegible]

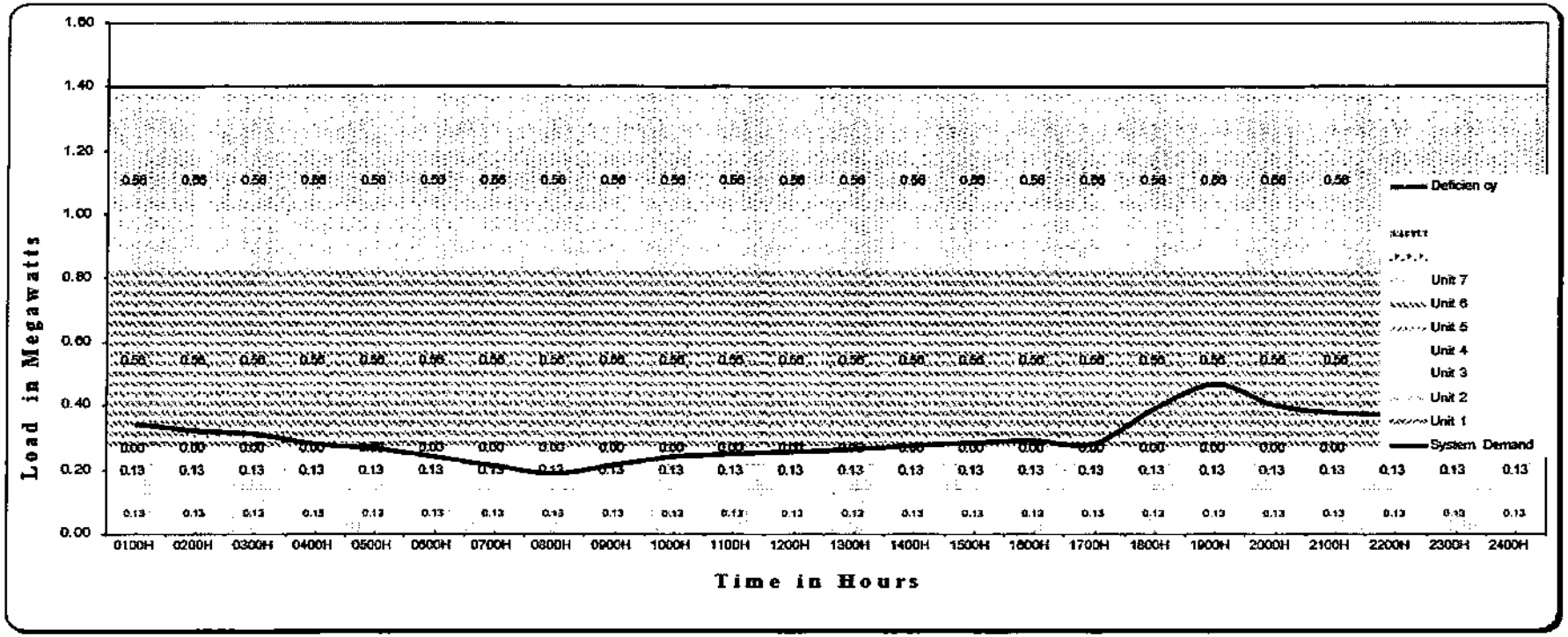
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

Nov. 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380
SYSTEM DEMAND																							
0.342	0.321	0.310	0.280	0.266	0.240	0.212	0.196	0.215	0.240	0.249	0.266	0.283	0.272	0.284	0.290	0.280	0.300	0.465	0.400	0.377	0.370	0.363	0.350
RESERVED / (DEFICIENCY)																							
1.038	1.059	1.070	1.100	1.114	1.140	1.168	1.184	1.165	1.140	1.131	1.114	1.097	1.108	1.096	1.090	1.100	1.080	0.915	0.980	1.003	1.010	1.017	1.030

National Power Corporation

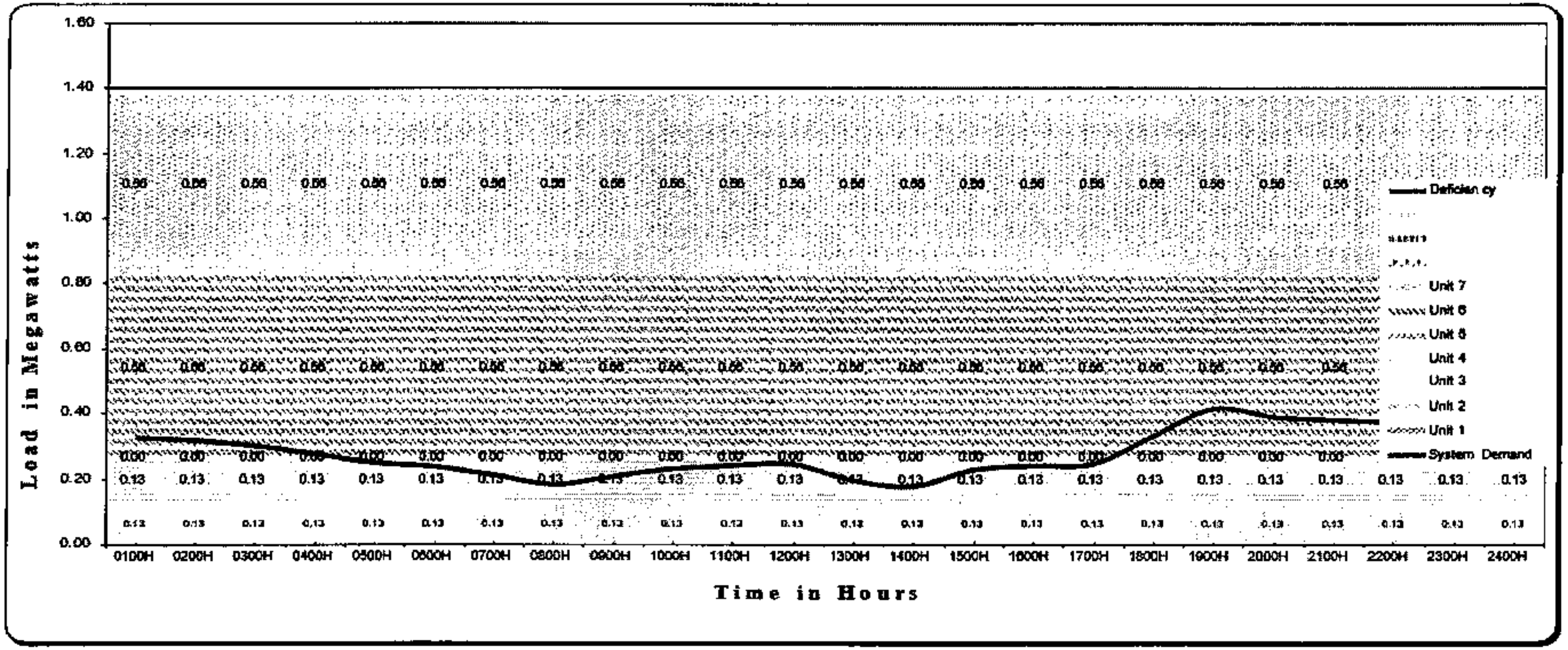
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

Dec. 25, 2024

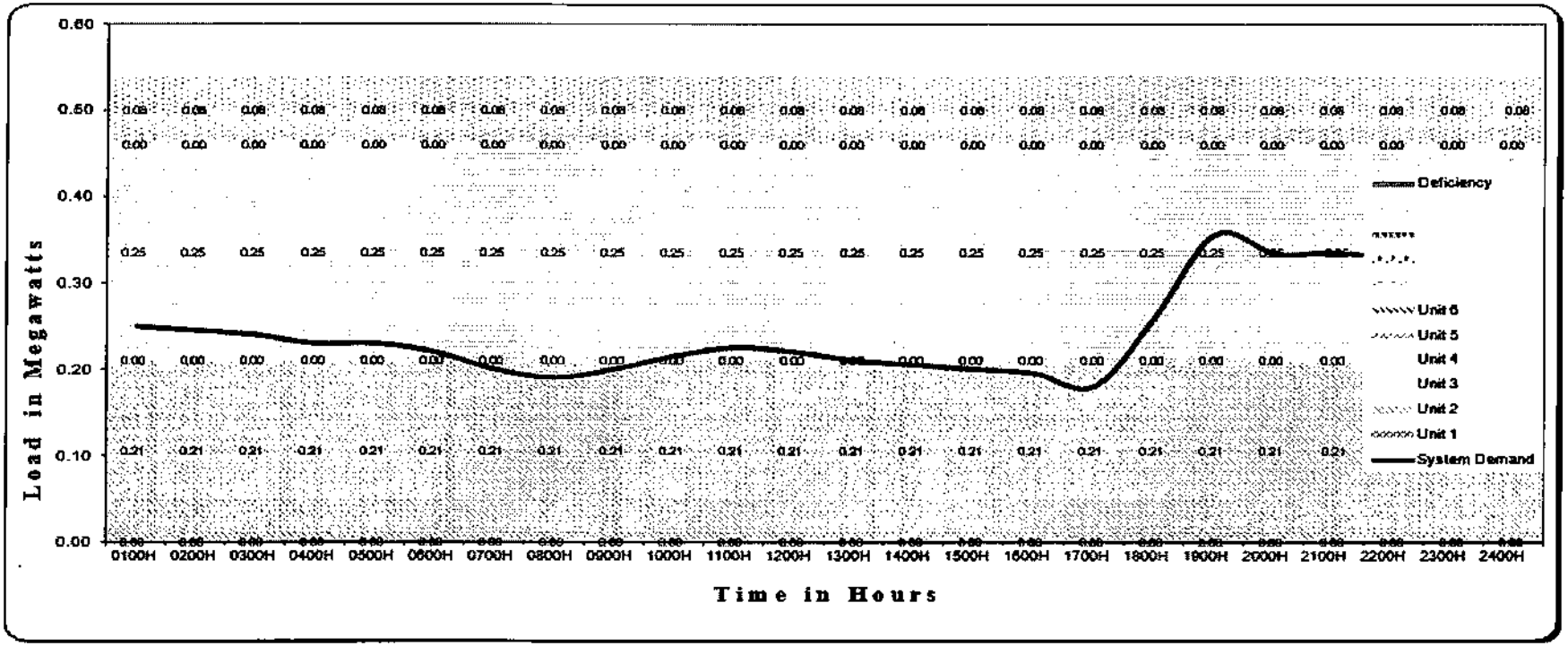


0100H	[illegible]	0300H	[illegible]	0500H	[illegible]	0700H	[illegible]	0900H	[illegible]	1100H	[illegible]	1300H	[illegible]	1500H	[illegible]	1700H	[illegible]	1900H	[illegible]	2100H	[illegible]	2300H	[illegible]
TOTAL CAPABILITY																							
1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]
SYSTEM DEMAND																							
0.325	[illegible]	0.300	[illegible]	0.248	[illegible]	0.210	[illegible]	0.206	[illegible]	0.239	[illegible]	0.194	[illegible]	0.226	[illegible]	0.245	[illegible]	0.415	[illegible]	0.380	[illegible]	0.358	[illegible]
RESERVED / (DEFICIENCY)																							
1.055	[illegible]	1.080	[illegible]	1.132	[illegible]	1.170	[illegible]	1.174	[illegible]	1.141	[illegible]	1.186	[illegible]	1.154	[illegible]	1.135	[illegible]	0.965	[illegible]	1.000	[illegible]	1.022	[illegible]

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
January 2024

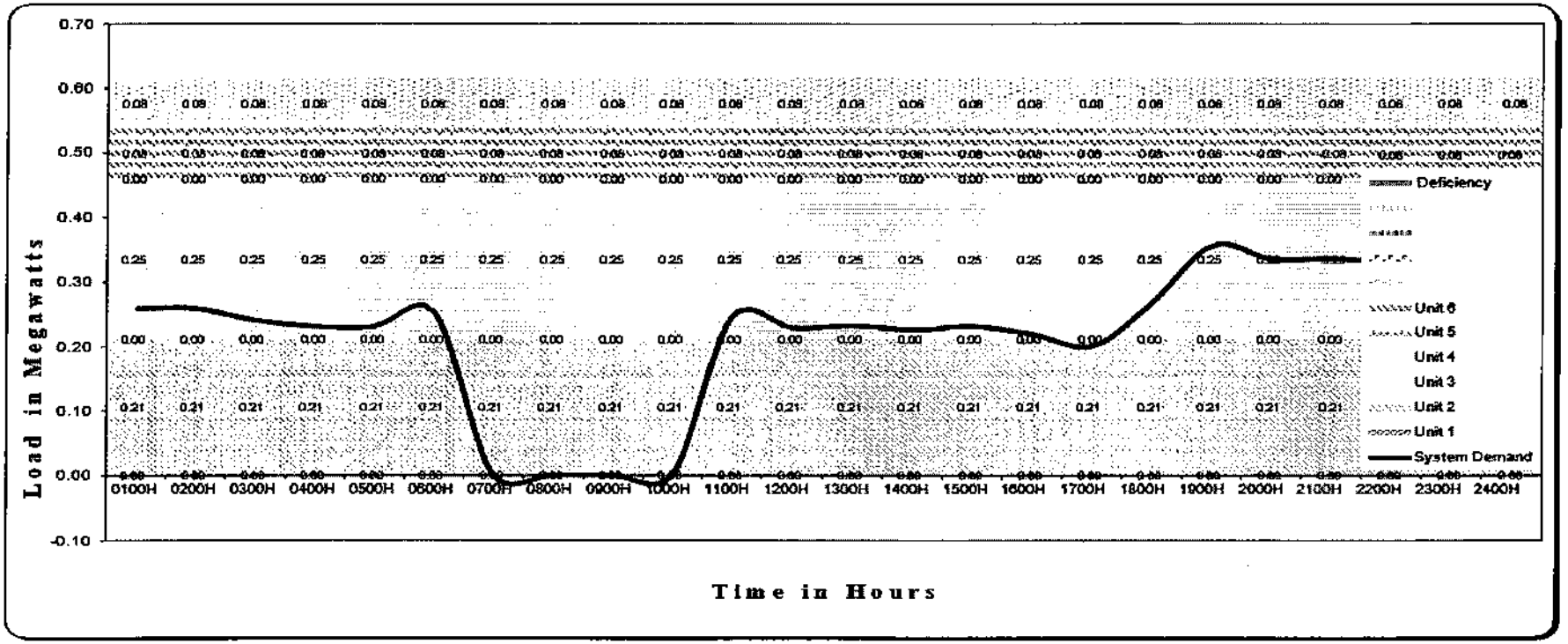


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460
SYSTEM DEMAND																							
0.250	0.240	0.240	0.230	0.230	0.200	0.190	0.200	0.215	0.225	0.220	0.210	0.205	0.200	0.195	0.180	0.260	0.356	0.337	0.336	0.322	0.280	0.260	0.250
RESERVED / (DEFICIENCY)																							
0.210	0.220	0.220	0.230	0.230	0.260	0.270	0.260	0.245	0.235	0.240	0.250	0.255	0.260	0.265	0.280	0.200	0.104	0.123	0.125	0.138	0.180	0.200	0.210

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
FEBRUARY 2024

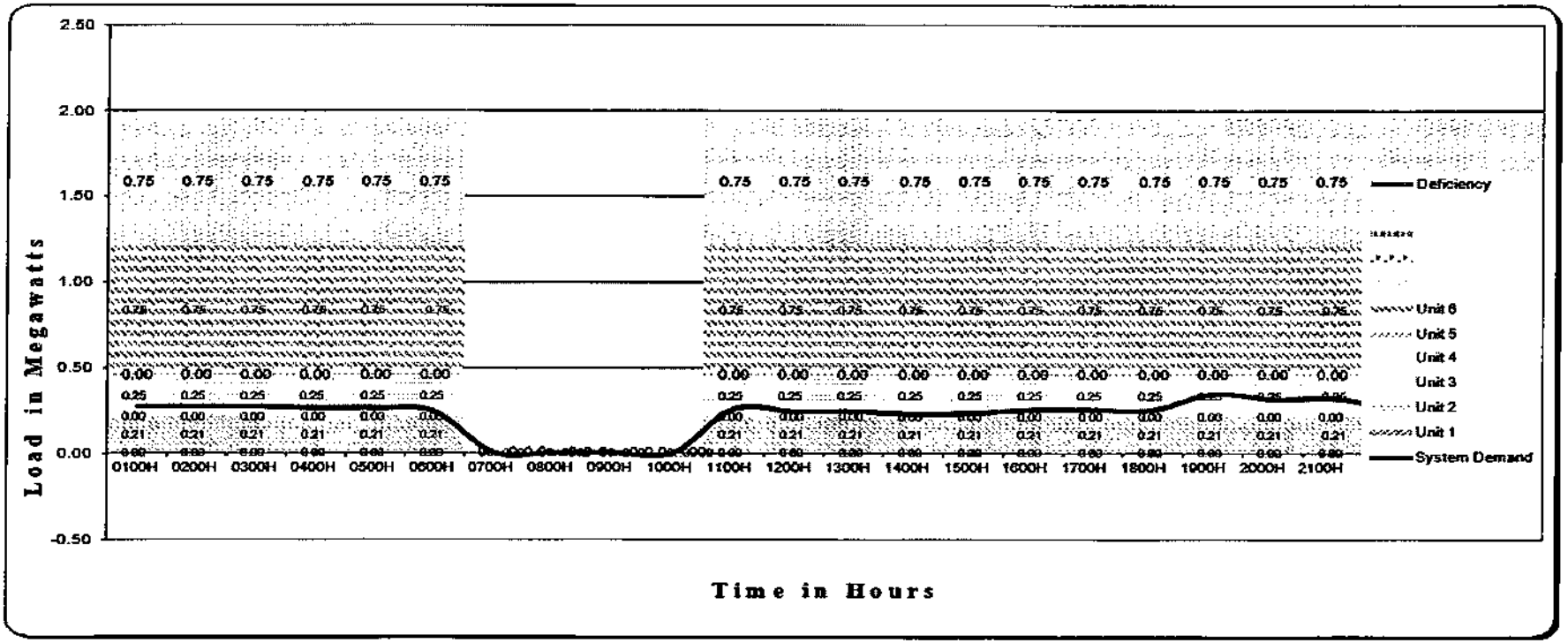


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535
SYSTEM DEMAND																							
0.258	0.255	0.240	0.230	0.230	0.252	0.000	0.000	0.000	0.000	0.246	0.226	0.231	0.225	0.230	0.218	0.200	0.265	0.356	0.334	0.335	0.324	0.280	0.260
RESERVED / (DEFICIENCY)																							
0.277	0.280	0.295	0.305	0.305	0.283	0.535	0.535	0.535	0.535	0.289	0.309	0.304	0.310	0.305	0.317	0.335	0.270	0.179	0.201	0.200	0.211	0.255	0.275

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
March 2024

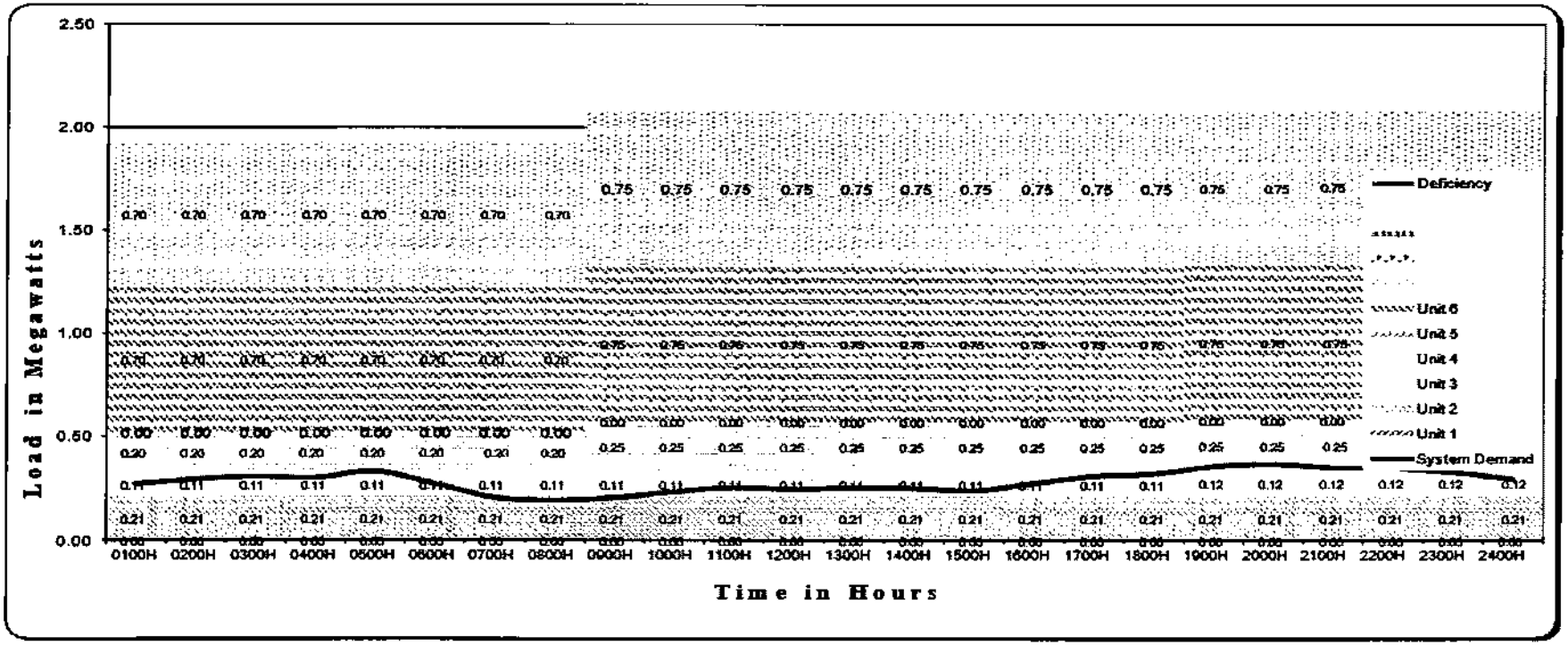


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.210	1.210	1.210	1.210	1.210	1.210	0.000	0.000	0.000	0.000	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210
SYSTEM DEMAND																							
0.270	0.270	0.270	0.270	0.260	0.260	0.000	0.000	0.000	0.000	0.256	0.240	0.240	0.230	0.230	0.250	0.250	0.342	0.342	0.317	0.317	0.260	0.260	0.260
RESERVED / (DEFICIENCY)																							
0.940	0.940	0.940	0.940	0.950	0.950	0.000	0.000	0.000	0.000	0.954	0.970	0.970	0.980	0.980	0.960	0.960	0.868	0.868	0.893	0.893	0.950	0.950	0.950

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
April 2024

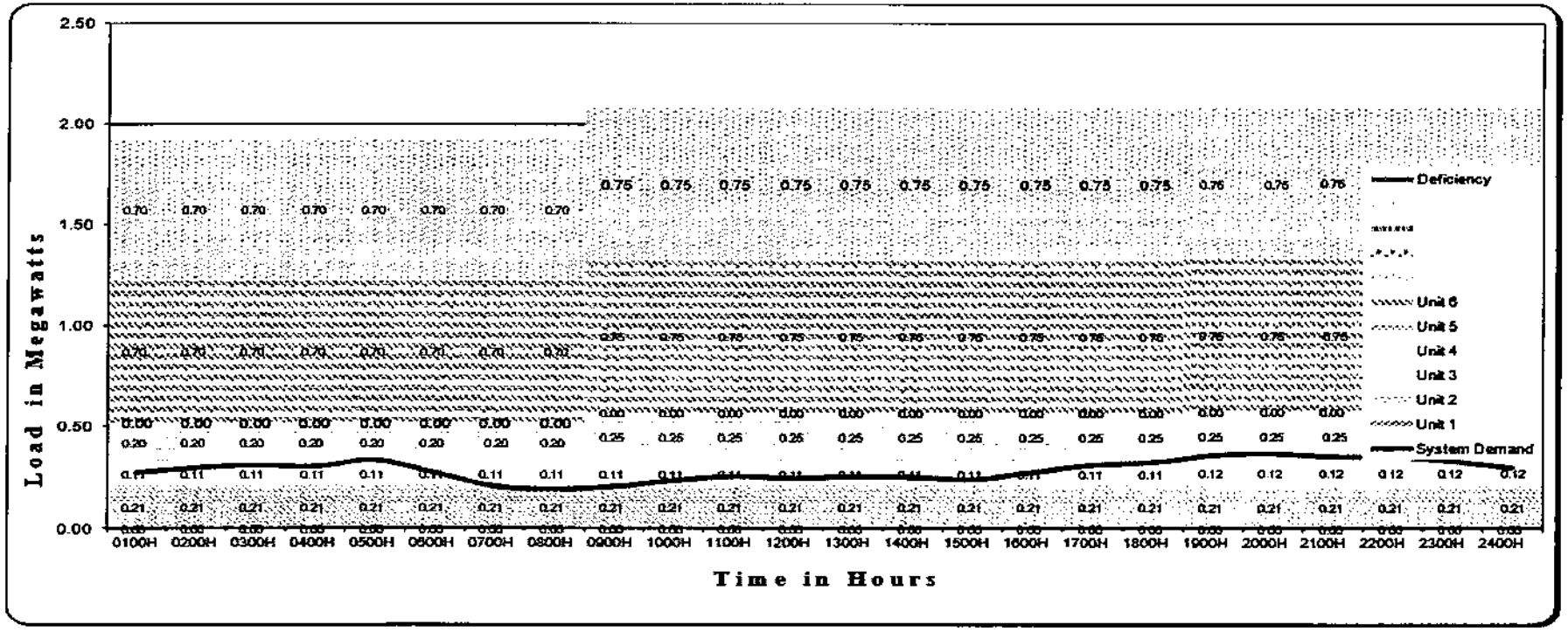


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND																							
0.275	0.260	0.310	0.284	0.334	0.276	0.210	0.197	0.209	0.227	0.256	0.240	0.268	0.253	0.243	0.227	0.312	0.293	0.359	0.370	0.352	0.350	0.330	0.298
RESERVED / (DEFICIENCY)																							
0.945	0.960	0.910	0.936	0.886	0.944	1.010	1.123	1.111	1.093	1.064	1.080	1.052	1.067	1.077	1.093	1.008	1.027	0.971	0.960	0.978	0.980	1.000	1.032

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
May 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND																							
0.275	0.260	0.310	0.330	0.334	0.270	0.210	0.197	0.209	0.270	0.256	0.256	0.256	0.256	0.243	0.277	0.312	0.324	0.359	0.368	0.352	0.350	0.330	0.296
RESERVED / (DEFICIENCY)																							
0.945	0.960	0.910	0.890	0.886	0.950	1.010	1.023	1.111	1.050	1.064	1.064	1.064	1.064	1.077	1.043	1.008	0.996	0.971	0.962	0.978	0.980	1.000	1.034

National Power Corporation

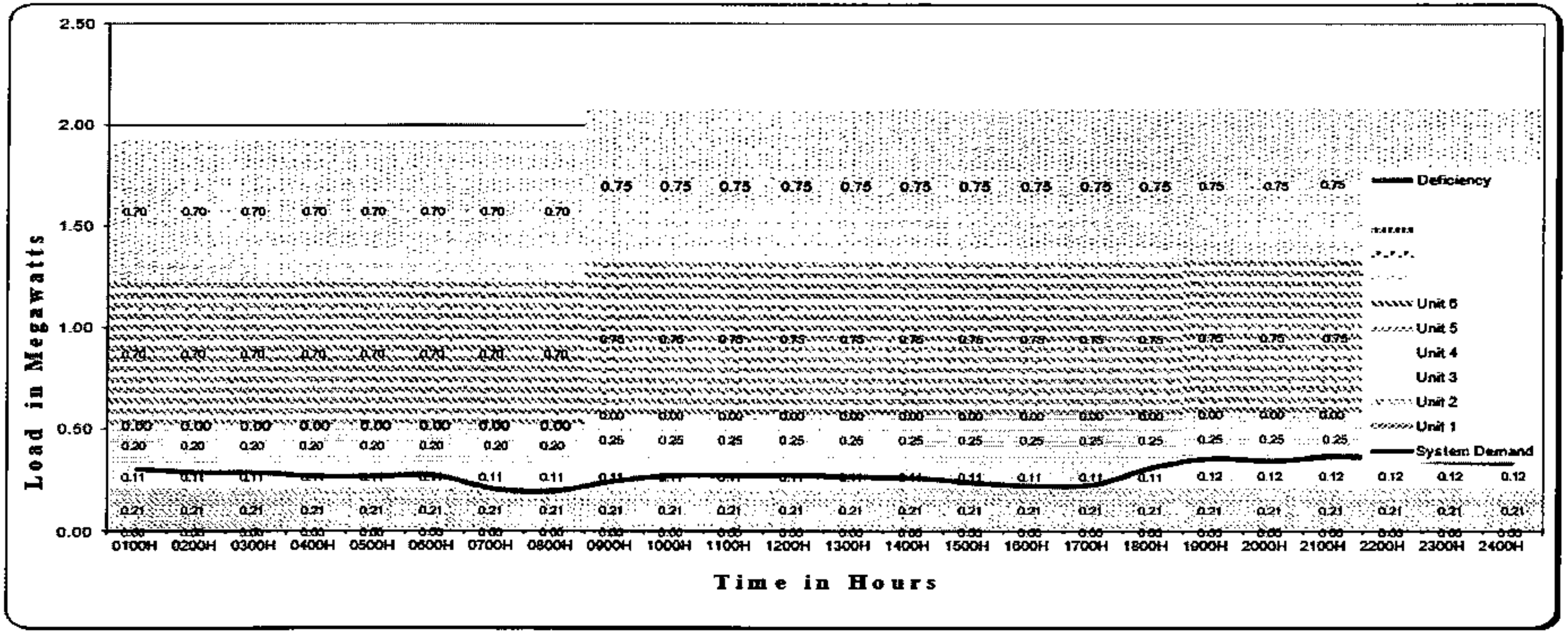
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

TANDUBAS DPP

JUNE 2024

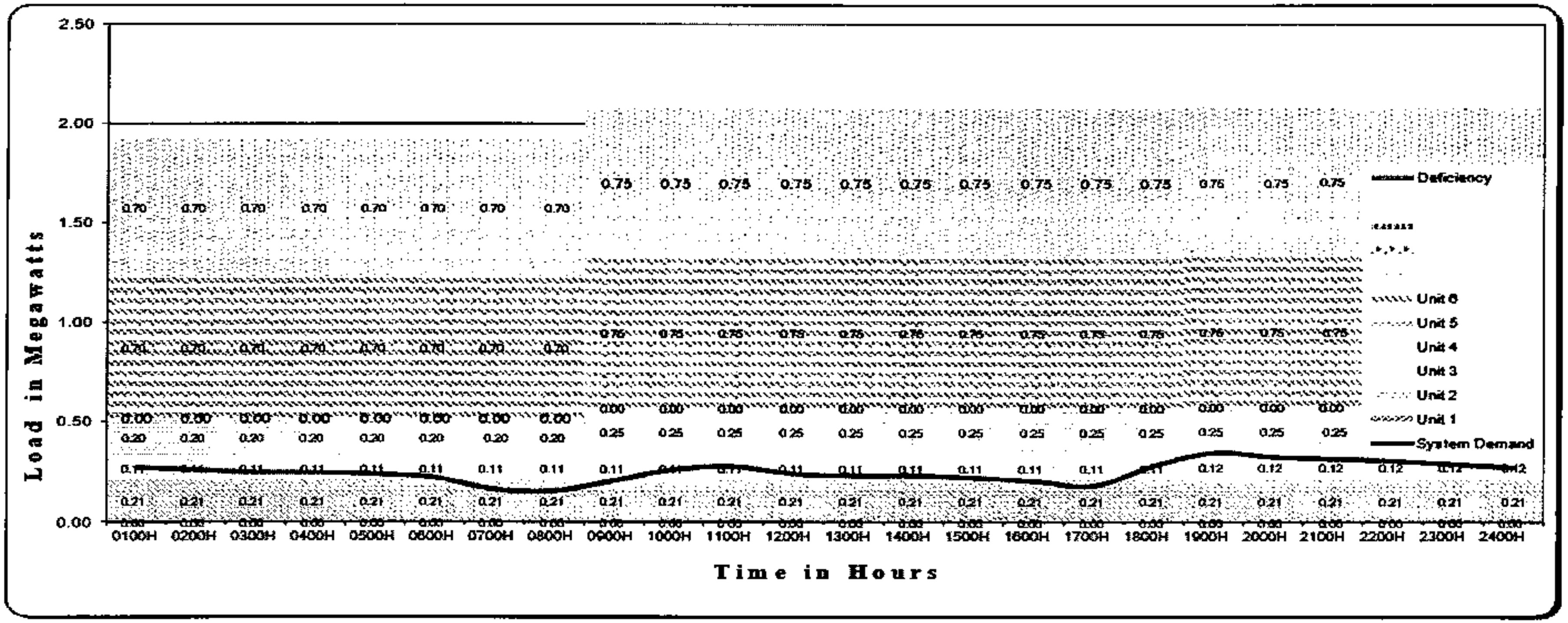


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND																							
0.302	0.296	0.287	0.280	0.268	0.222	0.205	0.184	0.243	0.270	0.272	0.275	0.265	0.260	0.236	0.220	0.226	0.313	0.357	0.344	0.369	0.355	0.340	0.337
RESERVED / (DEFICIENCY)																							
0.918	0.932	0.933	0.961	0.952	0.998	1.015	1.026	1.077	1.040	1.048	1.047	1.055	1.061	1.084	1.100	1.094	1.007	0.973	0.980	0.961	0.975	0.990	0.993

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
JULY 2024

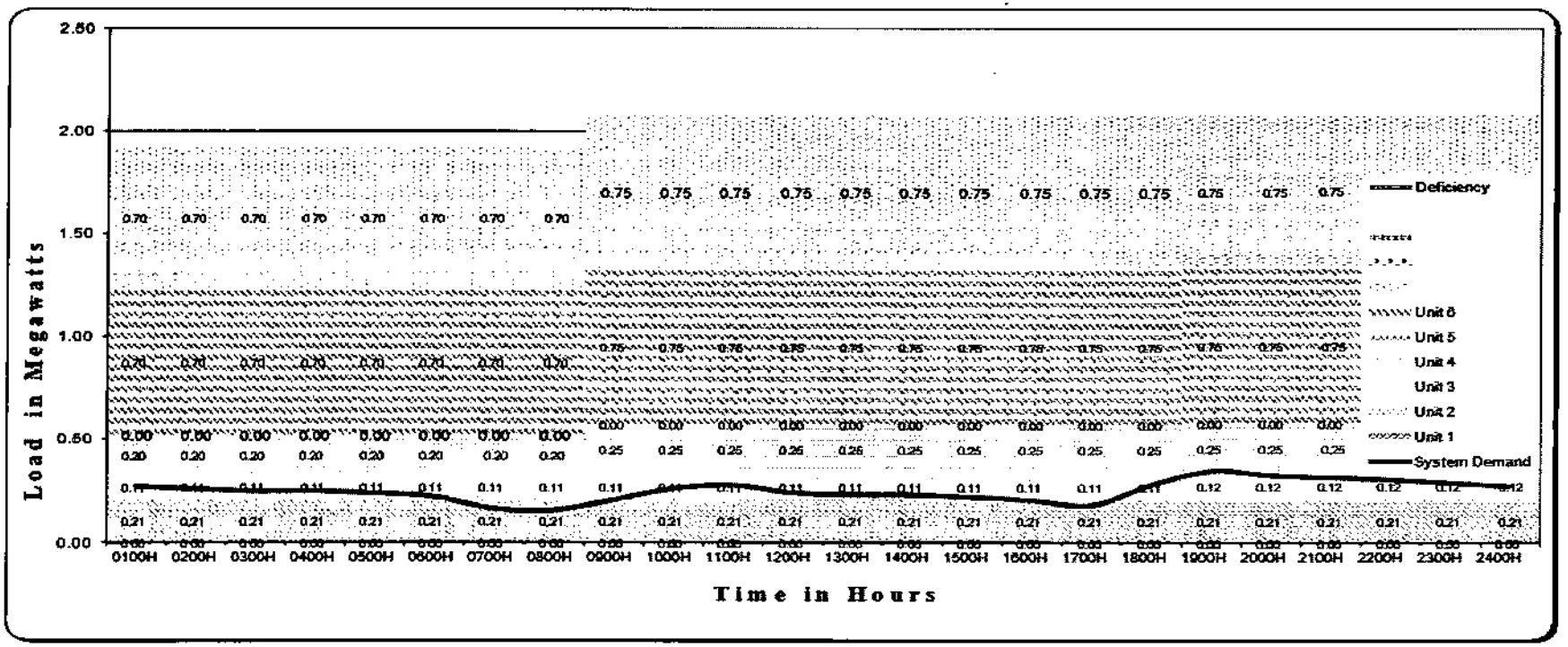


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	[illegible]	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	[illegible]
SYSTEM DEMAND																							
0.270	[illegible]	0.247	0.240	0.238	[illegible]	0.163	[illegible]	0.205	0.250	0.275	[illegible]	0.230	[illegible]	0.218	[illegible]	0.180	0.260	0.345	0.324	0.314	0.304	0.287	0.270
RESERVED / (DEFICIENCY)																							
0.950	0.962	0.973	0.974	0.982	1.000	1.057	[illegible]	1.115	1.060	1.045	[illegible]	1.090	[illegible]	1.102	[illegible]	1.140	1.060	0.985	1.006	1.016	1.026	1.043	1.060

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
August 2024

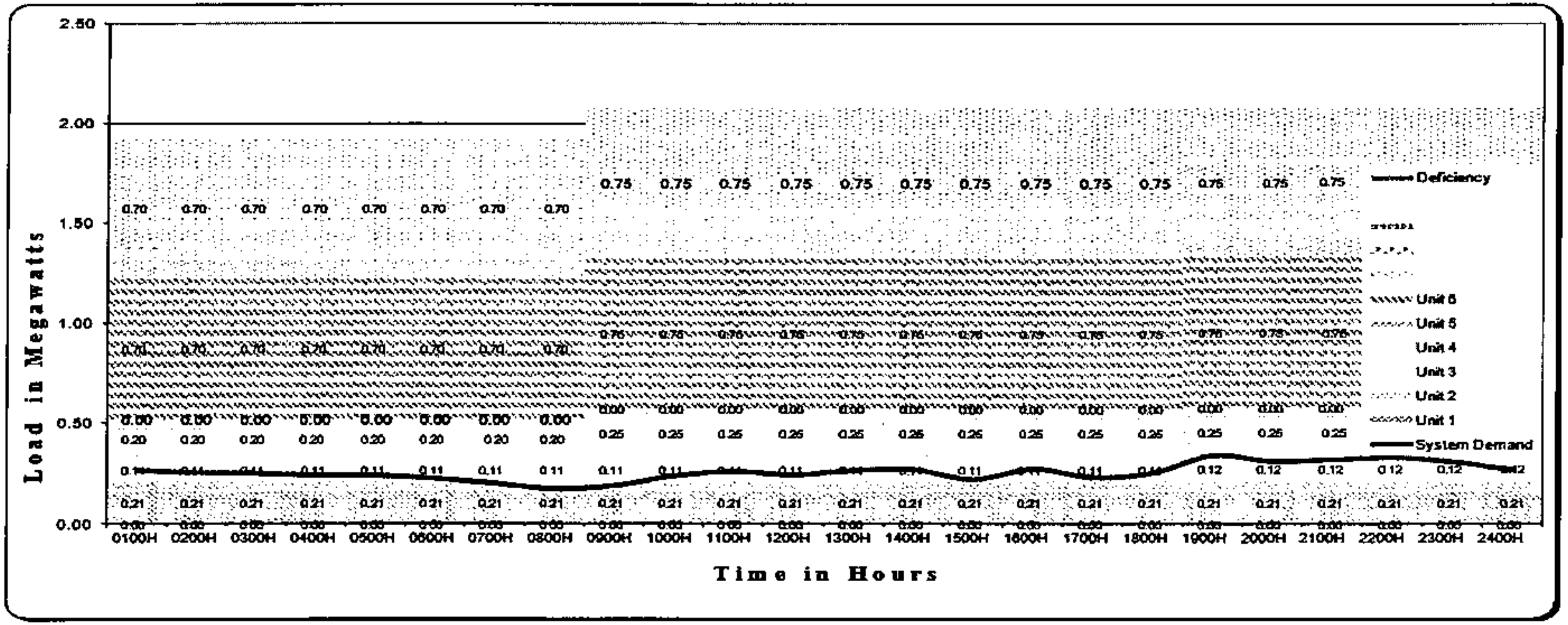


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND																							
0.270	0.259	0.247	0.243	0.238	0.220	0.183	0.189	0.205	0.255	0.275	0.290	0.230	0.230	0.218	0.203	0.180	0.290	0.345	0.324	0.314	0.304	0.287	0.270
RESERVED / (DEFICIENCY)																							
0.950	0.961	0.973	0.977	0.982	1.000	1.037	1.031	1.115	1.065	1.045	1.031	1.090	1.090	1.102	1.117	1.140	1.030	0.985	1.006	1.016	1.026	1.043	1.060

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
September 2024

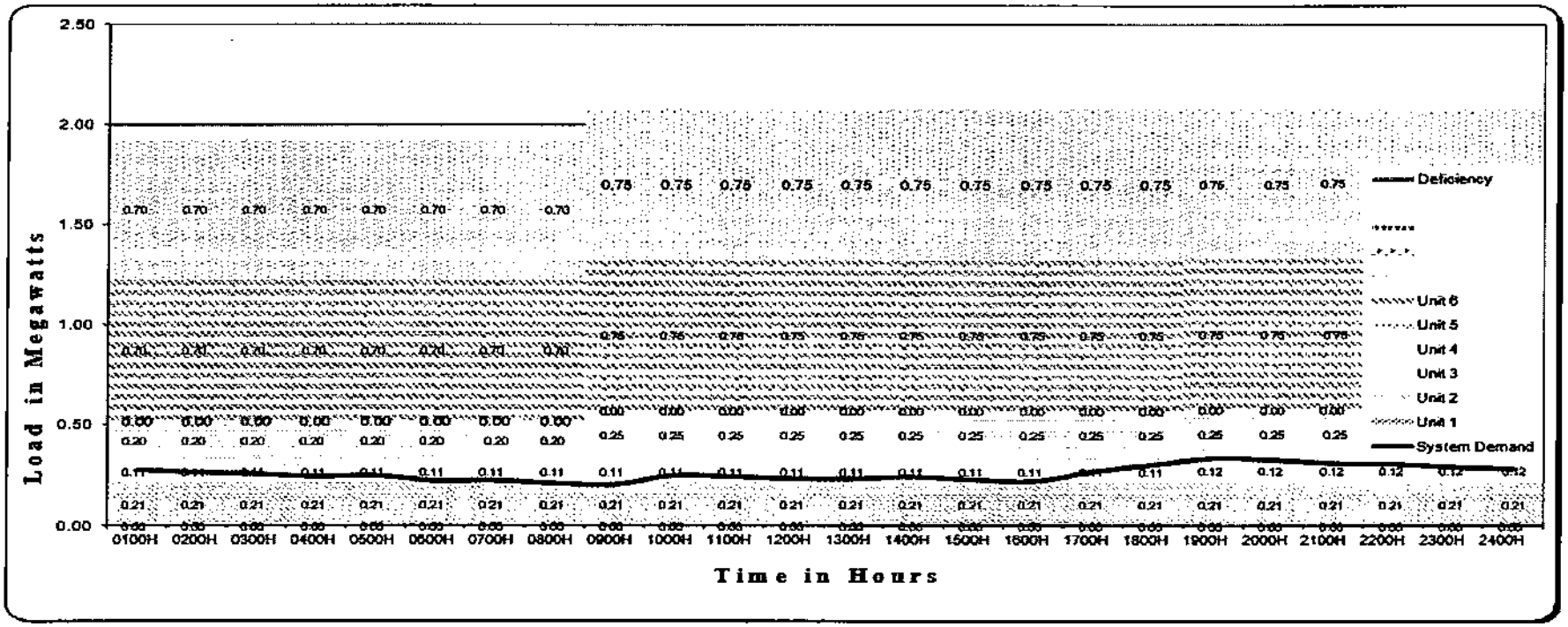


0100H	0200H	0300H	[illegible]	0500H	[illegible]	0700H	[illegible]	0900H	[illegible]	1100H	1200H	1300H	[illegible]	1500H	[illegible]	1700H	[illegible]	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	[illegible]	1.220	[illegible]	1.220	[illegible]	1.220	[illegible]	1.320	[illegible]	1.320	[illegible]	1.320	[illegible]	1.320	[illegible]	1.320	[illegible]	1.330	[illegible]	1.330	[illegible]	1.330	[illegible]
SYSTEM DEMAND																							
0.266	[illegible]	0.251	[illegible]	0.240	[illegible]	0.200	[illegible]	0.187	[illegible]	0.259	[illegible]	0.265	[illegible]	0.220	[illegible]	0.230	[illegible]	0.342	[illegible]	0.322	[illegible]	0.310	[illegible]
RESERVED / (DEFICIENCY)																							
0.954	[illegible]	0.969	[illegible]	0.980	[illegible]	1.020	[illegible]	1.133	[illegible]	1.061	[illegible]	1.055	[illegible]	1.100	[illegible]	1.090	[illegible]	0.988	[illegible]	1.008	[illegible]	1.020	[illegible]

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
October 2024

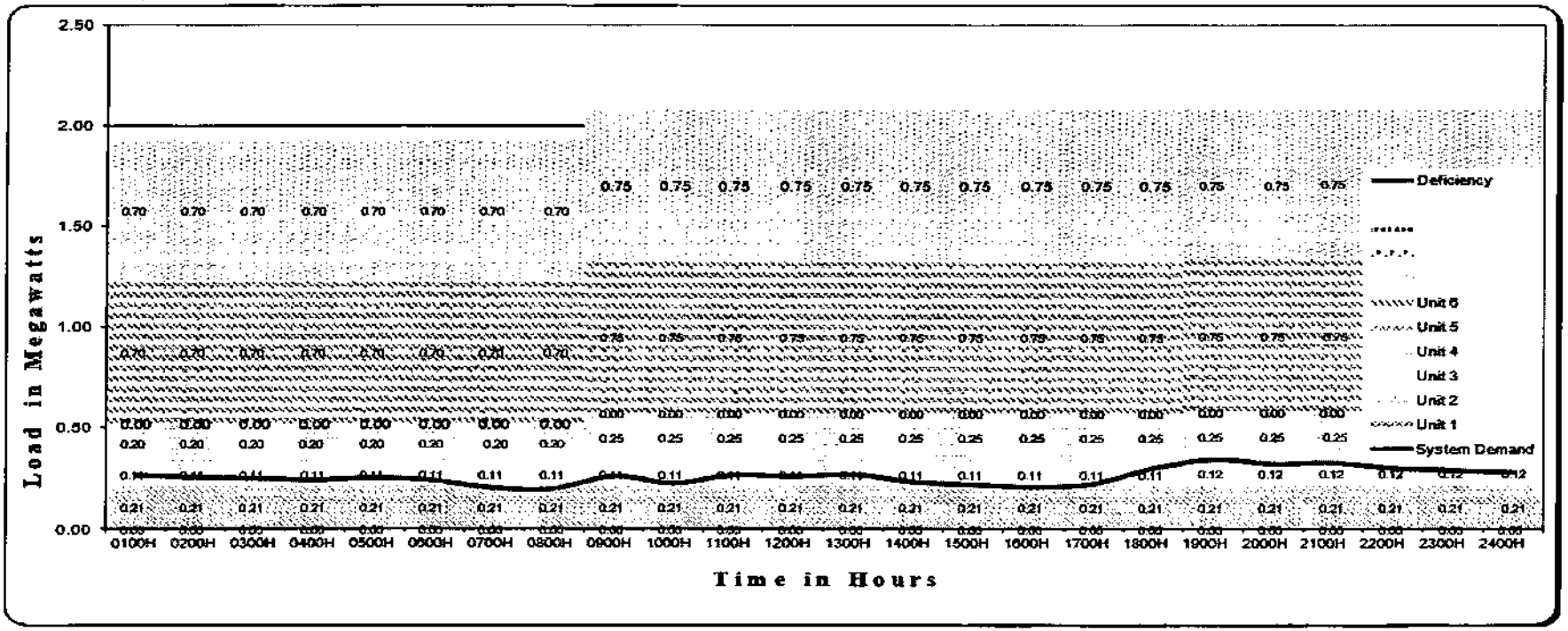


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND																							
0.275	0.268	0.258	0.253	0.247	0.230	0.222	0.213	0.200	0.247	0.240	0.234	0.230	0.230	0.225	0.217	0.267	0.302	0.335	0.328	0.310	0.300	0.291	0.290
RESERVED / (DEFICIENCY)																							
0.945	0.952	0.962	0.967	0.973	0.990	0.998	1.007	1.120	1.073	1.080	1.086	1.090	1.090	1.095	1.103	1.053	1.018	0.995	1.002	1.020	1.030	1.039	1.040

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
November 2024

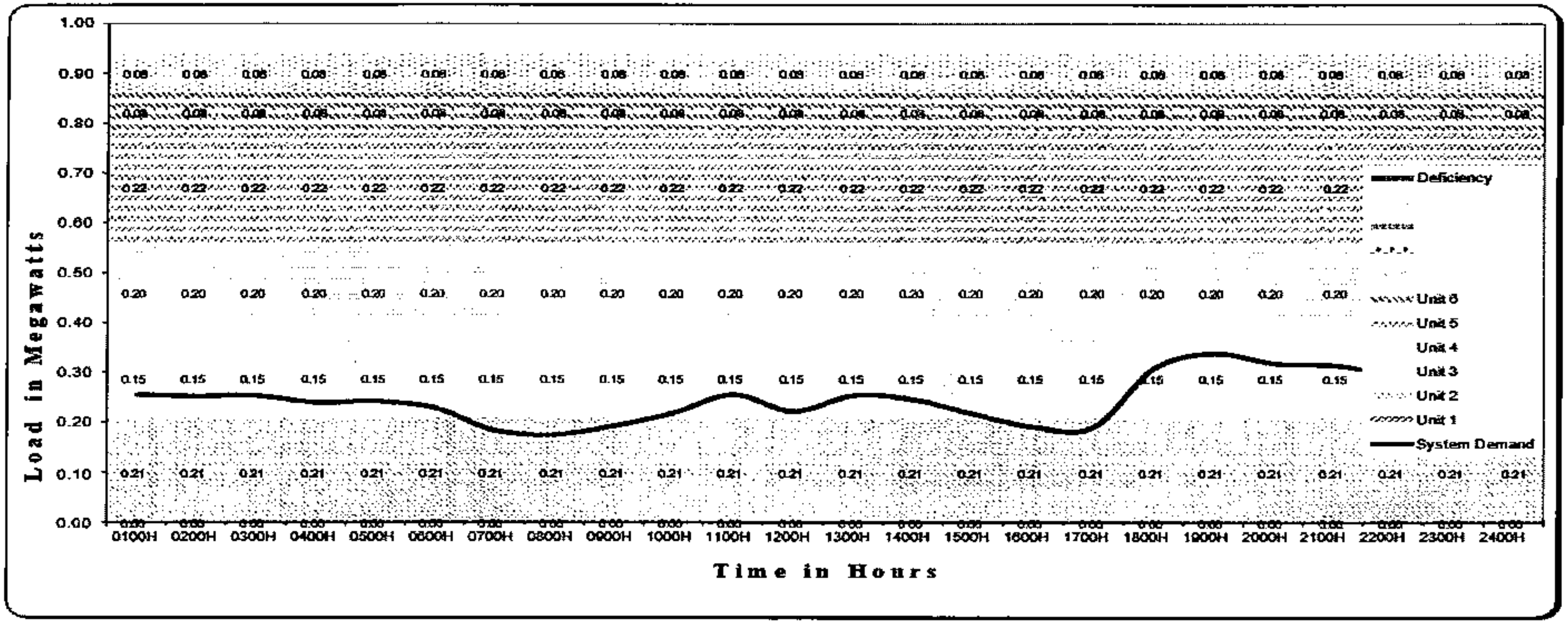


	0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	0.990
SYSTEM DEMAND	0.267	0.251	0.254	0.203	0.262	0.267	0.270	0.220	0.225	0.345	0.330	0.292												
RESERVED / (DEFICIENCY)	0.953	0.969	0.966	1.017	1.058	1.053	1.050	1.100	1.095	0.985	1.000	1.038												

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
December 2024

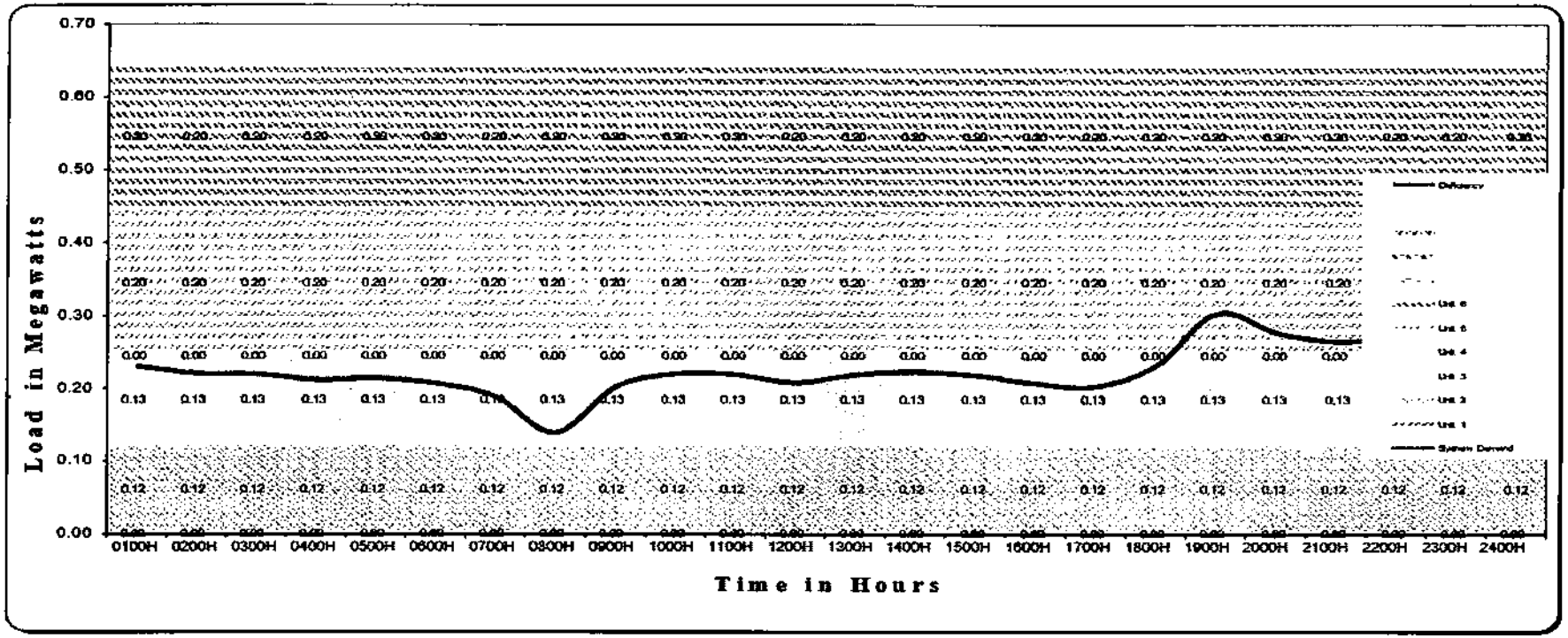


0100H	0200H	0300H	0400H	0500H	[illegible]	0700H	[illegible]	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.860	[illegible]	0.860	[illegible]	0.860	[illegible]	0.860	[illegible]	0.860	[illegible]	0.860	[illegible]	0.860	[illegible]	0.860	[illegible]	0.860	[illegible]	0.860	[illegible]	0.860	[illegible]	0.860	[illegible]
SYSTEM DEMAND																							
0.257	[illegible]	0.255	[illegible]	0.243	[illegible]	0.185	[illegible]	0.194	[illegible]	0.257	[illegible]	0.255	[illegible]	0.218	[illegible]	0.192	0.310	0.340	0.320	0.316	[illegible]	0.292	[illegible]
RESERVED / (DEFICIENCY)																							
0.603	[illegible]	0.605	[illegible]	0.617	[illegible]	0.675	[illegible]	0.666	[illegible]	0.603	[illegible]	0.605	[illegible]	0.642	[illegible]	0.668	0.560	0.520	0.540	0.544	[illegible]	0.568	[illegible]

