



सत्यमेव जयते

भारत सरकार Government of India  
विद्युत मंत्रालय Ministry of Power  
उत्तर पूर्वी क्षेत्रीय विद्युत समिति  
North Eastern Regional Power Committee  
मेघालया स्टेट हाउसिंग फिनांस को-ऑपरेटिव सोसायटी लि. बिल्डिंग  
Meghalaya State Housing Finance Co-Operative Society Ltd. Building  
नांग्रिम हिल्स, शिल्लोंग - 793003  
Nongrim Hills, Shillong - 793003.

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No. 103/2/NERPC/OCC/2008/ 1808-43

Date: 14<sup>th</sup> July, 2008

To

1. Member (Tech), Assam State Electricity Board, Bijuli Bhawan, Paltan Bazar, Guwahati-781 001
2. Member (Tech), MeSEB, Lumjingshai, Short Round Road, Shillong - 793 001
3. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
4. Chief Engineer (EE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
5. Chief Engineer (P), Department of Power, Govt. of Nagaland, Kohima - 797 001
6. Chief Engineer (P), Electricity Department, Govt. of Manipur, Keishampat, Imphal - 795 001
7. Chief Engineer (P&E), Department of Power, Govt. of Mizoram, Aizawl - 796 001
8. General Manager, TSECL, Agartala - 799 001
9. GM, NERLDC, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
10. ED (O&M), NERTS, PGCIL, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
11. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
12. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
13. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
14. ED (Commercial), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
15. Vice President, PTCIL, 2<sup>nd</sup> Floor, NBCC Tower, 15, Bhikaji Cama Place, New Delhi
16. AGM(BD), NVVN, Core5, 3<sup>rd</sup> Floor, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi
17. Member Secretary, ERPC, 14 Golf Club Road, Tollygunge, Kolkata-700033
18. Chief Engineer, GM Division, Central Electricity Authority, New Delhi - 110016

Sir,

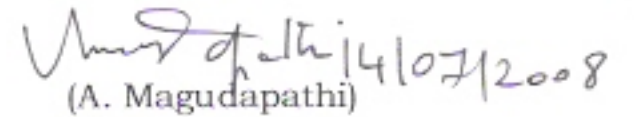
Sub: Minutes of the 28<sup>th</sup> OCC Meeting held on 09/07/2008 at Shillong.

The Minutes of the 28<sup>th</sup> OCC Meeting of NERPC will be held on 09<sup>th</sup> July, 2008 at "NERPC Conference Hall" Shillong, is enclosed for favour of kind information and further necessary action please.

The 28<sup>th</sup> OCC Minutes can also be downloaded from NERPC website [www.nerpc.nic.in](http://www.nerpc.nic.in)

Encl: As above

भवदीय / Yours faithfully,

  
(A. Magudapathi)

सदस्य सचिव / Member Secretary

Copy to:

1. SA to Member(GO&D), CEA, Sewa Bhawan, R.K. Puram, New Delhi - 110066
2. Chief Engineer, AEGCL, Bijuli Bhavan, Guwahati - 781001
3. Chief Engineer, APGCL, Bijuli Bhavan, Guwahati - 781001
4. MD, CA DISCOM, Bijuli Bhavan, Guwahati - 781001
5. MD, UA DISCOM, Bijuli Bhavan, Guwahati - 781001
6. MD, LA DISCOM, Bijuli Bhavan, Guwahati - 781001
7. CGM (LDC), SLDC Complex, AEGCL, Kahelipara, Guwahati-781019.
8. S.E. (Trans. & Dist), MeSEB Lumjingshai, Short Round Road, Shillong - 793 001
9. Head of SLDC, MeSEB, Lumjingshai, Short Round Road, Shillong - 793 001
10. Head of SLDC, Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
11. A.C.E. (Gen & Trans), Department of Power, Govt. of Nagaland, Kohima - 797 001
12. Head of SLDC, Department of Power, Dimapur, Nagaland
13. A.C.E. (Power-I), Electricity Department, Govt. of Manipur, Keishampat, Imphal - 795 001
14. Head of SLDC, Electricity Department, Govt. of Manipur, Keishampat, Imphal - 795 001
15. S.E. (Trans & Dist), Department of Power, Govt. of Mizoram, Aizawl - 796 001
16. Head of SLDC, Department of Power, Govt. of Mizoram, Aizawl - 796 001
17. Head of SLDC, TSECL, Agartala - 799 001
18. Chief Engineer(Elect), Loktak HEP, Vidhyut Vihar, Kom Keirap, Manipur- 795124

# North Eastern Regional Power Committee

## Minutes of 28<sup>th</sup> Operation Coordination Committee meeting

Date: 09/07/2008

Venue: Conference Hall, NERPC Shillong

Shri B. Lyngkhoi, Assistant Secretary, NERPC welcomed all the participants to the 28<sup>th</sup> OCC meeting. He informed the members that Shri A. Magudapathi, Member Secretary; NERPC was admitted in NEIGHRIMS hospital on 23<sup>rd</sup> June, 2008 due to heart ailment and he could not attend the meeting. He requested the members to remember him in prayers for his speedy recovery. He expressed his appreciation to Member Secretary that in spite of the doctor's advise to take one month rest he always remained active by monitoring the day to day activities of NERPC from his residence. He then requested Shri L.K.Kanungo, GM, NERLDC to chair the meeting.

GM, NERLDC welcomed all the participants in the 28<sup>th</sup> OCC meeting and invited the participants to deliberate on the agenda items so that the meeting could be fruitful.