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
SIBUTU DPP
January 2024

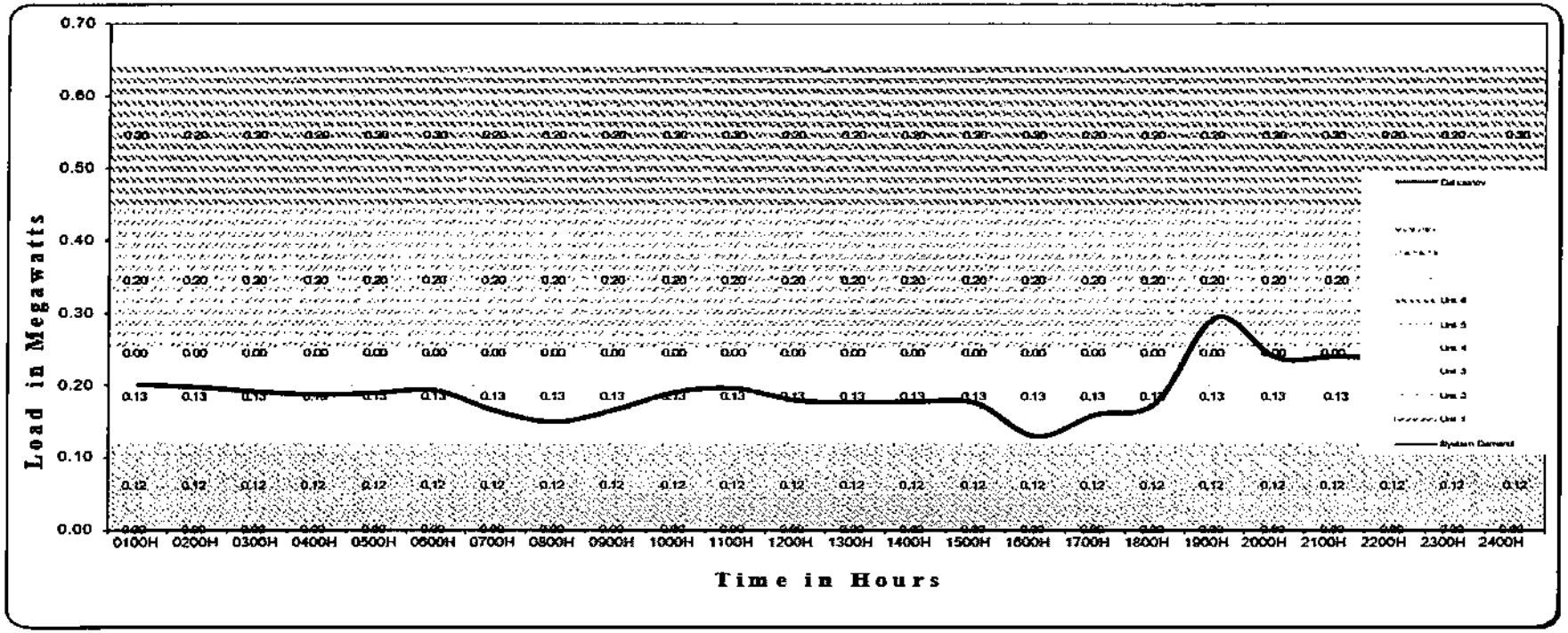


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645
SYSTEM DEMAND																							
0.232	0.222	0.221	0.215	0.215	0.190	0.202	0.203	0.220	0.220	0.220	0.220	0.219	0.204	0.204	0.225	0.305	0.275	0.266	0.270	0.265	0.264		
RESERVED / (DEFICIENCY)																							
0.413	0.423	0.424	0.430	0.430	0.455	0.443	0.442	0.425	0.425	0.425	0.425	0.426	0.441	0.441	0.420	0.340	0.370	0.379	0.374	0.380	0.381		

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
SIBUTU DPP
February 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645
SYSTEM DEMAND																							
0.202	0.196	0.192	0.188	0.190	0.189	0.185	0.180	0.167	0.158	0.196	0.190	0.177	0.170	0.176	0.150	0.160	0.170	0.295	0.239	0.241	0.237	0.223	0.212
RESERVED / (DEFICIENCY)																							
0.443	0.449	0.453	0.457	0.455	0.456	0.460	0.465	0.478	0.487	0.449	0.455	0.468	0.475	0.469	0.495	0.485	0.475	0.350	0.406	0.404	0.408	0.422	0.433

National Power Corporation

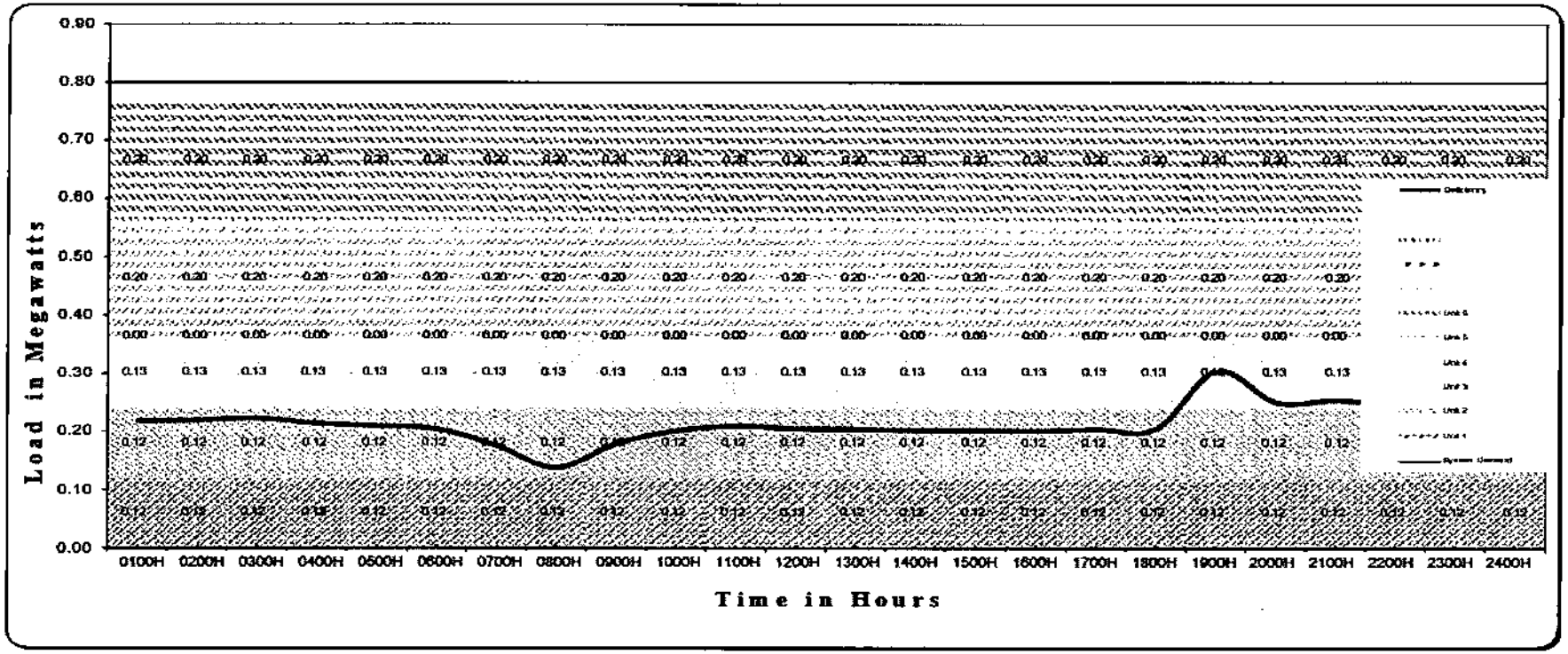
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

March 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.219	0.220	0.223	0.215	0.210	0.209	0.177	0.194	0.180	0.202	0.210	0.209	0.205	0.204	0.203	0.202	0.205	0.204	0.305	0.251	0.255	0.240	0.236	0.224
RESERVED / (DEFICIENCY)																							
0.548	0.545	0.542	0.550	0.555	0.556	0.588	0.571	0.585	0.563	0.555	0.556	0.560	0.562	0.562	0.563	0.560	0.561	0.460	0.514	0.510	0.525	0.529	0.541

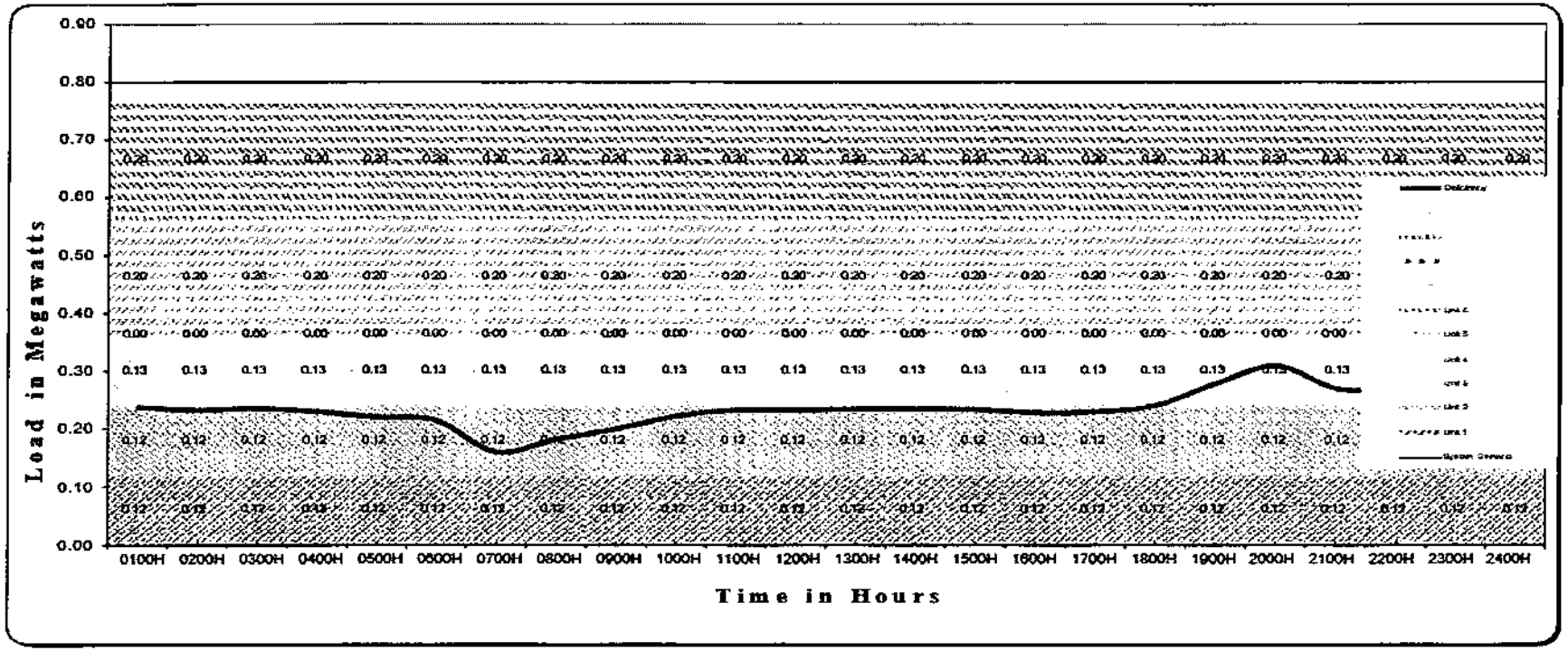
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

April 2024

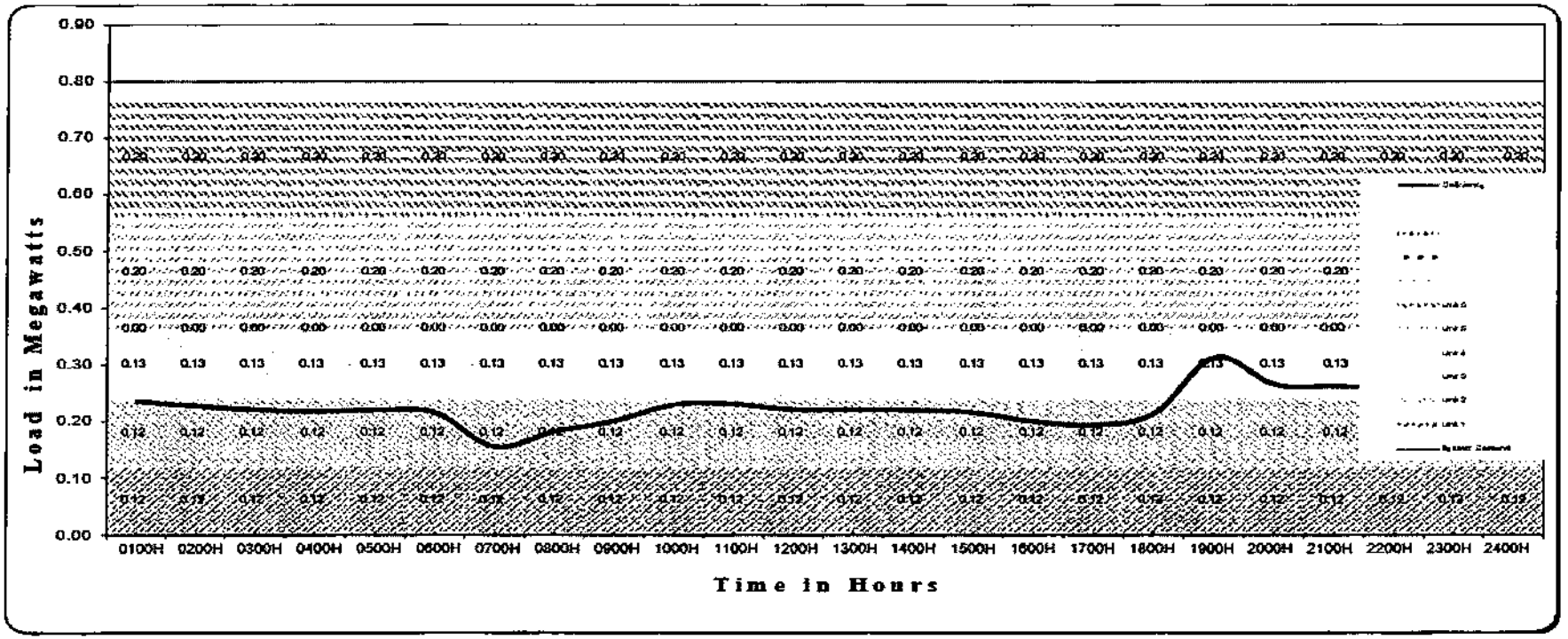


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.238	0.235	0.236	0.230	0.221	0.215	0.160	0.162	0.200	0.222	0.233	0.230	0.235	0.236	0.234	0.228	0.230	0.241	0.279	0.310	0.270	0.268	0.255	0.248
RESERVED / (DEFICIENCY)																							
0.527	0.532	0.529	0.535	0.544	0.550	0.605	0.603	0.565	0.543	0.532	0.535	0.530	0.529	0.531	0.537	0.535	0.524	0.486	0.455	0.495	0.497	0.510	0.517

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
SIBUTU DPP
May 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.236	0.229	0.221	0.219	0.220	0.216	0.155	0.127	0.201	0.230	0.231	0.224	0.221	0.220	0.216	0.209	0.194	0.192	0.315	0.295	0.263	0.260	0.250	0.245
RESERVED / (DEFICIENCY)																							
0.529	0.536	0.544	0.546	0.545	0.549	0.610	0.638	0.564	0.535	0.534	0.541	0.544	0.545	0.549	0.556	0.571	0.573	0.450	0.470	0.502	0.505	0.515	0.520

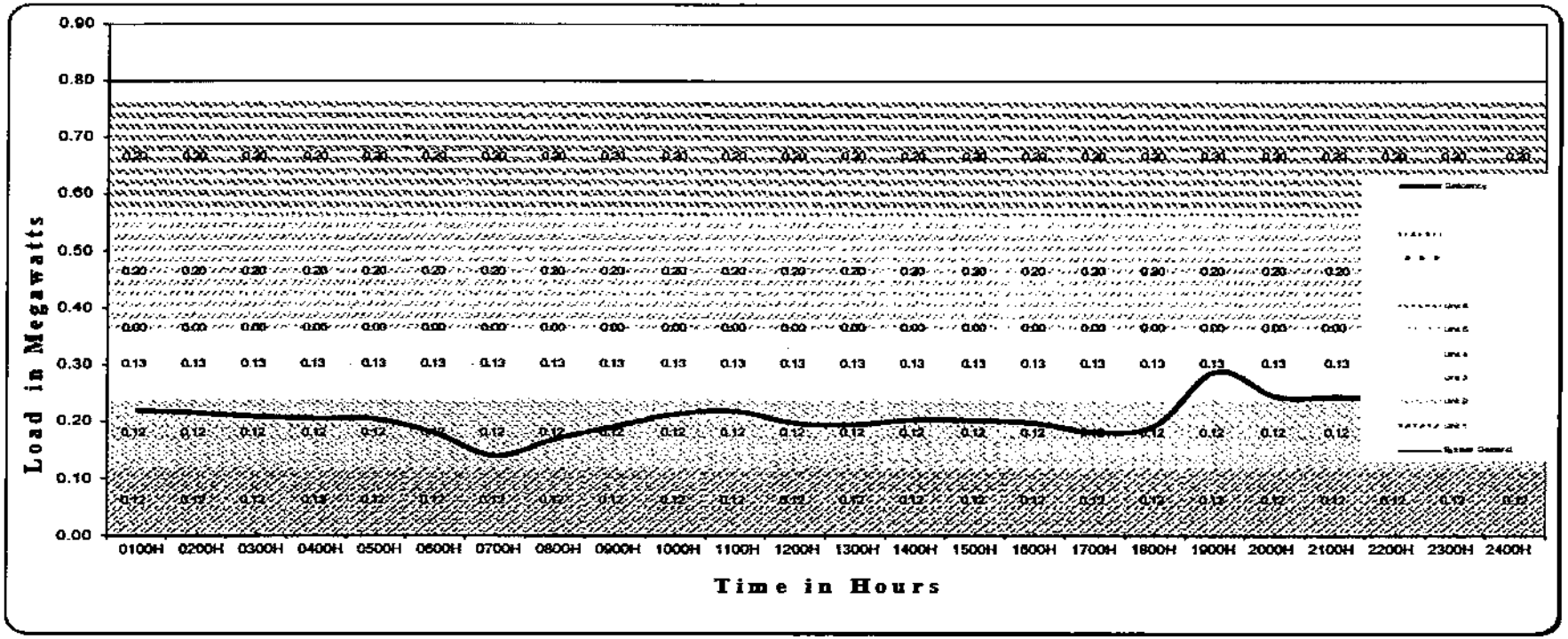
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

June 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.220	0.210	0.210	0.205	0.205	0.140	0.140	0.192	0.192	0.219	0.219	0.196	0.196	0.203	0.203	0.182	0.182	0.290	0.290	0.244	0.244	0.236	0.236	0.236
RESERVED / (DEFICIENCY)																							
0.545	0.555	0.555	0.560	0.560	0.625	0.625	0.573	0.573	0.546	0.546	0.569	0.569	0.562	0.562	0.583	0.583	0.476	0.476	0.521	0.521	0.529	0.529	0.529

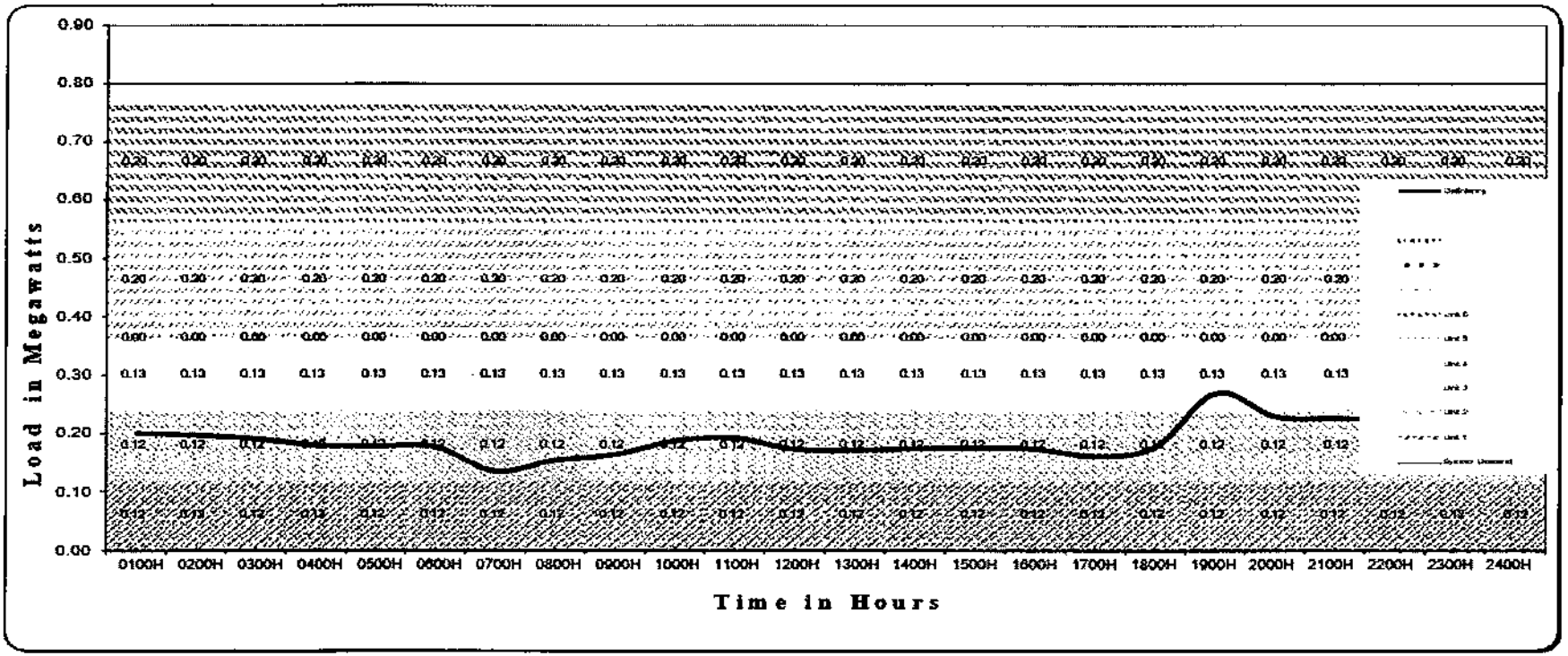
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

July 2024

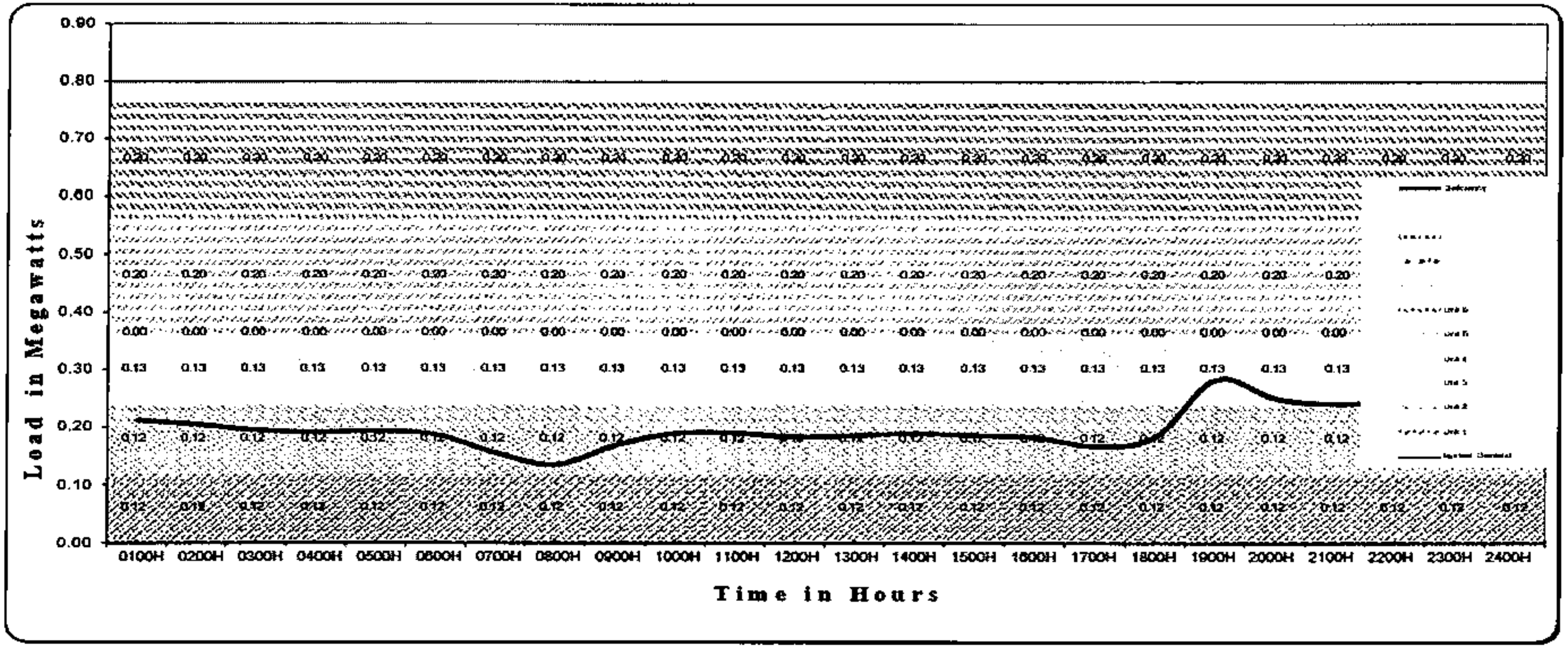


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.201	0.192	0.191	0.184	0.178	0.172	0.135	0.130	0.164	0.167	0.192	0.192	0.171	0.170	0.175	0.175	0.161	0.171	0.270	0.229	0.226	0.223	0.218	0.210
RESERVED / (DEFICIENCY)																							
0.564	0.573	0.574	0.581	0.587	0.593	0.630	0.635	0.601	0.598	0.573	0.573	0.594	0.595	0.590	0.590	0.604	0.594	0.495	0.536	0.539	0.542	0.547	0.555

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
SIBUTU DPP
August 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.213	0.200	0.196	0.192	0.194	0.188	0.156	0.185	0.169	0.190	0.191	[illegible]	0.187	0.190	0.187	[illegible]	0.168	0.184	0.285	0.251	0.242	0.240	0.235	0.228
RESERVED / (DEFICIENCY)																							
0.552	[illegible]	0.569	0.573	0.571	0.577	0.609	0.580	0.596	0.575	0.574	[illegible]	0.578	0.575	0.578	[illegible]	0.597	0.581	0.480	0.514	0.523	0.519	0.530	0.536

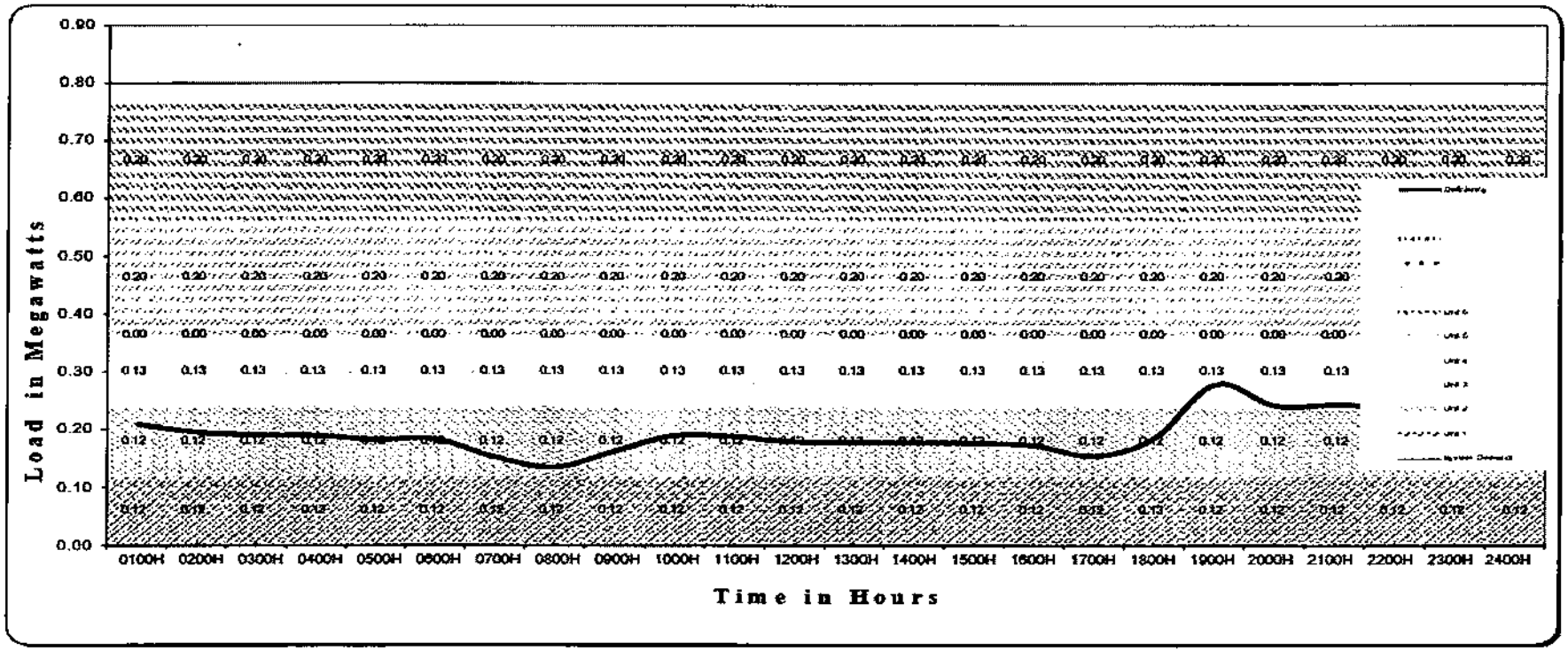
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

September 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.210	0.196	0.191	0.190	0.183	0.184	0.153	0.139	0.163	0.180	0.188	0.189	0.178	0.178	0.177	0.173	0.155	0.165	0.280	0.242	0.244	0.240	0.229	0.220
RESERVED / (DEFICIENCY)																							
0.555	0.569	0.574	0.575	0.582	0.581	0.612	0.626	0.602	0.585	0.577	0.576	0.587	0.587	0.588	0.592	0.610	0.600	0.485	0.523	0.521	0.525	0.536	0.545

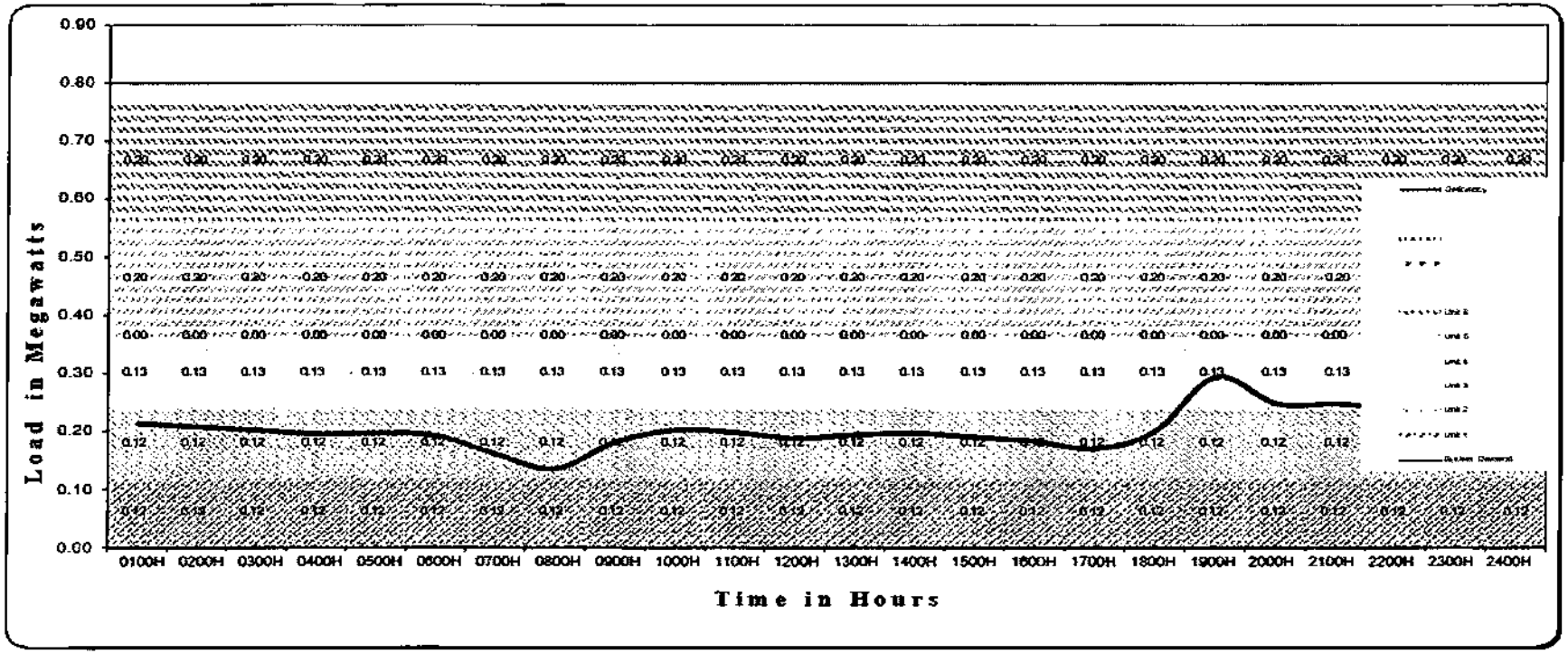
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

October 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.214	0.208	0.202	0.199	0.197	0.191	0.191	0.181	0.202	0.198	0.198	0.194	0.197	0.190	0.193	0.170	0.200	0.295	0.294	0.247	0.247	0.229	0.229	0.229
RESERVED / (DEFICIENCY)																							
0.551	0.557	0.563	0.566	0.568	0.574	0.574	0.584	0.563	0.567	0.567	0.571	0.568	0.575	0.572	0.595	0.565	0.470	0.471	0.518	0.518	0.536	0.536	0.536

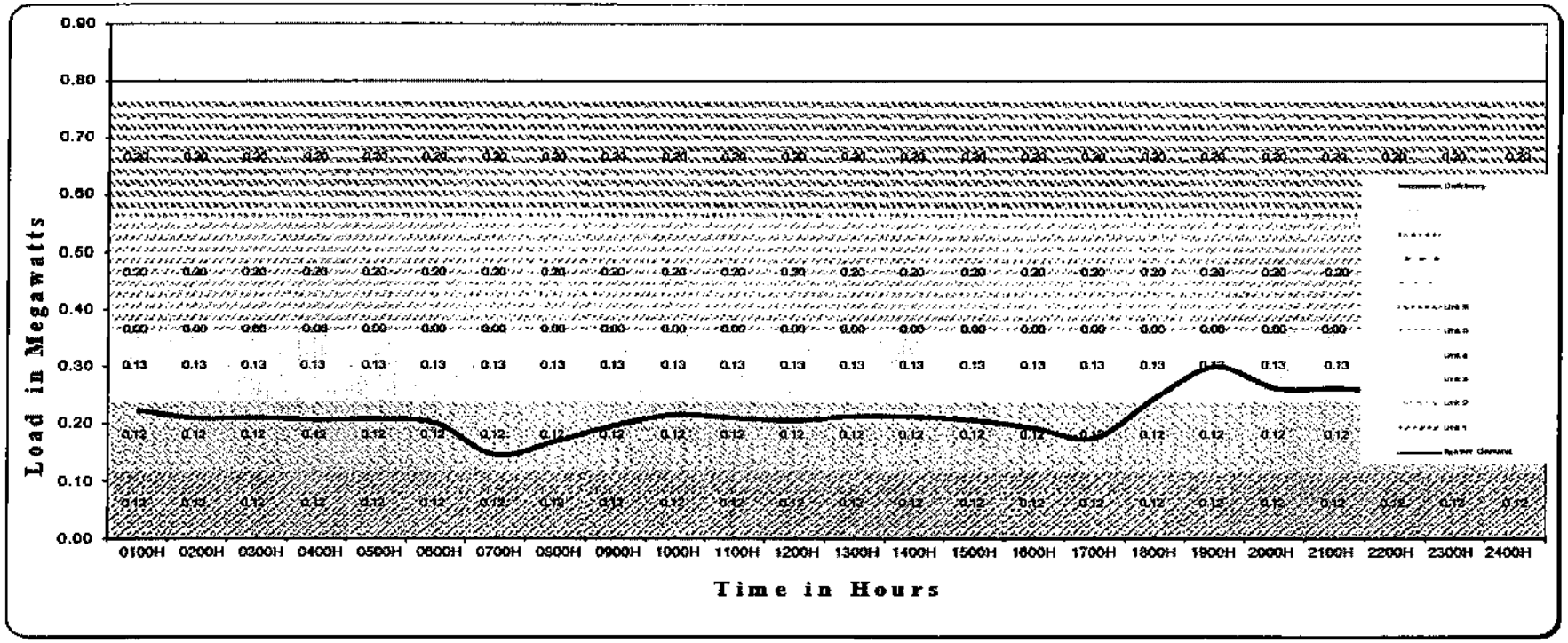
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

November 2024

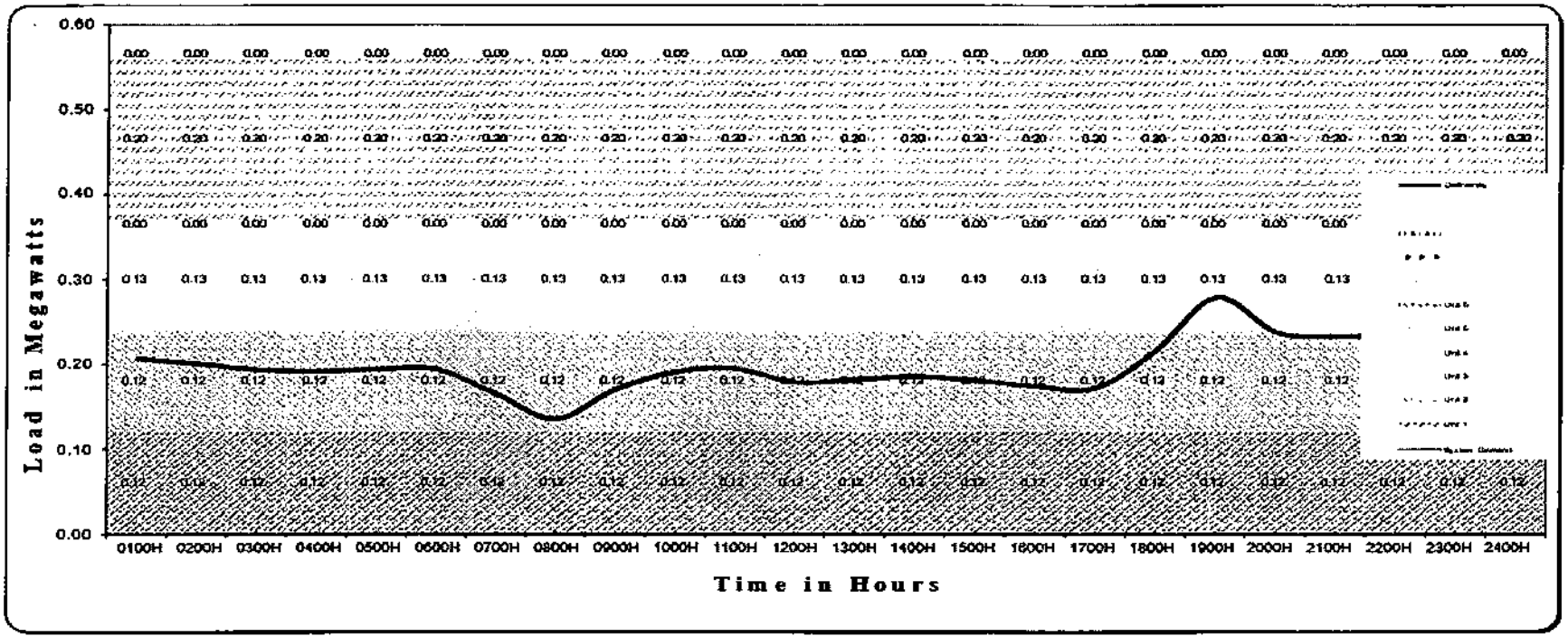


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.224	0.210	0.211	0.207	0.208	0.201	0.145	0.162	0.197	0.214	0.210	0.208	0.213	0.212	0.206	0.192	0.175	0.246	0.300	0.262	0.262	0.266	0.239	0.232
RESERVED / (DEFICIENCY)																							
0.541	0.555	0.554	0.558	0.557	0.564	0.620	0.604	0.568	0.551	0.555	0.557	0.552	0.553	0.559	0.573	0.590	0.519	0.465	0.503	0.503	0.499	0.526	0.533

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
SIBUTU DPP
December 2024

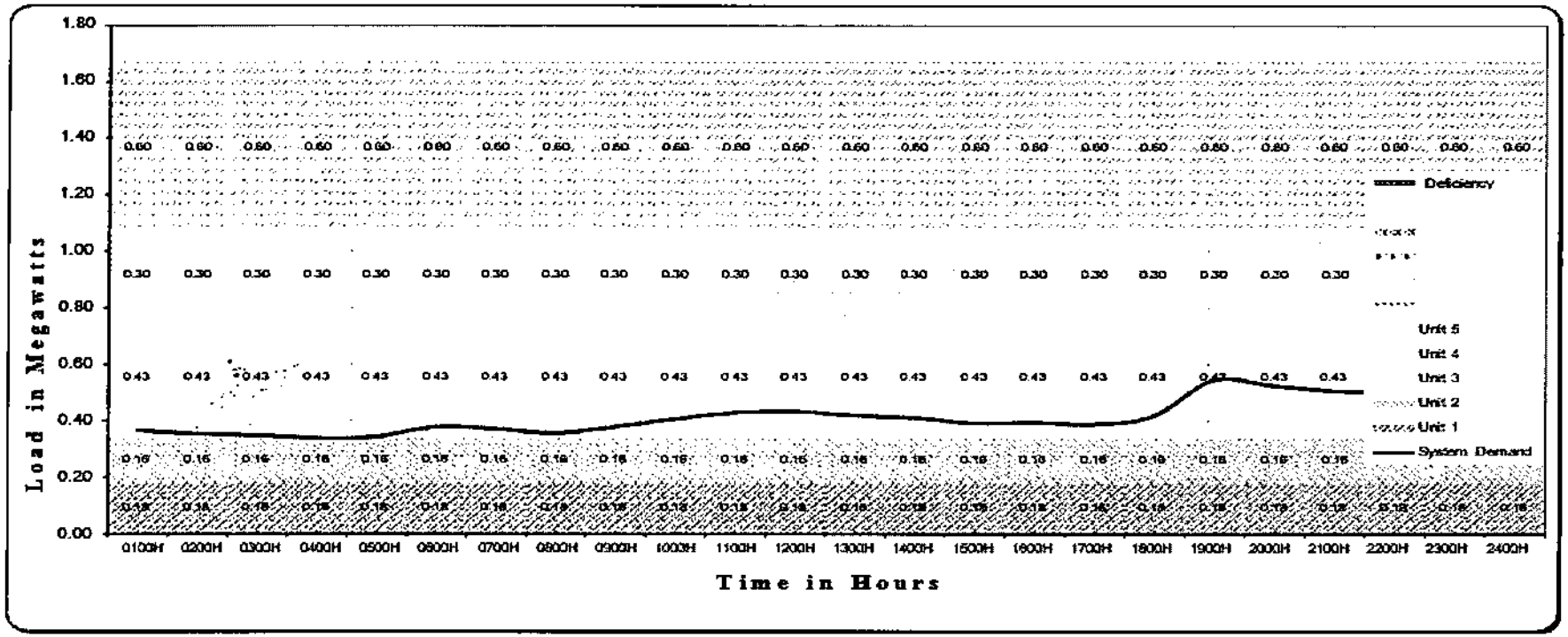


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565
SYSTEM DEMAND																							
0.207	0.194	0.194	0.194	0.165	0.170	0.170	0.195	0.195	0.182	0.182	0.181	0.181	0.172	0.172	0.280	0.280	0.233	0.233	0.223	0.223	0.210	0.210	0.207
RESERVED / (DEFICIENCY)																							
0.358	0.371	0.371	0.371	0.400	0.395	0.395	0.370	0.370	0.383	0.383	0.384	0.384	0.393	0.393	0.285	0.285	0.332	0.332	0.342	0.342	0.355	0.355	0.358

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
CAG. DE TAWI-TAWI (MAPUN) DPP
JANUARY 2024

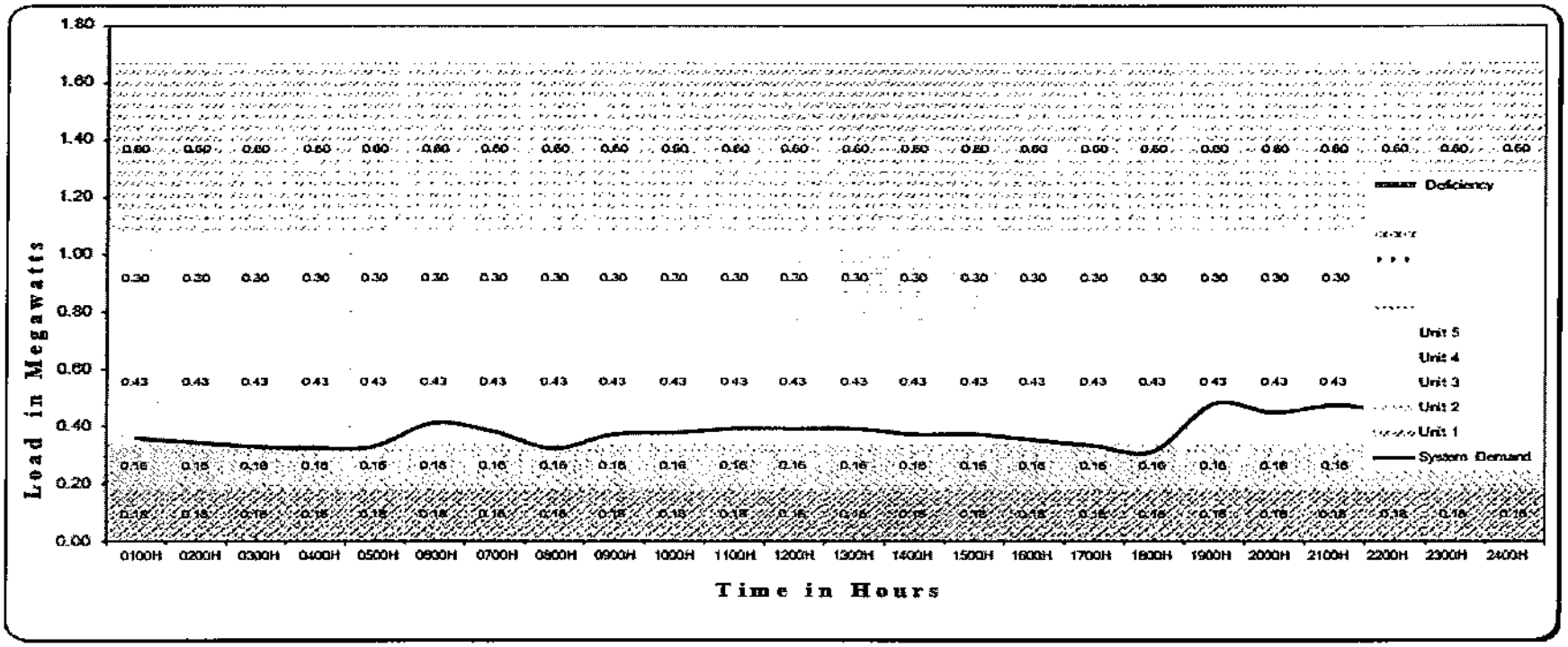


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670
SYSTEM DEMAND																							
0.362	0.360	0.345	0.335	0.339	0.372	0.367	0.342	0.374	0.402	0.424	0.420	0.415	0.407	0.388	0.380	0.384	0.413	0.540	0.530	0.502	0.494	0.474	0.460
RESERVED / (DEFICIENCY)																							
1.308	1.310	1.325	1.335	1.331	1.298	1.303	1.328	1.296	1.268	1.246	1.250	1.255	1.263	1.282	1.290	1.286	1.257	1.130	1.140	1.168	1.176	1.196	1.210

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
CAG. DE TAWI-TAWI (MAPUN) DPP
FEBRUARY 2024

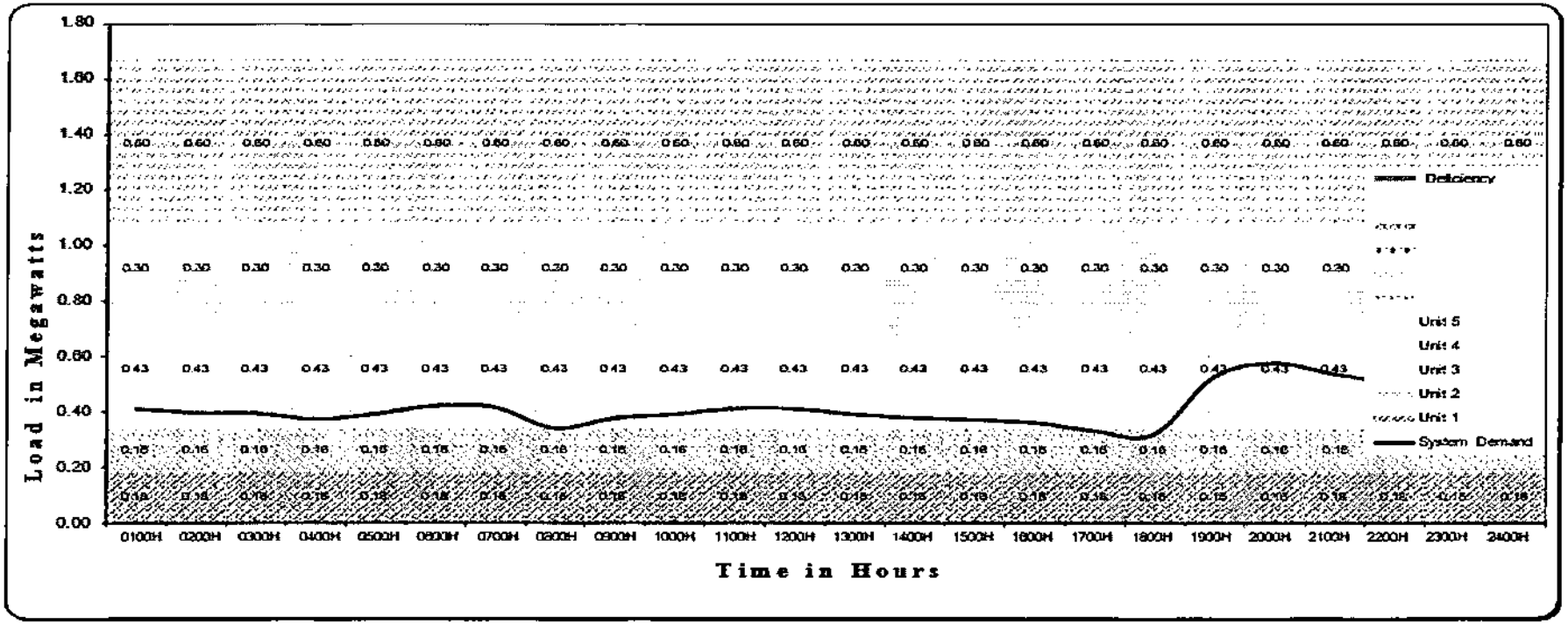


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670
SYSTEM DEMAND																							
0.357	0.342	0.327	0.321	0.327	0.410	0.380	0.420	0.370	0.370	0.390	0.390	0.390	0.370	0.370	0.350	0.330	0.310	0.478	0.447	0.472	0.453	0.430	0.403
RESERVED / (DEFICIENCY)																							
1.313	1.328	1.343	1.349	1.343	1.260	1.290	1.250	1.300	1.300	1.280	1.280	1.280	1.300	1.300	1.320	1.340	1.360	1.192	1.223	1.198	1.217	1.240	1.267

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
CAG. DE TAWI-TAWI (MAPUN) DPP
MARCH 2024

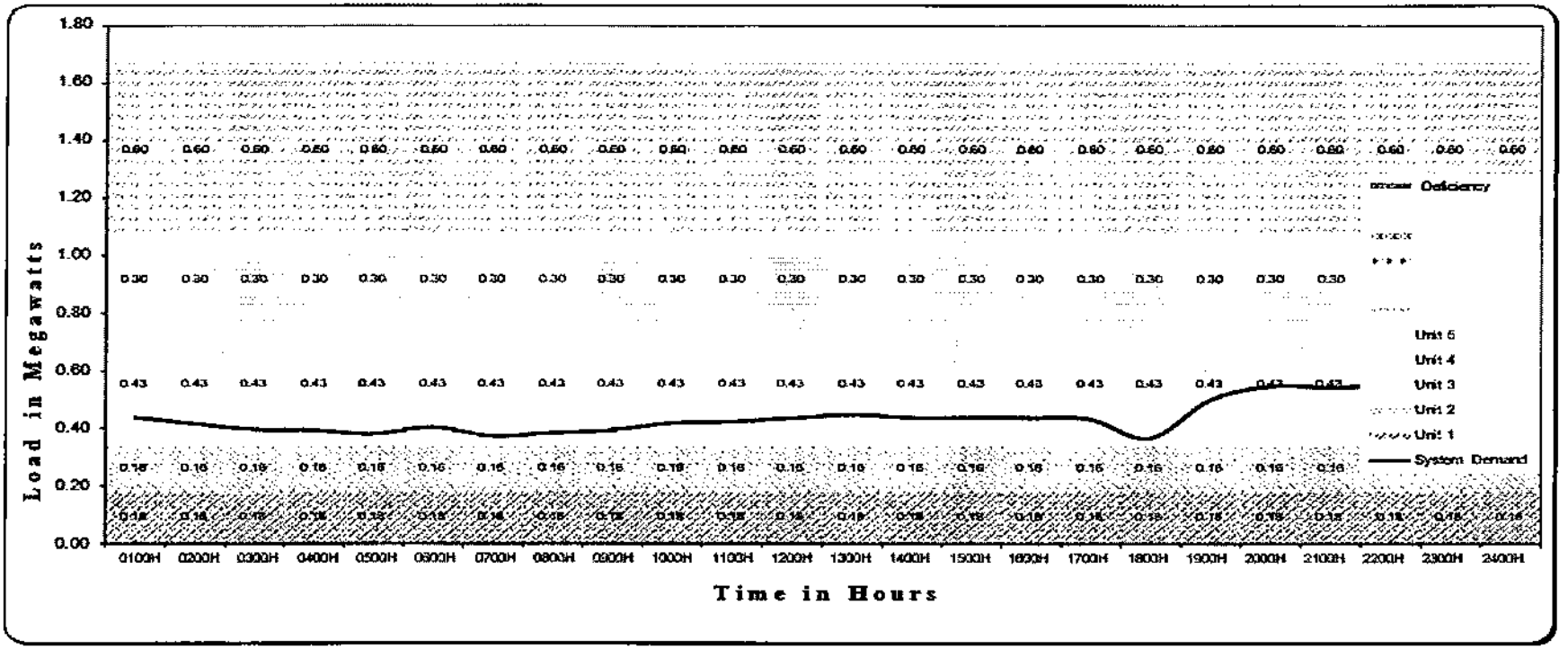


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670
SYSTEM DEMAND																							
0.410	0.398	0.394	0.378	0.390	0.380	0.415	0.390	0.375	0.390	0.410	0.410	0.390	0.378	0.370	0.360	0.330	0.317	0.525	0.575	0.535	0.503	0.474	0.449
RESERVED / (DEFICIENCY)																							
1.260	1.272	1.276	1.292	1.280	1.290	1.255	1.280	1.295	1.280	1.260	1.260	1.280	1.292	1.300	1.310	1.340	1.353	1.145	1.095	1.135	1.167	1.196	1.221

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
CAG. DE TAWI-TAWI (MAPUN) DPP
APRIL 2024

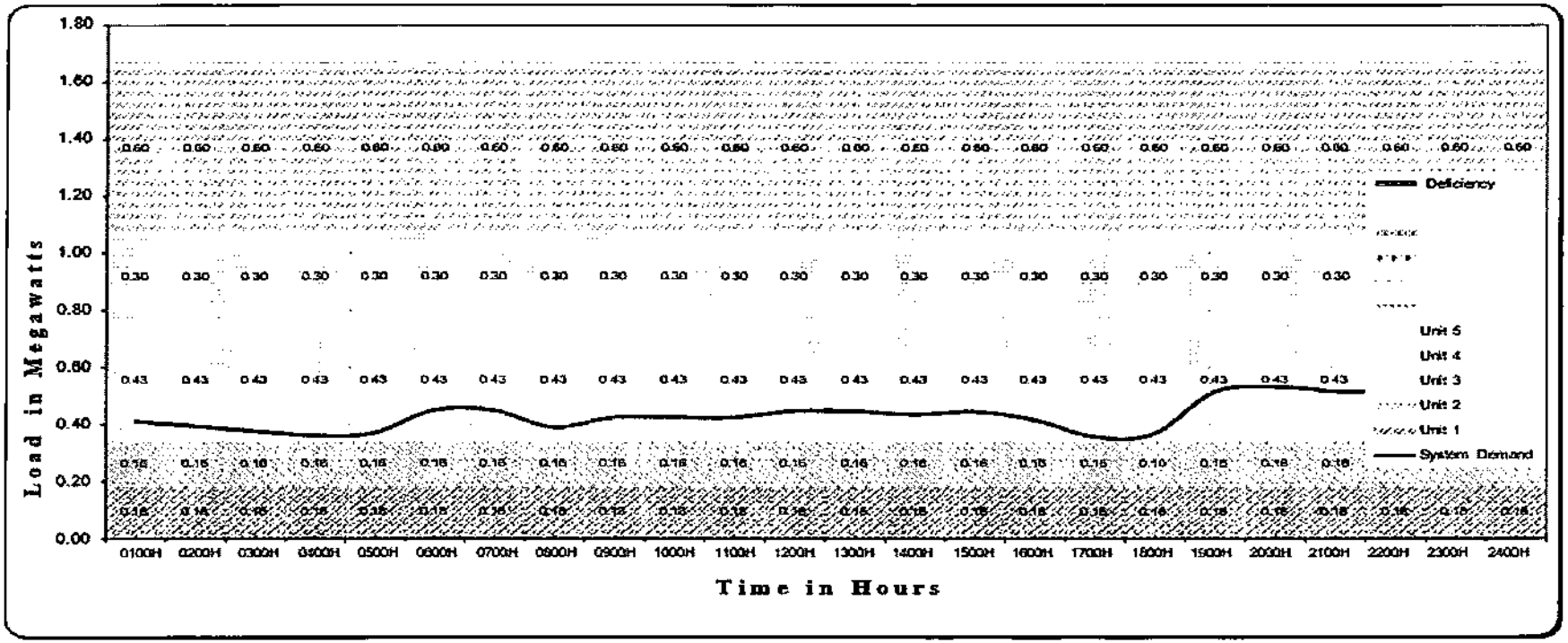


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670
SYSTEM DEMAND																							
0.434	0.412	0.392	0.390	0.378	0.400	0.370	0.380	0.390	0.414	0.419	0.431	0.443	0.433	0.433	0.423	0.428	0.382	0.493	0.441	0.538	0.512	0.518	0.488
RESERVED / (DEFICIENCY)																							
1.236	1.258	1.278	1.280	1.292	1.270	1.300	1.290	1.280	1.256	1.251	1.239	1.227	1.237	1.237	1.247	1.242	1.288	1.177	1.229	1.132	1.158	1.152	1.182

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
CAG. DE TAWI-TAWI (MAPUN) DPP
MAY 2024

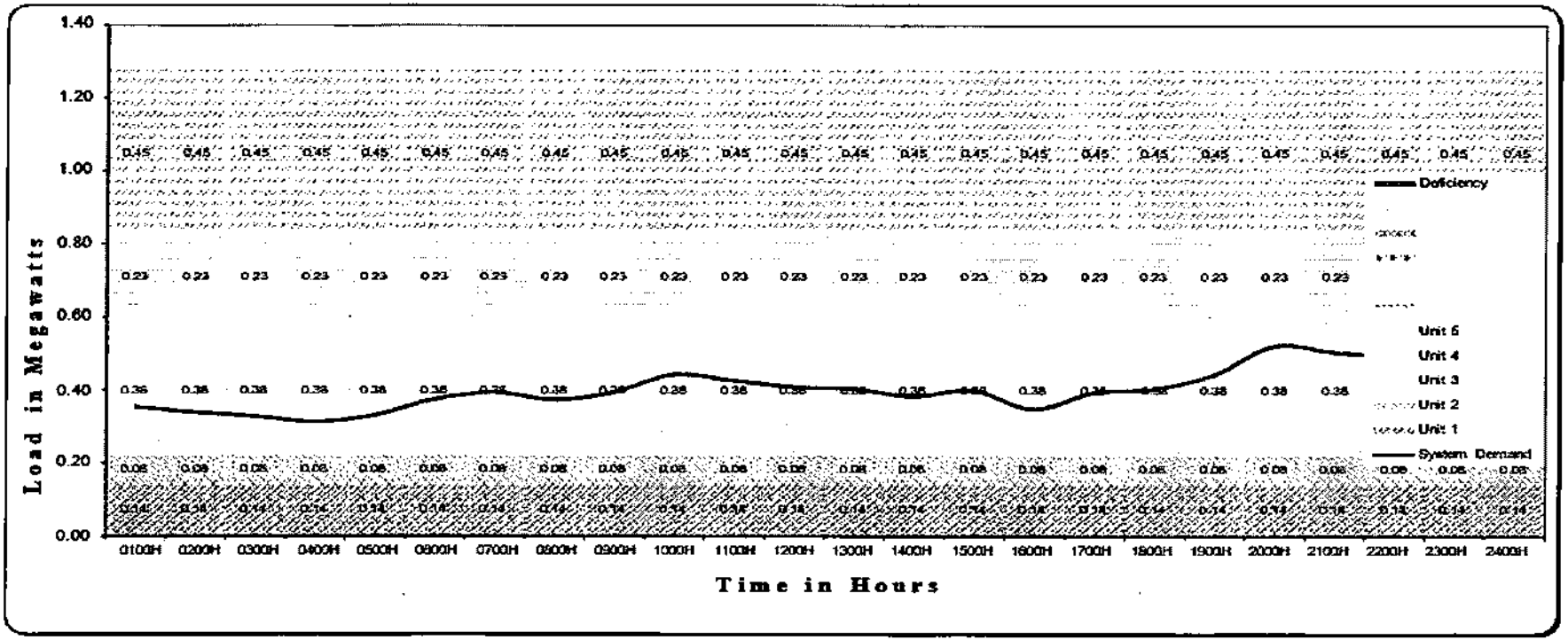


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670
SYSTEM DEMAND																							
0.407	0.390	0.372	0.367	0.365	0.401	0.445	0.395	0.420	0.420	0.420	0.442	0.442	0.430	0.440	0.412	0.352	0.362	0.510	0.528	0.512	0.507	0.477	0.445
RESERVED / (DEFICIENCY)																							
1.263	1.280	1.298	1.303	1.305	1.269	1.225	1.275	1.250	1.250	1.250	1.228	1.228	1.240	1.230	1.258	1.318	1.308	1.160	1.142	1.158	1.163	1.193	1.225

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
CAG. DE TAWI-TAWI (MAPUN) DPP
JUNE 2024

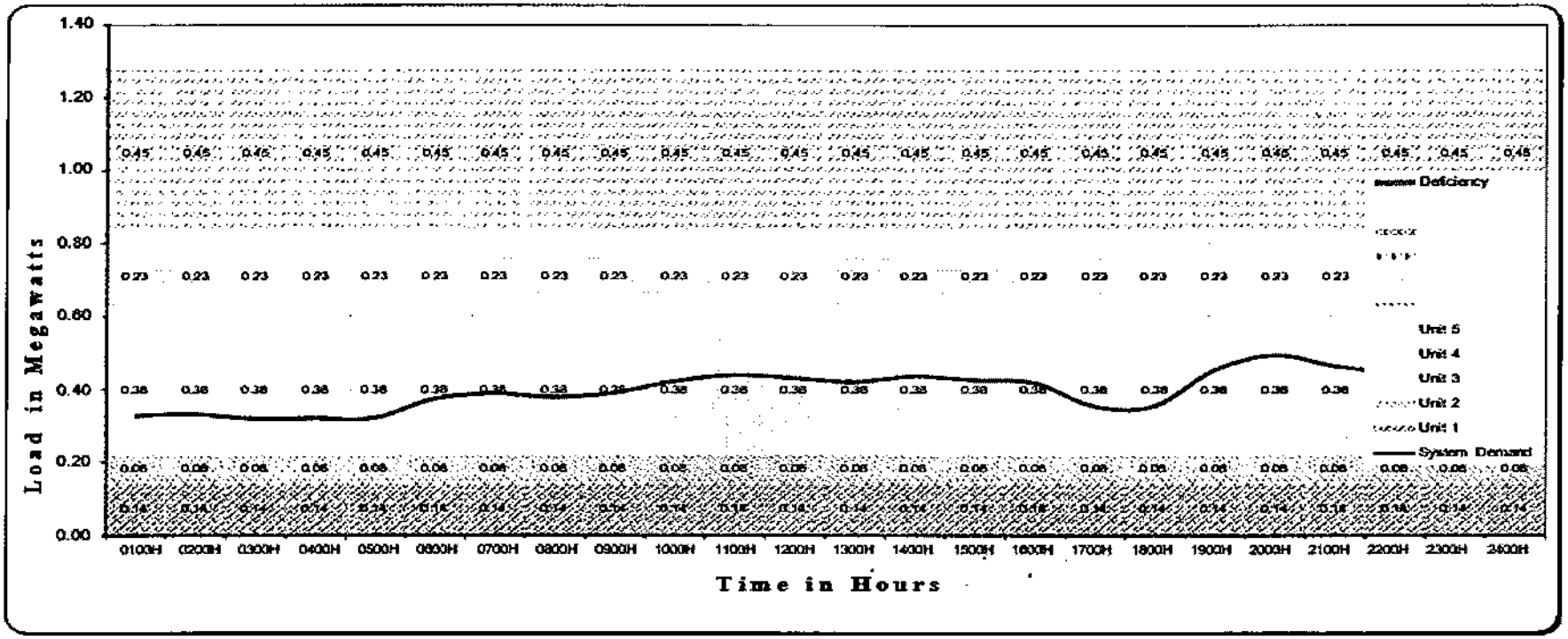


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275
SYSTEM DEMAND																							
0.350	0.339	0.324	0.309	0.326	0.370	0.390	0.370	0.390	0.440	0.423	0.408	0.400	0.390	0.398	0.394	0.390	0.390	0.440	0.520	0.503	0.480	0.460	0.435
RESERVED / (DEFICIENCY)																							
0.925	0.936	0.951	0.966	0.949	0.905	0.885	0.905	0.885	0.835	0.852	0.867	0.875	0.885	0.879	0.881	0.885	0.885	0.835	0.755	0.772	0.795	0.815	0.840

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
CAG. DE TAWI-TAWI (MAPUN) DPP
JULY 2024

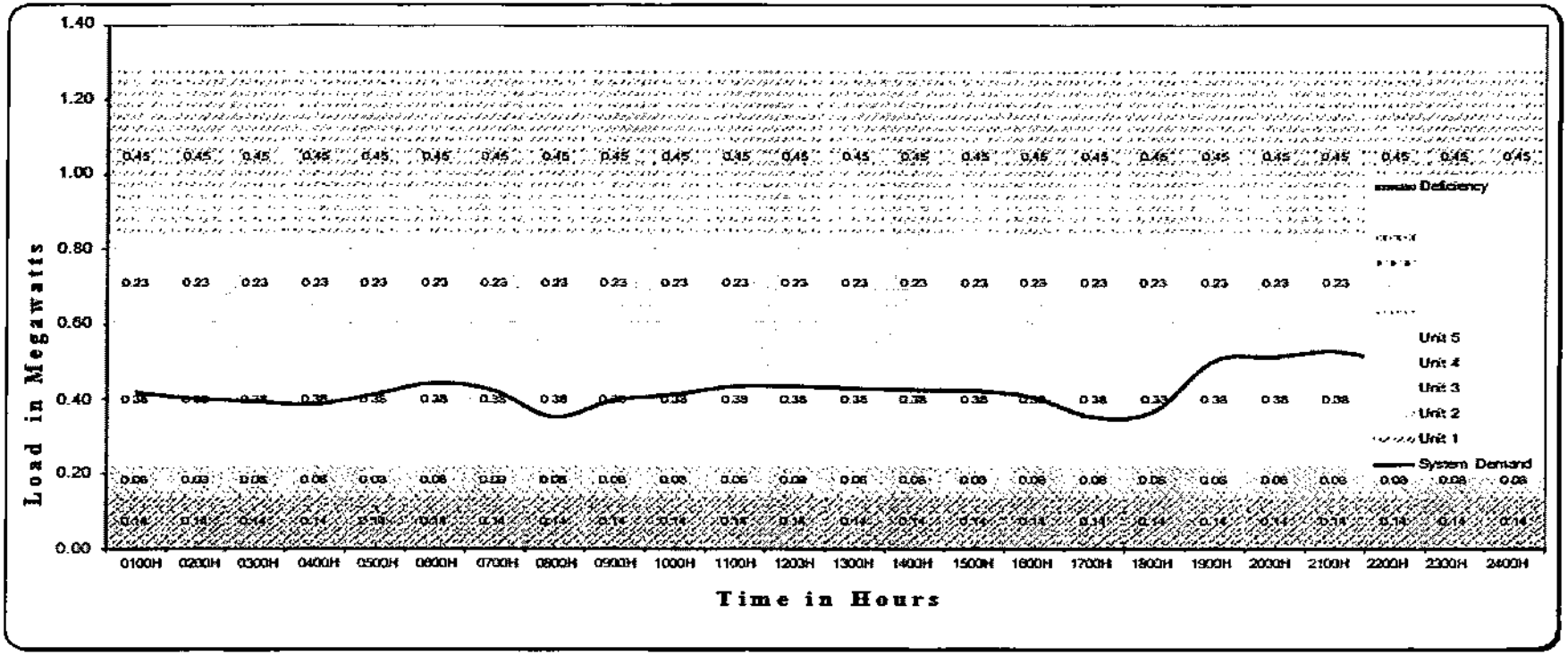


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275
SYSTEM DEMAND																							
0.324	0.328	0.316	0.312	0.318	0.330	0.385	0.375	0.387	0.415	0.435	0.429	0.416	0.392	0.421	0.414	0.350	0.350	0.448	0.490	0.460	0.440	0.412	0.375
RESERVED / (DEFICIENCY)																							
0.951	0.947	0.959	0.963	0.957	0.945	0.890	0.900	0.888	0.860	0.840	0.846	0.859	0.883	0.854	0.861	0.925	0.925	0.827	0.785	0.815	0.835	0.863	0.900

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
CAG. DE TAWI-TAWI (MAPUN) DPP
AUGUST 2024

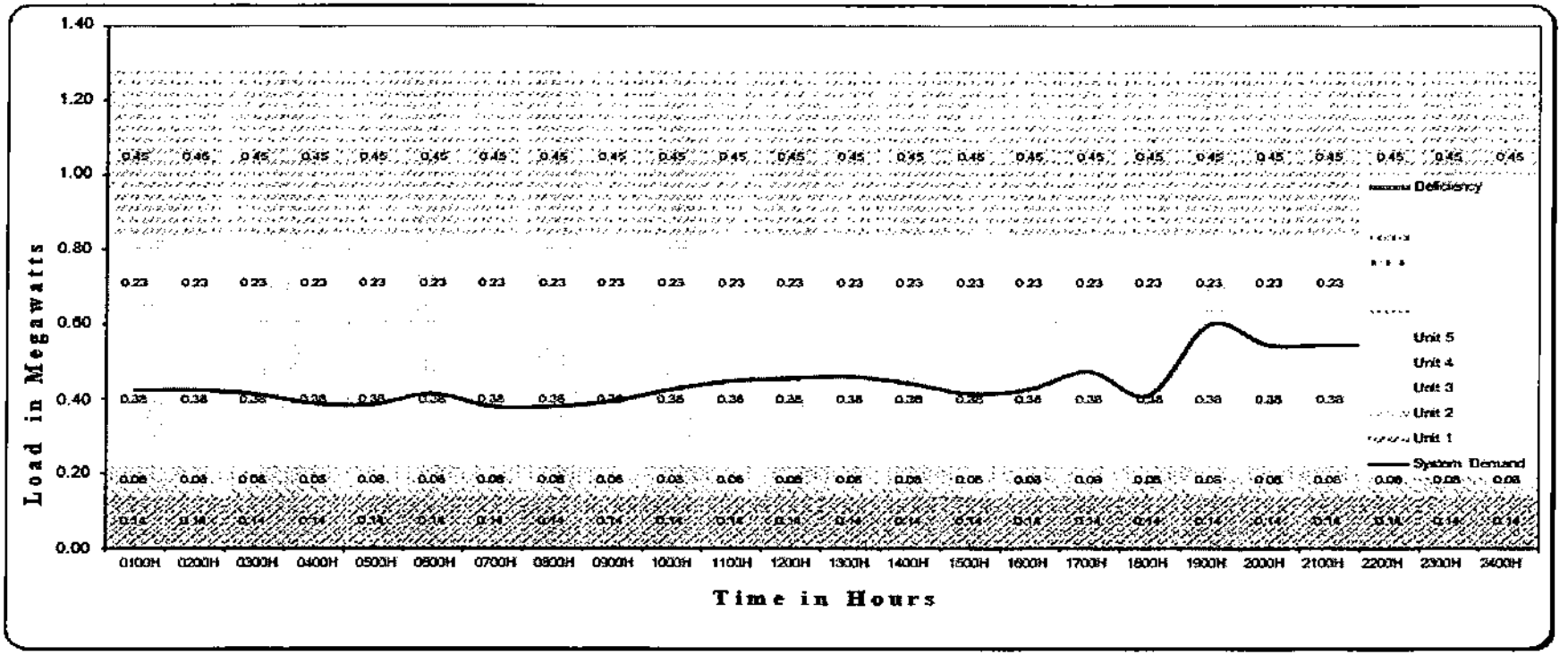


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275
SYSTEM DEMAND																							
0.415	0.399	0.392	0.384	0.410	0.440	0.420	0.390	0.395	0.410	0.431	0.431	0.426	0.422	0.420	0.402	0.350	0.365	0.500	0.510	0.525	0.495	0.481	0.441
RESERVED / (DEFICIENCY)																							
0.860	0.876	0.883	0.891	0.865	0.835	0.855	0.885	0.880	0.865	0.844	0.844	0.849	0.853	0.855	0.873	0.925	0.910	0.775	0.765	0.750	0.780	0.794	0.834

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
CAG. DE TAWI-TAWI (MAPUN) DPP
SEPT 2024

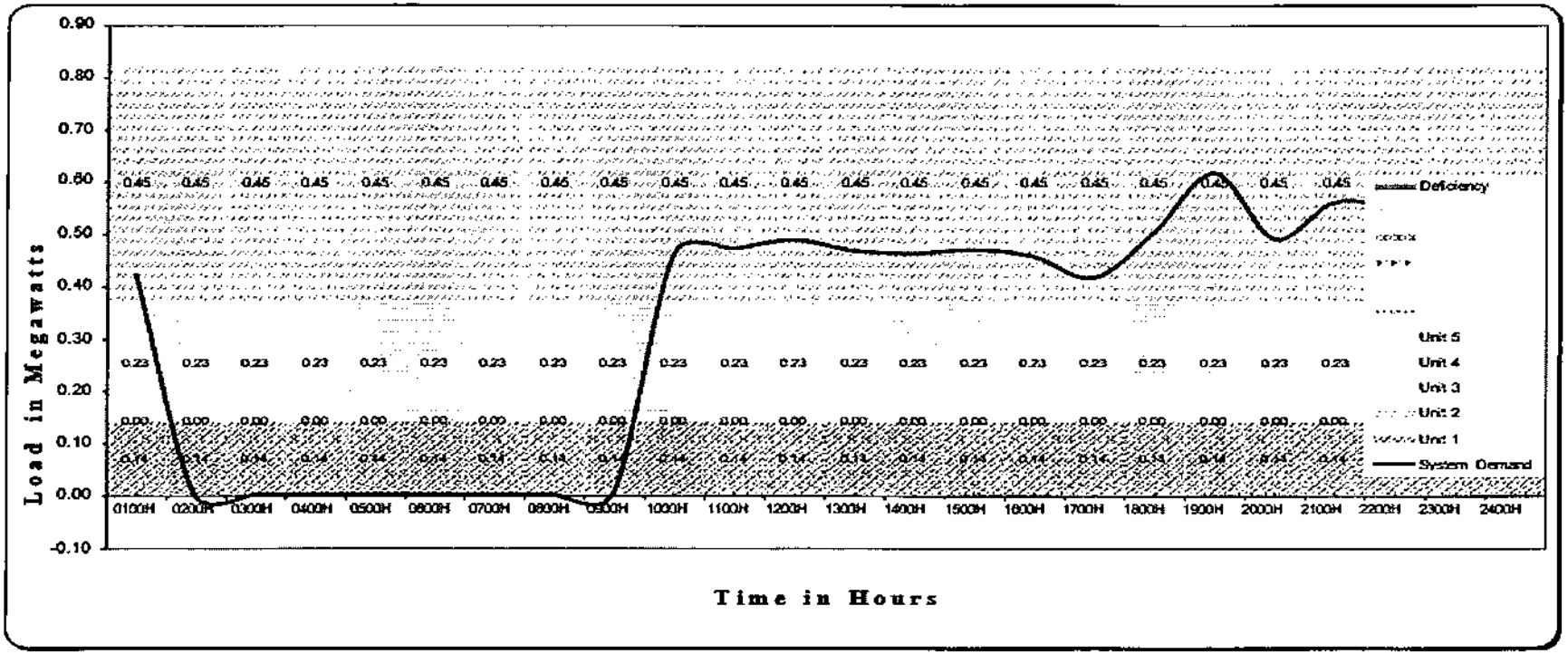


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275
SYSTEM DEMAND																							
0.419	0.420	0.410	0.390	0.381	0.410	0.376	0.376	0.390	0.422	0.444	0.451	0.456	0.439	0.410	0.422	0.470	0.509	0.597	0.542	0.542	0.530	0.489	0.452
RESERVED / (DEFICIENCY)																							
0.856	0.855	0.865	0.885	0.894	0.865	0.899	0.899	0.885	0.854	0.831	0.824	0.819	0.837	0.865	0.853	0.805	0.766	0.678	0.733	0.733	0.745	0.786	0.823

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
CAG. DE TAWI-TAWI (MAPUN) DPP
OCT 2024

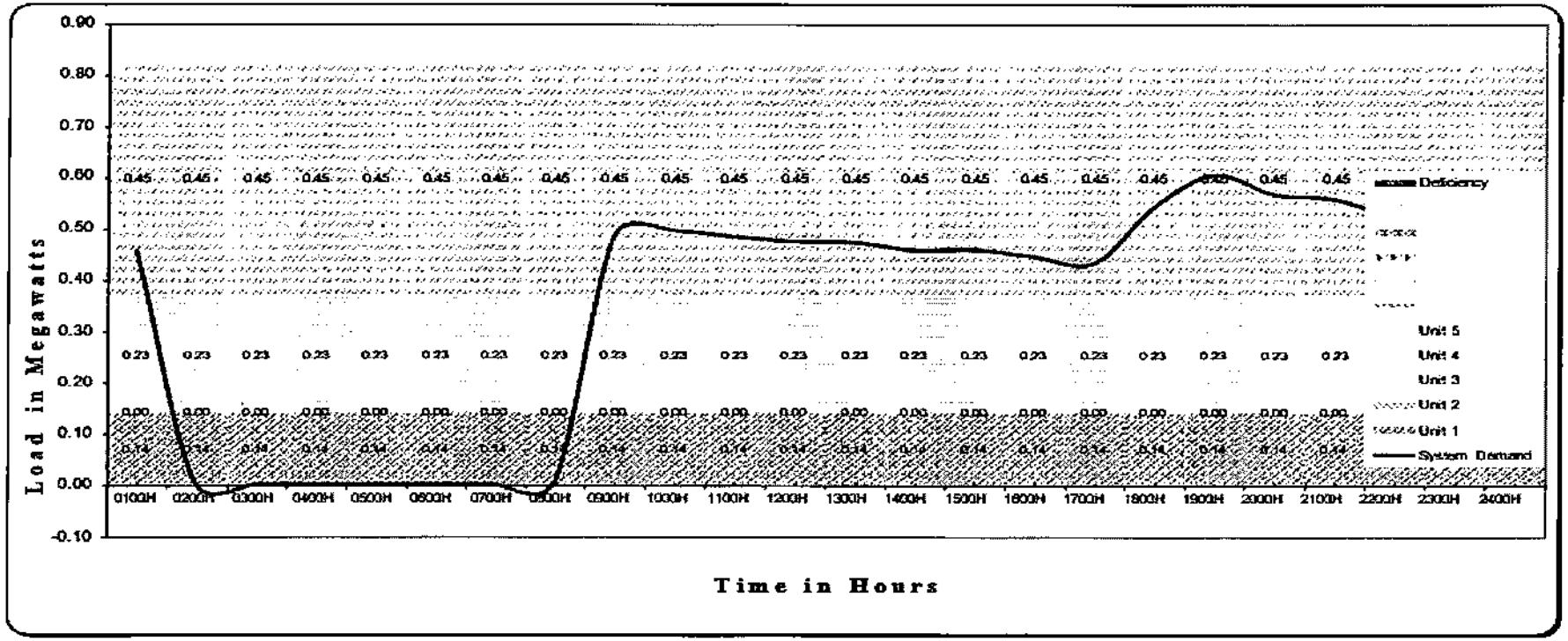


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.424	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.462	0.471	0.467	0.467	0.462	0.469	0.504	0.416	0.502	0.616	0.489	0.560	0.5441	0.495	0.476
RESERVED / (DEFICIENCY)																							
0.396	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.358	0.349	0.353	0.353	0.358	0.351	0.316	0.404	0.318	0.204	0.331	0.260	0.276	0.325	0.344

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
CAG. DE TAWI-TAWI (MAPUN) DPP
NOV 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.458	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.488	0.508	0.484	0.473	0.473	0.466	0.459	0.446	0.433	0.543	0.605	0.579	0.558	0.521	0.498	0.472
RESERVED / (DEFICIENCY)																							
0.362	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.332	0.312	0.336	0.347	0.347	0.354	0.361	0.374	0.387	0.277	0.215	0.241	0.262	0.299	0.322	0.347

National Power Corporation

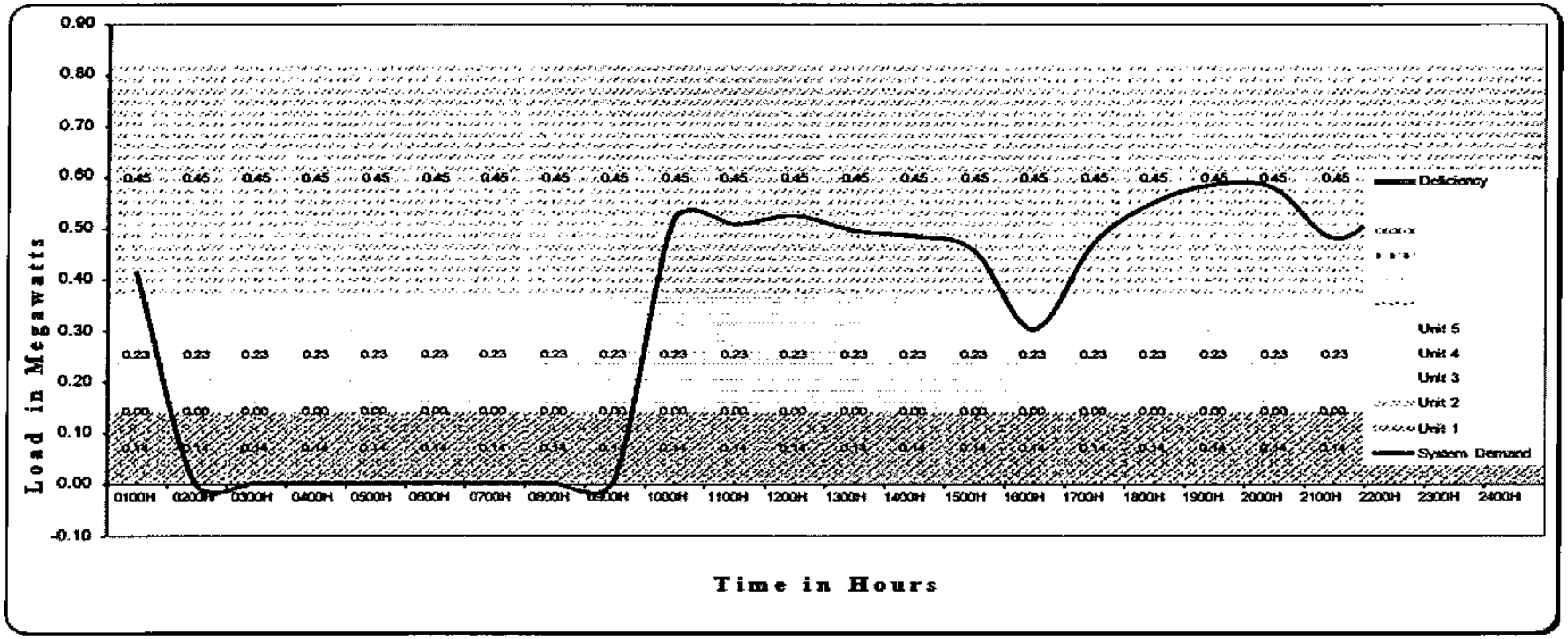
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

CAG. DE TAWI-TAWI (MAPUN) DPP

DEC 2024

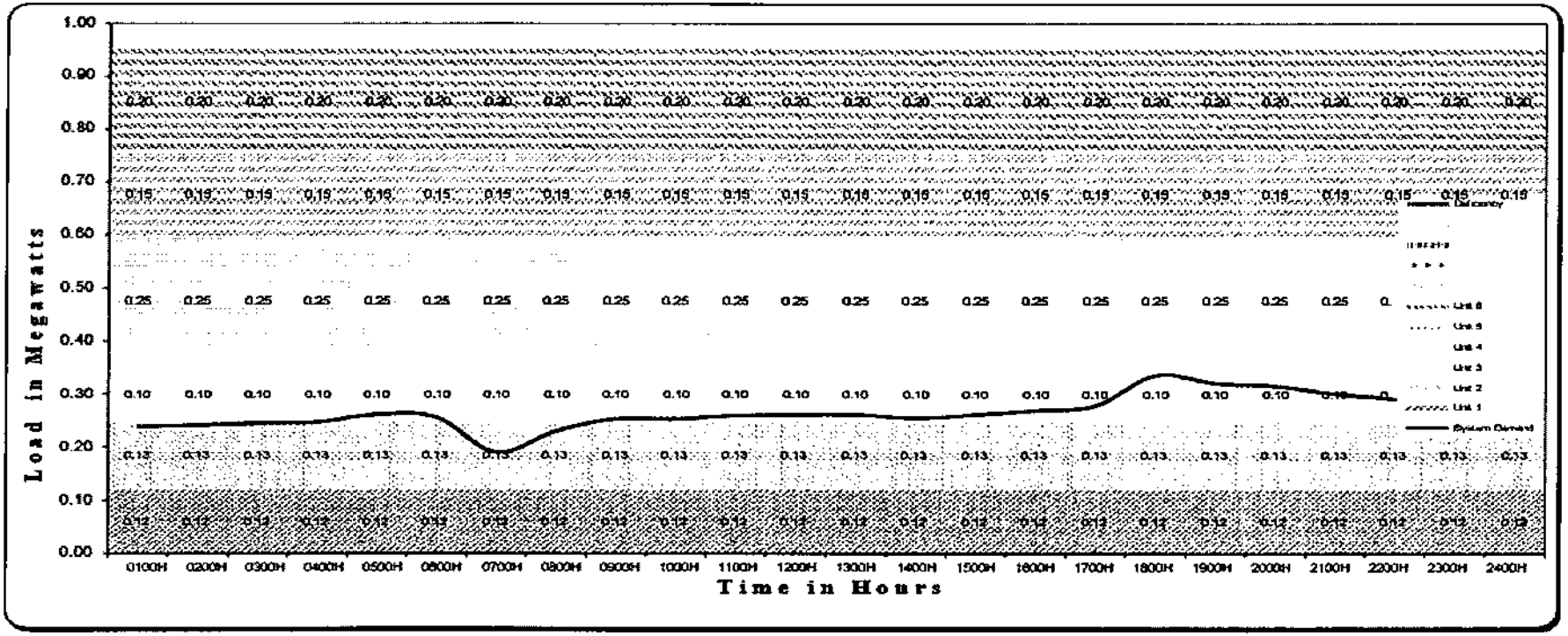


0100H	[illegible]	0300H	[illegible]	0500H	[illegible]	0700H	[illegible]	0900H	[illegible]	1100H	[illegible]	1300H	[illegible]	1500H	[illegible]	1700H	[illegible]	1900H	[illegible]	2100H	[illegible]	2300H	[illegible]
TOTAL CAPABILITY																							
0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]
SYSTEM DEMAND																							
0.414	[illegible]	0.000	[illegible]	0.000	[illegible]	0.000	[illegible]	0.000	0.517	0.505	[illegible]	0.493	[illegible]	0.455	[illegible]	0.469	[illegible]	0.583	[illegible]	0.477	[illegible]	0.492	[illegible]
RESERVED / (DEFICIENCY)																							
0.406	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.820	[illegible]	0.315	[illegible]	0.327	[illegible]	0.365	[illegible]	0.351	[illegible]	0.237	[illegible]	0.343	[illegible]	0.328	[illegible]

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
BALIMBING DIESEL POWER PLANT
January 2024

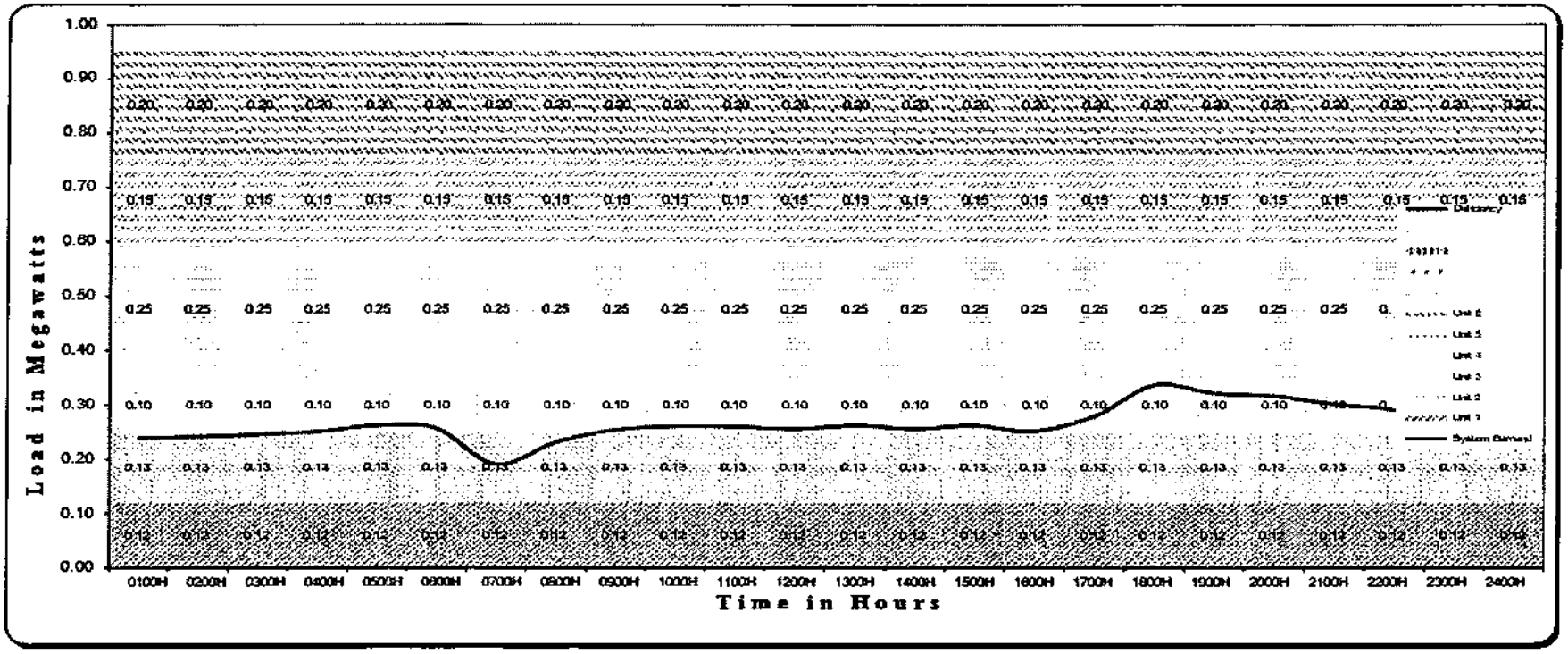


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND																							
0.238	0.241	0.245	0.247	0.261	0.260	0.190	0.220	0.253	0.257	0.259	0.261	0.261	0.259	0.261	0.259	0.278	0.285	0.320	0.315	0.300	0.290	0.267	0.245
RESERVED / (DEFICIENCY)																							
0.712	0.709	0.705	0.703	0.689	0.690	0.760	0.730	0.697	0.693	0.691	0.689	0.689	0.691	0.689	0.691	0.672	0.665	0.630	0.635	0.650	0.660	0.683	0.705

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
BALIMBING DIESEL POWER PLANT
February 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND																							
0.238	0.241	0.245	0.250	0.261	0.256	0.190	0.230	0.253	0.260	0.259	0.255	0.261	0.256	0.261	0.261	0.278	0.335	0.320	0.315	0.300	0.290	0.267	0.245
RESERVED / (DEFICIENCY)																							
0.712	0.709	0.705	0.700	0.689	0.694	0.760	0.720	0.697	0.690	0.691	0.695	0.689	0.694	0.689	0.689	0.672	0.615	0.630	0.635	0.650	0.660	0.683	0.705

National Power Corporation

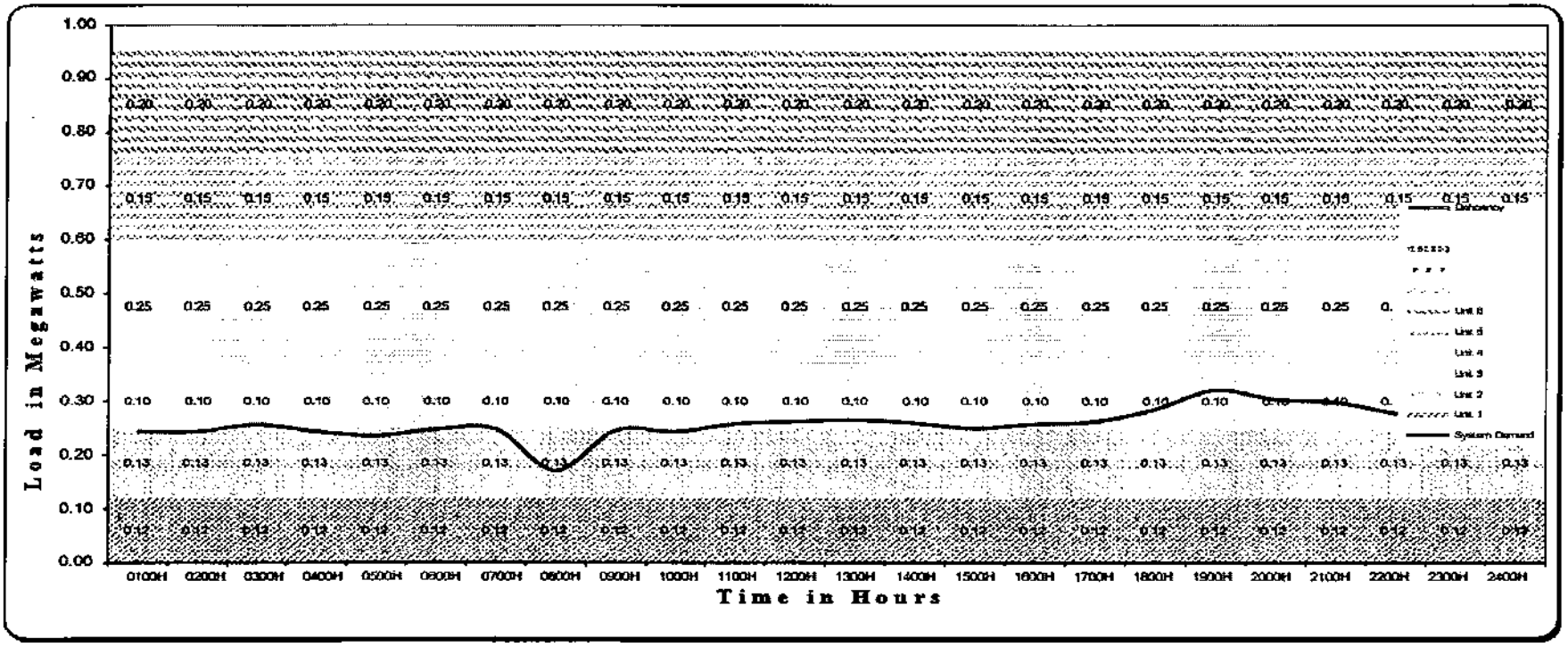
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

BALIMBING DIESEL POWER PLANT

March 2024

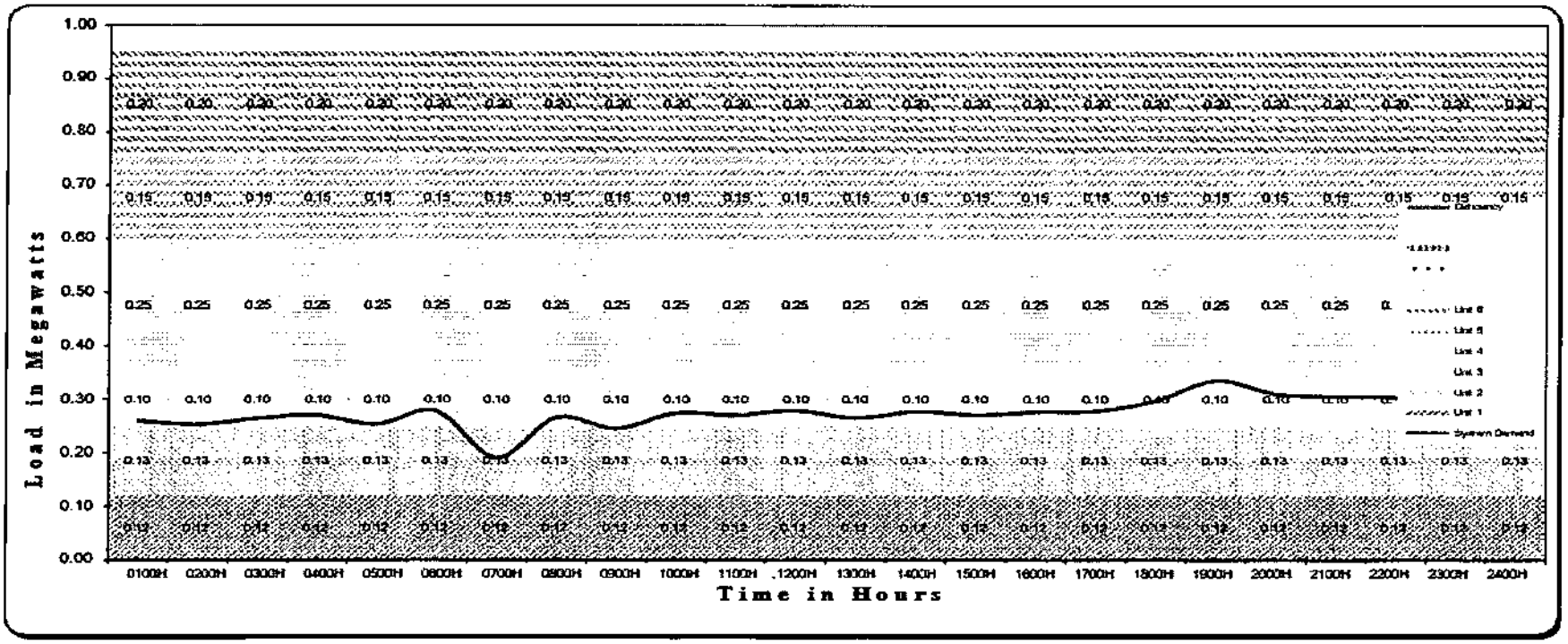


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND																							
0.243	0.243	0.256	0.243	0.235	0.248	0.248	0.170	0.245	0.243	0.257	0.262	0.265	0.260	0.249	0.257	0.262	0.255	0.321	0.303	0.298	0.277	0.260	0.250
RESERVED / (DEFICIENCY)																							
0.707	0.707	0.694	0.707	0.715	0.703	0.702	0.780	0.705	0.707	0.693	0.688	0.685	0.691	0.701	0.693	0.688	0.695	0.629	0.647	0.652	0.673	0.690	0.700

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
BALIMBING DIESEL POWER PLANT
April 2024

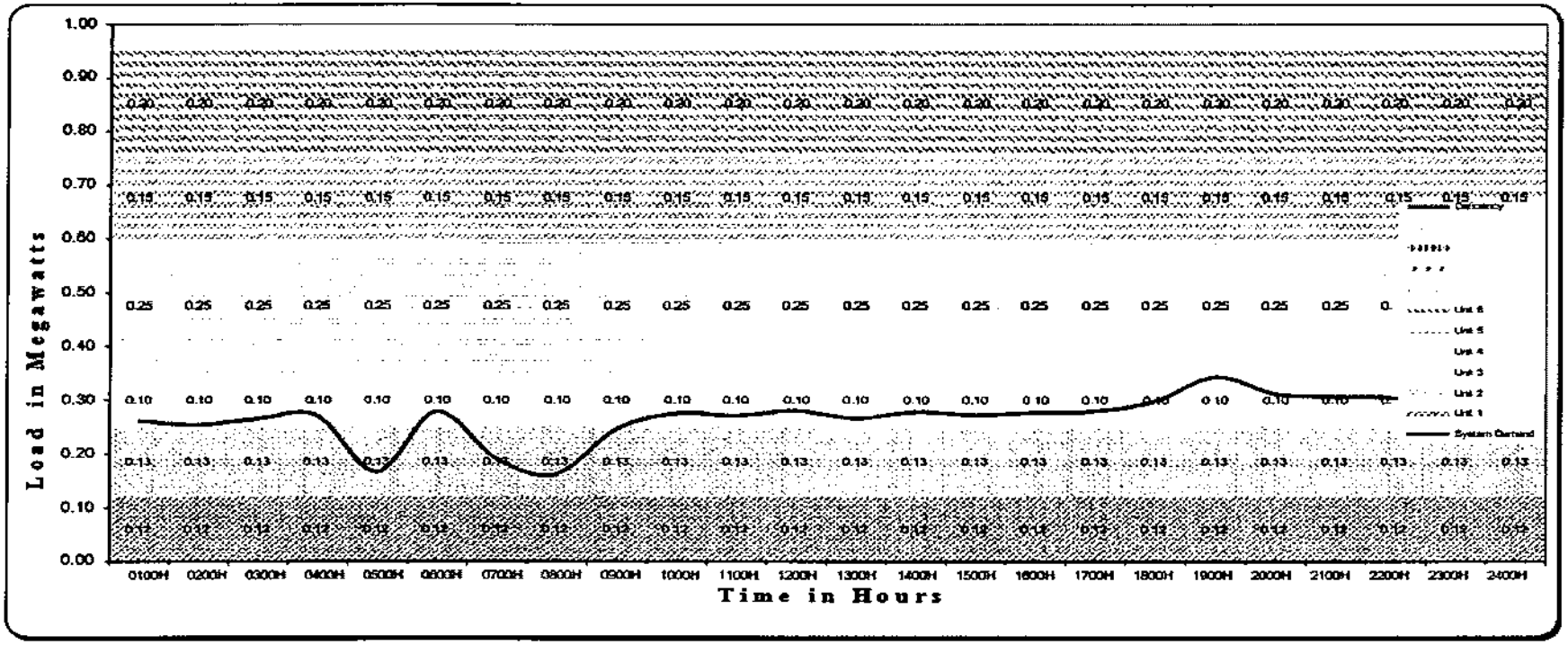


	0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND	0.260	0.263	0.264	0.270	0.253	0.265	0.190	0.260	0.245	0.274	0.270	0.279	0.265	0.272	0.271	0.279	0.278	0.297	0.335	0.319	0.305	0.292	0.287	0.279
RESERVED / (DEFICIENCY)	0.690	0.687	0.686	0.680	0.697	0.685	0.760	0.690	0.705	0.676	0.680	0.671	0.685	0.678	0.679	0.671	0.672	0.653	0.615	0.631	0.645	0.658	0.663	0.671

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
BALIMBING DIESEL POWER PLANT
May 2024

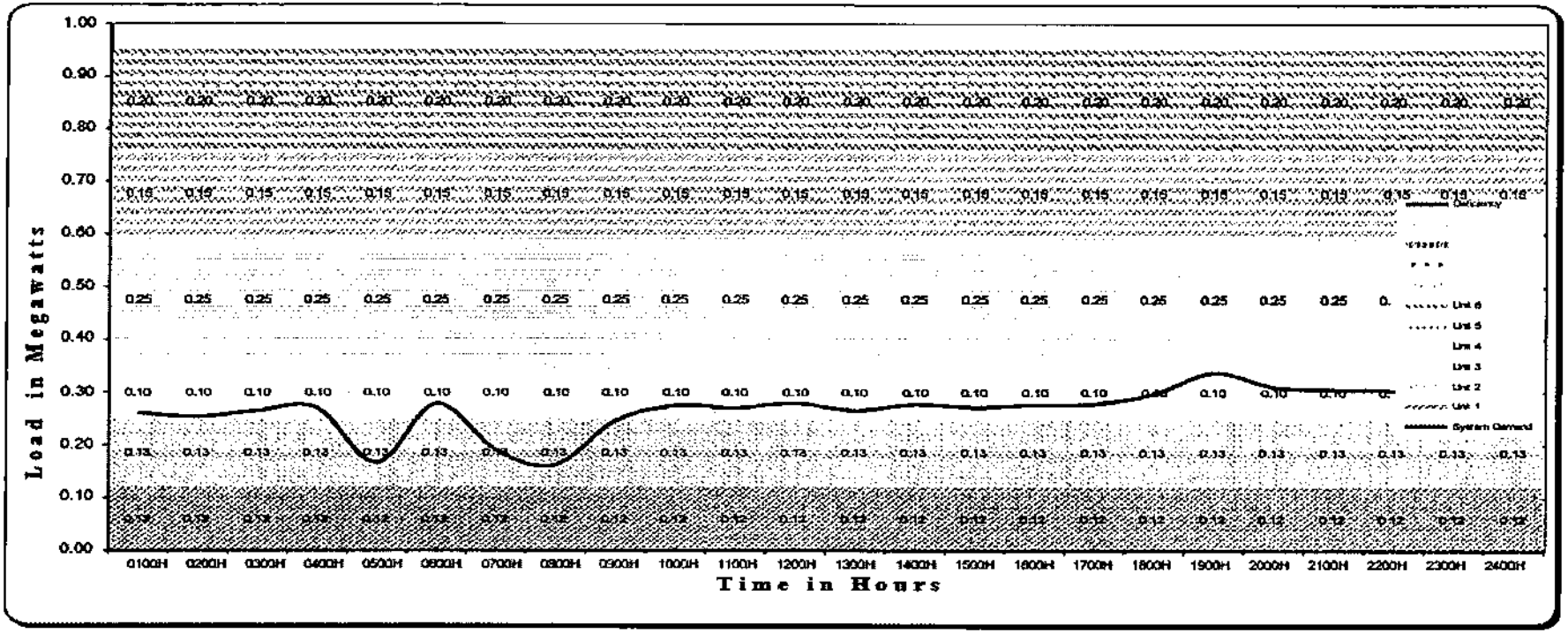


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND																							
0.260	0.253	0.264	0.270	0.165	0.274	0.190	0.161	0.245	0.274	0.270	0.270	0.265	0.277	0.271	0.279	0.278	0.297	0.342	0.310	0.305	0.303	0.287	0.279
RESERVED / (DEFICIENCY)																							
0.690	0.697	0.686	0.680	0.785	0.676	0.760	0.789	0.705	0.676	0.680	0.680	0.685	0.673	0.679	0.671	0.672	0.653	0.608	0.640	0.645	0.647	0.663	0.671

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
BALIMBING DIESEL POWER PLANT
June 2024

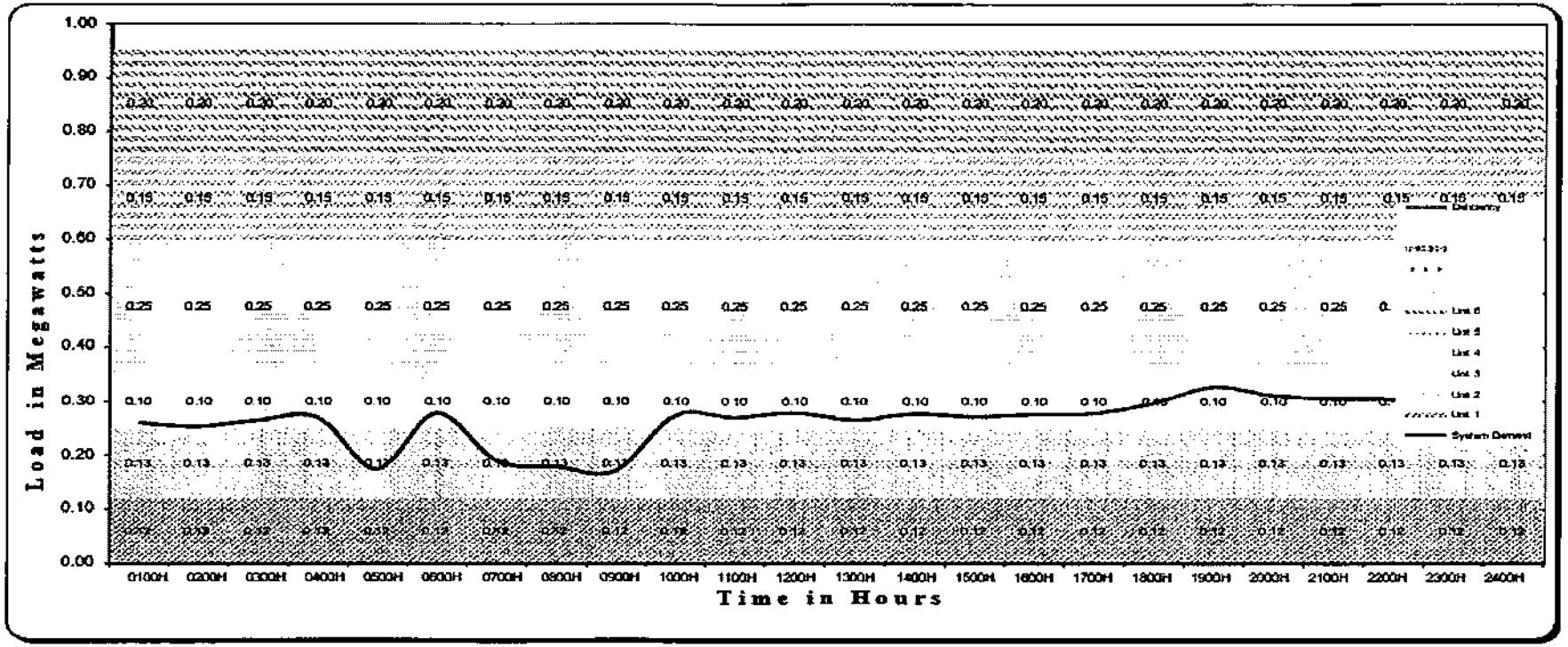


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND																							
0.260	0.253	0.264	0.230	0.165	0.276	0.190	0.161	0.245	0.274	0.270	0.278	0.265	0.277	0.271	0.278	0.278	0.297	0.337	0.310	0.305	0.302	0.287	0.279
RESERVED / (DEFICIENCY)																							
0.690	0.697	0.686	0.720	0.785	0.674	0.760	0.789	0.705	0.676	0.680	0.672	0.685	0.673	0.679	0.672	0.672	0.653	0.613	0.640	0.645	0.647	0.663	0.671

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
BALIMBING DIESEL POWER PLANT
July 2024

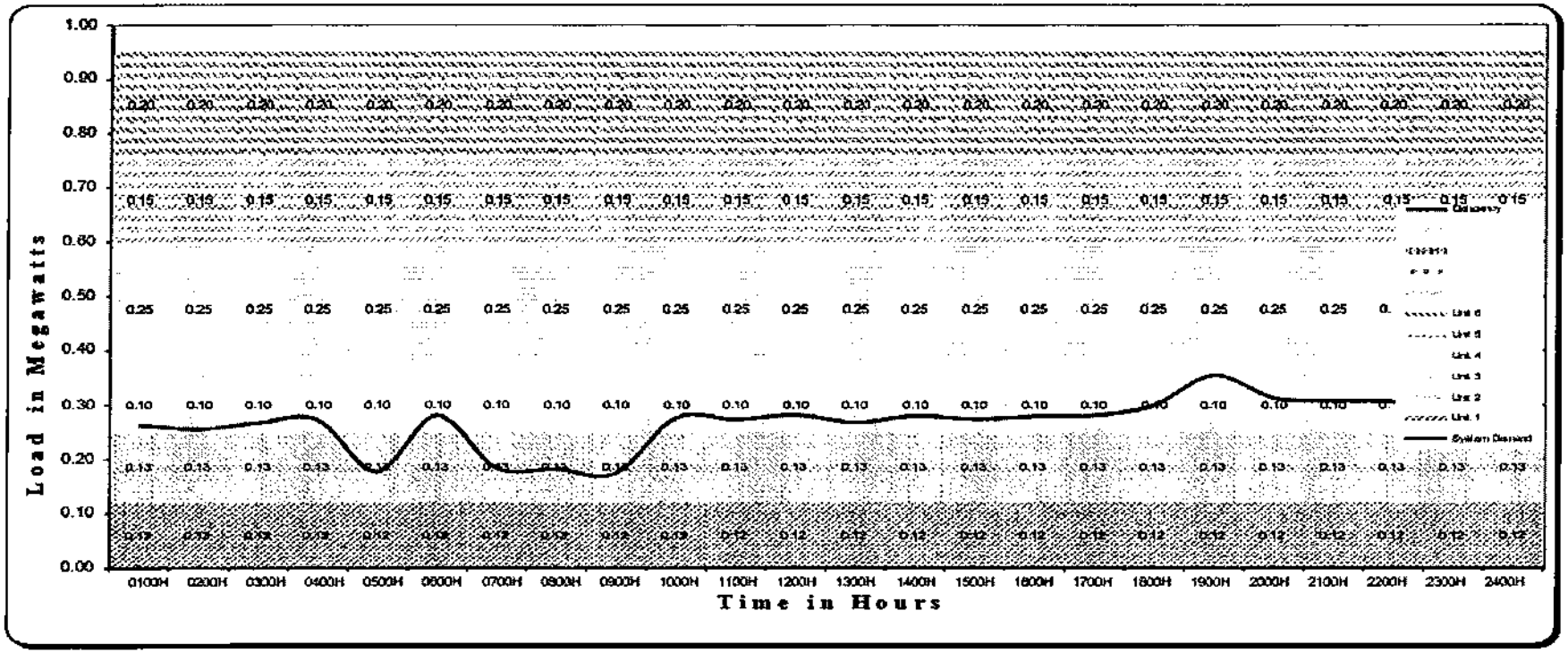


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND																							
0.280	0.253	0.264	0.270	0.174	0.228	0.190	0.179	0.171	0.274	0.270	0.270	0.265	0.276	0.271	0.279	0.278	0.287	0.326	0.310	0.305	0.303	0.287	0.279
RESERVED / (DEFICIENCY)																							
0.670	0.697	0.686	0.680	0.776	0.722	0.760	0.771	0.779	0.676	0.680	0.671	0.685	0.674	0.679	0.671	0.672	0.663	0.624	0.640	0.645	0.647	0.663	0.671

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
BALIMBING DIESEL POWER PLANT
August 2024

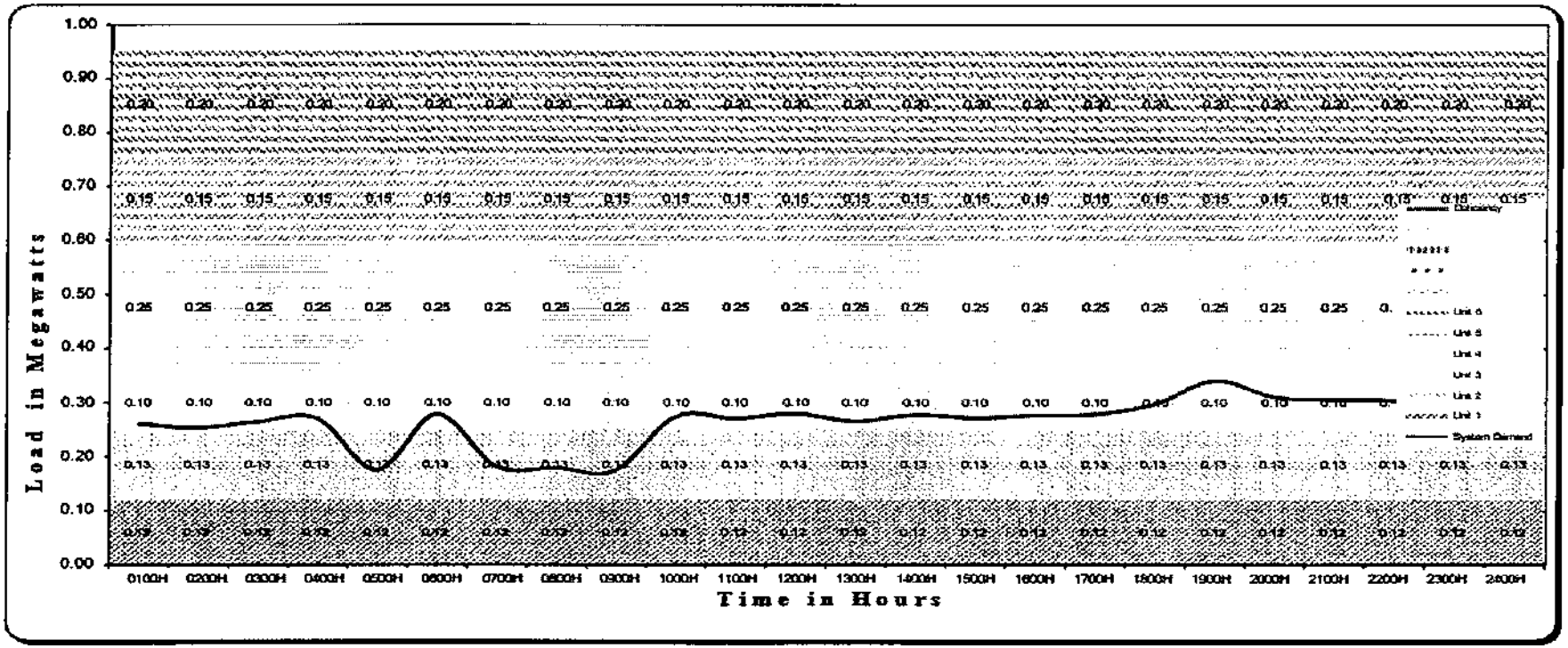


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND																							
0.280	0.283	0.264	0.270	0.174	0.278	0.181	0.179	0.171	0.274	0.270	0.279	0.265	0.277	0.271	0.278	0.278	0.287	0.352	0.310	0.305	0.303	0.287	0.279
RESERVED / (DEFICIENCY)																							
0.690	0.667	0.686	0.680	0.776	0.672	0.769	0.771	0.779	0.676	0.680	0.671	0.685	0.673	0.679	0.674	0.672	0.663	0.598	0.640	0.645	0.647	0.663	0.671

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
BALIMBING DIESEL POWER PLANT
September 2024

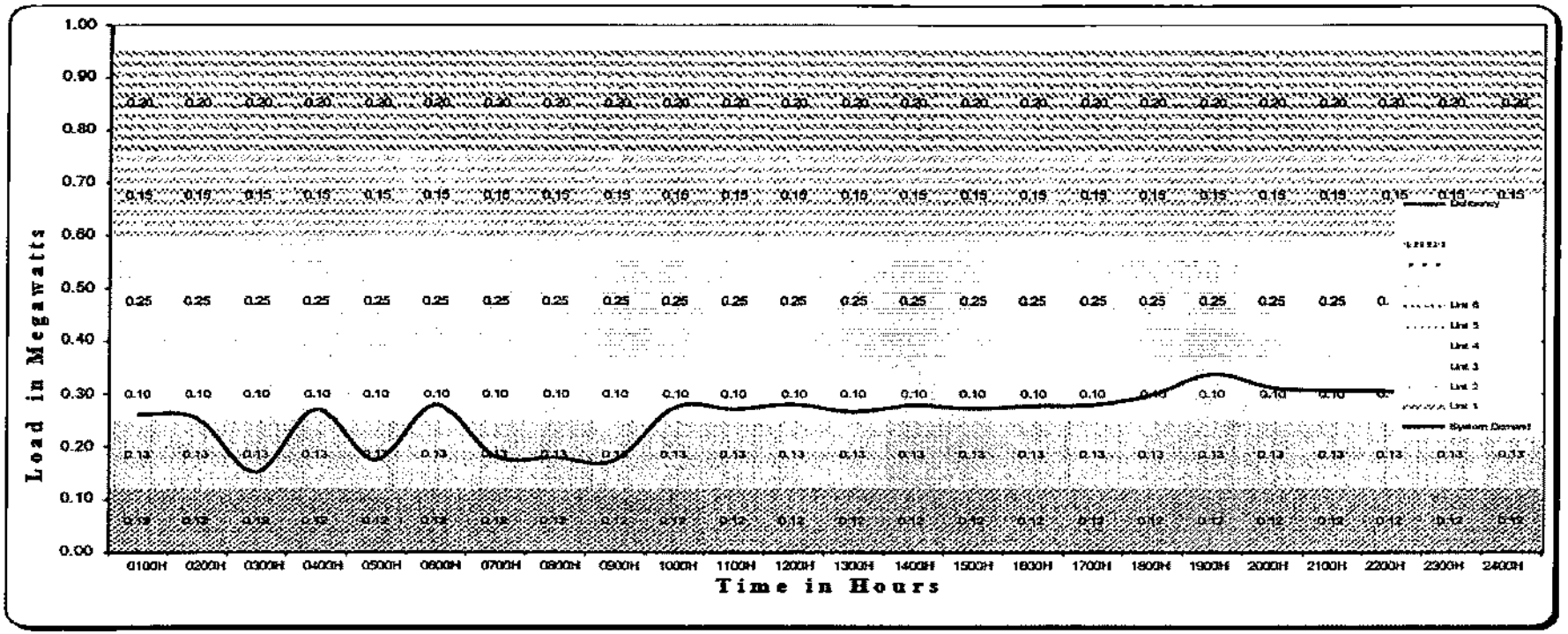


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND																							
0.260	0.263	0.264	0.270	0.174	0.278	0.181	0.179	0.174	0.274	0.270	0.270	0.265	0.277	0.271	0.276	0.278	0.297	0.340	0.315	0.305	0.303	0.287	0.278
RESERVED / (DEFICIENCY)																							
0.690	0.687	0.686	0.680	0.776	0.672	0.769	0.771	0.776	0.676	0.680	0.680	0.685	0.673	0.679	0.674	0.672	0.653	0.610	0.640	0.645	0.647	0.663	0.672

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
BALIMBING DIESEL POWER PLANT
October 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND																							
0.280	0.263	0.151	0.270	0.174	0.276	0.181	0.179	0.174	0.274	0.270	0.278	0.265	0.272	0.271	0.279	0.278	0.297	0.336	0.318	0.305	0.303	0.287	0.279
RESERVED / (DEFICIENCY)																							
0.690	0.687	0.799	0.680	0.776	0.674	0.769	0.771	0.776	0.676	0.680	0.672	0.685	0.678	0.679	0.671	0.672	0.653	0.614	0.632	0.645	0.647	0.663	0.671

National Power Corporation

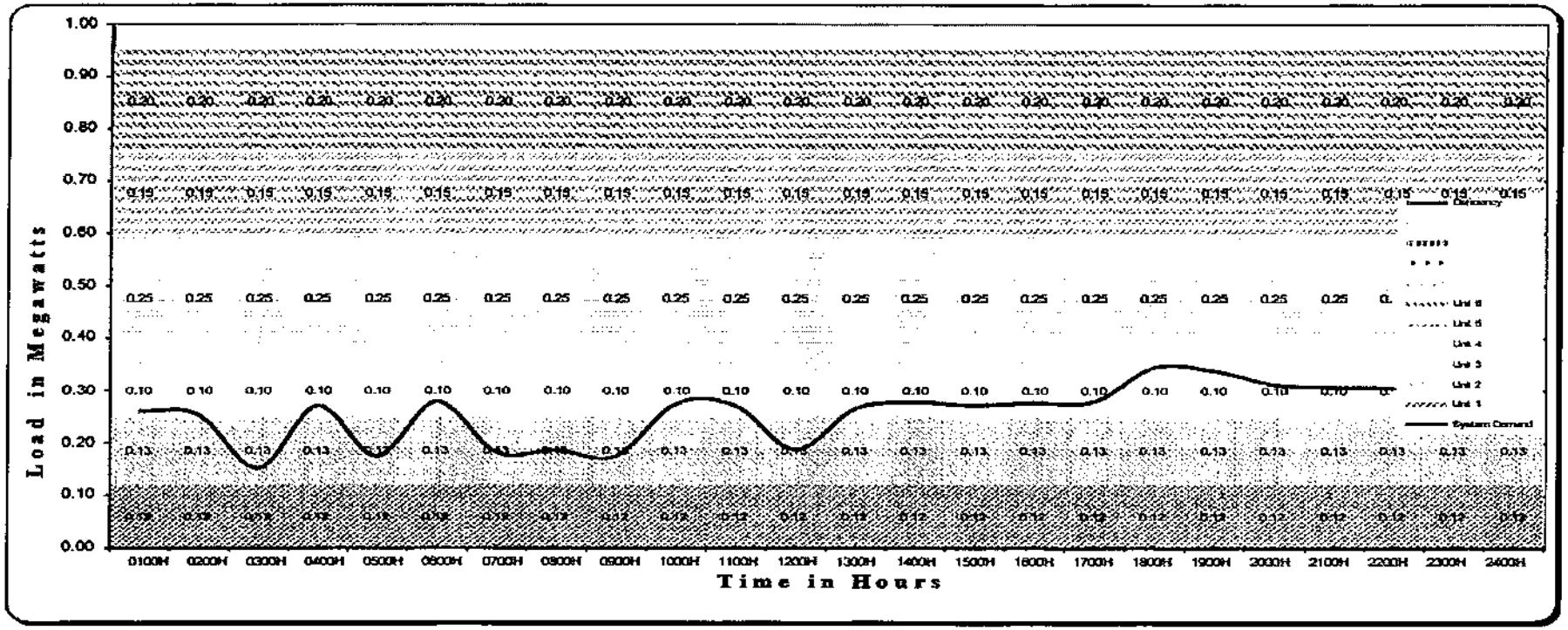
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

BALIMBING DIESEL POWER PLANT

November 2024

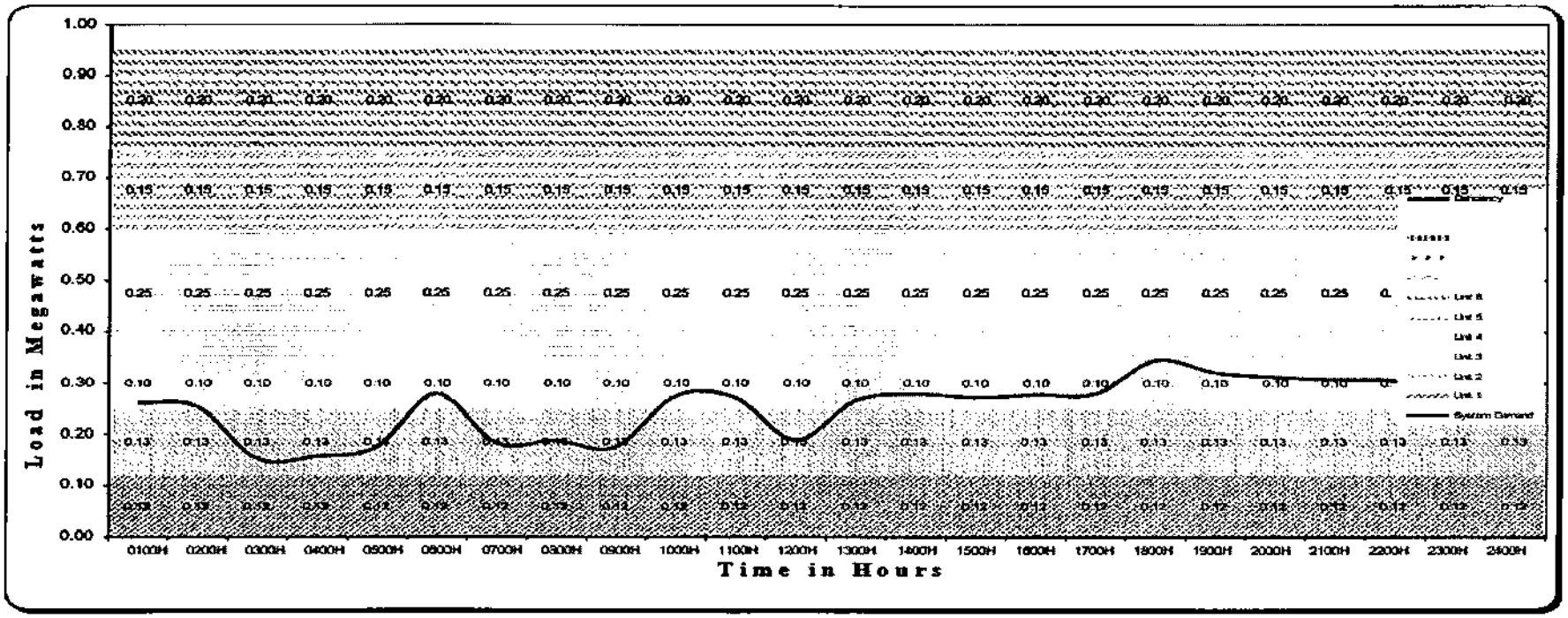


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND																							
0.260	0.203	0.151	0.270	0.174	0.278	0.181	0.186	0.174	0.274	0.270	0.281	0.265	0.275	0.271	0.279	0.278	0.243	0.336	0.310	0.305	0.293	0.287	0.279
RESERVED / (DEFICIENCY)																							
0.690	0.747	0.799	0.680	0.776	0.672	0.769	0.764	0.776	0.676	0.680	0.669	0.685	0.675	0.679	0.671	0.672	0.707	0.614	0.640	0.645	0.657	0.663	0.671

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
BALIMBING DIESEL POWER PLANT
December 2024

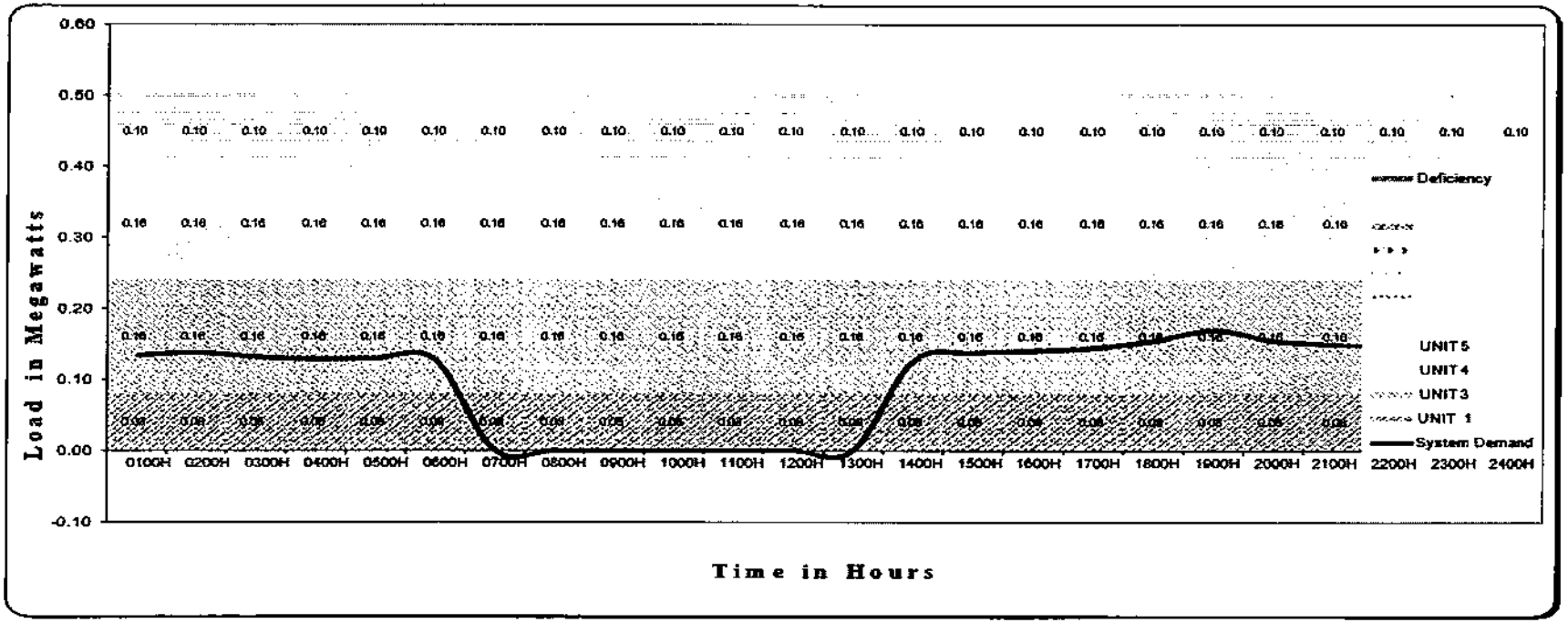


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
SYSTEM DEMAND																							
0.260	0.243	0.151	0.139	0.174	0.279	0.181	0.167	0.174	0.274	0.270	0.278	0.265	0.277	0.271	0.288	0.278	0.243	0.319	0.307	0.305	0.290	0.287	0.279
RESERVED / (DEFICIENCY)																							
0.690	0.707	0.799	0.811	0.776	0.671	0.769	0.783	0.776	0.676	0.680	0.672	0.685	0.673	0.679	0.662	0.672	0.707	0.631	0.643	0.645	0.660	0.663	0.671

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
JANUARY 2024

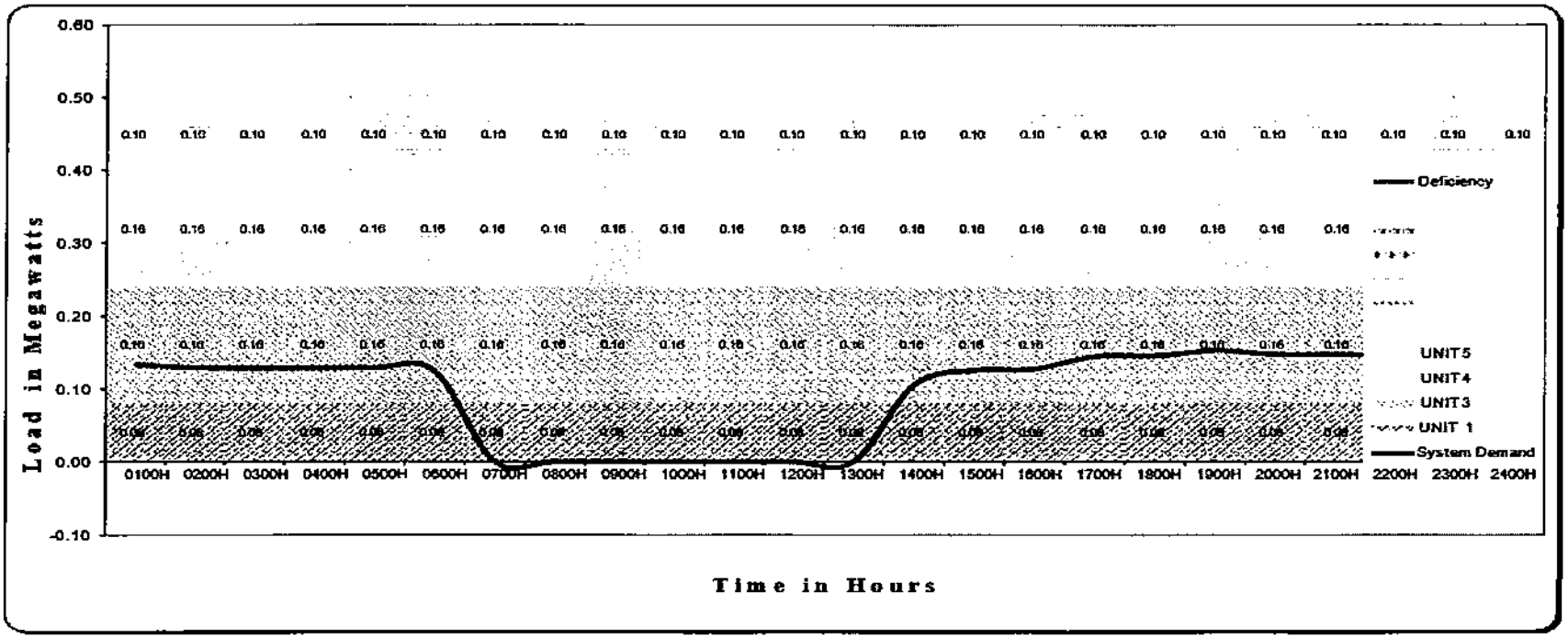


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND																							
0.134	0.134	0.132	0.130	0.130	0.130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.139	0.145	0.145	0.145	0.170	0.150	0.150	0.150	0.149	0.147	0.147
RESERVED / (DEFICIENCY)																							
0.366	0.366	0.368	0.370	0.370	0.370	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.362	0.355	0.355	0.355	0.330	0.350	0.350	0.350	0.351	0.353	0.353

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
FEBRUARY 2024

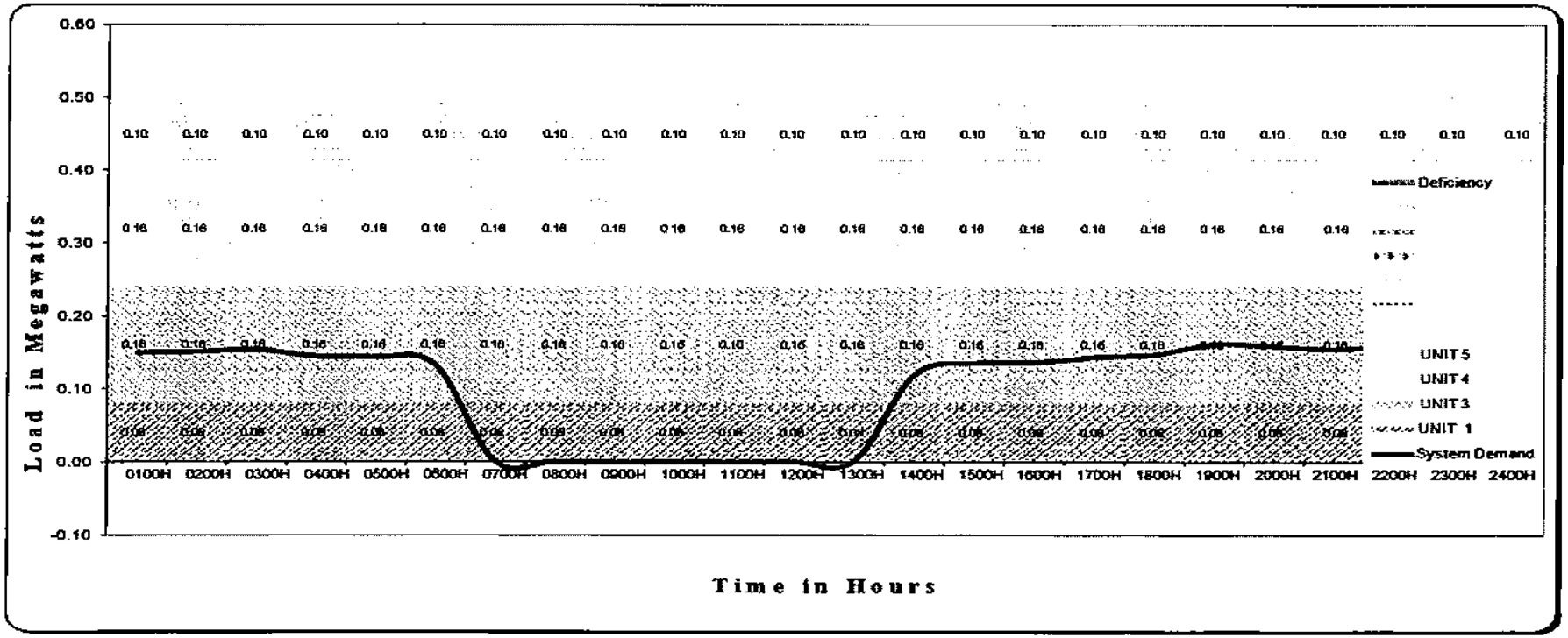


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND																							
0.134	0.130	0.129	0.129	0.129	0.129	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.126	0.126	0.145	0.145	0.153	0.148	0.148	0.148	0.146	0.146	0.136
RESERVED / (DEFICIENCY)																							
0.366	0.370	0.371	0.371	0.371	0.371	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.374	0.374	0.355	0.355	0.347	0.352	0.352	0.352	0.354	0.354	0.364

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
MARCH 2024

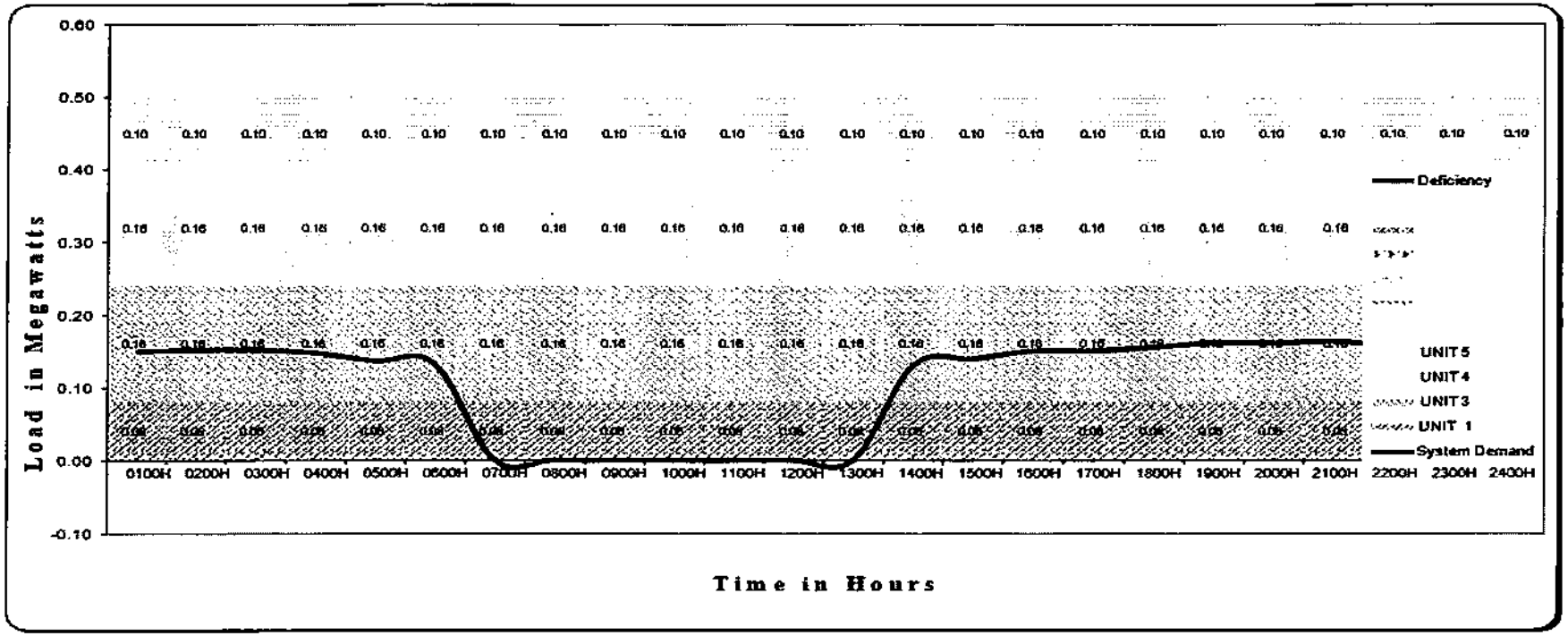


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND																							
0.150	0.146	0.154	0.144	0.144	0.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.136	0.136	0.144	0.144	0.144	0.162	0.156	0.155	0.150	0.153	0.146
RESERVED / (DEFICIENCY)																							
0.350	0.354	0.346	0.356	0.356	0.356	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.364	0.364	0.356	0.356	0.356	0.338	0.344	0.345	0.350	0.347	0.354

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
APRIL 2024

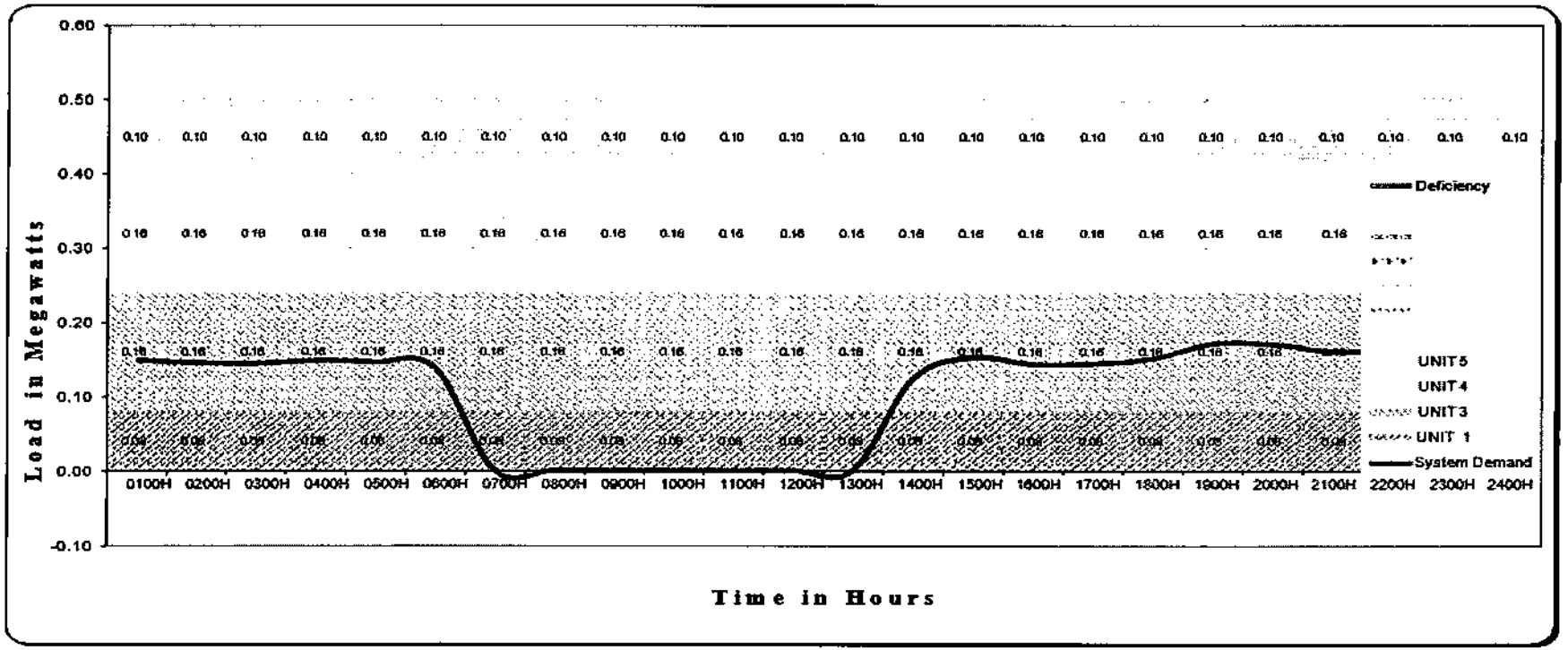


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND																							
0.150	0.152	0.152	0.148	0.137	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.140	0.140	0.151	0.151	0.162	0.162	0.164	0.164	0.154	0.154	0.152
RESERVED / (DEFICIENCY)																							
0.350	0.348	0.348	0.352	0.363	0.363	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.360	0.360	0.349	0.349	0.338	0.338	0.336	0.336	0.346	0.346	0.348

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
MAY 2024

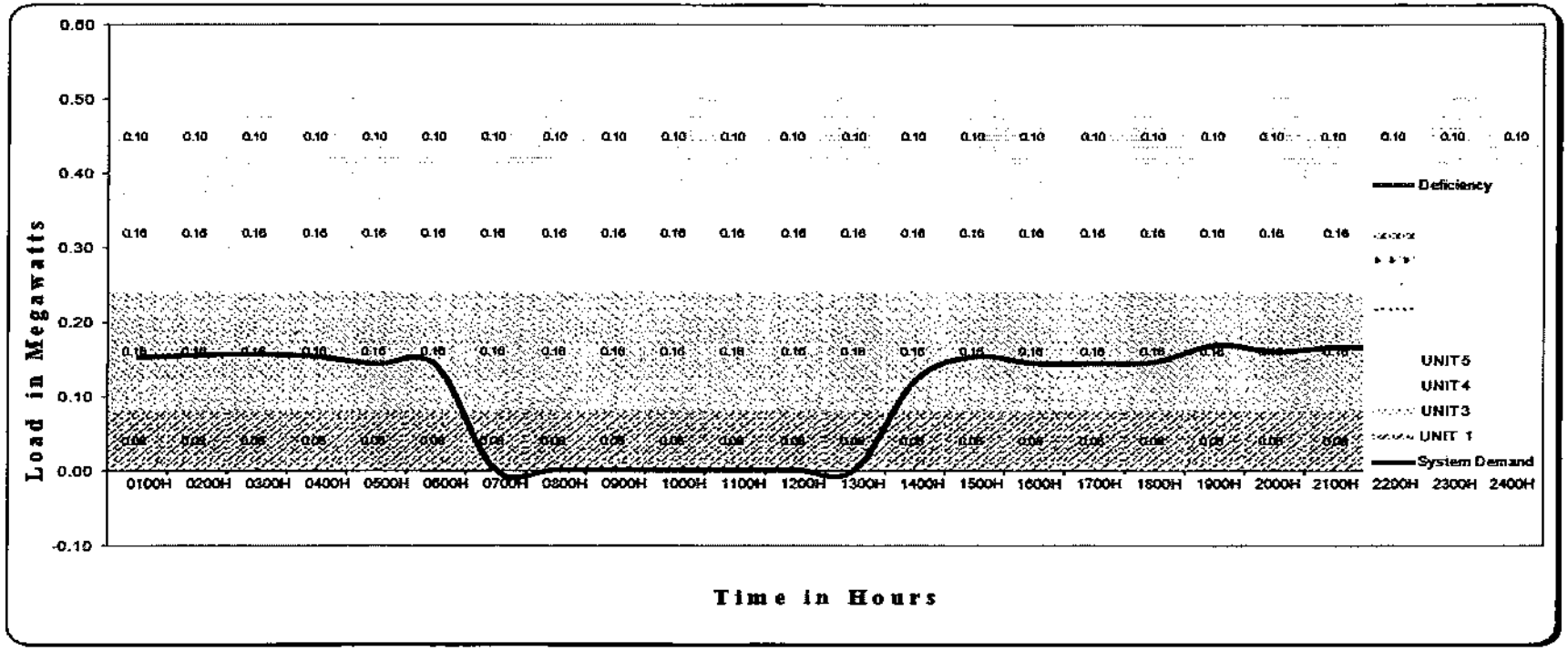


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND																							
0.149	0.144	0.144	0.146	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.152	0.152	0.144	0.144	0.171	0.171	0.160	0.160	0.150	0.150	0.149
RESERVED / (DEFICIENCY)																							
0.351	0.356	0.356	0.354	0.354	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.348	0.348	0.356	0.356	0.329	0.329	0.340	0.340	0.350	0.350	0.351

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
JUNE 2024

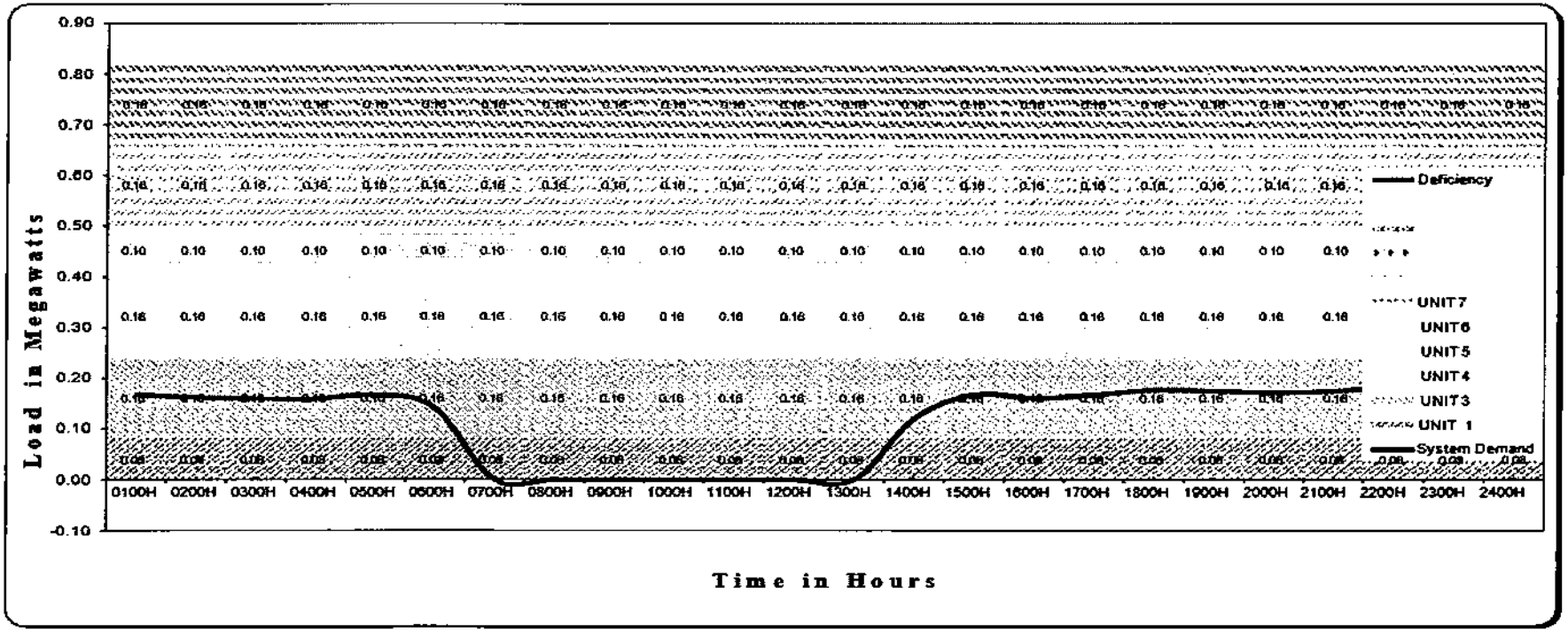


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
SYSTEM DEMAND																							
0.153	0.156	0.157	0.157	0.144	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.122	0.154	0.000	0.145	0.147	0.170	0.164	0.167	0.164	0.163	0.160
RESERVED / (DEFICIENCY)																							
0.347	0.344	0.343	0.343	0.356	0.357	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.378	0.346	0.500	0.355	0.353	0.330	0.336	0.333	0.336	0.337	0.340

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
JULY 2024

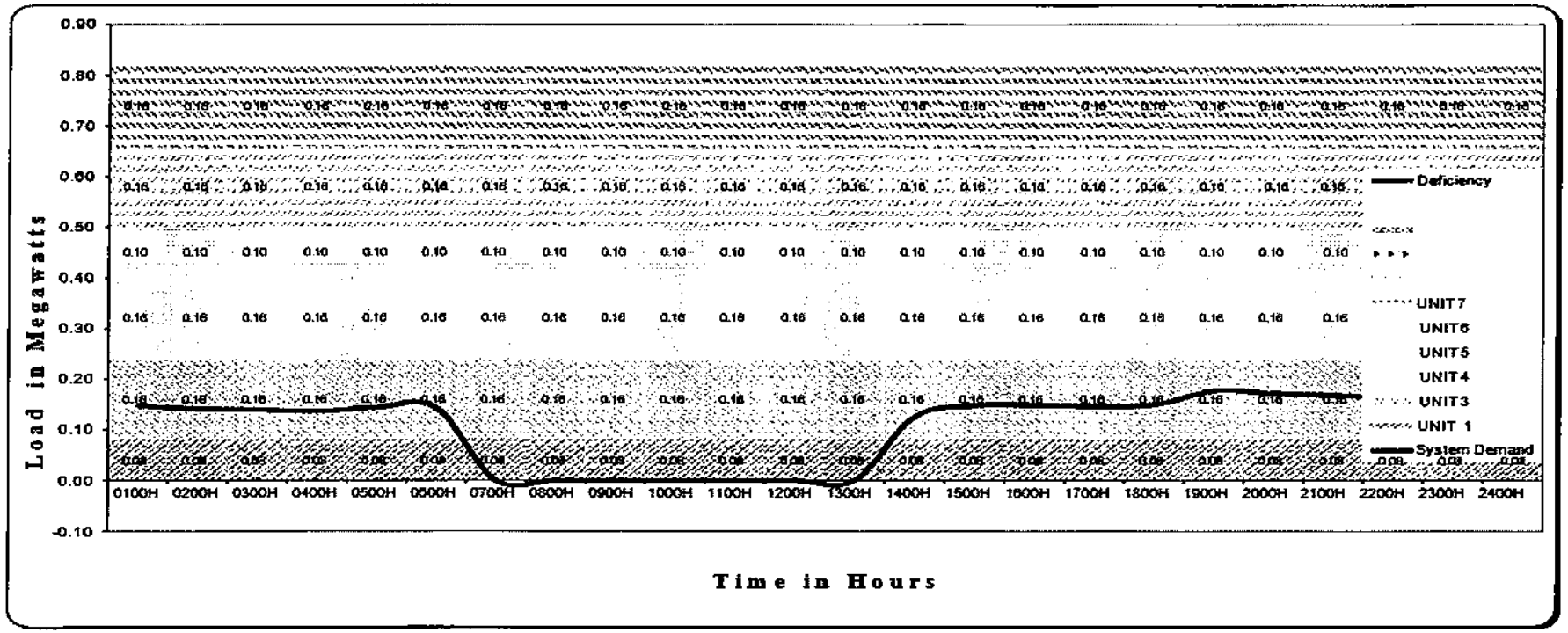


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.167	0.161	0.159	0.159	0.166	0.166	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.120	0.167	0.167	0.167	0.167	0.174	0.171	0.174	0.174	0.174	0.174
RESERVED / (DEFICIENCY)																							
0.653	0.659	0.661	0.661	0.654	0.654	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.700	0.653	0.653	0.653	0.653	0.646	0.649	0.646	0.646	0.646	0.646

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
AUGUST 2024

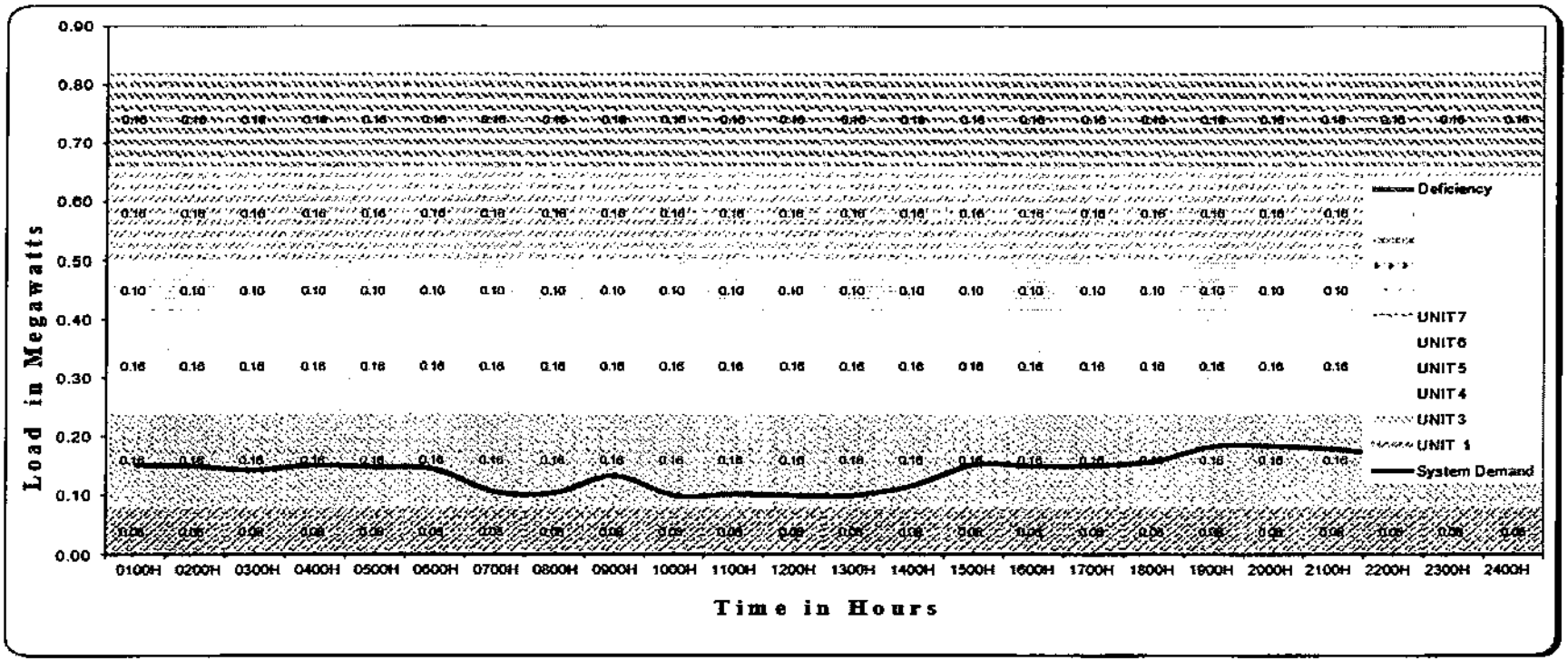


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.147	0.141	0.139	0.139	0.143	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.125	0.147	0.000	0.146	0.146	0.178	0.171	0.167	0.162	0.150	0.147
RESERVED / (DEFICIENCY)																							
0.673	0.679	0.681	0.681	0.677	0.677	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.695	0.673	0.820	0.674	0.674	0.644	0.649	0.653	0.658	0.670	0.673

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
SEPTEMBER 2024

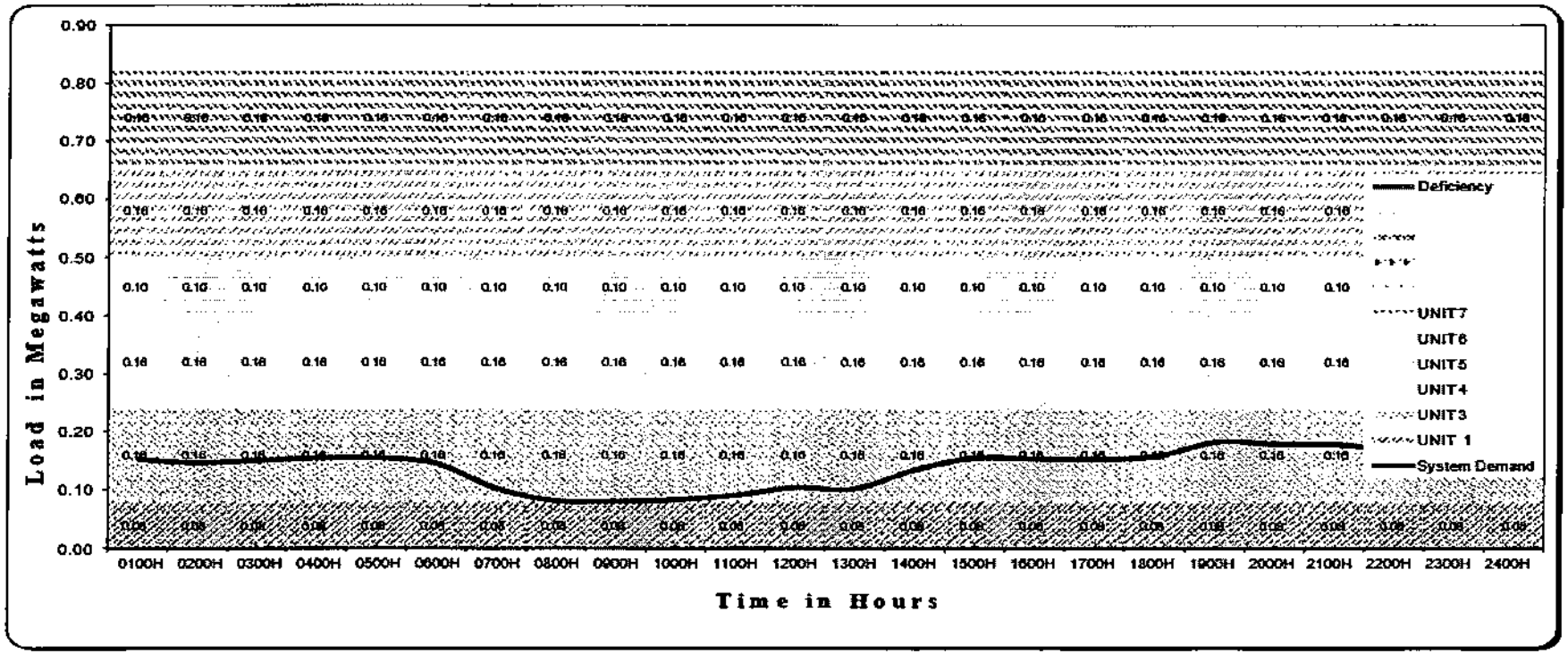


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.152	0.152	0.144	0.152	0.149	0.149	0.107	0.105	0.134	0.101	0.103	0.101	0.101	0.114	0.153	0.000	0.151	0.160	0.184	0.184	0.179	0.169	0.164	0.158
RESERVED / (DEFICIENCY)																							
0.668	0.668	0.676	0.668	0.671	0.671	0.713	0.715	0.686	0.719	0.717	0.719	0.719	0.706	0.667	0.820	0.669	0.660	0.636	0.636	0.641	0.651	0.656	0.662

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
OCTOBER 2024

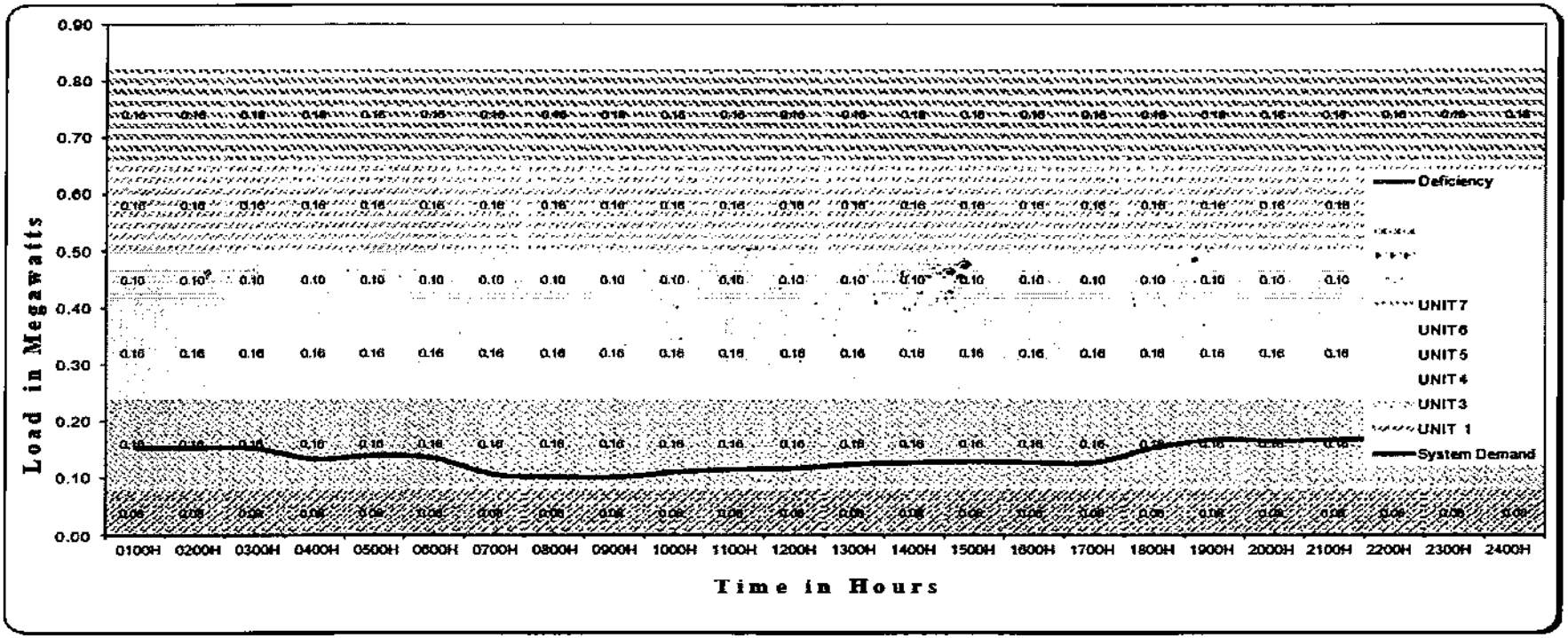


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.153	0.147	0.151	0.149	0.155	0.156	0.103	0.101	0.080	0.083	0.091	0.091	0.102	0.130	0.155	0.153	0.153	0.163	0.183	0.180	0.179	0.176	0.162	0.157
RESERVED / (DEFICIENCY)																							
0.667	0.673	0.669	0.671	0.665	0.664	0.717	0.719	0.740	0.737	0.729	0.729	0.718	0.690	0.665	0.667	0.667	0.657	0.637	0.640	0.641	0.644	0.658	0.663

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
NOVEMBER 2024

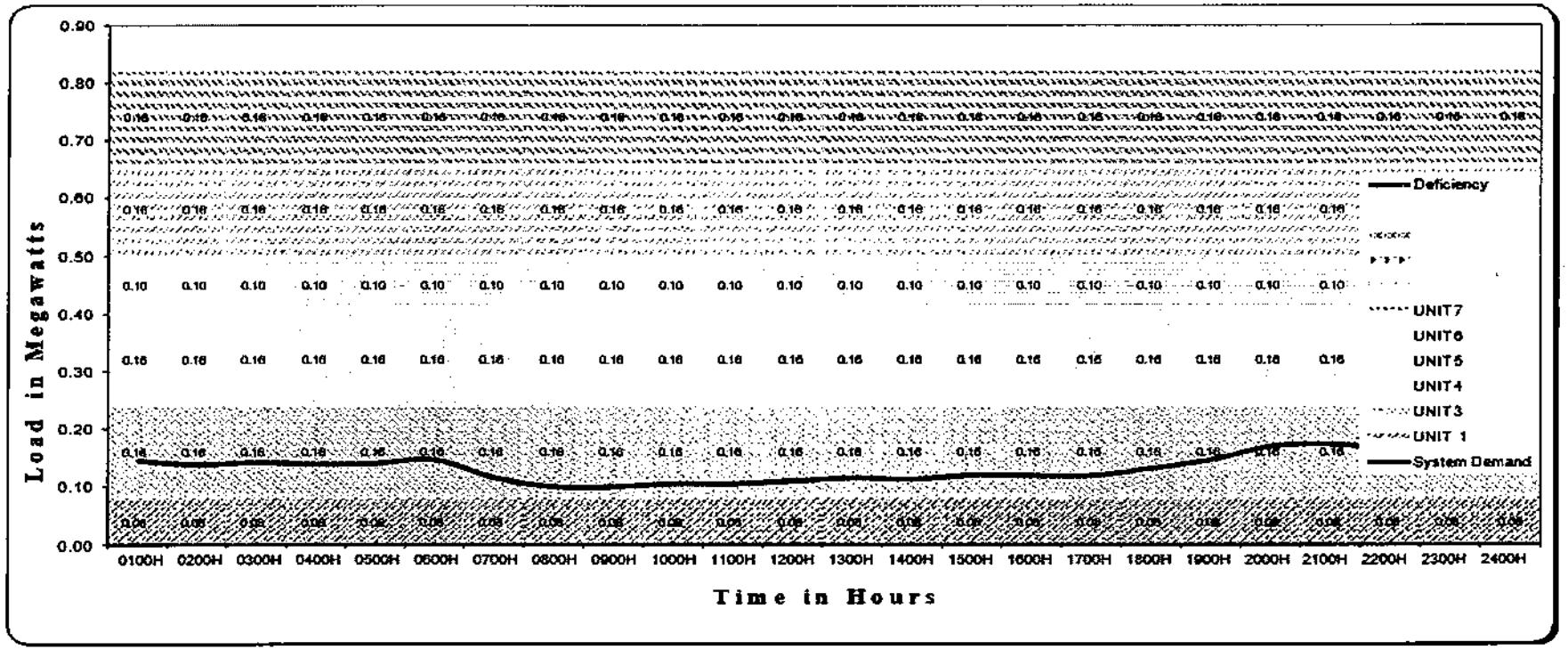


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.154	0.154	0.153	0.153	0.141	0.139	0.107	0.103	0.102	0.111	0.116	0.118	0.125	0.128	0.130	0.130	0.128	0.164	0.168	0.168	0.168	0.161	0.161	0.156
RESERVED / (DEFICIENCY)																							
0.666	0.666	0.667	0.667	0.679	0.681	0.713	0.717	0.718	0.709	0.704	0.702	0.695	0.692	0.690	0.690	0.692	0.656	0.652	0.652	0.652	0.659	0.659	0.664

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
LANGUYAN DPP
DECEMBER 2024

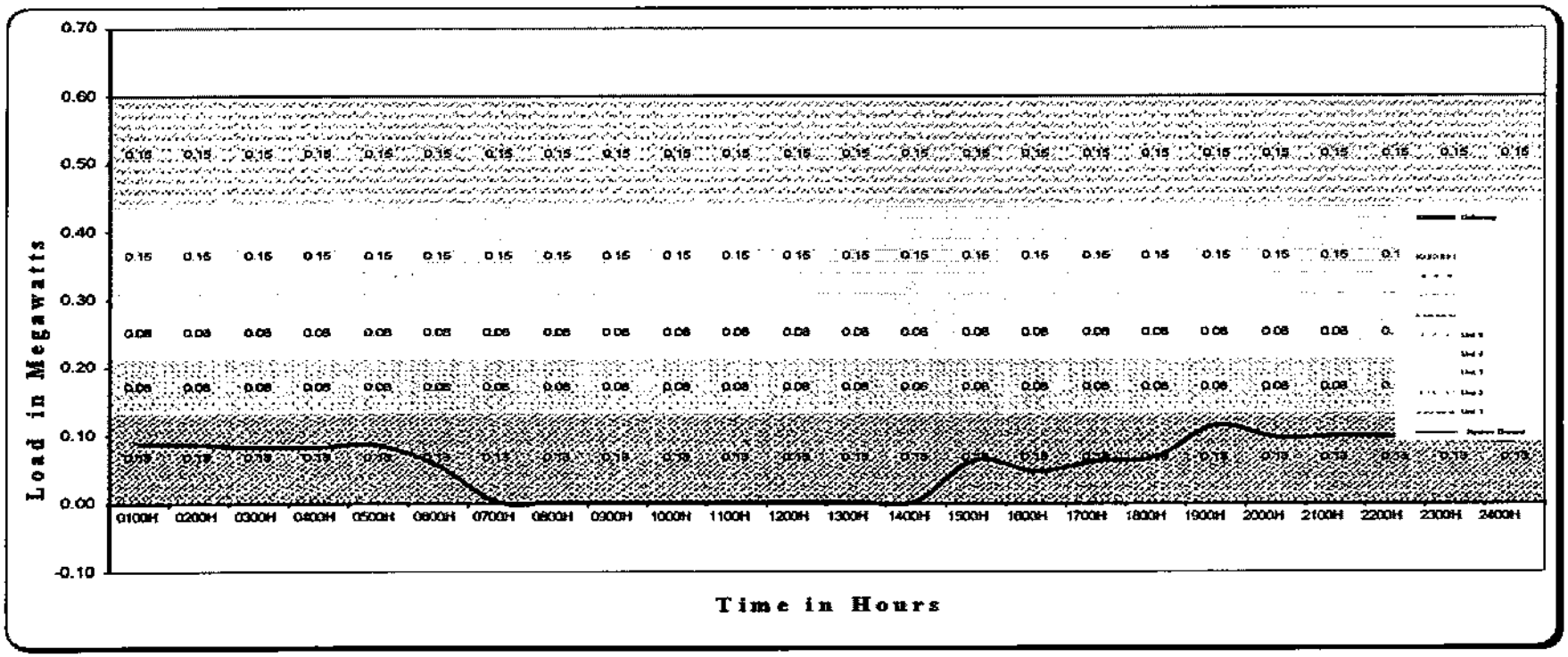


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
SYSTEM DEMAND																							
0.147	0.144	0.144	0.142	0.142	0.117	0.101	0.101	0.101	0.106	0.106	0.116	0.116	0.121	0.121	0.120	0.120	0.148	0.148	0.175	0.175	0.157	0.157	0.157
RESERVED / (DEFICIENCY)																							
0.673	0.676	0.676	0.678	0.678	0.703	0.719	0.719	0.719	0.714	0.714	0.704	0.704	0.699	0.699	0.700	0.700	0.672	0.672	0.645	0.645	0.663	0.663	0.663

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
JANUARY 2024

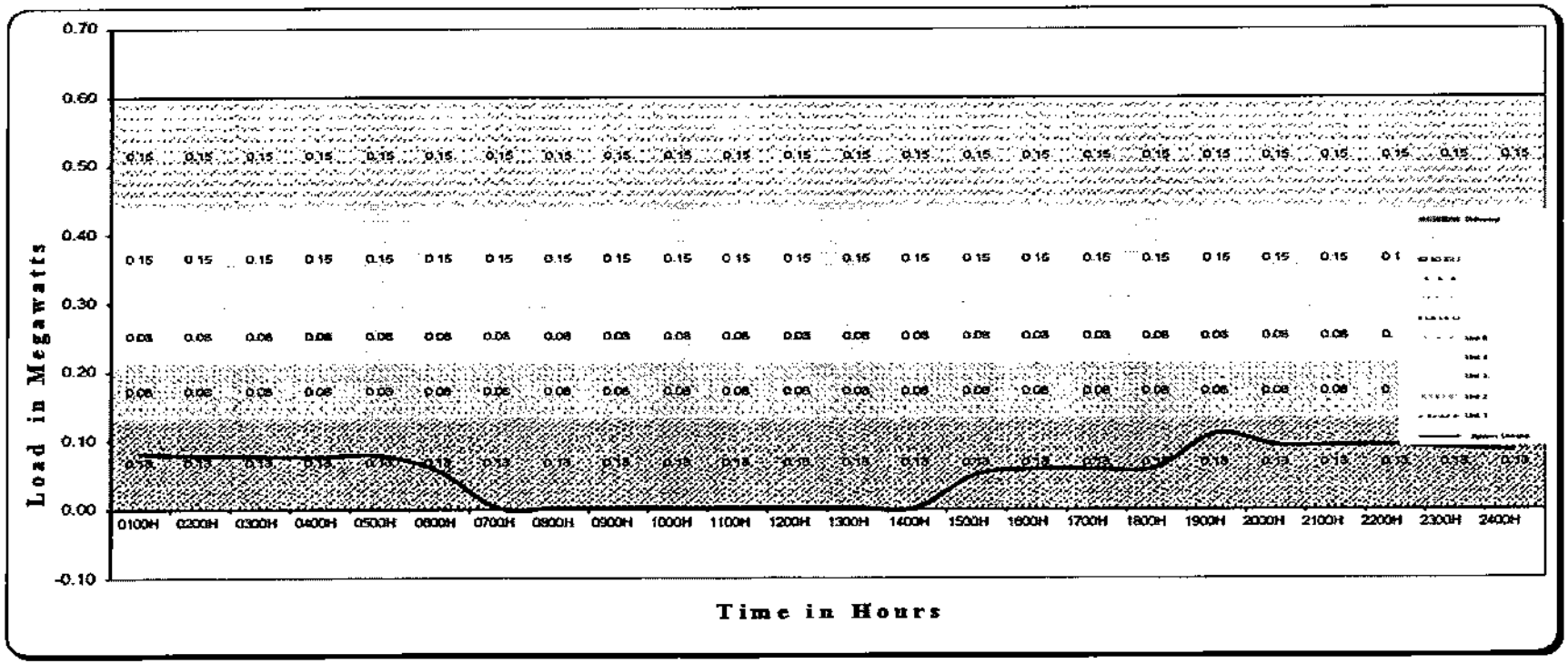


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.085	0.083	0.080	0.080	0.083	0.084	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.061	0.061	0.059	0.059	0.112	0.094	0.096	0.099	0.091	0.088
RESERVED / (DEFICIENCY)																							
0.505	0.507	0.510	0.510	0.507	0.506	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.529	0.529	0.531	0.531	0.478	0.496	0.494	0.491	0.499	0.502

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
FEBRUARY 2024

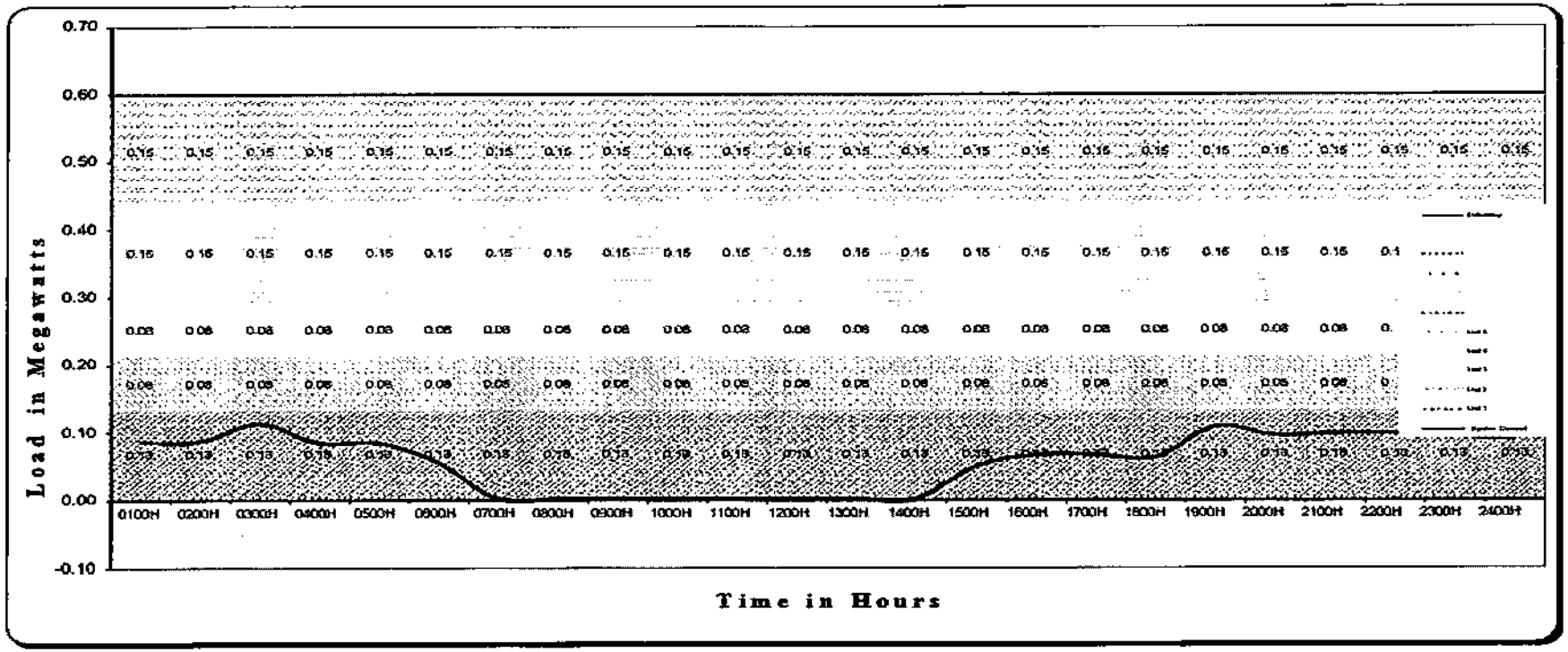


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.079	0.079	0.075	0.074	0.076	0.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.056	0.056	0.056	0.108	0.091	0.091	0.091	0.086	0.083
RESERVED / (DEFICIENCY)																							
0.511	0.511	0.515	0.516	0.514	0.506	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.542	0.534	0.534	0.534	0.482	0.499	0.499	0.499	0.504	0.507

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
MARCH 2024

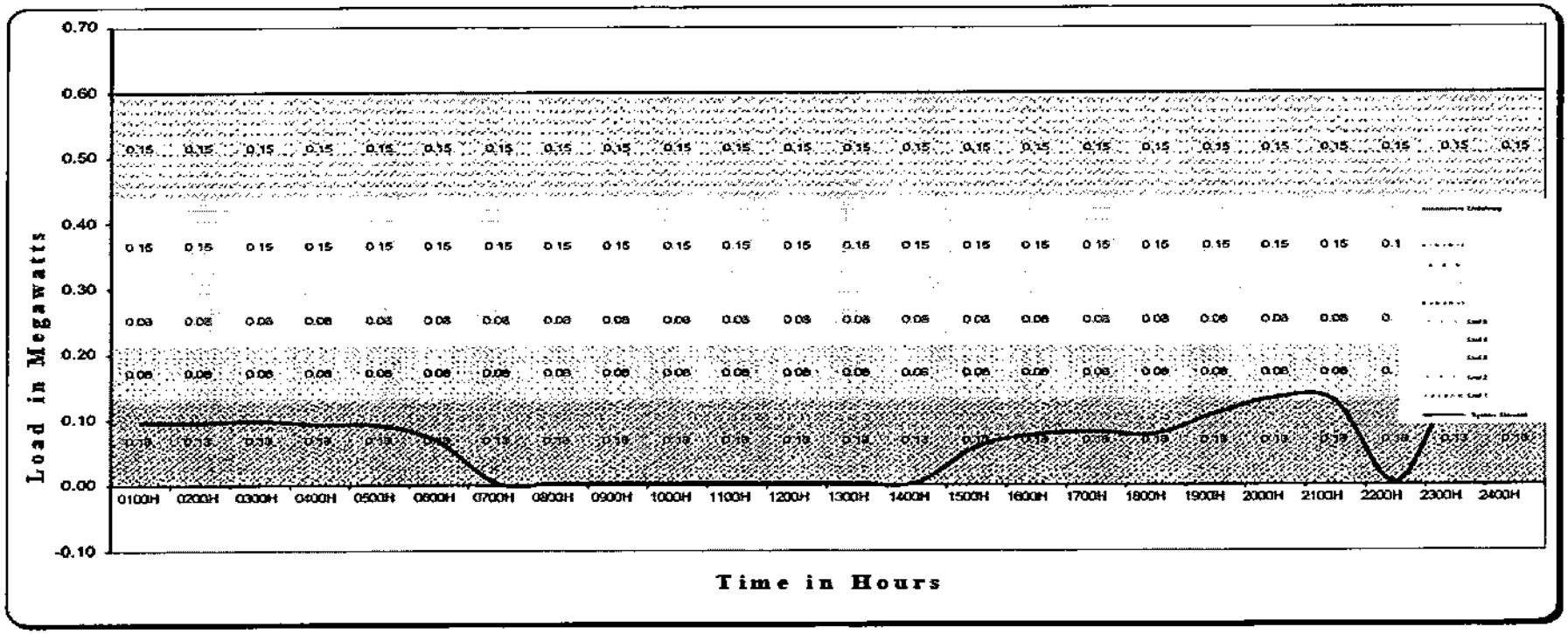


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.085	0.085	0.112	0.083	0.083	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.065	0.065	0.061	0.107	0.094	0.097	0.097	0.092	0.088
RESERVED / (DEFICIENCY)																							
0.505	0.505	0.478	0.507	0.507	0.498	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.542	0.525	0.525	0.529	0.483	0.496	0.493	0.493	0.498	0.502

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
APR 2024

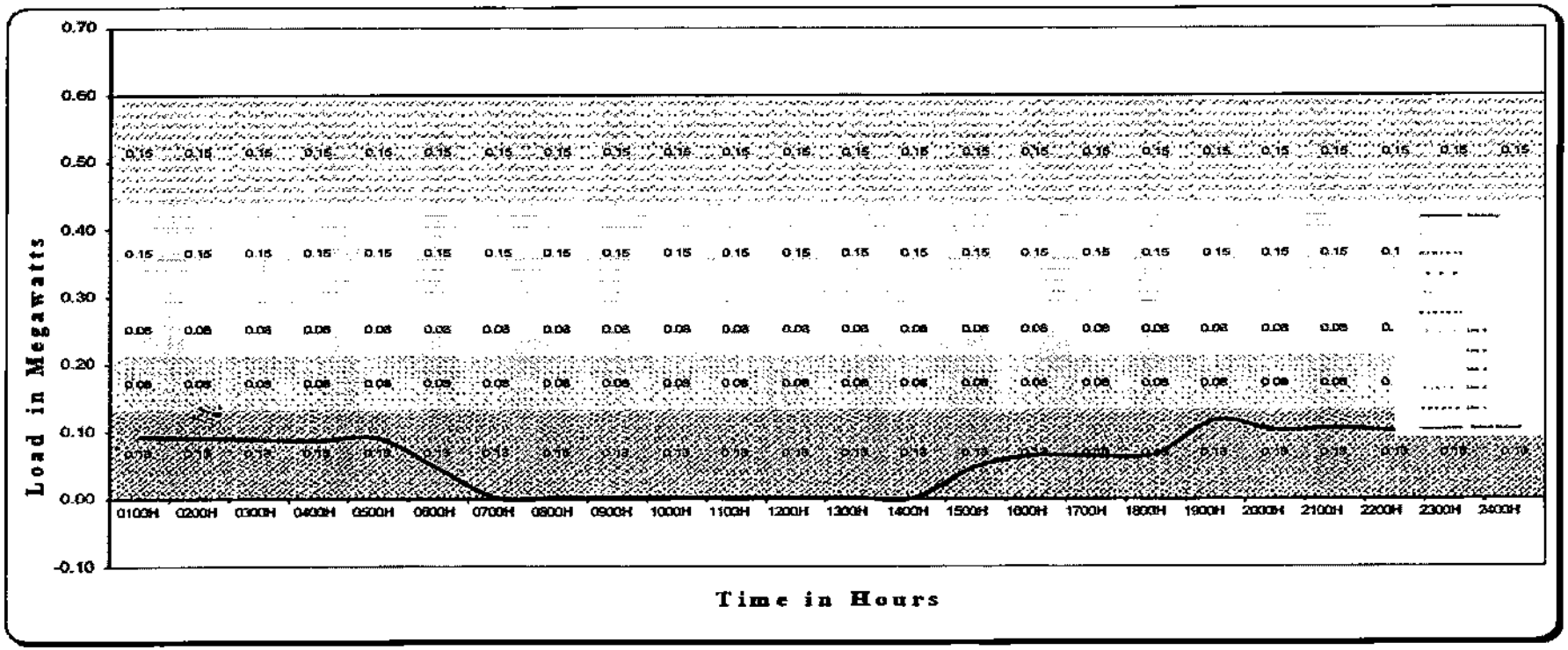


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.094	0.093	0.096	0.096	0.089	0.089	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.078	0.078	0.078	0.106	0.130	0.125	0.130	0.140	0.098
RESERVED / (DEFICIENCY)																							
0.496	0.497	0.494	0.494	0.501	0.501	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.535	0.512	0.512	0.512	0.484	0.460	0.465	0.460	0.450	0.492

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
MAY 2024

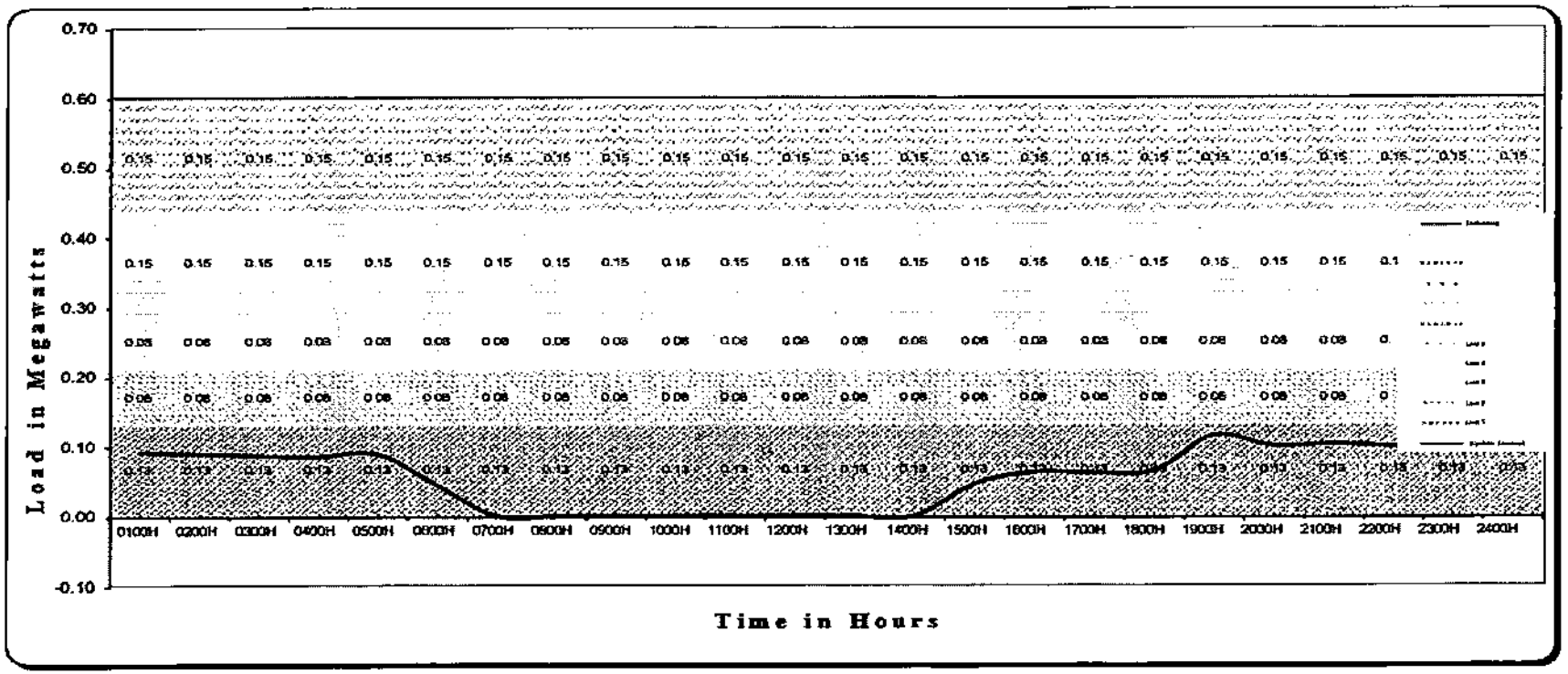


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.090	0.088	0.086	0.088	0.088	0.088	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.062	0.061	0.064	0.114	0.090	0.102	0.093	0.097	0.094
RESERVED / (DEFICIENCY)																							
0.500	0.502	0.504	0.502	0.502	0.502	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.545	0.528	0.529	0.526	0.476	0.500	0.488	0.502	0.493	0.496

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
JUNE 2024

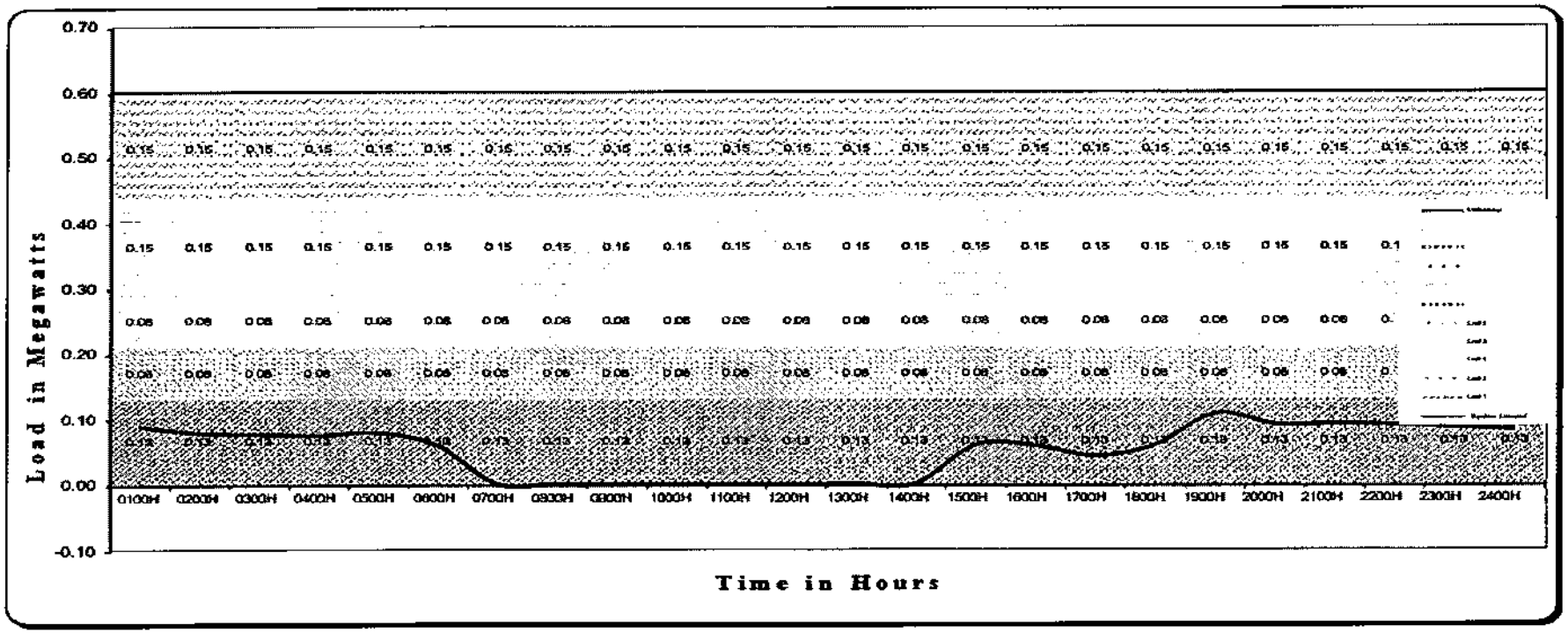


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.090	0.088	0.086	0.086	0.088	0.088	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.052	0.061	0.066	0.114	0.088	0.102	0.098	0.097	0.094
RESERVED / (DEFICIENCY)																							
0.500	0.502	0.504	0.504	0.502	0.502	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.545	0.538	0.529	0.524	0.476	0.502	0.488	0.492	0.493	0.496

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
JULY 2024

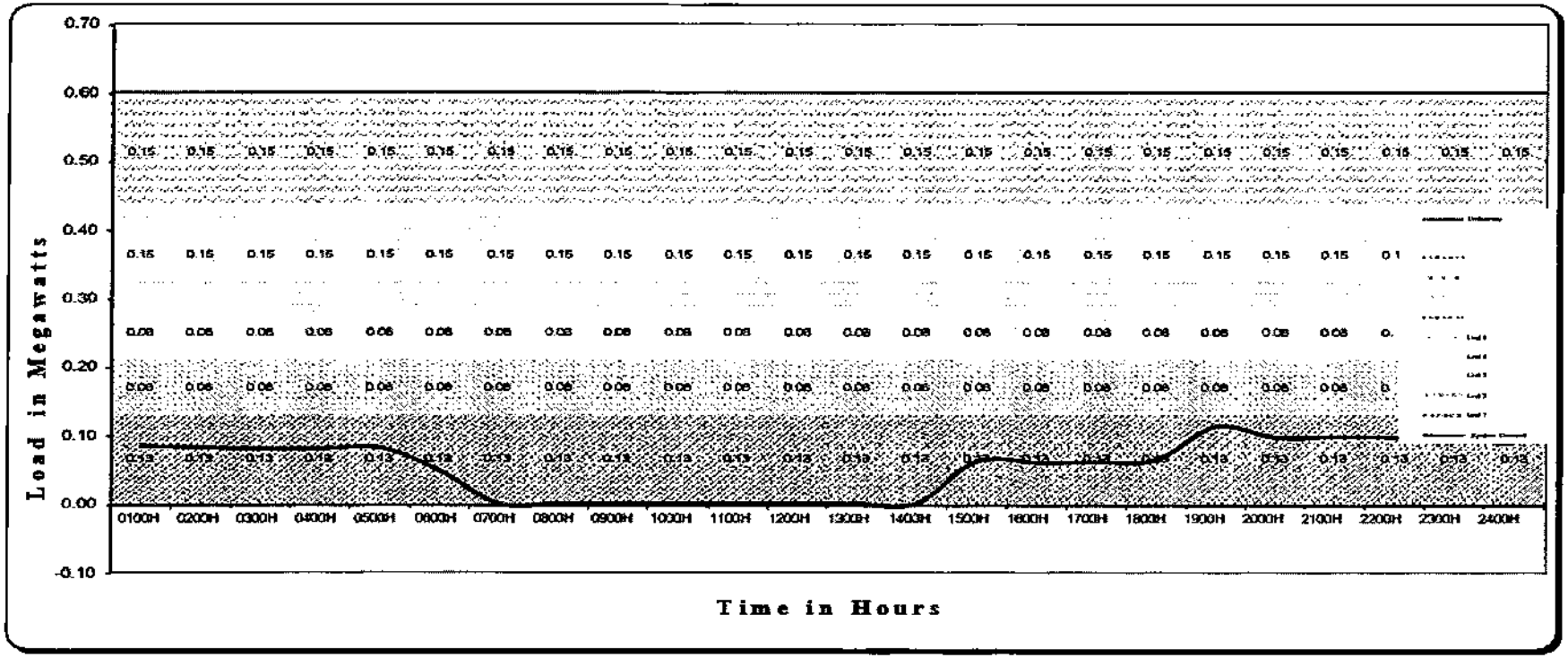


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.089	0.079	0.077	0.079	0.079	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.060	0.043	0.000	0.109	0.092	0.093	0.093	0.097	0.083
RESERVED / (DEFICIENCY)																							
0.501	0.511	0.513	0.511	0.511	0.510	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.530	0.530	0.547	0.590	0.481	0.498	0.497	0.497	0.493	0.507

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
AUGUST 2024

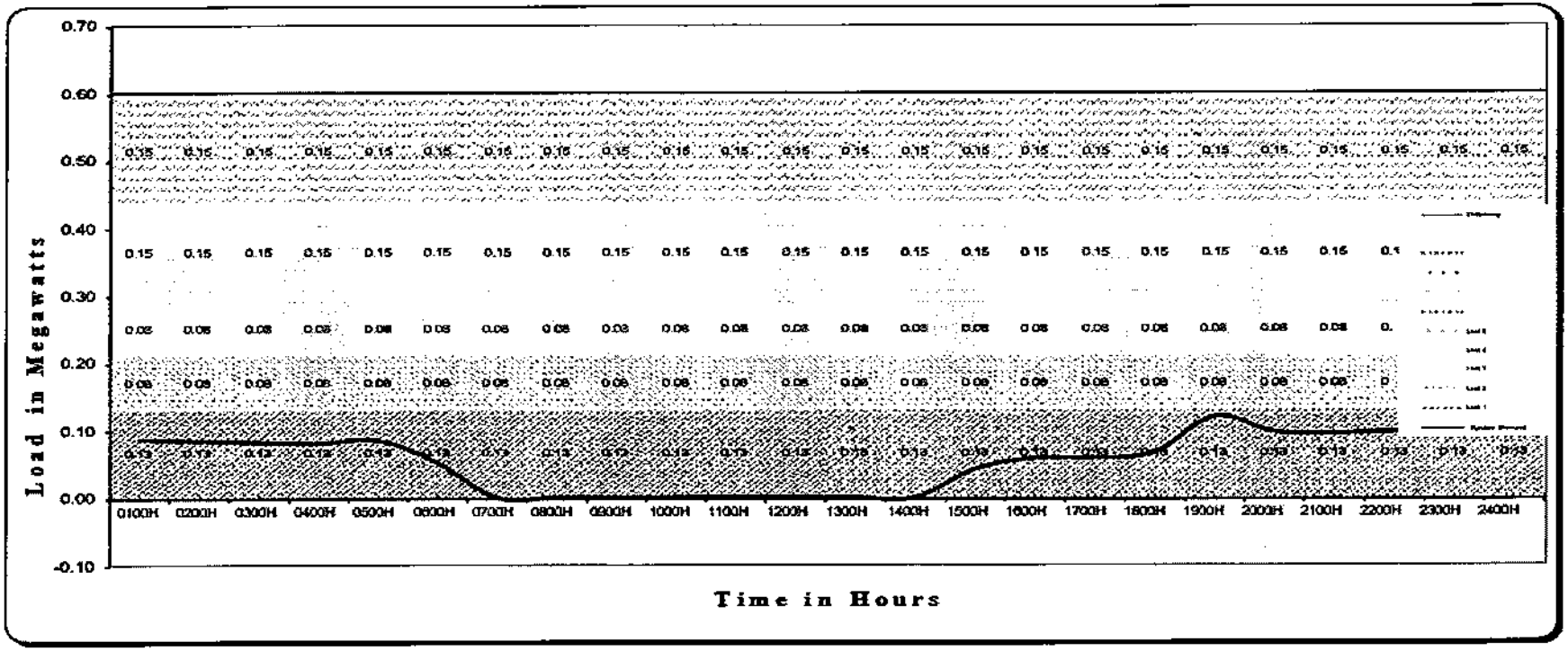


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.085	0.082	0.080	0.080	0.082	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082	0.000	0.081	0.081	0.113	0.097	0.098	0.097	0.093	0.090
RESERVED / (DEFICIENCY)																							
0.505	0.508	0.510	0.510	0.508	0.511	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.508	0.590	0.509	0.509	0.477	0.493	0.492	0.493	0.497	0.501

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
SEPTEMBER 2024

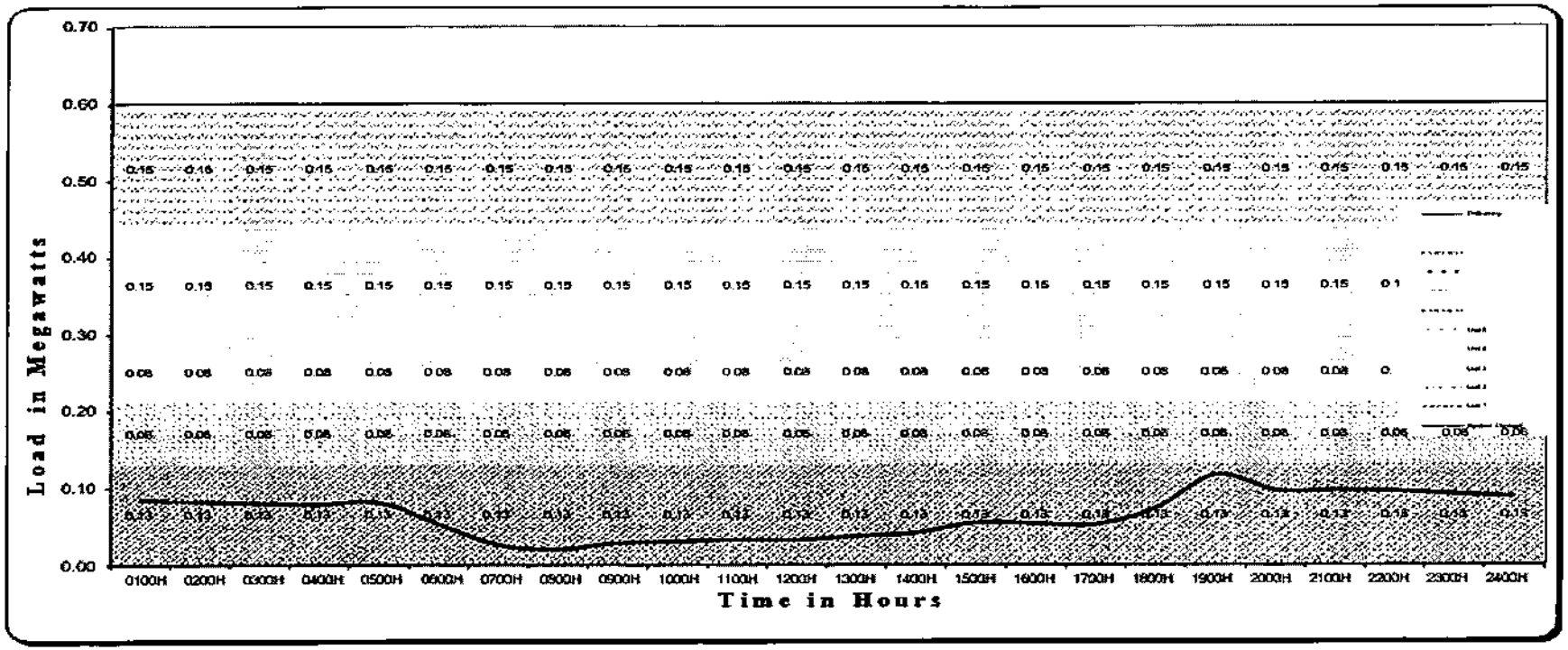


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.086	0.084	0.082	0.080	0.085	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.042	0.058	0.058	0.087	0.120	0.097	0.095	0.097	0.097	0.090
RESERVED / (DEFICIENCY)																							
0.504	0.506	0.508	0.510	0.505	0.498	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.548	0.532	0.532	0.503	0.470	0.493	0.495	0.493	0.493	0.500

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
OCTOBER 2024

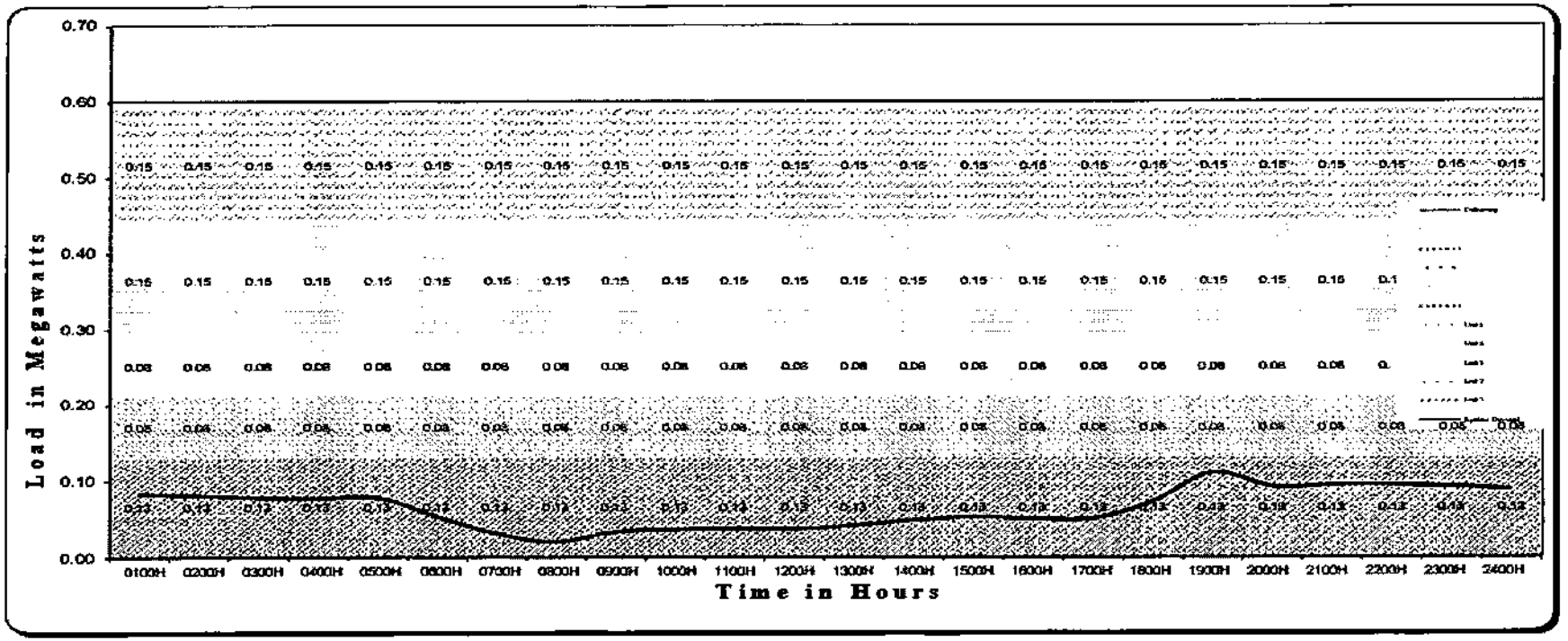


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.083	0.081	0.079	0.077	0.080	0.083	0.026	0.026	0.028	0.030	0.032	0.032	0.037	0.041	0.054	0.053	0.052	0.072	0.115	0.095	0.095	0.094	0.090	0.087
RESERVED / (DEFICIENCY)																							
0.507	0.509	0.511	0.513	0.510	0.507	0.564	0.564	0.562	0.560	0.558	0.558	0.553	0.549	0.536	0.537	0.538	0.518	0.475	0.495	0.495	0.496	0.500	0.503

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
NOVEMBER 2024

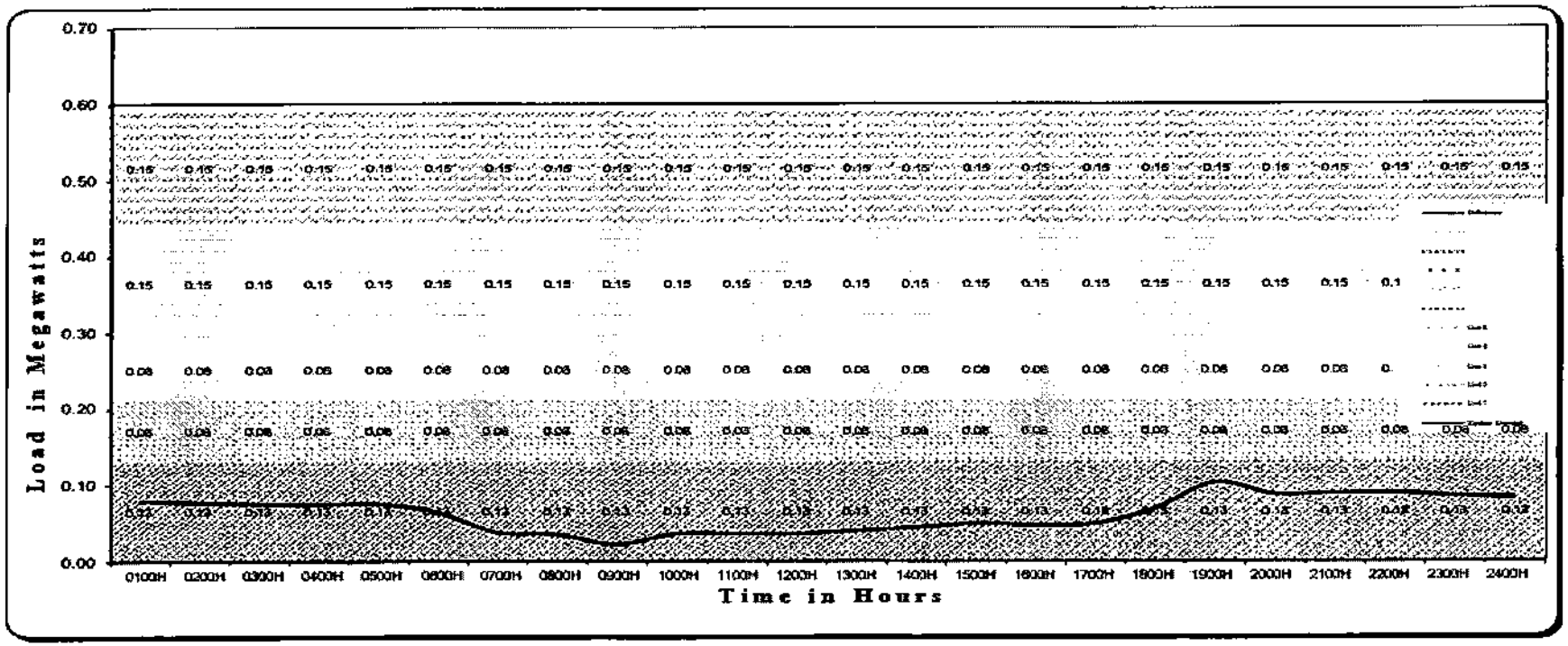


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND																							
0.082	0.080	0.077	0.076	0.077	0.083	0.031	0.020	0.033	0.030	0.037	0.037	0.041	0.040	0.052	0.060	0.050	0.072	0.100	0.097	0.093	0.093	0.091	0.087
RESERVED / (DEFICIENCY)																							
0.508	0.510	0.513	0.514	0.513	0.507	0.559	0.570	0.557	0.560	0.553	0.553	0.549	0.550	0.538	0.530	0.540	0.518	0.491	0.493	0.497	0.497	0.499	0.503

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
MANUK MANGKAW DIESEL POWER PLANT
DECEMBER 2024



	0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
SYSTEM DEMAND	0.079	0.077	0.075	0.074	0.075	0.064	0.038	0.035	0.022	0.036	0.036	0.032	0.040	0.044	0.049	0.047	0.049	0.050	0.103	0.087	0.089	0.089	0.085	0.083
RESERVED / (DEFICIENCY)	0.511	0.513	0.515	0.516	0.515	0.526	0.552	0.555	0.568	0.554	0.554	0.558	0.550	0.546	0.541	0.543	0.541	0.540	0.487	0.503	0.501	0.501	0.505	0.507

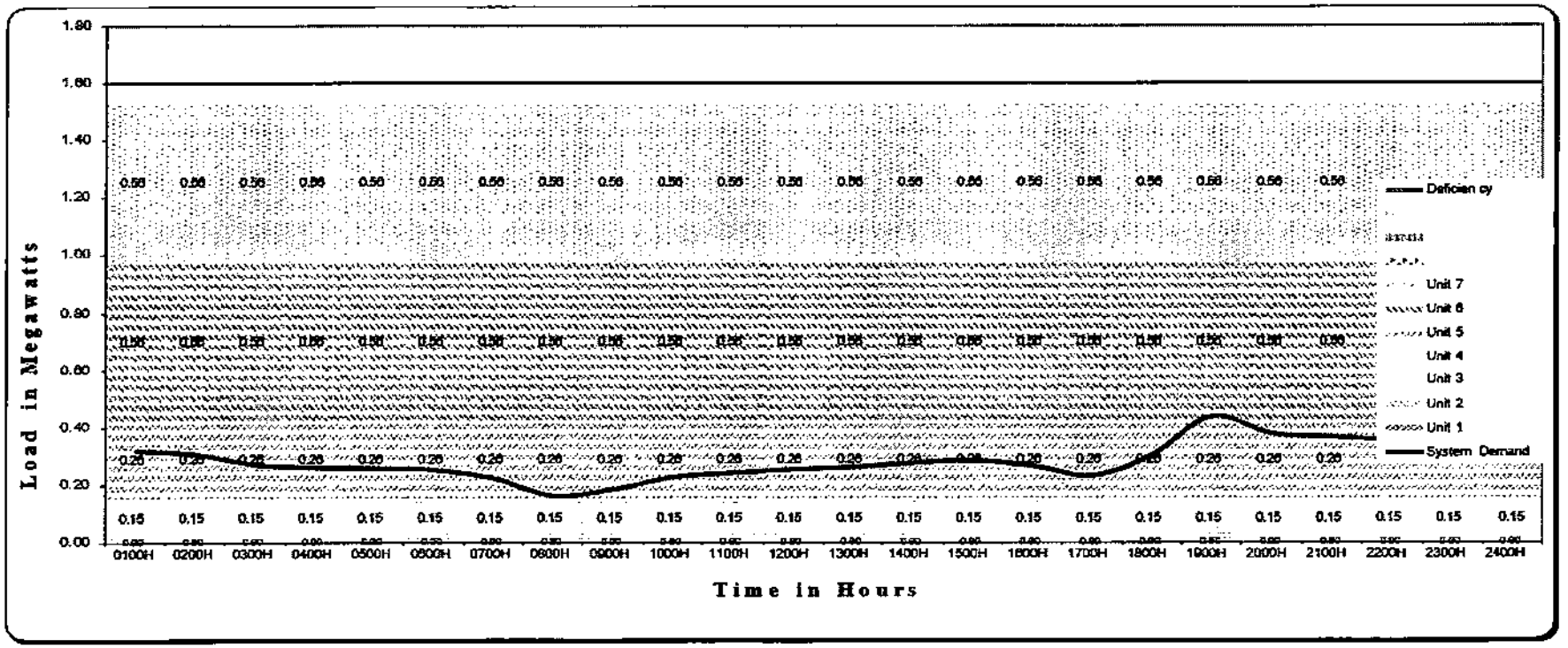
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

Jan. 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530
SYSTEM DEMAND																							
0.318	0.300	0.270	0.260	0.257	0.260	0.221	0.210	0.162	0.224	0.240	0.251	0.260	0.270	0.283	0.285	0.230	0.300	0.437	0.478	0.365	0.354	0.340	0.324
RESERVED / (DEFICIENCY)																							
1.212	1.224	1.260	1.270	1.273	1.270	1.309	1.320	1.368	1.306	1.290	1.279	1.270	1.260	1.247	1.245	1.300	1.230	1.093	1.052	1.165	1.176	1.190	1.206

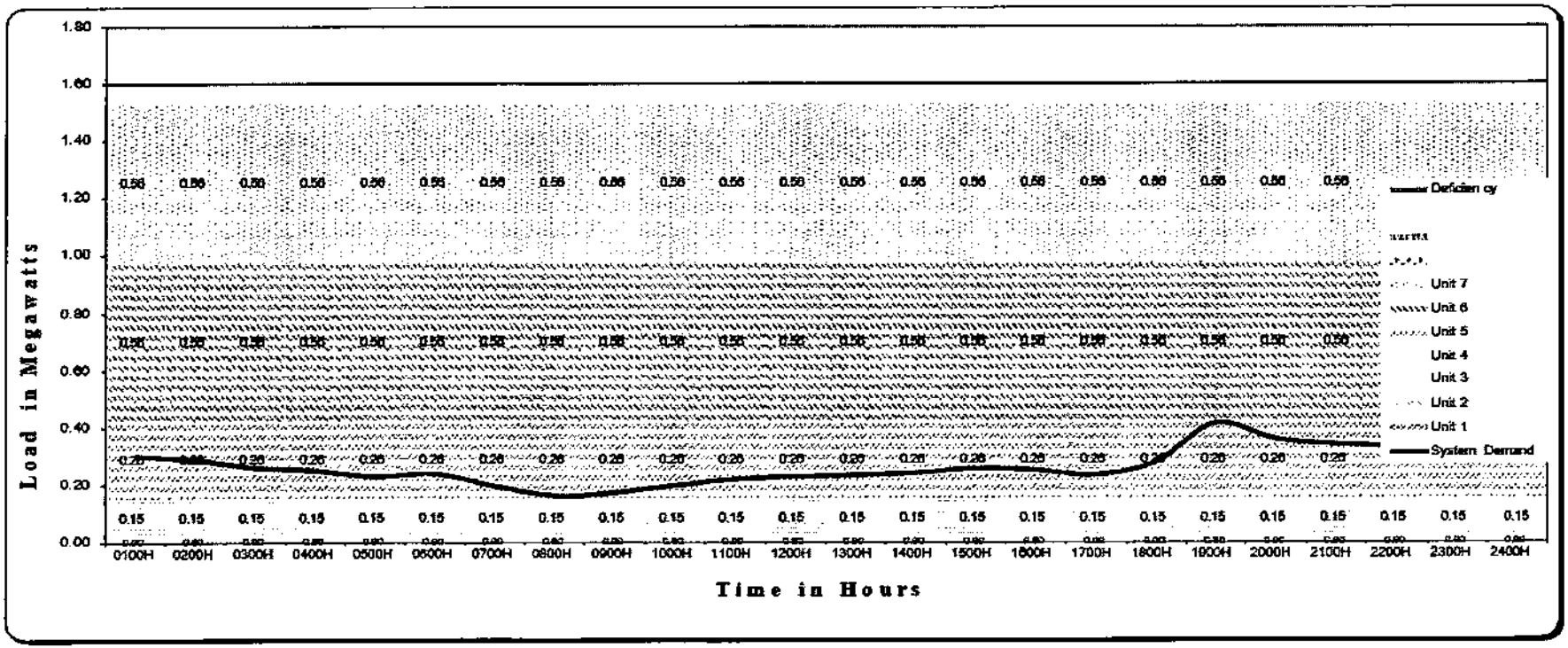
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

Feb. 25, 2024



0100H	0300H	0500H	0700H	0900H	1100H	1300H	1500H	1700H	1900H	2100H	2300H
TOTAL CAPABILITY											
1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530	1.530
SYSTEM DEMAND											
0.302	0.261	0.230	0.196	0.173	0.219	0.234	0.255	0.235	0.413	0.340	0.321
RESERVED / (DEFICIENCY)											
1.228	1.269	1.300	1.334	1.357	1.311	1.296	1.275	1.295	1.117	1.190	1.209

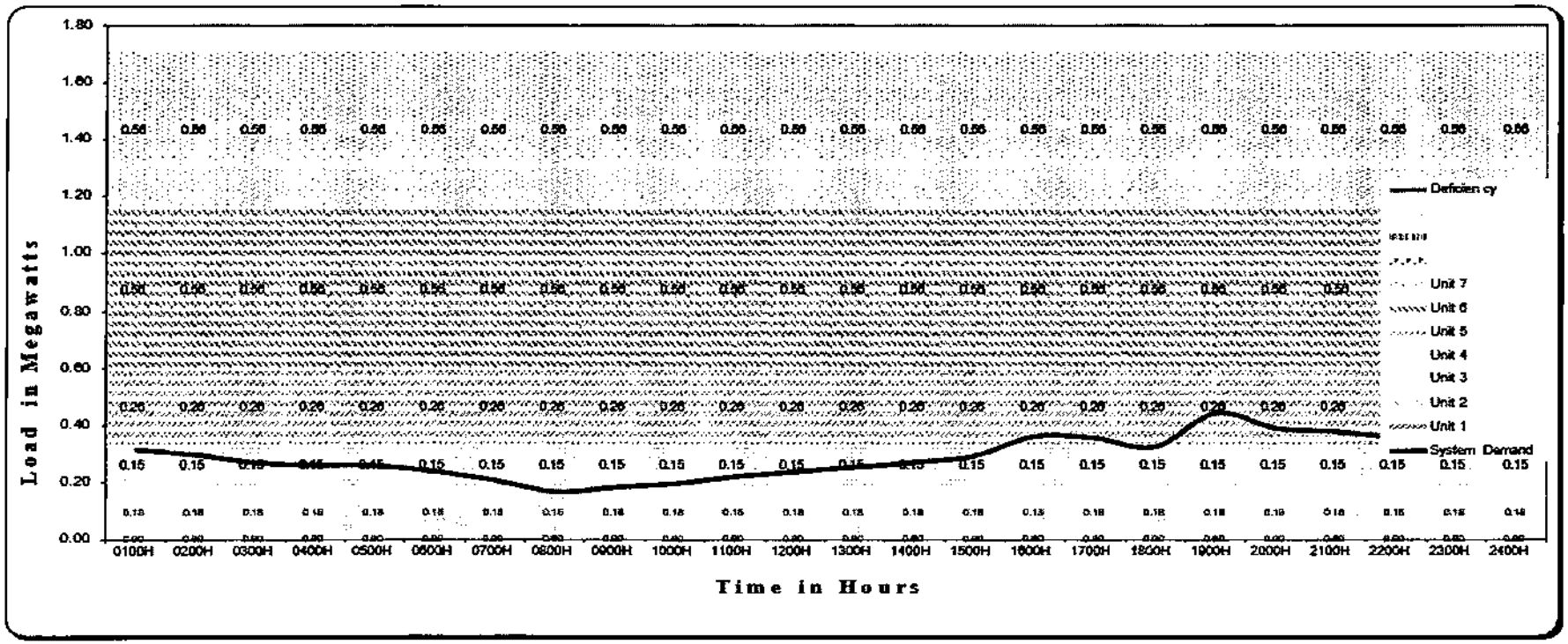
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

March 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710
SYSTEM DEMAND																							
0.311	0.266	0.266	0.266	0.266	0.204	0.204	0.179	0.179	0.216	0.216	0.250	0.250	0.290	0.290	0.352	0.352	0.440	0.440	0.375	0.375	0.340	0.340	0.322
RESERVED / (DEFICIENCY)																							
1.399	1.444	1.444	1.444	1.454	1.506	1.506	1.531	1.531	1.494	1.494	1.460	1.460	1.420	1.420	1.358	1.358	1.270	1.270	1.335	1.335	1.370	1.370	1.388

National Power Corporation

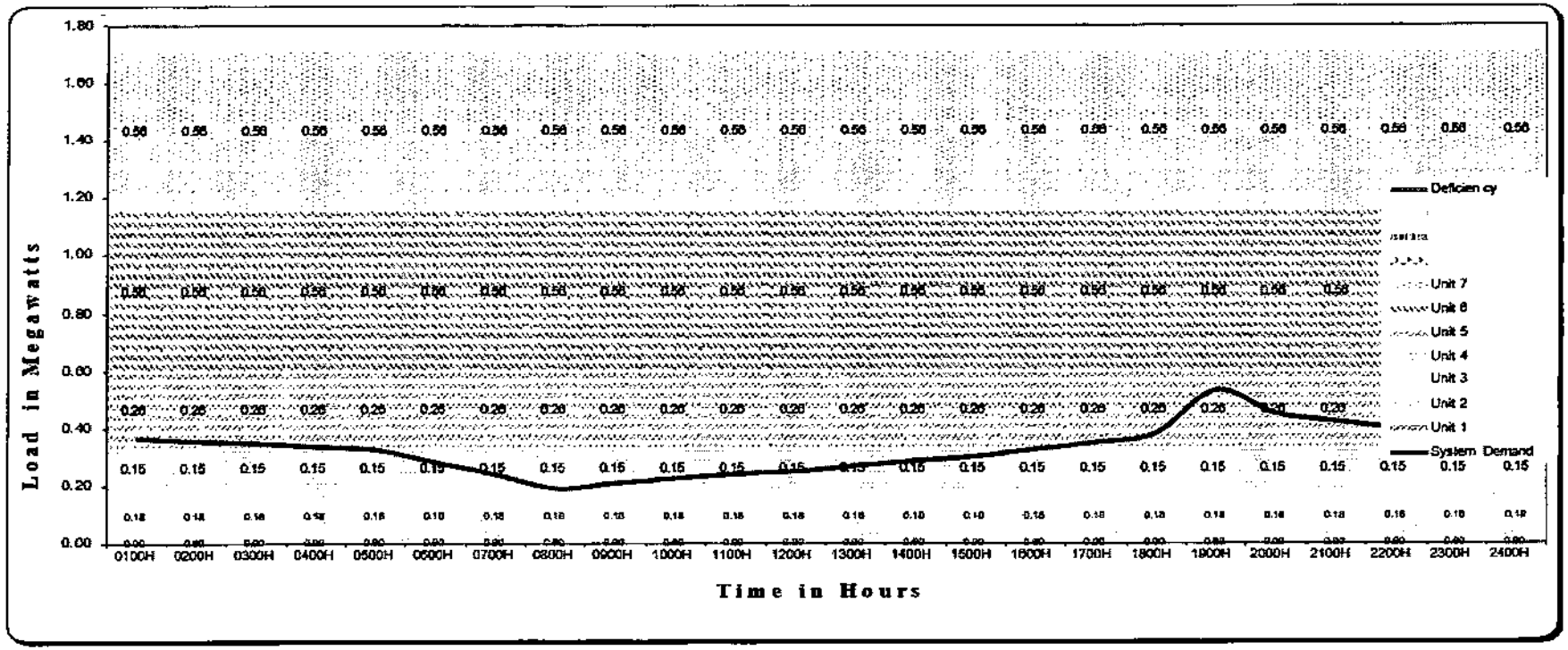
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

April 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710	1.710
SYSTEM DEMAND																							
0.365	0.365	0.348	0.336	0.324	0.312	0.238	0.226	0.208	0.220	0.240	0.253	0.267	0.280	0.300	0.313	0.348	0.361	0.530	0.543	0.422	0.435	0.388	0.401
RESERVED / (DEFICIENCY)																							
1.345	1.345	1.362	1.374	1.386	1.398	1.472	1.484	1.502	1.490	1.470	1.457	1.443	1.430	1.410	1.397	1.362	1.349	1.180	1.167	1.288	1.275	1.324	1.309

National Power Corporation

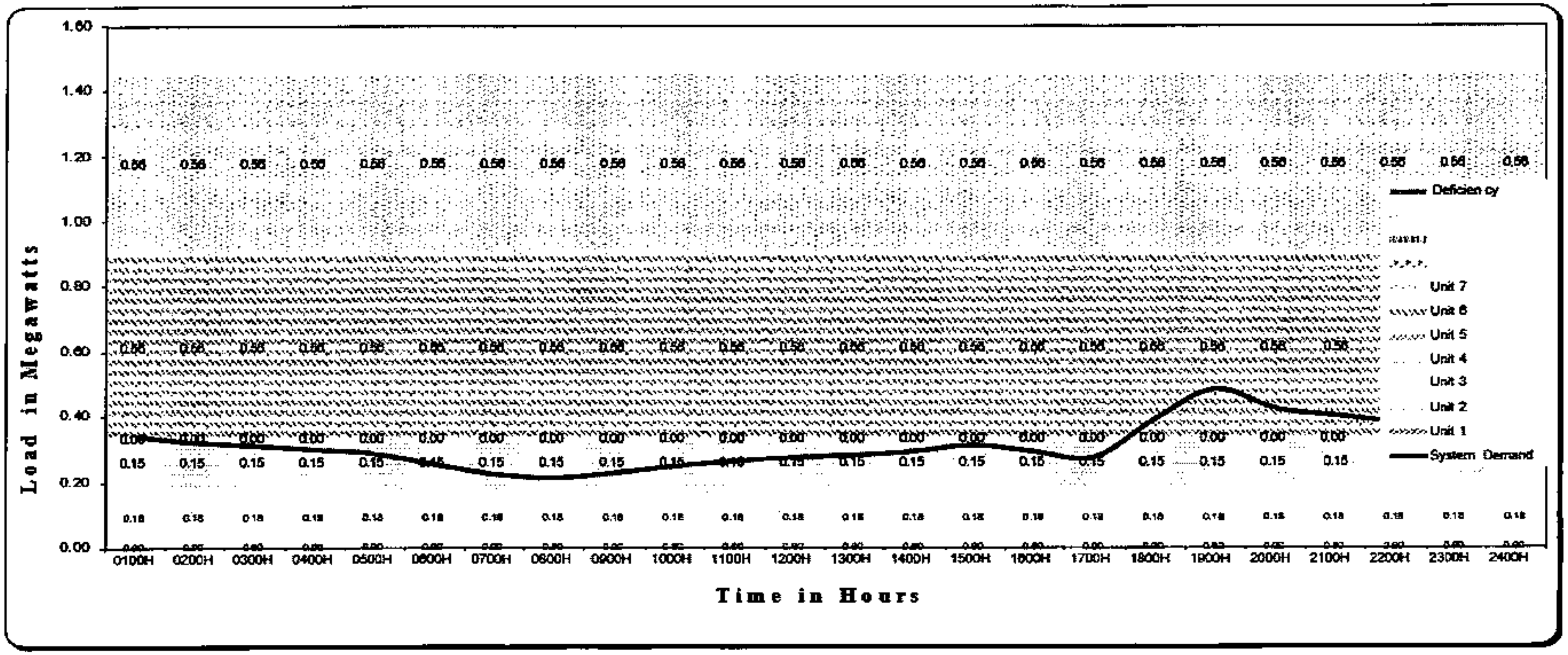
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

May 25, 2024



0100H	0200H	0300H	0400H	0500H	[illegible]	0700H	[illegible]	0900H	[illegible]	1100H	1200H	1300H	[illegible]	1500H	[illegible]	1700H	[illegible]	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	[illegible]	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	1.450	[illegible]
SYSTEM DEMAND																							
0.339	[illegible]	0.310	[illegible]	0.285	0.262	0.222	0.220	0.226	0.246	0.262	[illegible]	0.280	[illegible]	0.311	[illegible]	0.273	0.390	0.484	0.425	0.402	[illegible]	0.370	0.346
RESERVED / (DEFICIENCY)																							
1.111	[illegible]	1.140	[illegible]	1.165	[illegible]	1.228	1.230	1.224	1.204	1.188	[illegible]	1.170	[illegible]	1.139	[illegible]	1.177	1.060	0.966	1.025	1.048	[illegible]	1.080	1.104

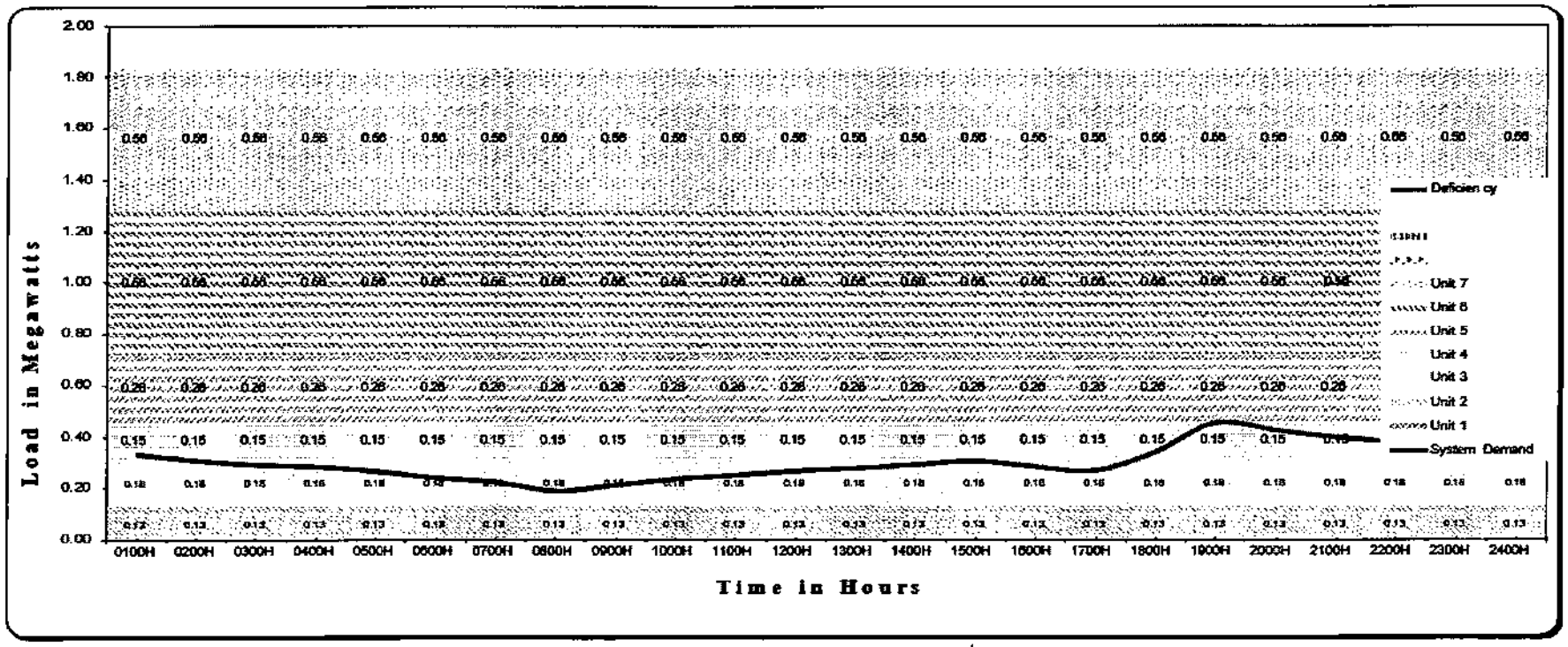
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

June 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835
SYSTEM DEMAND																							
0.331	0.290	0.260	0.224	0.212	0.250	0.277	0.304	0.268	0.450	0.394	0.352												
RESERVED / (DEFICIENCY)																							
1.504	1.545	1.570	1.611	1.623	1.585	1.558	1.531	1.567	1.385	1.441	1.483												

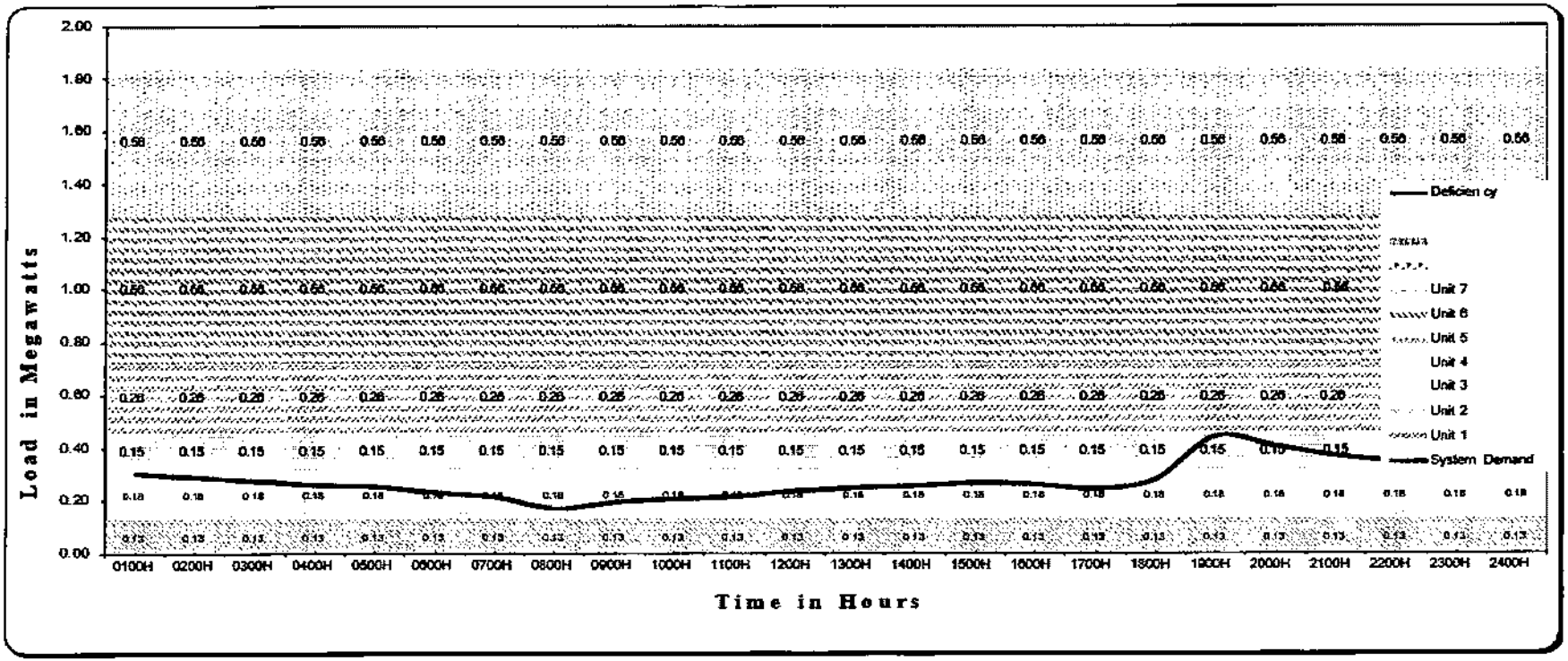
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

July 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835
SYSTEM DEMAND																							
0.303	0.289	0.275	0.264	0.253	0.233	0.214	0.203	0.193	0.204	0.215	0.231	0.247	0.256	0.265	0.255	0.244	0.272	0.440	0.404	0.368	0.346	0.324	0.310
RESERVED / (DEFICIENCY)																							
1.532	1.546	1.560	1.571	1.582	1.602	1.621	1.632	1.642	1.631	1.620	1.604	1.588	1.579	1.570	1.580	1.591	1.563	1.395	1.431	1.467	1.489	1.511	1.525

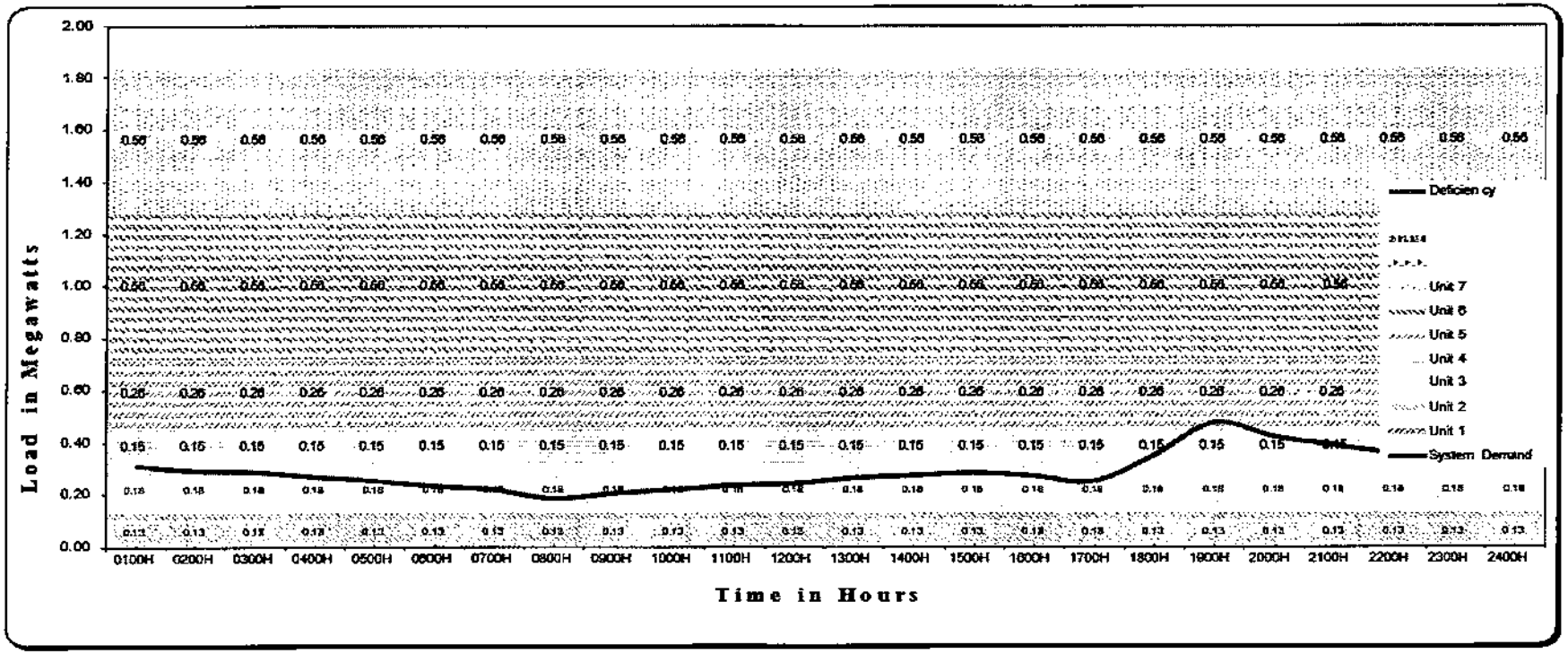
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

August 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835	1.835
SYSTEM DEMAND																							
0.312	0.299	0.288	0.269	0.254	0.244	0.219	0.196	0.207	0.220	0.237	0.249	0.265	0.272	0.285	0.272	0.252	0.360	0.476	0.422	0.389	0.367	0.338	0.324
RESERVED / (DEFICIENCY)																							
1.523	1.536	1.547	1.566	1.581	1.591	1.616	1.639	1.628	1.615	1.598	1.586	1.570	1.563	1.550	1.563	1.583	1.475	1.359	1.413	1.446	1.468	1.497	1.511

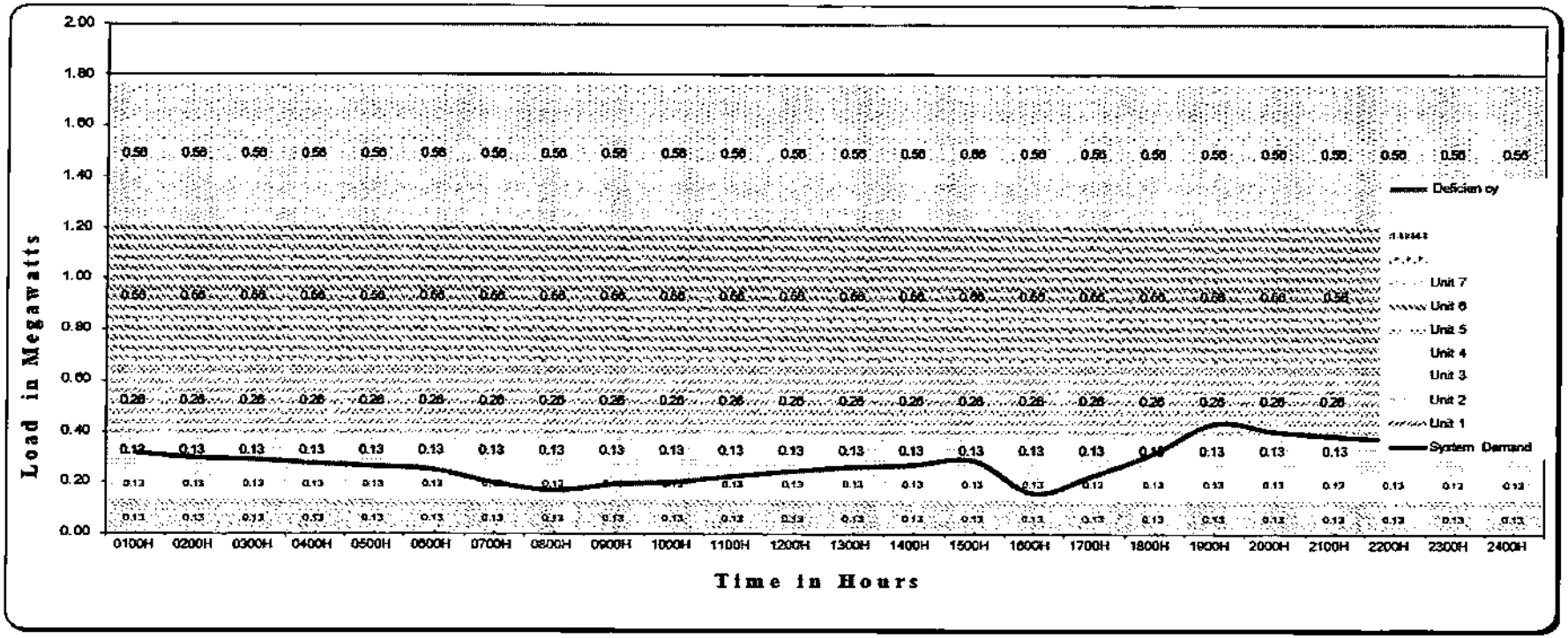
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

Sept. 25, 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765
SYSTEM DEMAND																							
0.316	0.296	0.290	0.279	0.265	0.250	0.200	0.170	0.194	0.200	0.225	0.240	0.261	0.270	0.288	0.300	0.230	0.317	0.433	0.402	0.384	0.370	0.358	0.340
RESERVED / (DEFICIENCY)																							
1.449	1.469	1.475	1.486	1.500	1.515	1.565	1.595	1.571	1.565	1.540	1.525	1.504	1.495	1.477	1.465	1.535	1.448	1.332	1.363	1.381	1.395	1.407	1.425

National Power Corporation

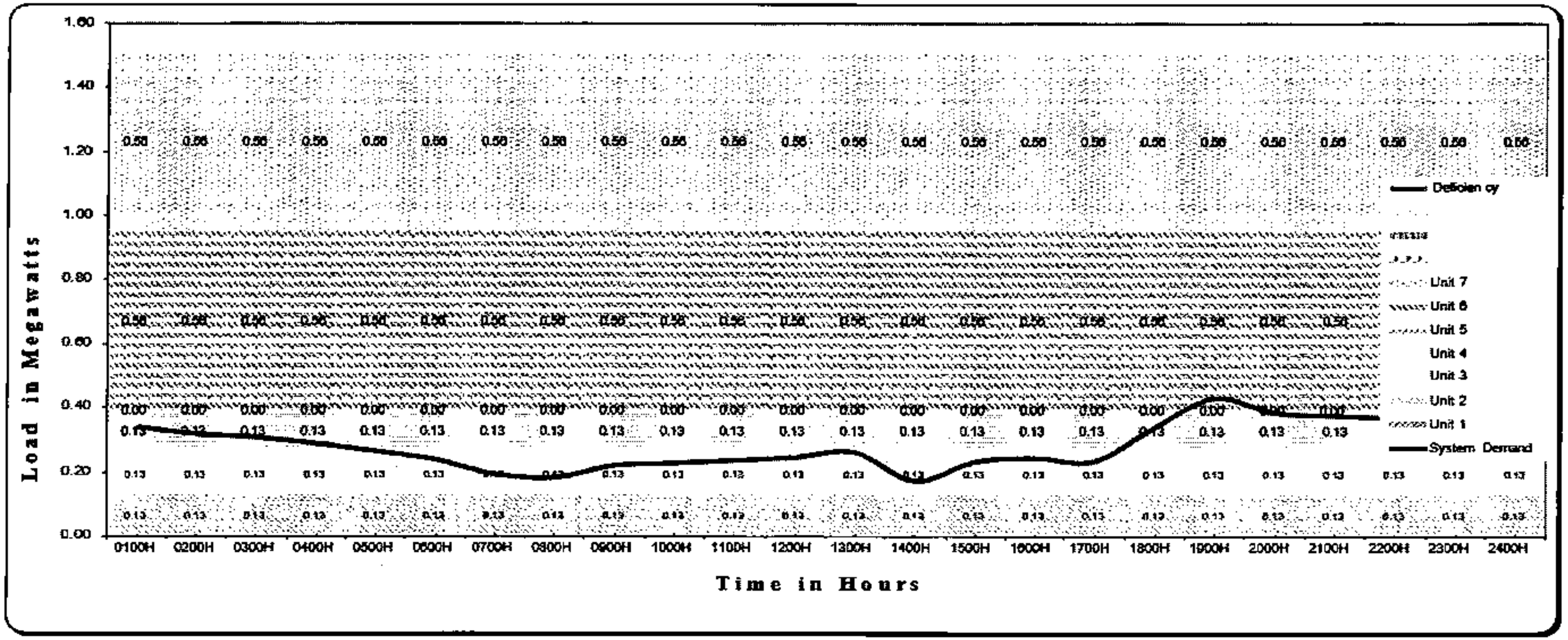
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

Oct. 25, 2024



0100H	[illegible]	0300H	[illegible]	0500H	[illegible]	0700H	[illegible]	0900H	[illegible]	1100H	[illegible]	1300H	[illegible]	1500H	[illegible]	1700H	[illegible]	1900H	[illegible]	2100H	[illegible]	2300H	[illegible]
TOTAL CAPABILITY																							
1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]	1.505	[illegible]
SYSTEM DEMAND																							
0.340	[illegible]	0.307	[illegible]	0.263	[illegible]	0.191	[illegible]	0.218	[illegible]	0.235	[illegible]	0.260	[illegible]	0.230	[illegible]	0.232	[illegible]	0.430	[illegible]	0.375	[illegible]	0.360	[illegible]
RESERVED / (DEFICIENCY)																							
1.165	[illegible]	1.198	[illegible]	1.242	[illegible]	1.314	[illegible]	1.287	[illegible]	1.270	[illegible]	1.245	[illegible]	1.275	[illegible]	1.273	[illegible]	1.075	[illegible]	1.130	[illegible]	1.145	[illegible]

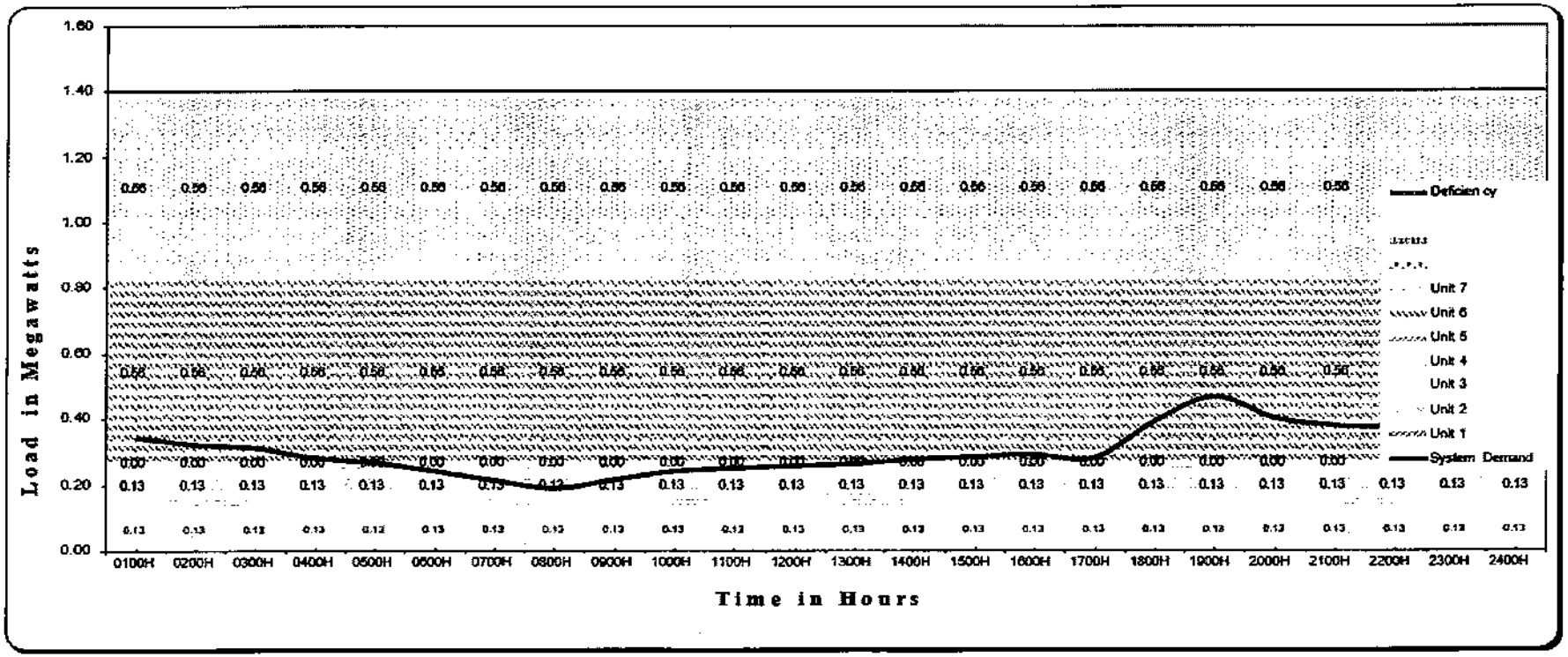
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

Nov. 25, 2024



0100H	0300H	0500H	0700H	0900H	1100H	1300H	1500H	1700H	1900H	2100H	2300H
TOTAL CAPABILITY											
1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380
SYSTEM DEMAND											
0.342	0.310	0.266	0.212	0.215	0.249	0.283	0.284	0.280	0.465	0.377	0.363
RESERVED / (DEFICIENCY)											
1.038	1.070	1.114	1.168	1.165	1.131	1.117	1.096	1.100	0.915	1.003	1.017

National Power Corporation

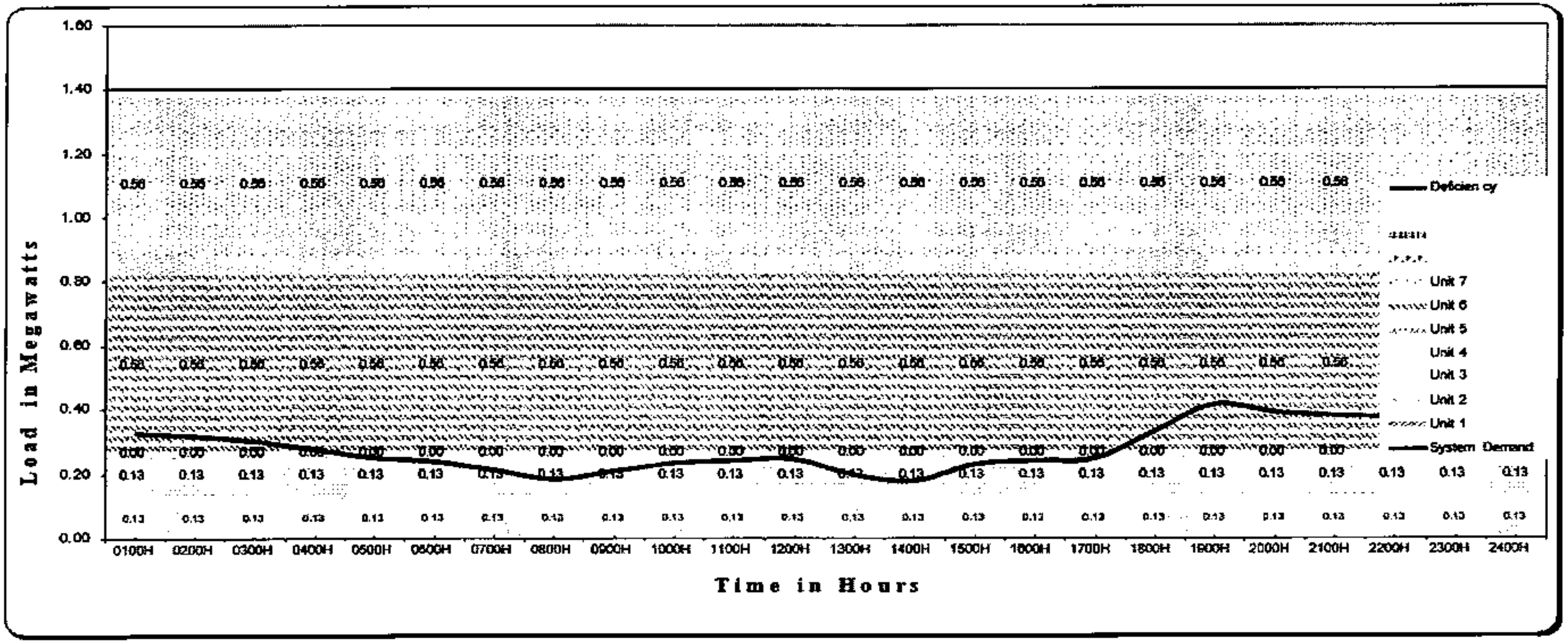
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

WEST SIMUNUL DPP

Dec. 25, 2024

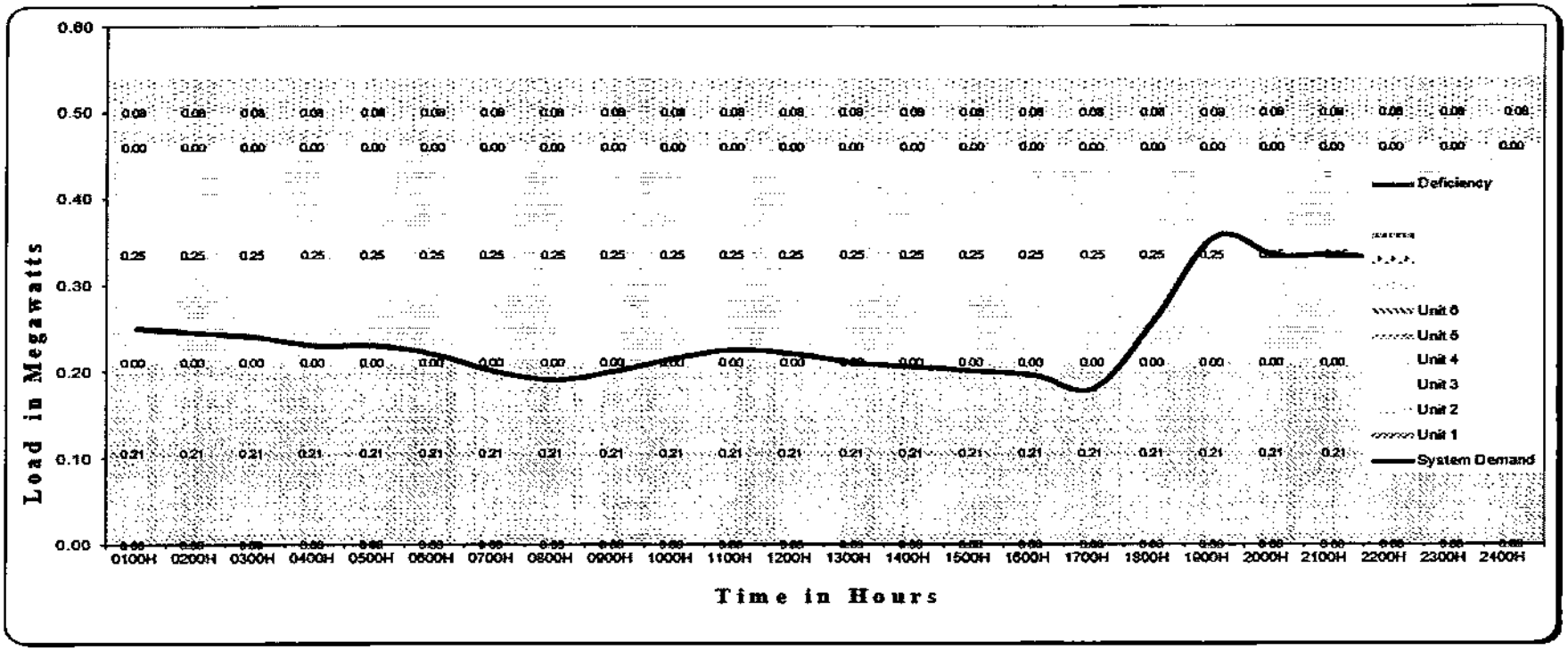


0100H	[illegible]	0300H	[illegible]	0500H	[illegible]	0700H	[illegible]	0900H	1000H	1100H	[illegible]	1300H	[illegible]	1500H	[illegible]	1700H	[illegible]	1900H	2000H	2100H	2200H	2300H	[illegible]
TOTAL CAPABILITY																							
1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	1.380	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	[illegible]	1.380	1.380	1.380	[illegible]	1.380	[illegible]
SYSTEM DEMAND																							
0.325	[illegible]	0.300	[illegible]	0.248	[illegible]	0.210	[illegible]	0.206	0.230	0.239	[illegible]	0.194	[illegible]	0.226	[illegible]	0.245	0.330	0.415	0.390	0.380	0.372	0.358	[illegible]
RESERVED / (DEFICIENCY)																							
1.055	[illegible]	1.080	[illegible]	1.132	[illegible]	1.170	[illegible]	1.174	1.150	1.141	[illegible]	1.186	[illegible]	1.154	[illegible]	1.135	1.050	0.965	0.990	1.000	1.008	1.022	[illegible]

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
January 2024

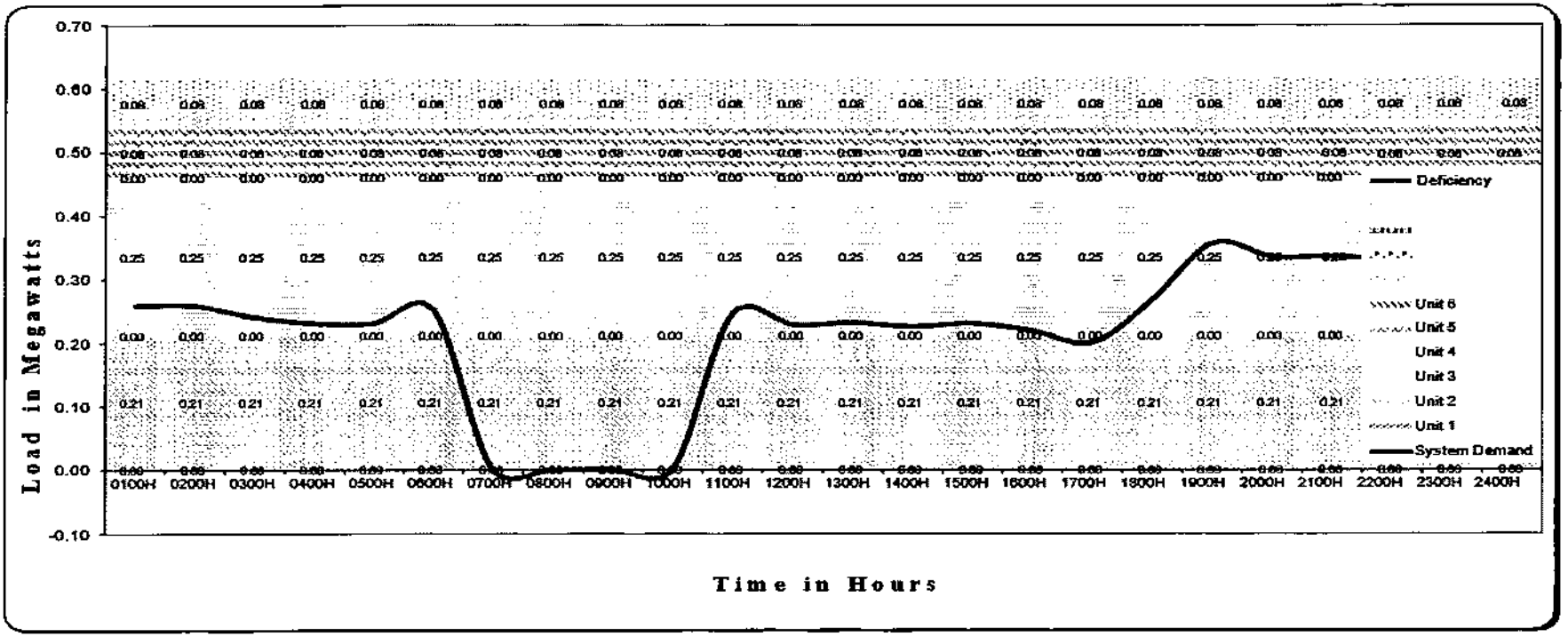


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460
SYSTEM DEMAND																							
0.250	0.230	0.240	0.230	0.230	0.220	0.200	0.200	0.200	0.215	0.225	0.220	0.210	0.205	0.200	0.190	0.180	0.280	0.356	0.334	0.335	0.324	0.280	0.280
RESERVED / (DEFICIENCY)																							
0.210	0.230	0.220	0.230	0.230	0.240	0.260	0.260	0.260	0.245	0.235	0.240	0.250	0.255	0.260	0.270	0.280	0.180	0.104	0.126	0.125	0.136	0.180	0.180

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
FEBRUARY 2024

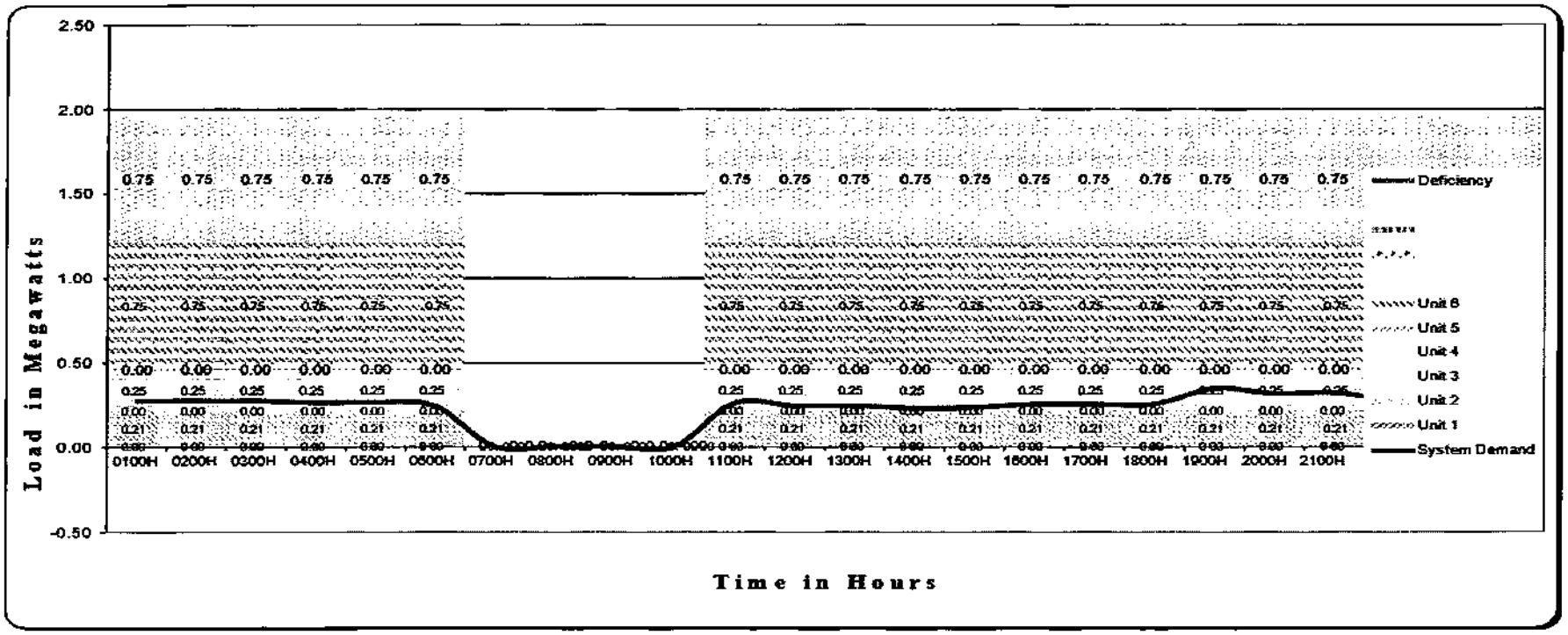


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535
SYSTEM DEMAND																							
0.258	0.258	0.240	0.230	0.230	0.262	0.000	0.000	0.000	0.000	0.246	0.228	0.231	0.235	0.230	0.231	0.200	0.268	0.358	0.334	0.335	0.324	0.280	0.260
RESERVED / (DEFICIENCY)																							
0.277	0.277	0.295	0.305	0.305	0.273	0.535	0.535	0.535	0.535	0.289	0.307	0.304	0.300	0.305	0.304	0.335	0.267	0.179	0.201	0.200	0.211	0.255	0.276

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
March 2024

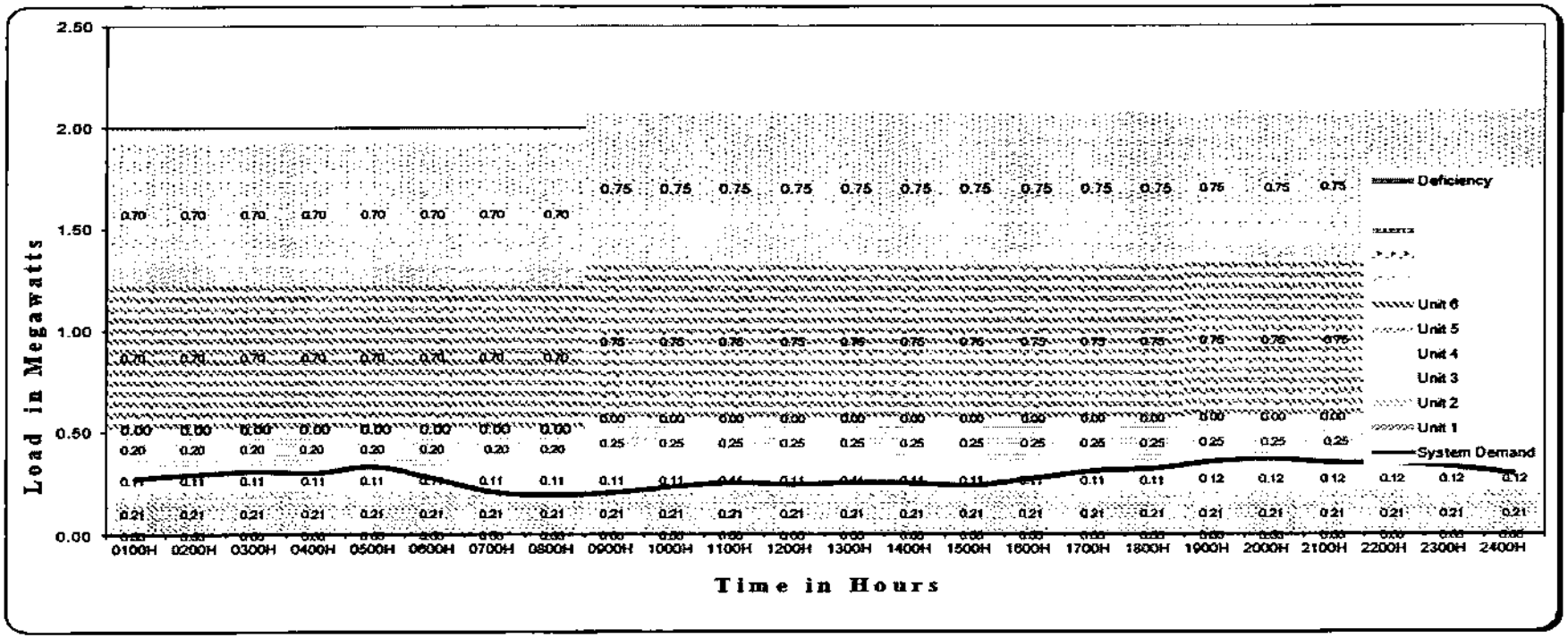


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.210	1.210	1.210	1.210	1.210	1.210	0.000	0.000	0.000	0.000	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210
SYSTEM DEMAND																							
0.270	0.270	0.270	0.260	0.260	0.240	0.000	0.000	0.000	0.000	0.256	0.250	0.240	0.220	0.230	0.250	0.250	0.260	0.342	0.317	0.317	0.266	0.260	0.260
RESERVED / (DEFICIENCY)																							
0.940	0.940	0.940	0.950	0.950	0.970	0.000	0.000	0.000	0.000	0.954	0.960	0.970	0.990	0.980	0.960	0.960	0.950	0.868	0.893	0.893	0.944	0.950	0.950

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
April 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND																							
0.275	0.267	0.310	0.302	0.334	0.327	0.210	0.197	0.209	0.207	0.256	0.253	0.256	0.259	0.243	0.277	0.312	0.324	0.359	0.370	0.352	0.340	0.330	0.298
RESERVED / (DEFICIENCY)																							
0.945	0.953	0.910	0.918	0.886	0.893	1.010	1.023	1.111	1.113	1.064	1.067	1.064	1.061	1.077	1.043	1.008	0.996	0.971	0.960	0.978	0.990	1.000	1.032

National Power Corporation

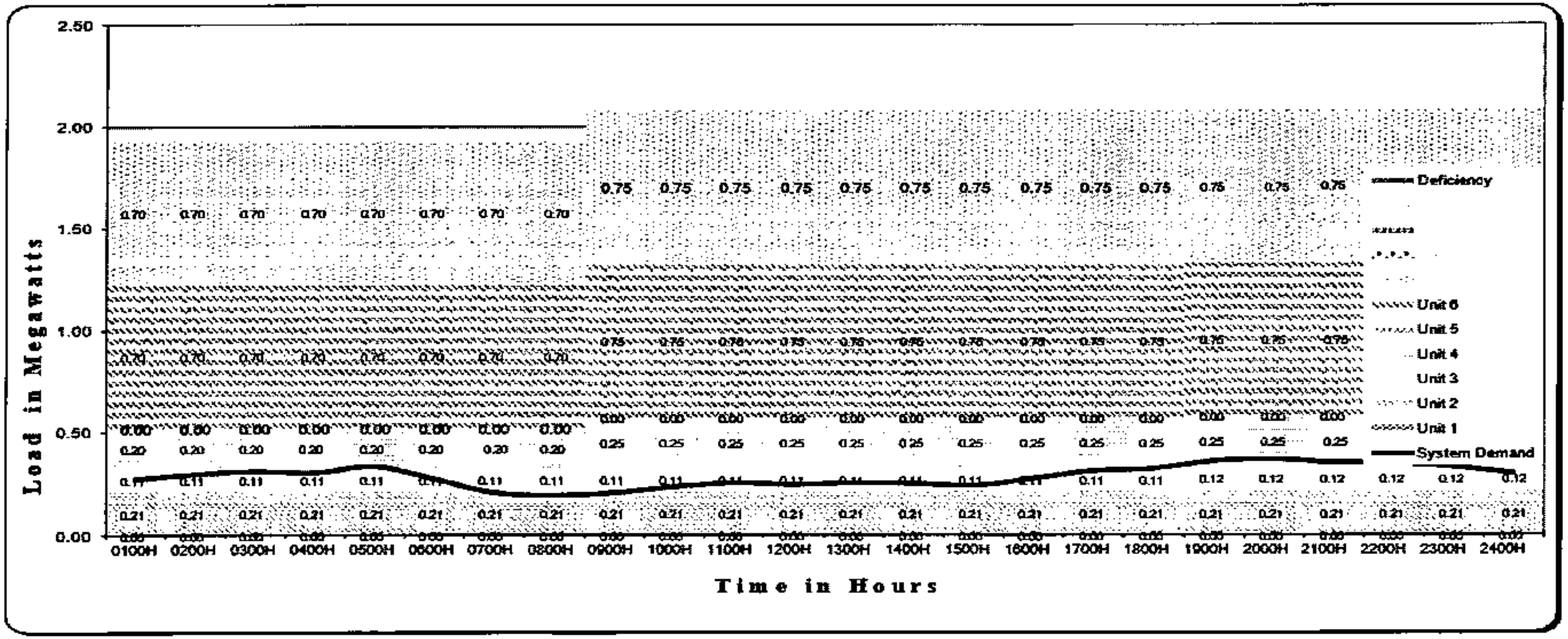
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

TANDUBAS DPP

May 2024

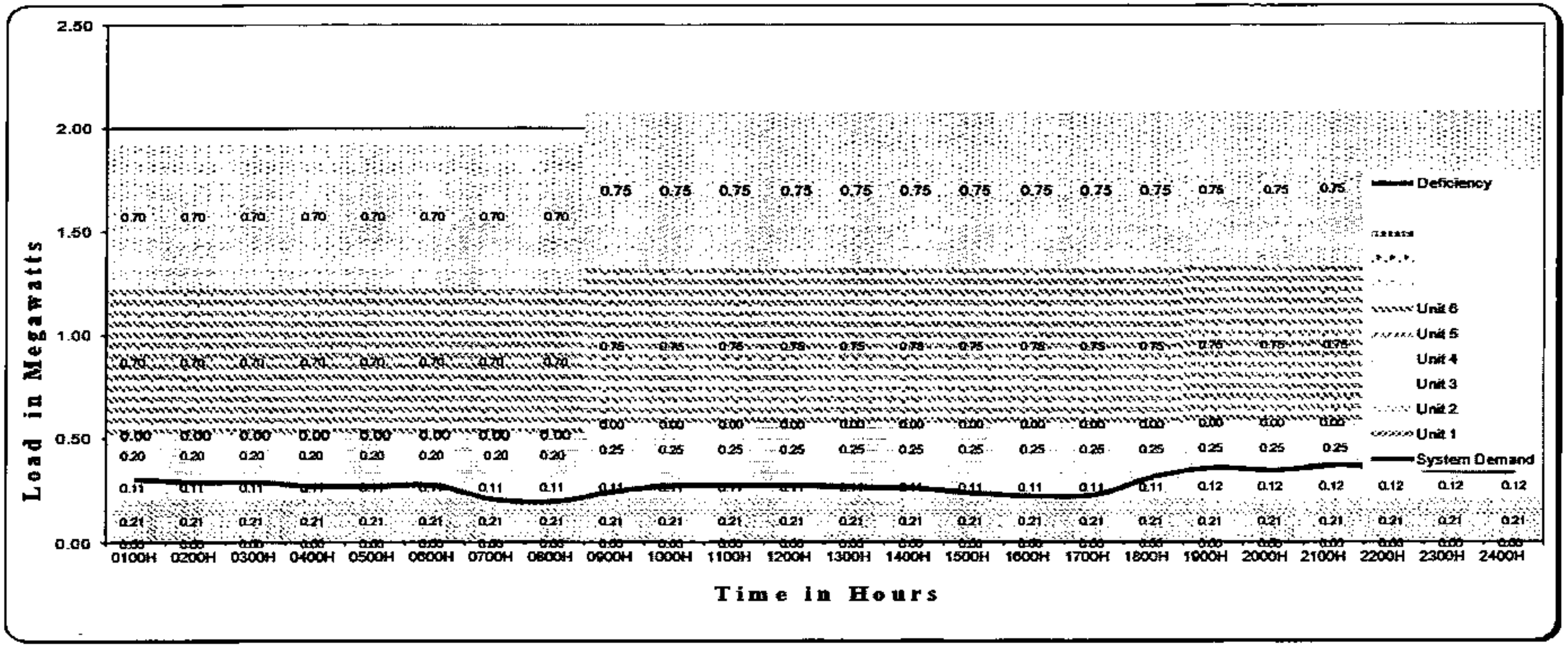


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	[illegible]	1.320	[illegible]	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND																							
0.275	0.297	0.310	0.304	0.334	0.275	0.210	[illegible]	0.209	0.222	0.256	[illegible]	0.256	0.253	0.243	0.277	0.312	0.324	0.359	0.366	0.352	[illegible]	0.330	0.298
RESERVED / (DEFICIENCY)																							
0.945	0.923	0.910	0.916	0.886	0.945	1.010	1.023	1.111	[illegible]	1.064	1.072	1.064	1.067	1.077	1.043	1.008	0.996	0.971	0.964	0.978	0.980	1.000	1.032

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
JUNE 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	[illegible]	1.320	1.320	1.320	1.320	1.320	[illegible]	1.320	1.320	1.330	1.330	1.330	[illegible]	1.330	[illegible]
SYSTEM DEMAND																							
0.302	[illegible]	0.287	[illegible]	0.268	0.272	0.205	[illegible]	0.243	[illegible]	0.272	[illegible]	0.265	[illegible]	0.236	0.220	0.226	0.313	0.357	[illegible]	0.369	[illegible]	0.340	0.337
RESERVED / (DEFICIENCY)																							
0.918	0.932	0.933	[illegible]	0.952	0.948	1.015	1.028	1.077	[illegible]	1.048	1.047	1.055	[illegible]	1.084	1.100	1.094	1.007	0.973	[illegible]	0.961	0.975	0.990	0.993

National Power Corporation

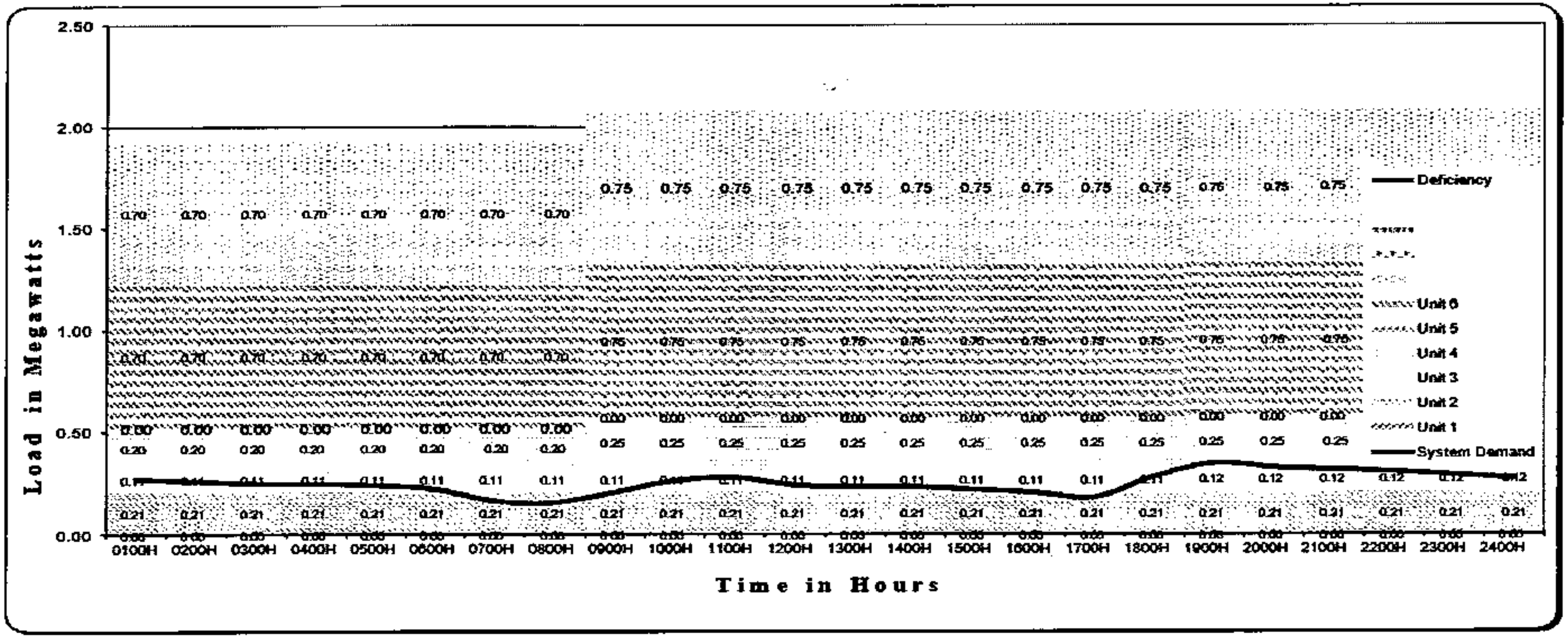
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

TANDUBAS DPP

JULY 2024

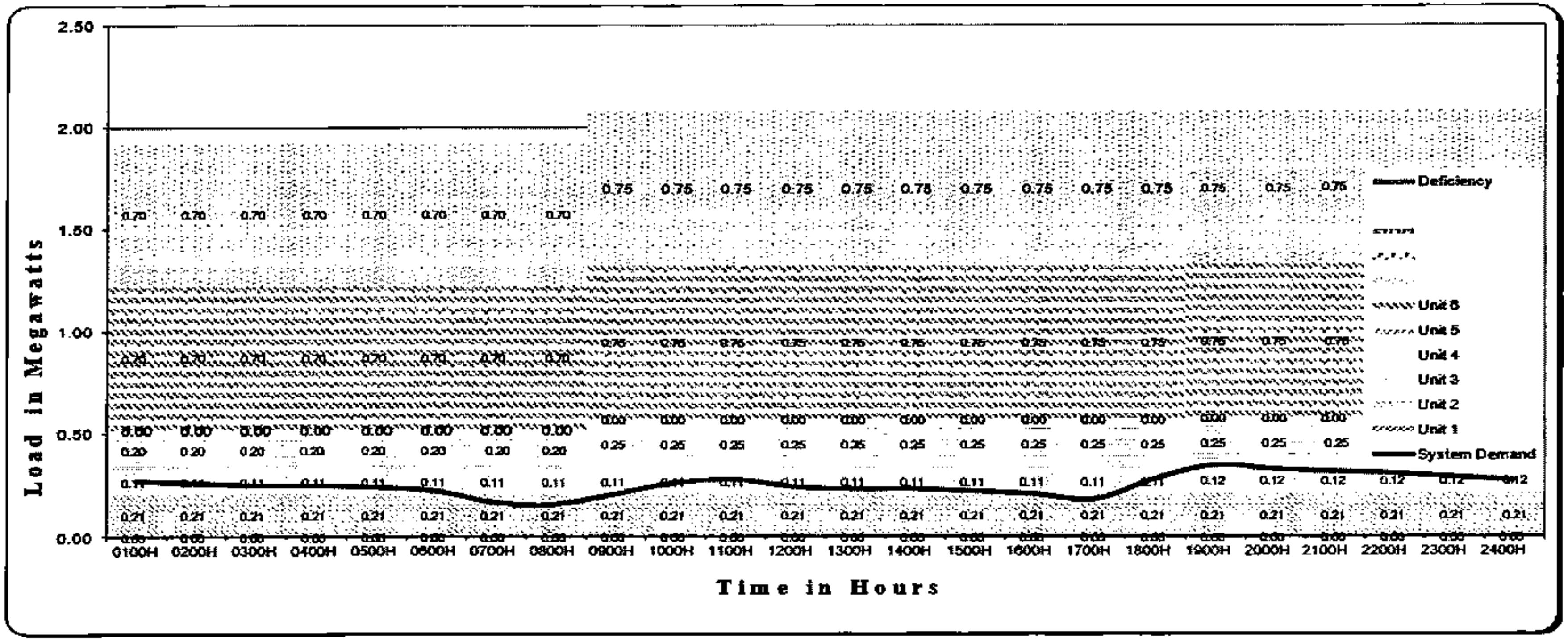


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND																							
0.270	[illegible]	0.247	0.246	0.238	0.220	0.163	[illegible]	0.205	[illegible]	0.275	[illegible]	0.230	0.230	0.218	0.202	0.180	0.280	0.345	0.324	0.314	0.304	0.287	0.270
RESERVED / (DEFICIENCY)																							
0.950	[illegible]	0.973	0.974	0.982	1.000	1.057	[illegible]	1.115	[illegible]	1.045	[illegible]	1.090	1.090	1.102	1.117	1.140	1.040	0.985	1.006	1.016	1.026	1.043	1.060

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
August 2024



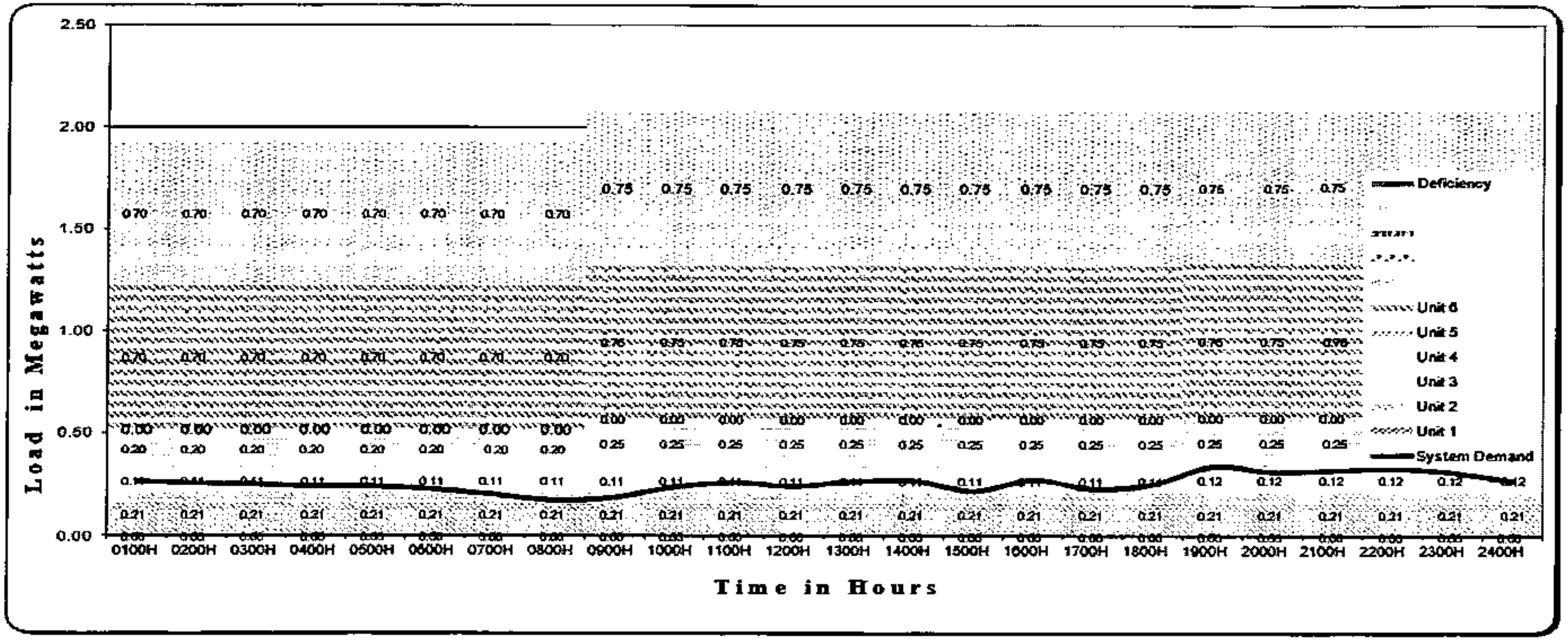
0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND																							
0.270	[illegible]	0.247	[illegible]	0.238	0.220	0.163	[illegible]	0.205	0.260	0.275	[illegible]	0.230	0.230	0.218	0.203	0.180	0.280	0.345	0.324	0.314	0.304	0.287	0.270
RESERVED / (DEFICIENCY)																							
0.950	[illegible]	0.973	0.974	0.982	1.000	1.057	[illegible]	1.115	1.060	1.045	1.061	1.090	1.090	1.102	1.117	1.140	1.040	0.985	1.006	1.016	1.026	1.043	1.060

National Power Corporation

SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
September 2024

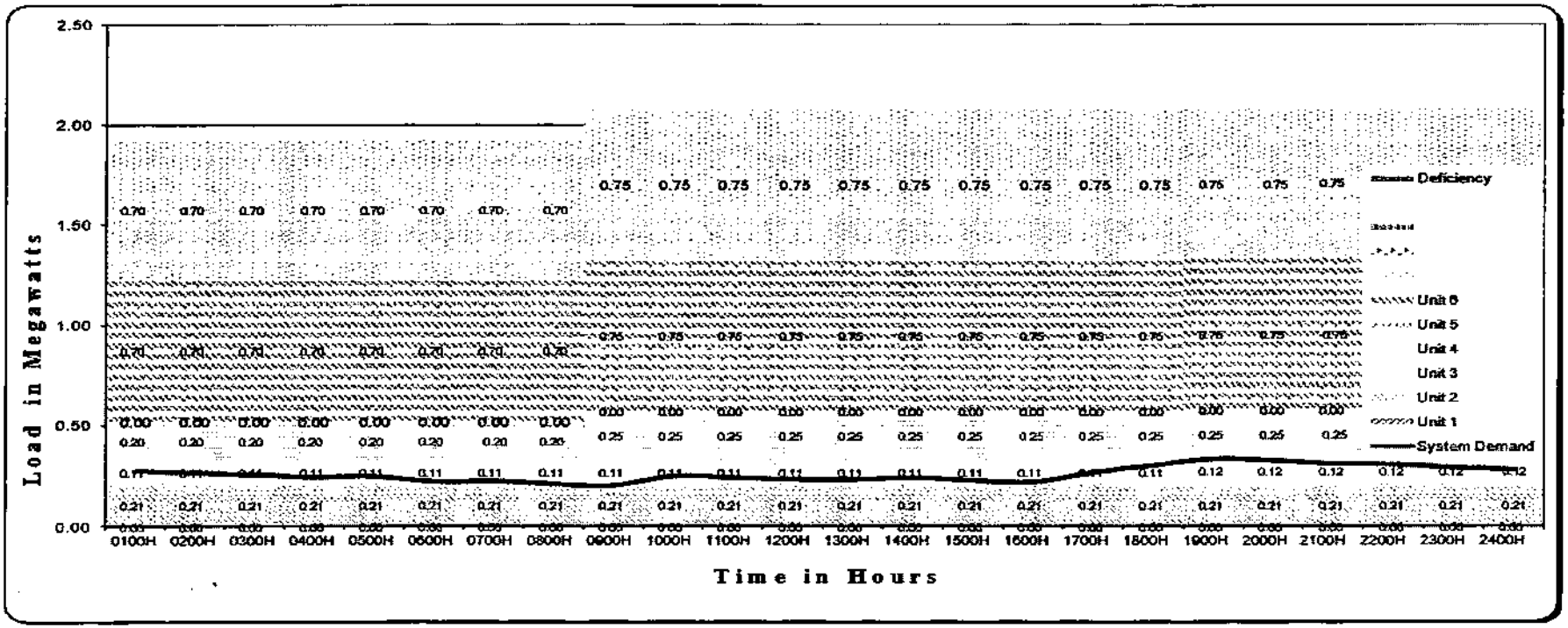


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND																							
0.266	[illegible]	0.251	0.242	0.240	0.221	0.200	0.172	0.187	0.237	0.259	0.243	0.265	[illegible]	0.220	0.273	0.230	0.253	0.342	0.313	0.322	0.331	0.310	0.268
RESERVED / (DEFICIENCY)																							
0.954	[illegible]	0.969	0.978	0.980	0.995	1.020	1.048	1.133	1.083	1.061	1.077	1.055	[illegible]	1.100	1.047	1.090	1.067	0.988	1.017	1.008	0.999	1.020	1.062

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
October 2024



	0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND	0.275	0.265	0.256	0.247	0.247	0.220	0.222	0.207	0.200	0.247	0.240	0.231	0.230	0.240	0.225	0.217	0.267	0.302	0.335	0.327	0.310	0.305	0.291	0.280
RESERVED / (DEFICIENCY)	0.945	0.955	0.964	0.973	0.973	1.000	0.998	1.013	1.120	1.073	1.080	1.089	1.090	1.080	1.095	1.103	1.053	1.018	0.995	1.003	1.020	1.024	1.039	1.050

National Power Corporation

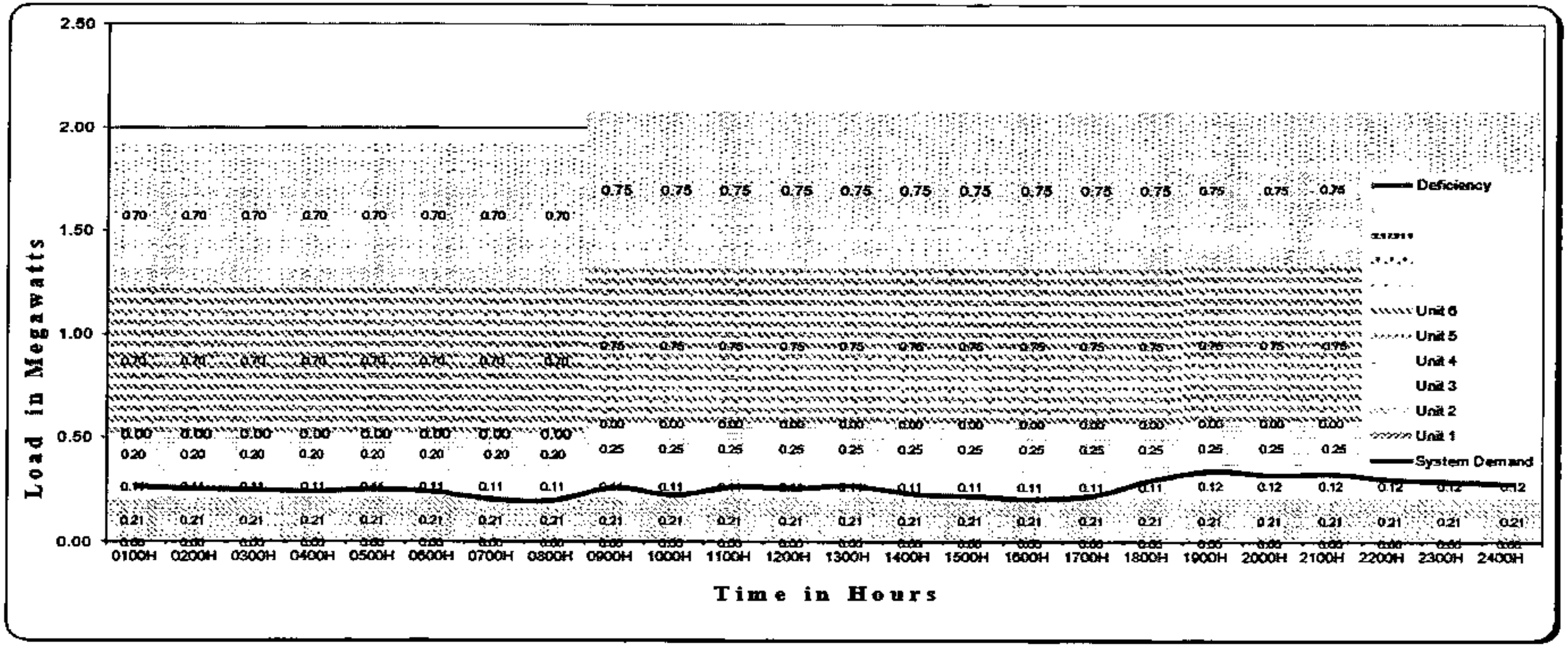
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

TANDUBAS DPP

November 2024

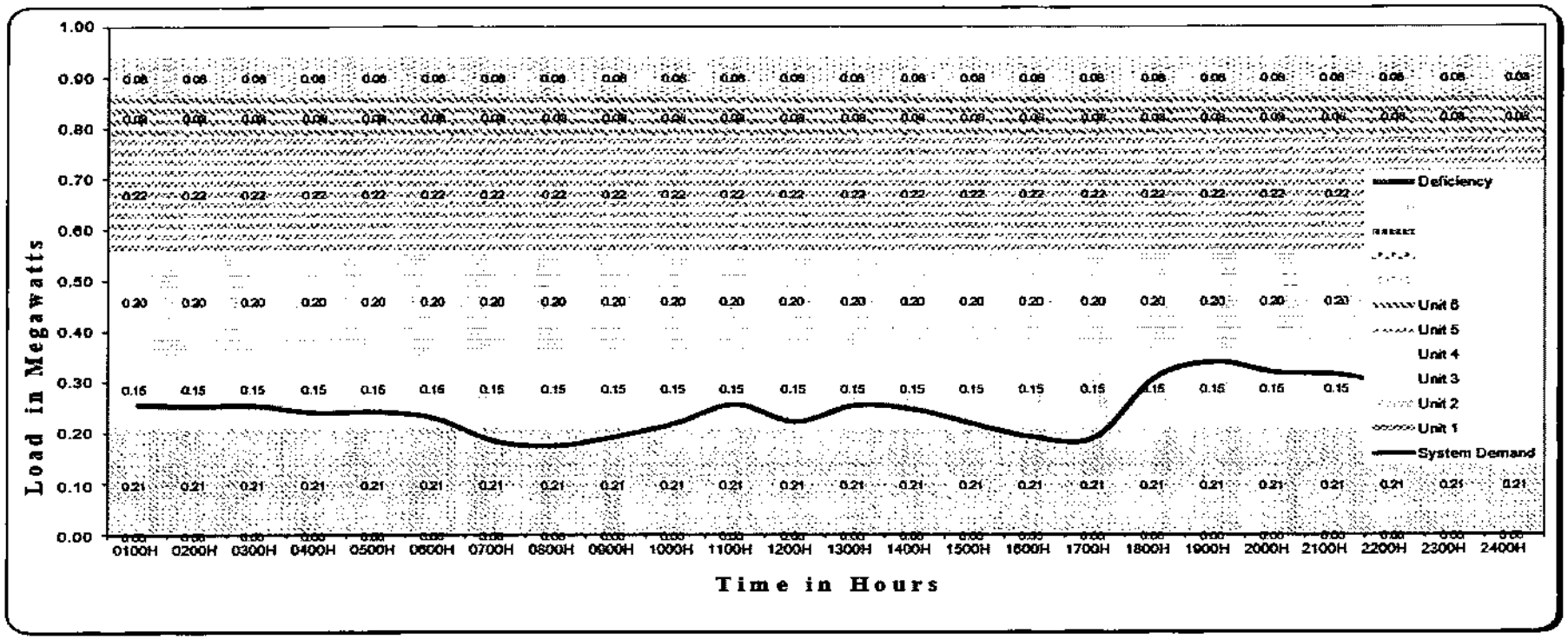


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.320	1.320	1.320	1.320	1.320	1.320	1.320	[illegible]	1.320	1.320	1.330	1.330	1.330	1.330	1.330	1.330
SYSTEM DEMAND																							
0.267	[illegible]	0.251	[illegible]	0.254	0.240	0.203	[illegible]	0.262	[illegible]	0.267	[illegible]	0.270	[illegible]	0.220	0.207	0.225	0.302	0.345	0.325	0.330	0.302	0.292	0.282
RESERVED / (DEFICIENCY)																							
0.953	[illegible]	0.969	0.977	0.966	0.980	1.017	1.021	1.058	[illegible]	1.053	[illegible]	1.050	[illegible]	1.100	1.113	1.095	1.018	0.985	1.005	1.000	1.028	1.038	1.048

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
TANDUBAS DPP
December 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860
SYSTEM DEMAND																							
0.257	0.254	0.255	0.251	0.243	0.230	0.185	0.178	0.194	0.220	0.257	0.229	0.255	0.232	0.218	0.192	0.192	0.210	0.340	0.350	0.316	0.297	0.292	0.282
RESERVED / (DEFICIENCY)																							
0.603	0.606	0.605	0.609	0.617	0.630	0.675	0.682	0.666	0.640	0.603	0.631	0.605	0.628	0.642	0.668	0.668	0.650	0.520	0.510	0.544	0.563	0.568	0.578

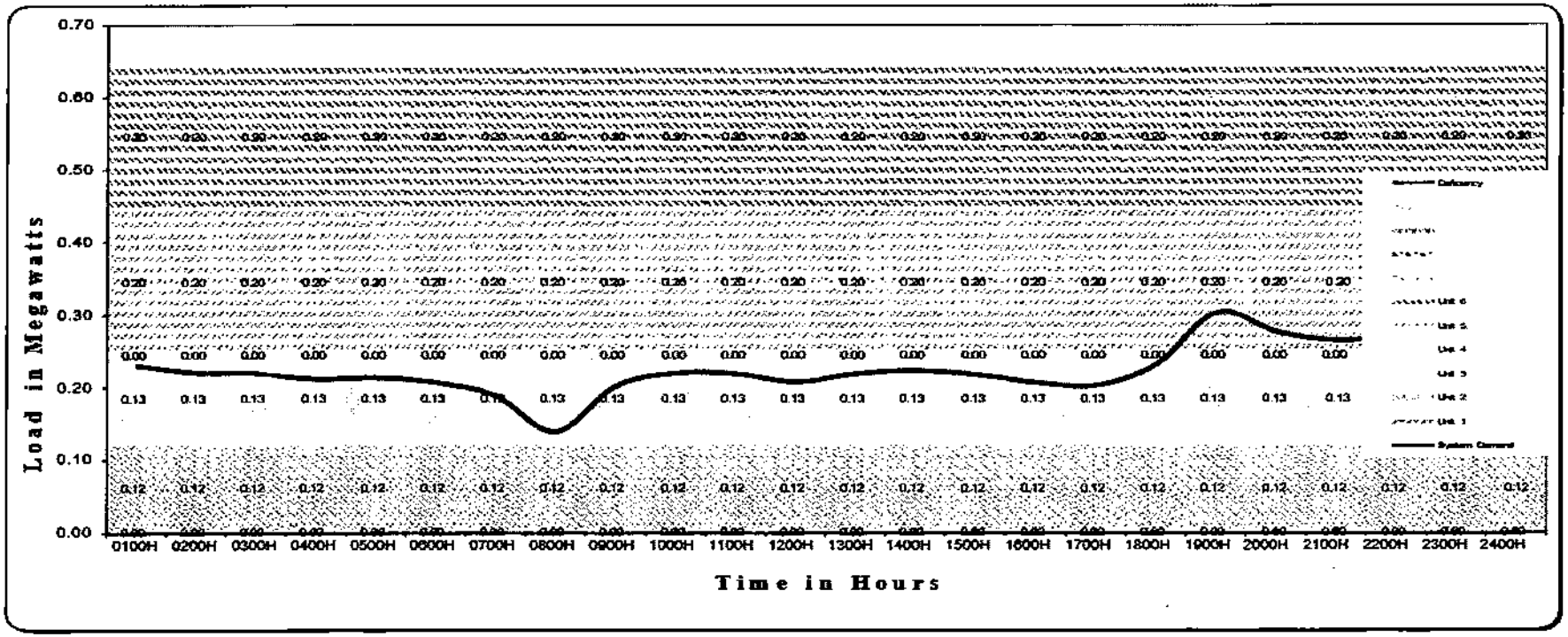
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

January 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645
SYSTEM DEMAND																							
0.232	0.222	0.221	0.215	0.215	0.208	0.190	0.190	0.203	0.201	0.220	0.220	0.220	0.224	0.219	0.208	0.204	0.230	0.305	0.276	0.266	0.270	0.265	0.250
RESERVED / (DEFICIENCY)																							
0.413	0.423	0.424	0.430	0.430	0.437	0.455	0.455	0.442	0.444	0.425	0.425	0.425	0.421	0.426	0.437	0.441	0.415	0.340	0.369	0.379	0.375	0.380	0.395

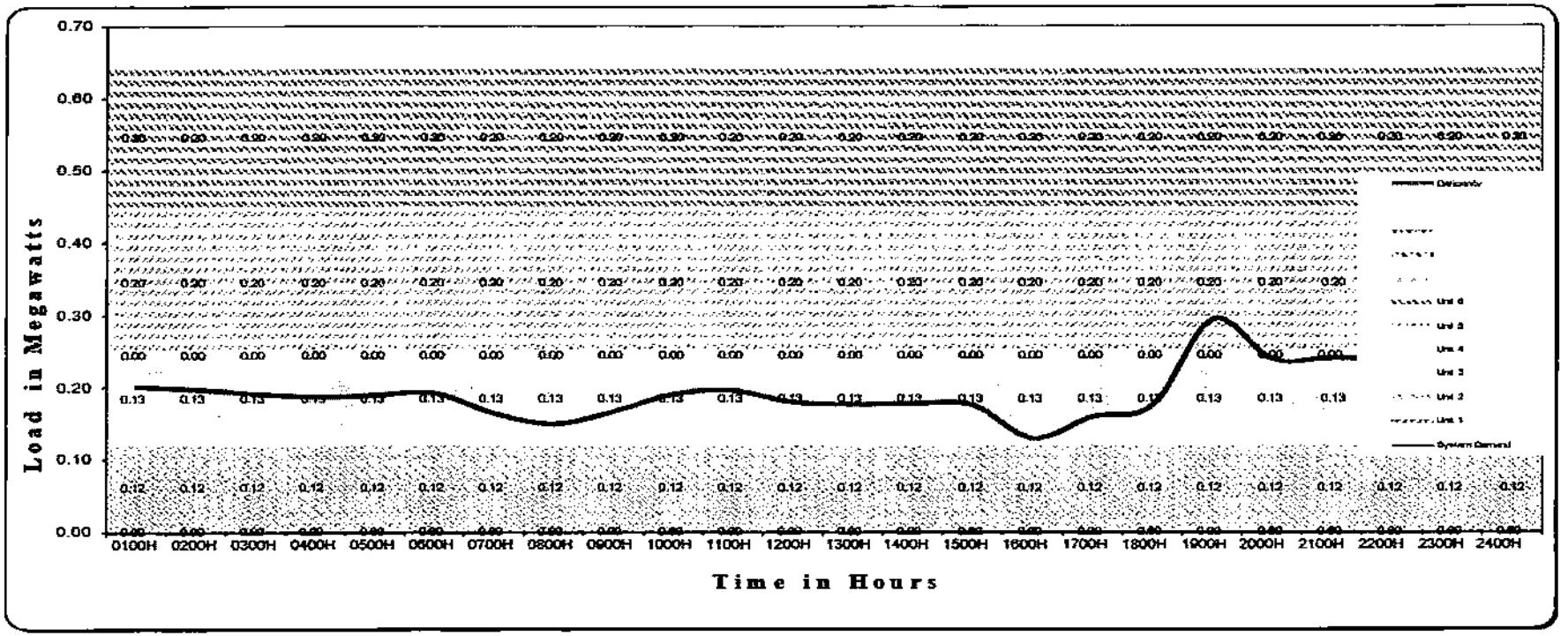
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

February 2024

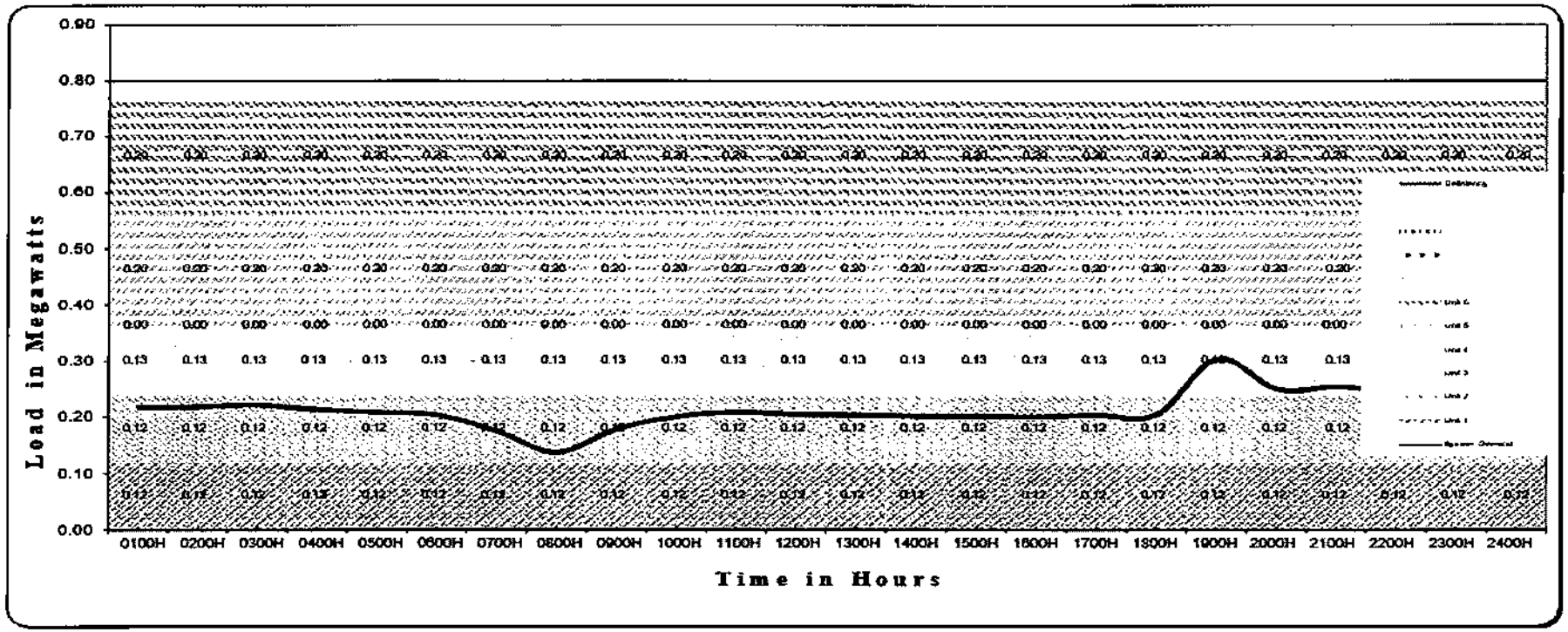


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645
SYSTEM DEMAND																							
0.202	0.197	0.192	0.187	0.190	0.190	0.165	0.160	0.167	0.161	0.196	0.200	0.177	0.172	0.176	0.180	0.160	0.170	0.295	0.299	0.241	0.237	0.223	0.212
RESERVED / (DEFICIENCY)																							
0.443	0.447	0.453	0.457	0.455	0.455	0.480	0.485	0.478	0.484	0.449	0.445	0.468	0.472	0.469	0.465	0.485	0.475	0.350	0.346	0.404	0.408	0.422	0.433

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
SIBUTU DPP
March 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.219	0.220	0.223	0.215	0.210	0.206	0.177	0.185	0.180	0.203	0.210	0.205	0.205	0.203	0.202	0.205	0.205	0.305	0.251	0.255	0.245	0.236	0.236	0.228
RESERVED / (DEFICIENCY)																							
0.546	0.545	0.542	0.550	0.555	0.559	0.588	0.580	0.585	0.563	0.555	0.560	0.560	0.562	0.563	0.560	0.560	0.460	0.514	0.510	0.520	0.529	0.529	0.537

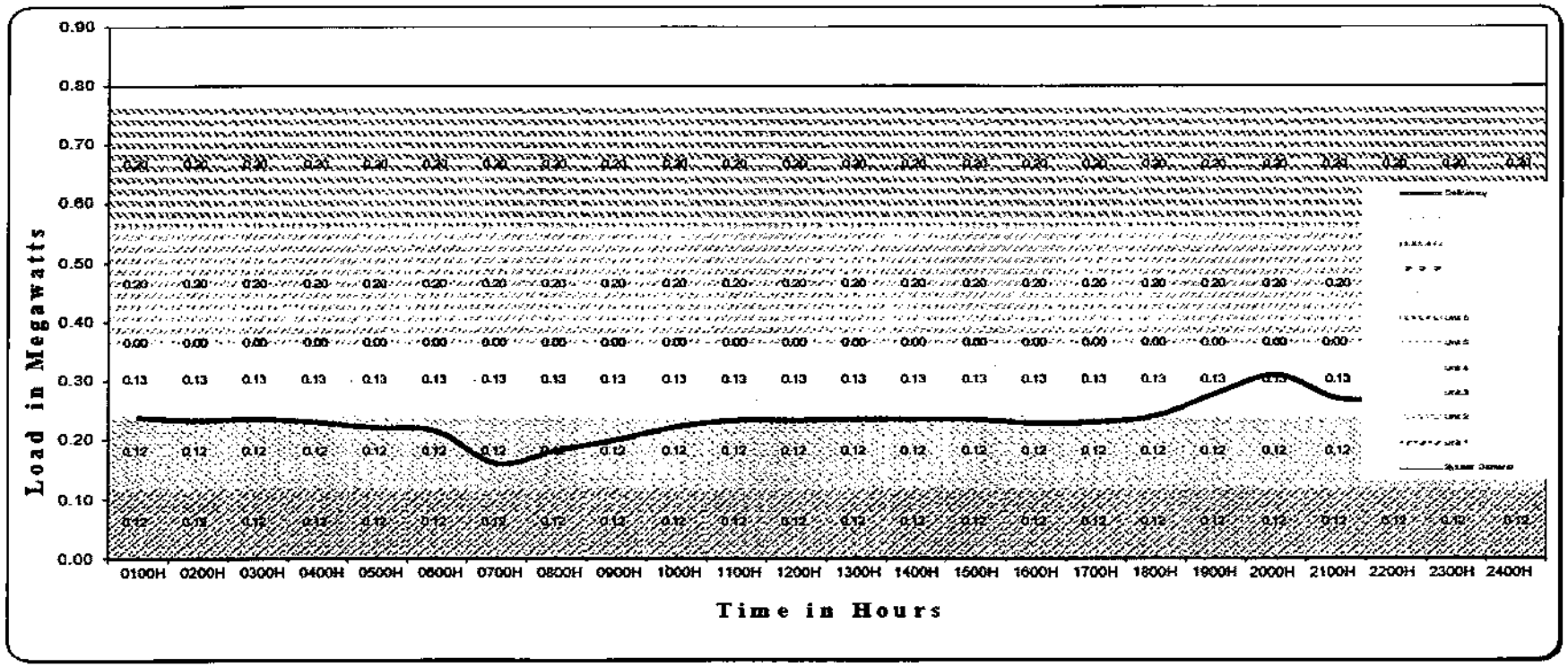
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

April 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.238	0.231	0.236	0.230	0.221	0.215	0.180	0.182	0.200	0.222	0.233	0.233	0.235	0.240	0.234	0.228	0.230	0.241	0.279	0.310	0.270	0.268	0.255	0.248
RESERVED / (DEFICIENCY)																							
0.527	0.532	0.529	0.535	0.544	0.550	0.585	0.583	0.565	0.543	0.532	0.532	0.530	0.525	0.531	0.537	0.535	0.524	0.486	0.455	0.495	0.497	0.510	0.517

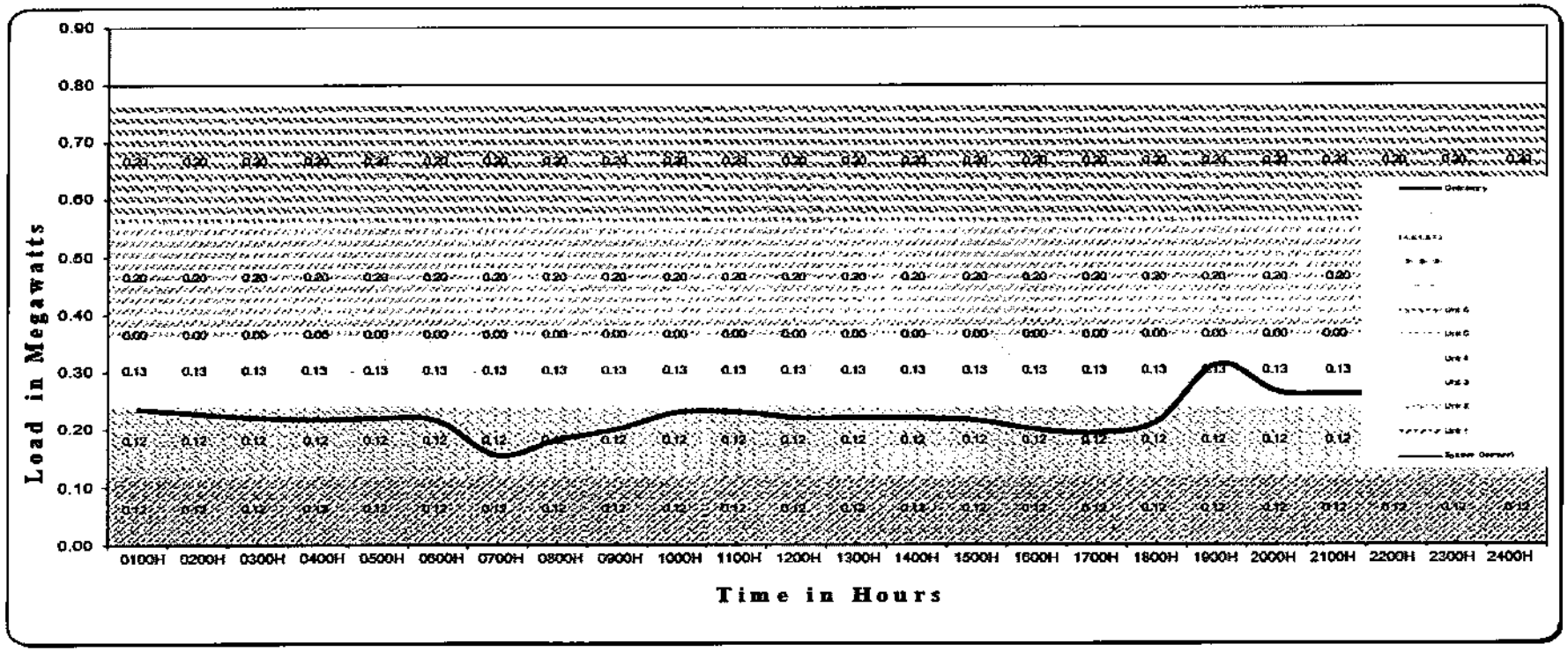
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

May 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.236	0.221	0.221	0.220	0.220	0.155	0.155	0.201	0.201	0.231	0.221	0.221	0.220	0.216	0.200	0.194	0.193	0.315	0.265	0.263	0.250	0.250	0.250	0.250
RESERVED / (DEFICIENCY)																							
0.529	0.544	0.544	0.545	0.545	0.610	0.610	0.564	0.564	0.534	0.544	0.544	0.545	0.549	0.565	0.571	0.572	0.450	0.500	0.502	0.515	0.515	0.515	0.515

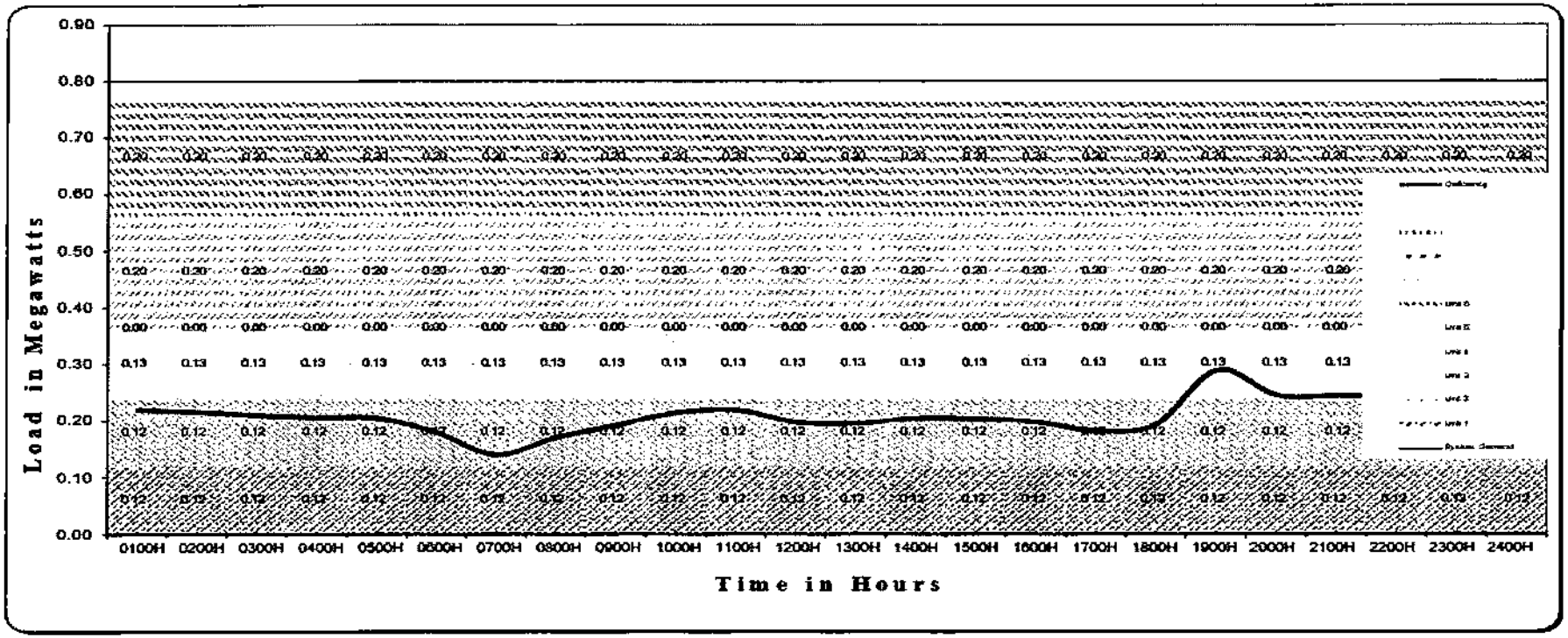
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

June 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.220	0.210	0.210	0.205	0.205	0.140	0.170	0.192	0.201	0.219	0.196	0.196	0.201	0.203	0.196	0.182	0.194	0.290	0.245	0.244	0.242	0.236	0.236	0.236
RESERVED / (DEFICIENCY)																							
0.545	0.555	0.555	0.560	0.560	0.625	0.595	0.573	0.564	0.546	0.569	0.569	0.564	0.562	0.569	0.583	0.571	0.475	0.520	0.521	0.523	0.529	0.529	0.529

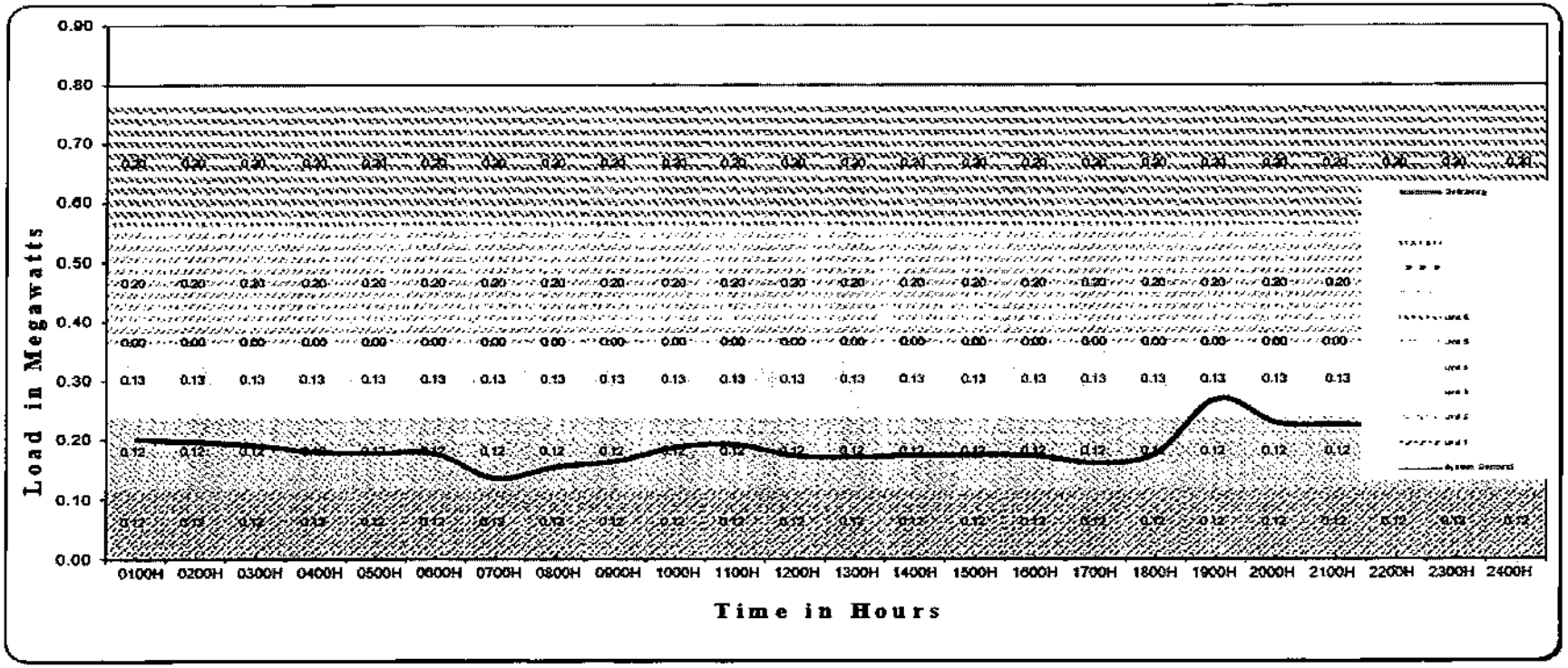
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

July 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.201	0.191	0.191	0.178	0.178	0.135	0.135	0.164	0.164	0.192	0.173	0.171	0.171	0.175	0.175	0.161	0.161	0.270	0.229	0.226	0.223	0.218	0.218	0.201
RESERVED / (DEFICIENCY)																							
0.564	0.574	0.574	0.587	0.587	0.630	0.630	0.601	0.601	0.573	0.592	0.594	0.594	0.590	0.590	0.604	0.604	0.495	0.536	0.539	0.542	0.547	0.547	0.564

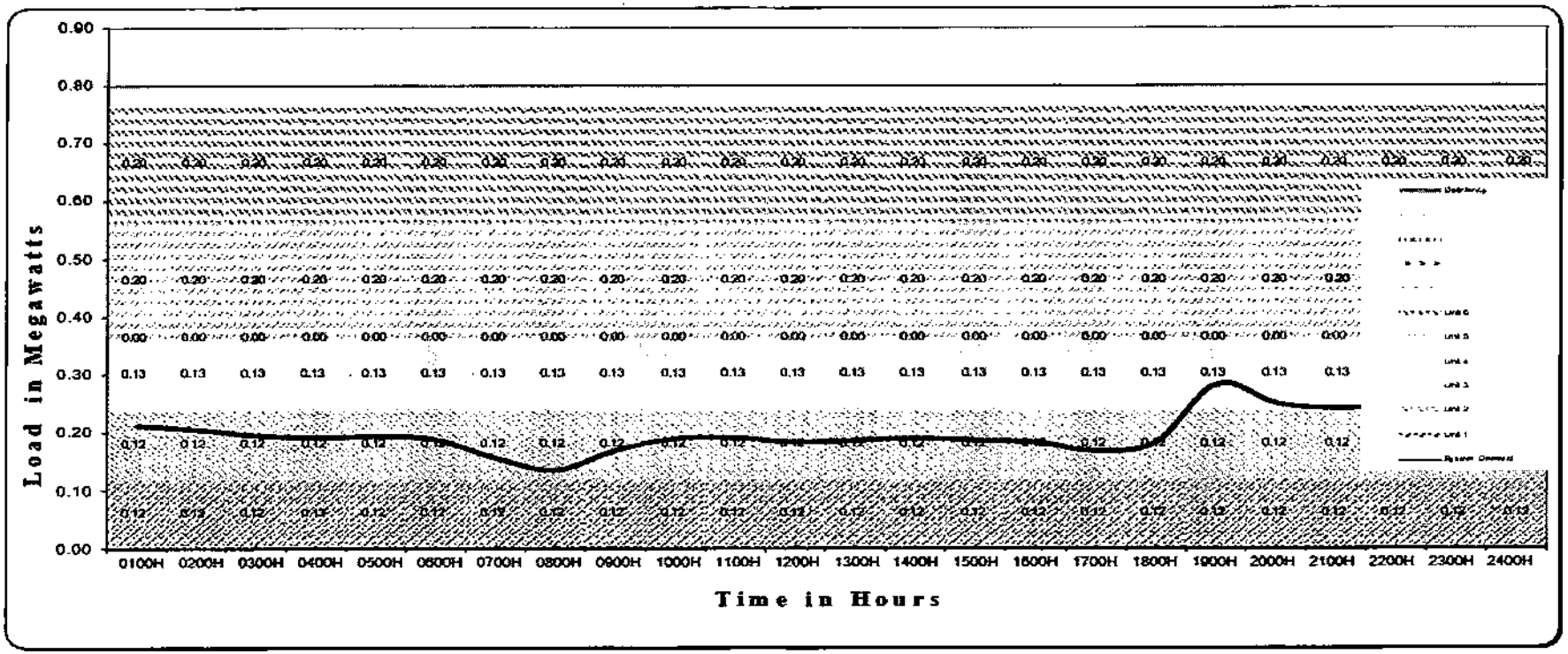
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

August 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.213	0.200	0.196	0.192	0.194	0.189	0.156	0.135	0.169	0.190	0.191	0.184	0.187	0.190	0.187	0.188	0.168	0.165	0.285	0.251	0.242	0.255	0.235	0.227
RESERVED / (DEFICIENCY)																							
0.552	0.565	0.569	0.573	0.571	0.577	0.609	0.630	0.596	0.575	0.574	0.581	0.578	0.575	0.578	0.577	0.597	0.600	0.480	0.514	0.523	0.510	0.530	0.538

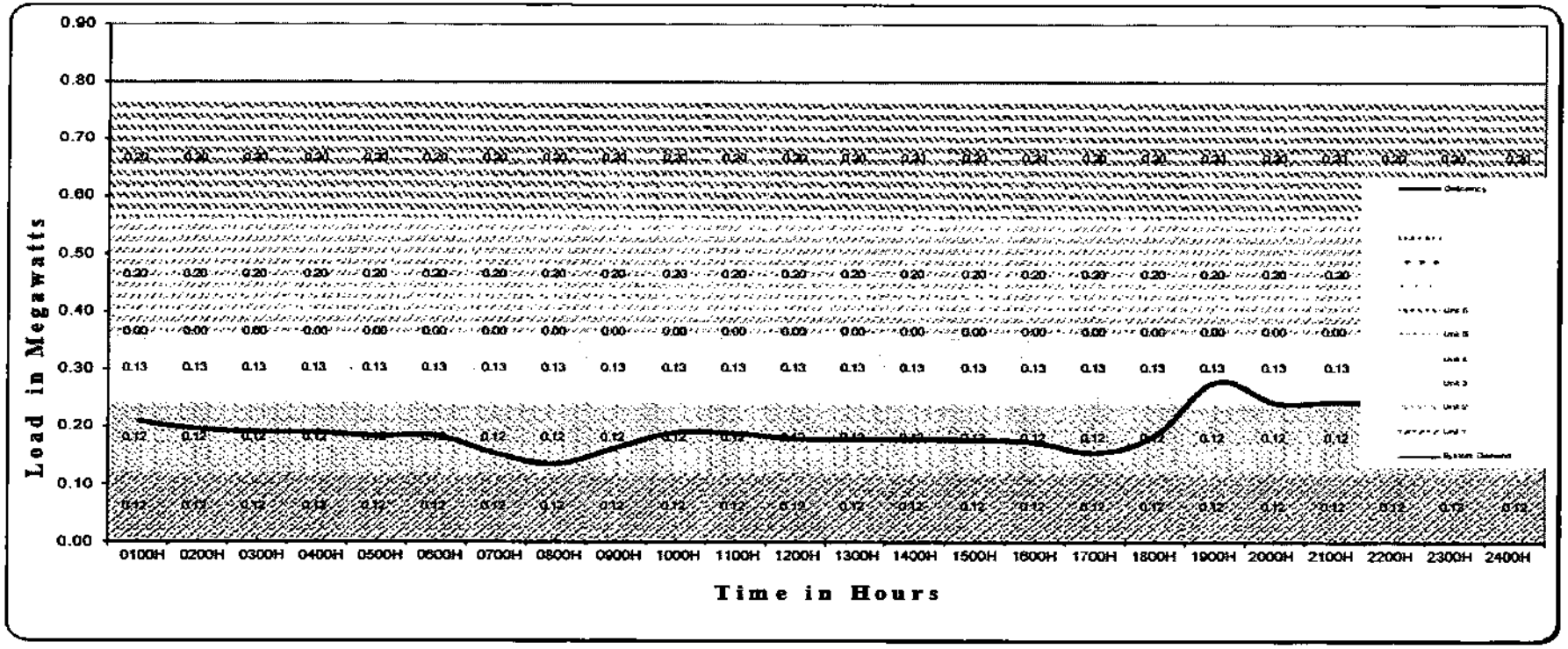
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

September 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.210	0.191	0.191	0.183	0.183	0.153	0.153	0.163	0.163	0.188	0.188	0.178	0.178	0.177	0.177	0.155	0.155	0.280	0.280	0.244	0.244	0.229	0.229	0.220
RESERVED / (DEFICIENCY)																							
0.555	0.574	0.574	0.582	0.582	0.612	0.612	0.602	0.602	0.577	0.577	0.587	0.587	0.588	0.588	0.610	0.610	0.485	0.485	0.521	0.521	0.536	0.536	0.545

National Power Corporation

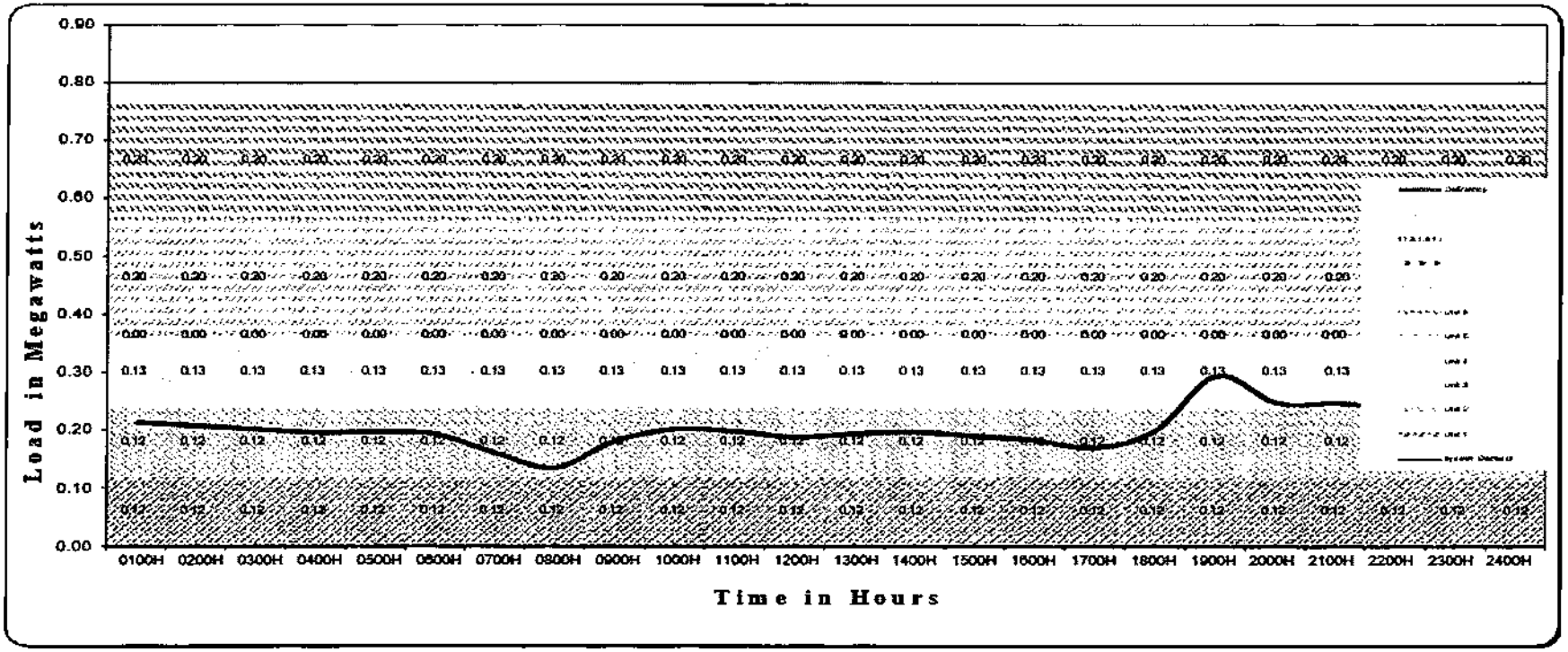
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

October 2024

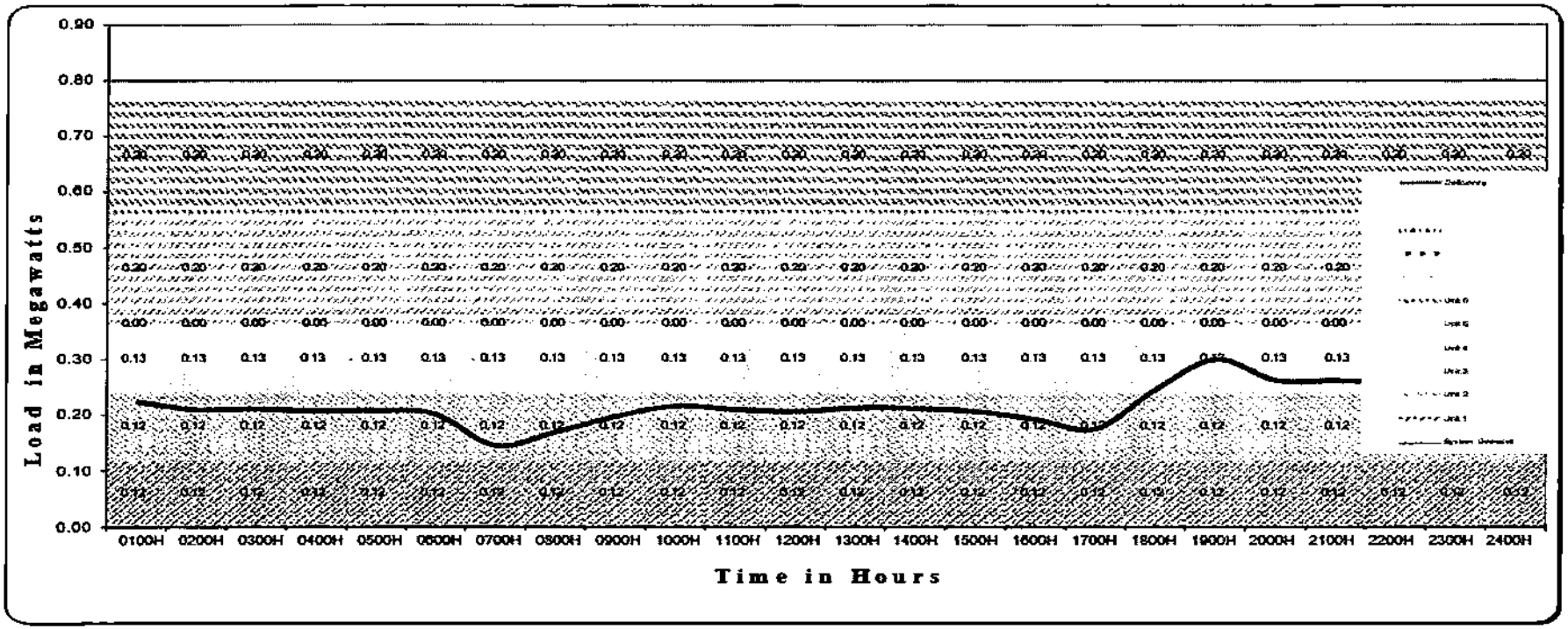


0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.214	0.202	0.202	0.197	0.197	0.193	0.181	0.181	0.181	0.198	0.198	0.194	0.194	0.190	0.190	0.170	0.170	0.295	0.295	0.247	0.247	0.229	0.229	0.229
RESERVED / (DEFICIENCY)																							
0.551	0.563	0.563	0.568	0.568	0.572	0.584	0.584	0.584	0.567	0.567	0.571	0.571	0.575	0.575	0.595	0.595	0.470	0.470	0.518	0.518	0.536	0.536	0.536

National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE
SIBUTU DPP
November 2024



0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
SYSTEM DEMAND																							
0.224	0.210	0.211	0.208	0.208	0.201	0.145	0.196	0.197	0.210	0.210	0.208	0.213	0.212	0.206	0.192	0.175	0.248	0.300	0.262	0.262	0.265	0.239	0.242
RESERVED / (DEFICIENCY)																							
0.541	0.555	0.554	0.557	0.557	0.564	0.620	0.569	0.568	0.555	0.555	0.557	0.552	0.553	0.559	0.573	0.590	0.517	0.465	0.503	0.503	0.500	0.526	0.523

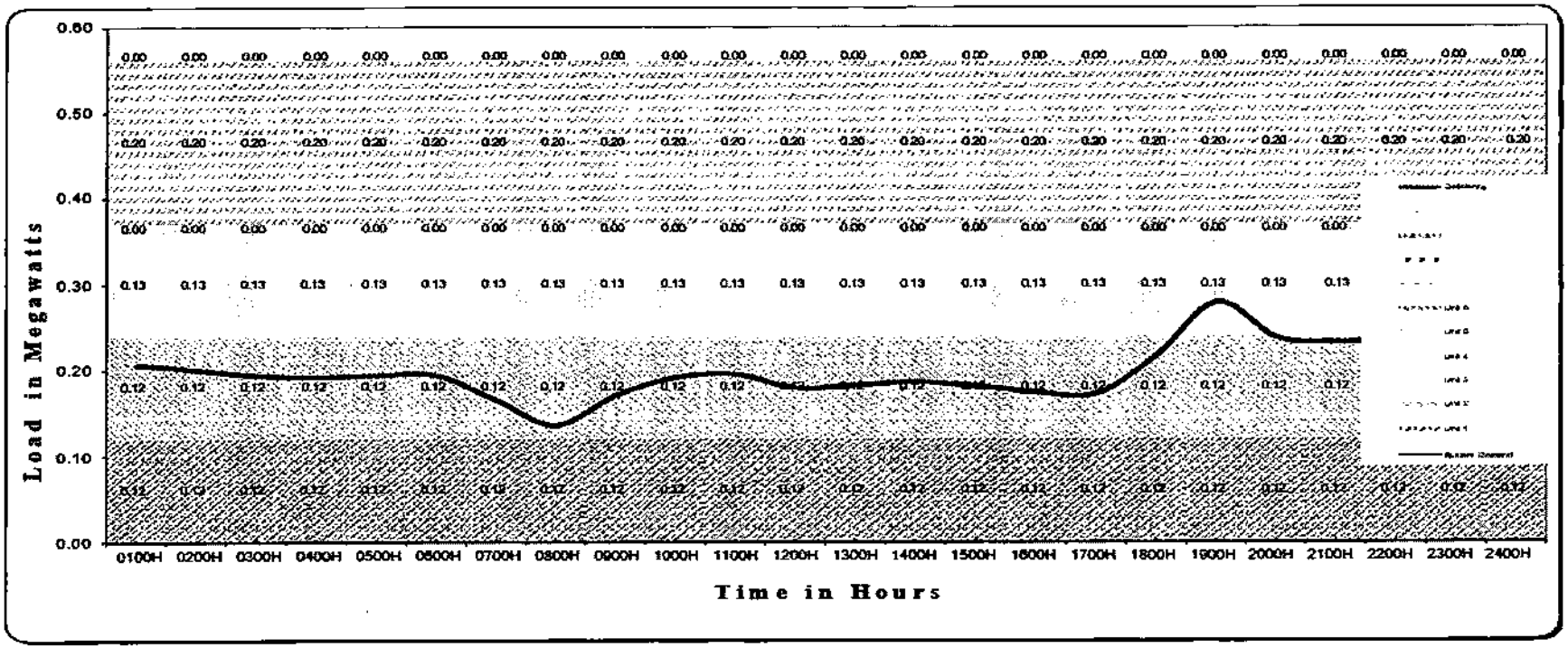
National Power Corporation
SMALL POWER UTILITIES GROUP

Revised November 2001

LOAD AND DEMAND CURVE

SIBUTU DPP

December 2024



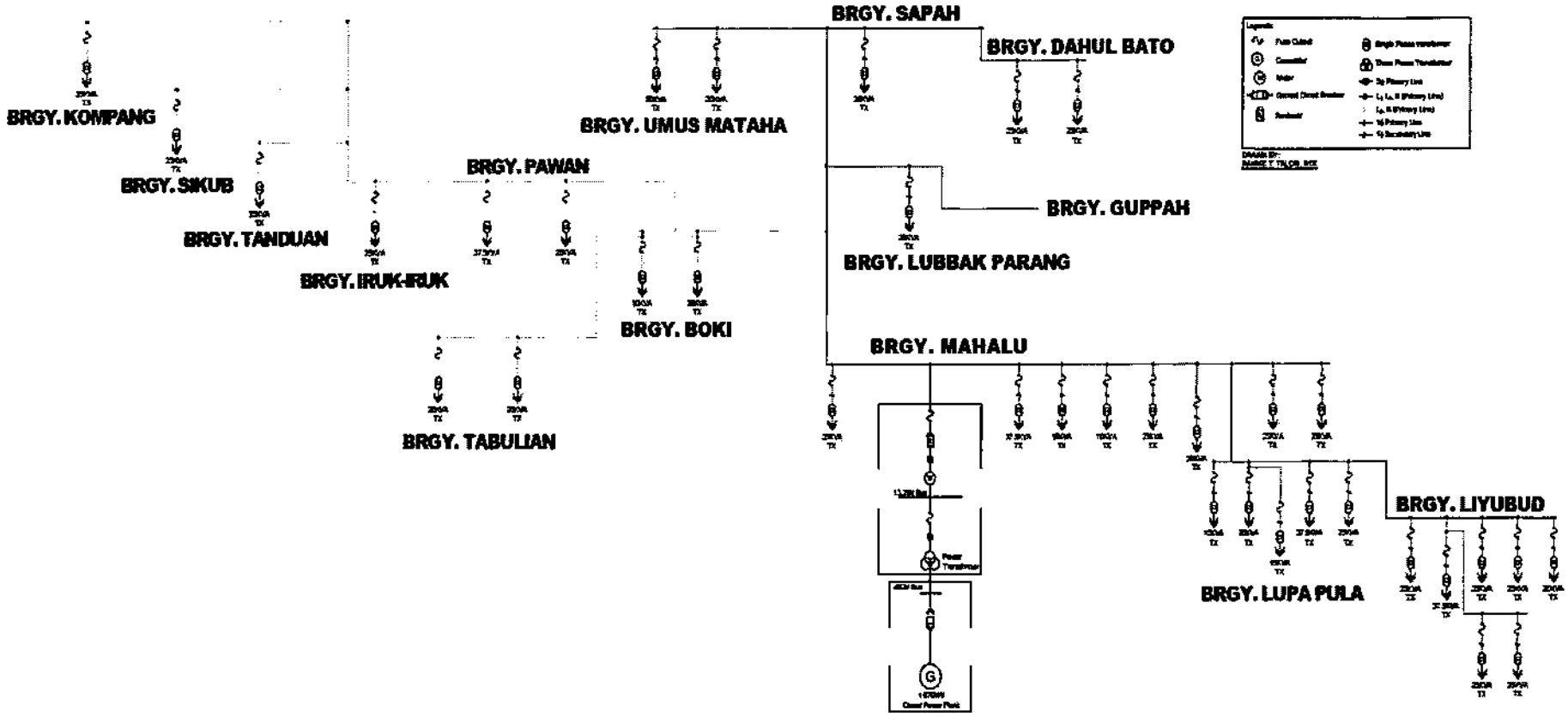
0100H	0200H	0300H	0400H	0500H	0600H	0700H	0800H	0900H	1000H	1100H	1200H	1300H	1400H	1500H	1600H	1700H	1800H	1900H	2000H	2100H	2200H	2300H	2400H
TOTAL CAPABILITY																							
0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565
SYSTEM DEMAND																							
0.207	0.207	0.194	0.194	0.194	0.194	0.165	0.165	0.170	0.170	0.195	0.195	0.182	0.182	0.181	0.172	0.172	0.280	0.280	0.233	0.233	0.223	0.223	0.218
RESERVED / (DEFICIENCY)																							
0.358	0.358	0.371	0.371	0.371	0.371	0.400	0.400	0.395	0.395	0.370	0.370	0.383	0.383	0.384	0.393	0.393	0.285	0.285	0.332	0.332	0.342	0.342	0.346

APPENDIX D

DISTRIBUTION SYSTEM SINGLE LINE DIAGRAM

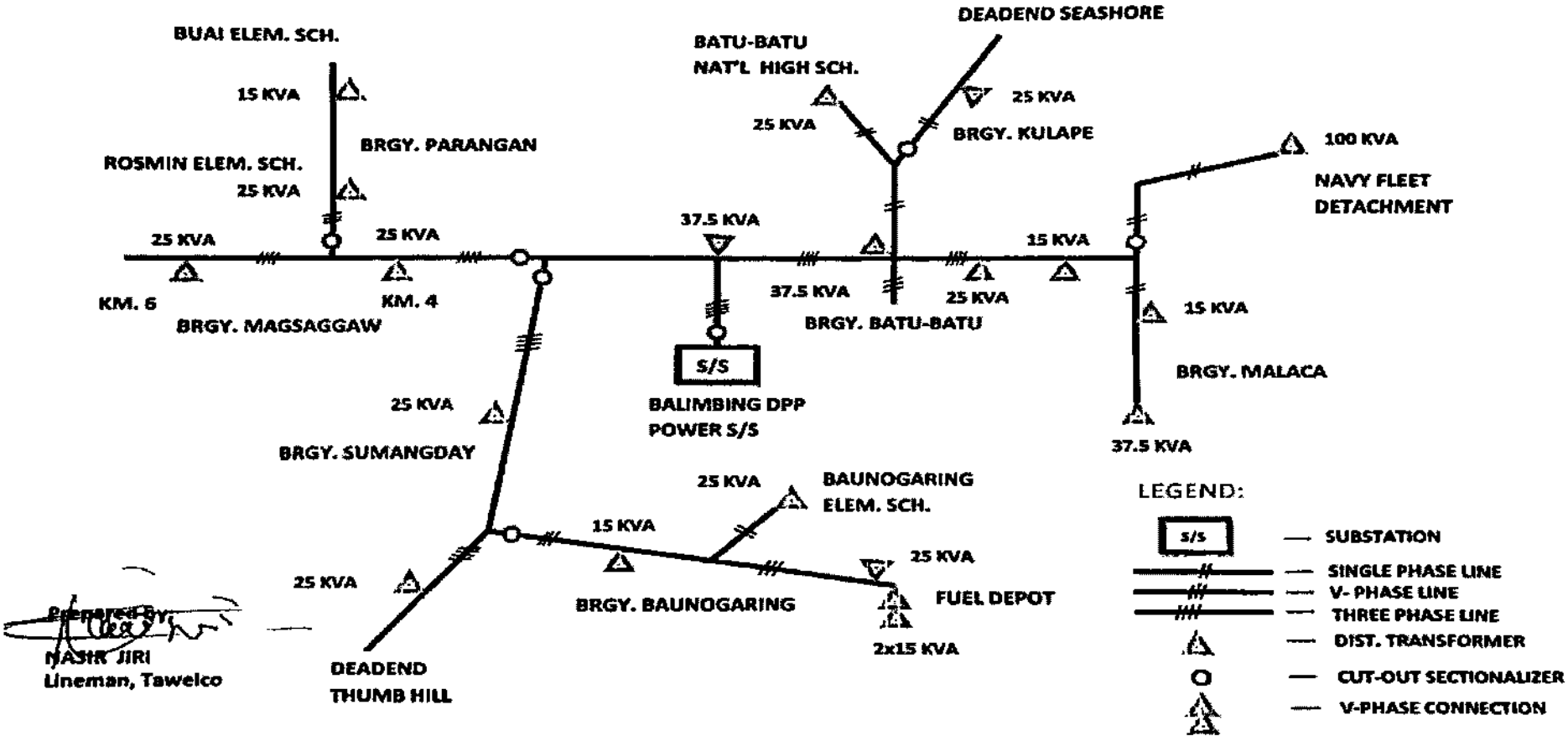
NOTE: PLEASE BE ADVISED THAT THE ATTACHED DRAWING IS INTENDED FOR REFERENCE PURPOSES ONLY. THE DISTRIBUTION LINE DIAGRAM AND ITS CONTENT ARE SUBJECT TO CHANGE AND MAY VARY WITHOUT PRIOR NOTICE. FOR THE MOST ACCURATE AND UP-TO-DATE INFORMATION, ALWAYS REFER TO THE LATEST OFFICIAL DOCUMENTATION OR CONTACT THE CONCERNED DISTRIBUTION UTILITY/ELECTRIC COOPERATIVE.

EXISTING SINGLE LINE DIAGRAM OF CAGAYAN DE SULU DISTRIBUTION SYSTEM (3PHASE SYSTEM - MAPUN DIESEL POWER PLANT)



SINGLE LINE DIAGRAM 13.2KV DX LINE SYSTEM

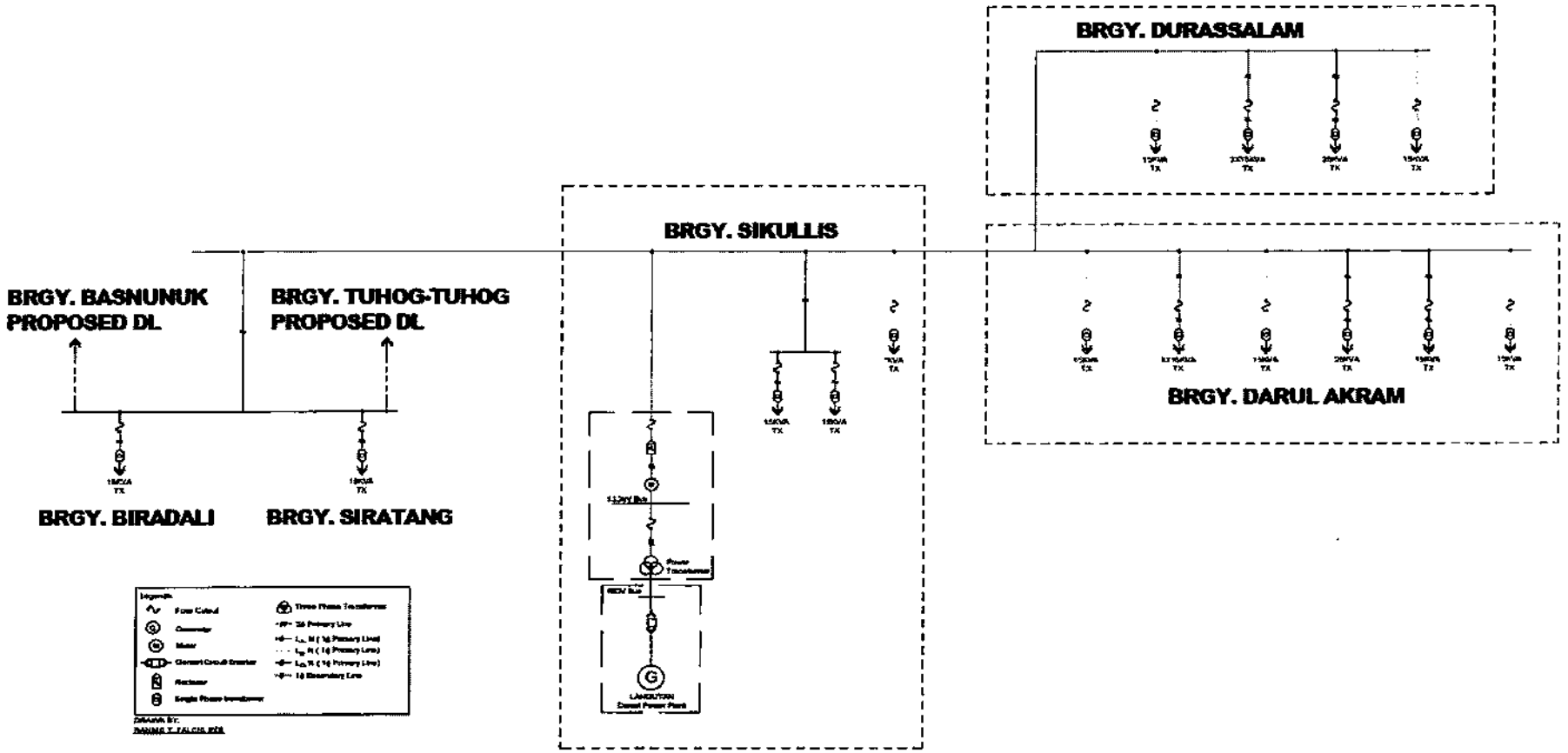
Municipality of Panglima Sugala, Tawi-Tawi

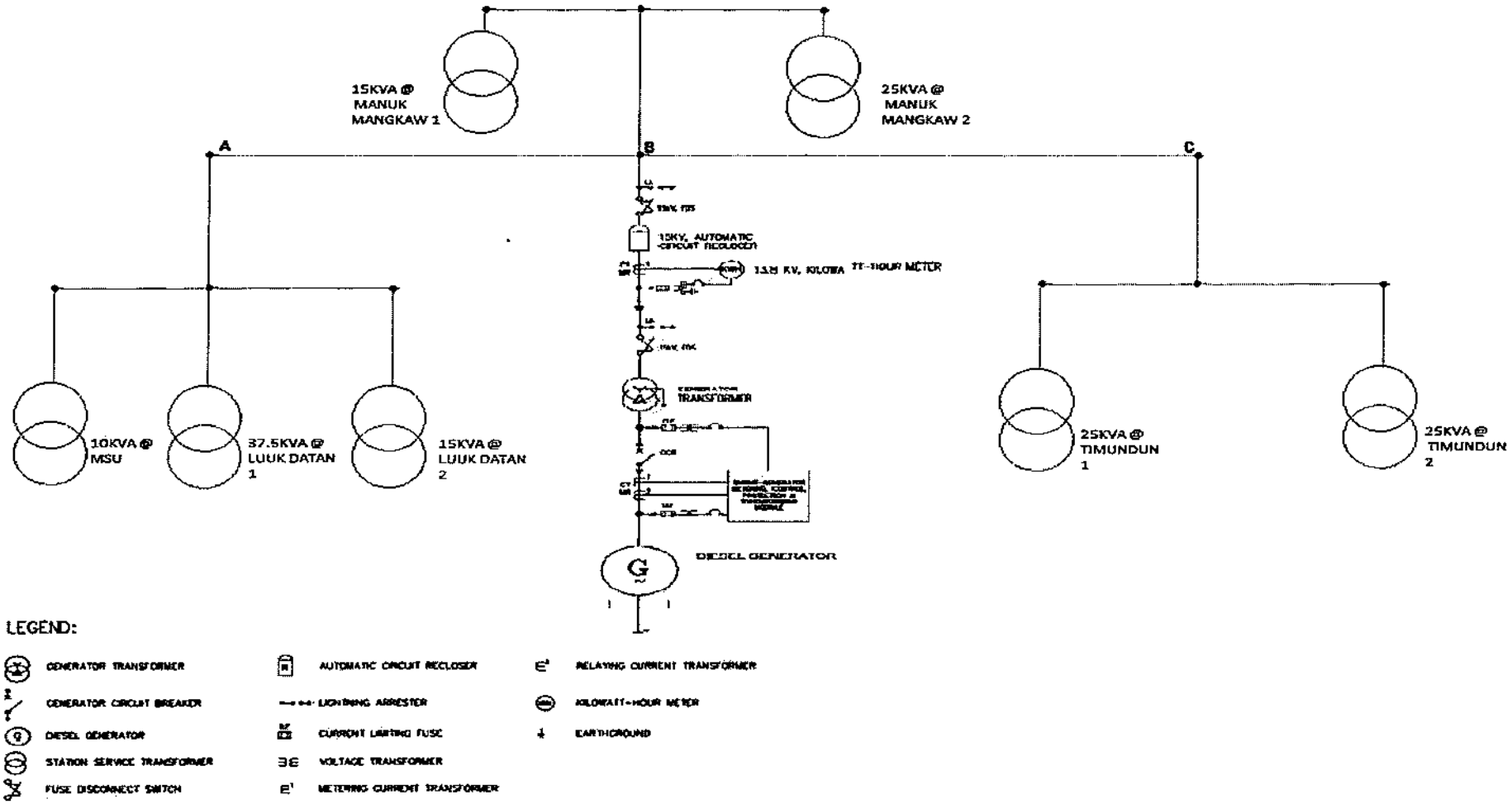


Prepared By:

NASIR JIRI
Lineman, Tawelco

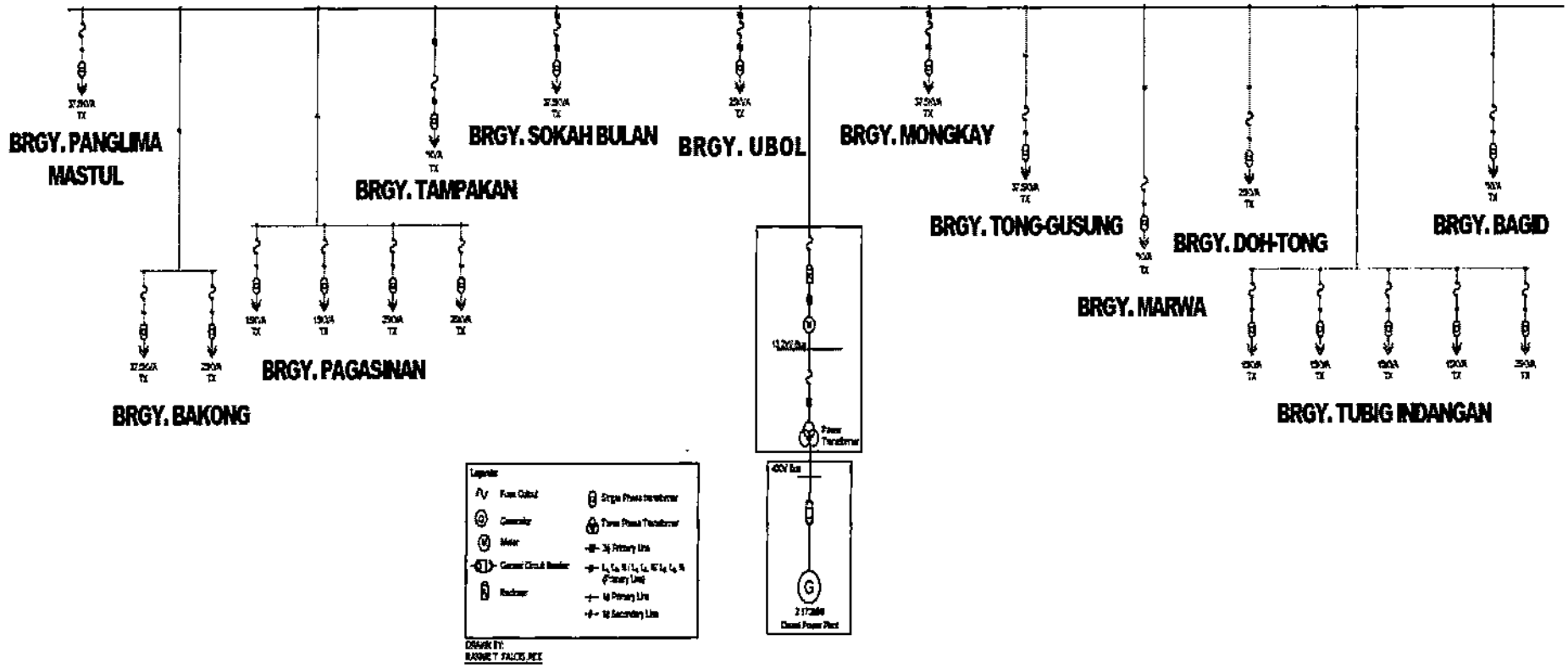
EXISTING SINGLE LINE DIAGRAM OF TAWELCO-LANGUYAN DISTRIBUTION SYSTEM (3 PHASE SYSTEM - LANGUYAN DIESEL POWER PLANT)



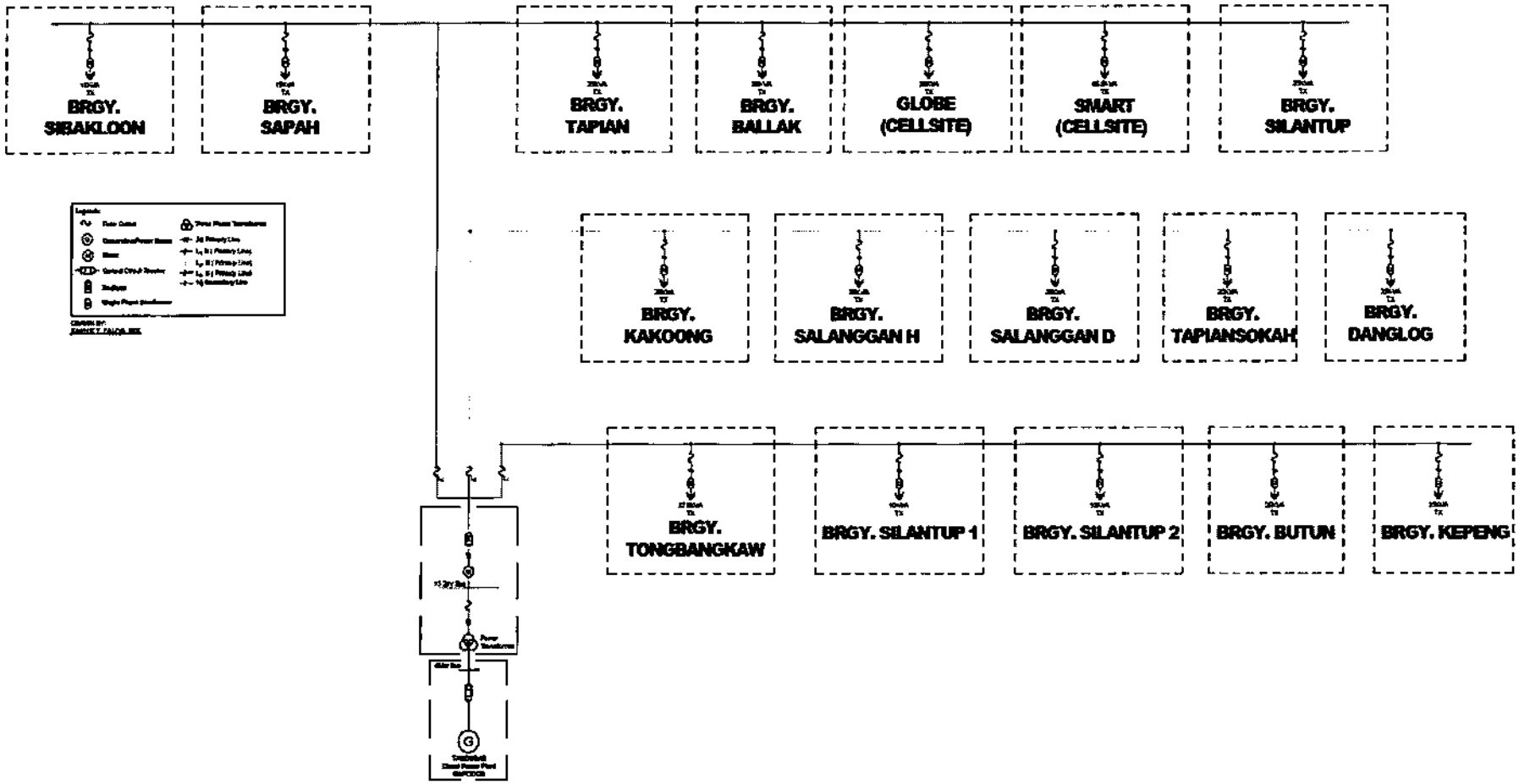


MANUK-MANGKAW DISTRIBUTION SYSTEM SINGLE LINE DIAGRAM

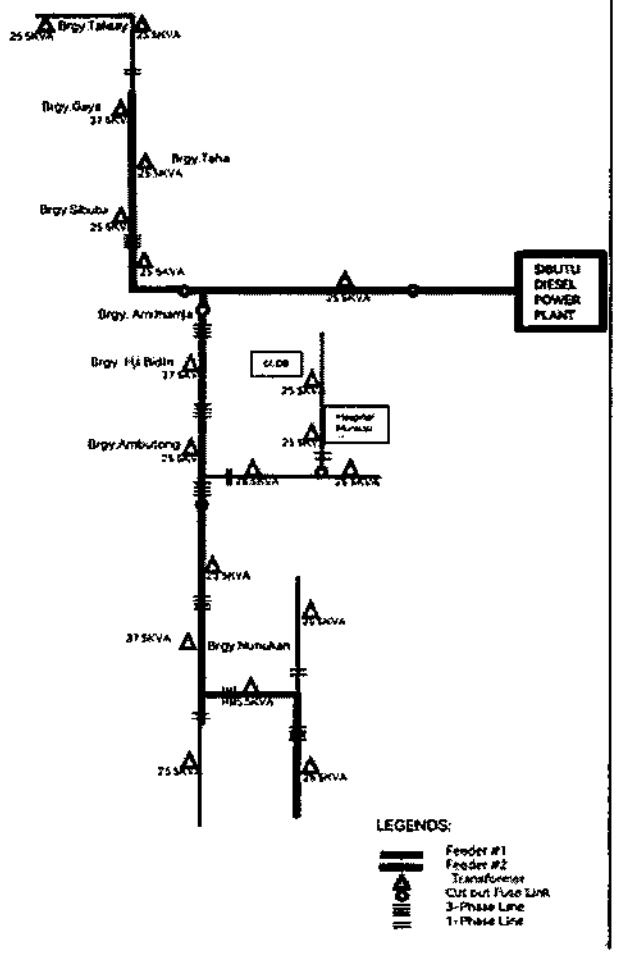
EXISTING SINGLE LINE DIAGRAM OF TAWELCO-WEST SIMUNUL DISTRIBUTION SYSTEM
(3 PHASE SYSTEM - WEST SIMUNUL DIESEL POWER PLANT)



EXISTING SINGLE LINE DIAGRAM OF TAWELCO-TANDUBAS DISTRIBUTION SYSTEM
(3 PHASE SYSTEM - TANDUBAS DIESEL POWER PLANT)



SINGLE LINE DIAGRAM OF 13.2 LINE SYSTEM
SIBUTU, TAWI-TAWI



APPENDIX E

RENEWABLE ENERGY PROJECT COST REFERENCE

RE TECHNOLOGY	PROJECT COST per MW (PhP)
Biomass**	107,685,637.36
Waste-to-Energy**	175,208,588.88
Geothermal*	$5,000,000 - $6,000,000
Ground-mounted Solar**	49,473,854.00
Roof-mounted Solar**	48,727,311.33
Floating Solar**	56,196,155.60
Run-of River Hydropower***	183,140,490.00
Onshore Wind**	81,662,013.85
Offshore Wind*	$2,527,861 - $3,936,742****

Notes:

* - USD/MW;
** - based on ERC's Resolution No. 06, Series of 2023;
*** - based on ERC's Resolution No. 02, Series of 2022; and,
**** - based on WB Offshore Wind Road Map for the Philippines, April 2022