Then the agenda items were taken up. List of participants is at Annexure-I.

### **1. Confirmation of the minutes of 27<sup>th</sup> Operation Coordination Committee meeting of NERPC held at Shillong.**

GM, NERLDC wanted certain amendments in the minutes vide letter No. NERLDC/GM dated 07.07.2008. The same was read out by Assistant Secretary and agreed by constituents except the Item No. 7 which could not be finalized due to non-participation by Tripura. With these modifications as enclosed at Annexure – V, the minutes were taken as confirmed as there were no comments or observations from any other constituent members.

### **2. Shutdown of GTG #3 of AGBPP from 14.07.2008 to 12.08.2008 for Hot Parts Inspection & Generation Overhauling – NEEPCO**

NEEPCO representatives informed that the Unit #3 of AGBPP is required to be inspected thoroughly so that the machine may generate efficiently during the lean hydro period.

After deliberation, it was agreed that shutdown of GTG # 3 of AGBPP was required and it may be availed accordingly from 13.07.2008 to 11.08.2008.

### **3. Generation planning – NERLDC.**

After deliberation, it was felt that generation of Loktak need be reduced to conserve water for lean hydro season since the reservoir level is low. In absence of NHPC representative, it was agreed that NHPC would be intimated about the decision by NERPC regarding the matter. Other generators may be scheduled as per their daily declared availability.

GM, NERLDC expressed concern about the present low water level of Barapani Lake as compared to last year and enquired from MeSEB representative about their generation planning in case the monsoon fails. He requested MeSEB to plan judiciously to avoid commercial implications.

MeSEB representative informed that they are looking into this matter and accordingly necessary steps will be taken.

#### **4. Outage planning for Generator & Transmission elements – NERLDC**

Refer to Annexure-II.

NEEPCO representative stated that shutdown of transmission lines of 132 KV Doyang – Dimapur Lines will affect their generation as Doyang HEP is running under full capacity.

GM, NERLDC enquired the loading capacity of 132 KV Doyang – Dimapur line.

AGM, NERTS informed that each circuit line can carry not more than 55 MW.

NEEPCO informed that Doyang – Mokokchung line & Doyang – Kohima line are out of service and this will hamper the generation of Doyang HEP in case shutdown of any 132 KV Doyang – Dimapur line. They requested NERPC to write to Department of Power, Nagaland to restore the above lines.

Assistant Secretary informed that they will write again to DOP, Nagaland and enquired about the status of these lines.

#### **5. Review of grid performance in the previous month:**

NERLDC presented the details regarding the performance of the grid for the month of June 2008 before taking up the agenda items.

Refer Annexure – III.

#### **6. Major grid disturbances in the previous month (June 2008):**

There was one minor grid disturbance which was discussed.

Refer Annexure – IV.

#### **7. Additional items:**

- 1) Referring to the inquiries raised by NEEPCO, Shri Lalrinsanga, E.E NERPC requested GM, NERLDC to explain the scheduling procedure followed for hydro stations as per the latest CERC order.

GM, NERLDC briefly explained that as per the latest CERC regulation, over/under generation in the 1<sup>st</sup> day is reflected in the schedule of the 4<sup>th</sup> day through a simple formula. Since the declared capacity of a station is, in general, not allowed for revision except under few defined contingencies, the schedule of the 4<sup>th</sup> day may therefore be more/less than the Declared Capacity of 4<sup>th</sup> day depending on actual generation of the station over its schedule generation in the 1<sup>st</sup> day.

The underlying concept is; if a station/generator earns UI by over generating in the 1<sup>st</sup> day, it has to return back UI on the 4<sup>th</sup> day as its schedule will be jacked up by quantum of excess generation on the 1<sup>st</sup> day over its DC on 4<sup>th</sup> day. He advised NEEPCO to monitor the actual generation accordingly.

- 2) There was a proposal from ASEB that elements like CTs, PTs, Circuit Breakers, Relays, etc of a specific brand and make may be procured on a common pool basis so that system availability could be improved through quick restoration by replacing the defective elements with healthy spares available in the common pool.

After deliberation it was felt that the OCC of NERPC is not the right forum to resolve such issues and this may be discussed in PCC meeting and its recommendations put up to RPC of NER for a decision.

Assistant Secretary, informed that as per the CBR of NERPC, PCC is scheduled to be held in every 3 (three) months. However if the members felt necessary to discuss the important issues, PCC meeting could be conducted along with OCC meeting.

- 3) Change of courses by rivers – POWERGRID.

As agreed in the 9<sup>th</sup> CCM, POWERGRID gave a presentation regarding change of courses by rivers. Photographs of such change of courses in few locations were depicted.

It was agreed that re-structuring of towers at such critical locations were essential and approval may be taken from the forthcoming RPC meeting to be held in the month of August 2008.

GM, NERLDC enquired from PGCIL the number of towers which are critical so that the replacement and approval can be taken up.

AGM, NERTS informed that at present only one tower (Loc No. 529) is critical and needs to be replaced immediately with Pile foundation structure. Other towers are under observation and if necessary they will intimate accordingly.

POWERGRID also depicted pictures of damaged transformer at Nirjuli Sub – station of PGCIL caused due to frequent trippings of 33 KV feeders of Arunachal Pradesh on fault. PGCIL informed that there may not be much difference in the cost of repairing and the cost of new transformer and hence proposed to buy a new transformer instead of repairing.

Members felt that this issue is pertaining to Arunachal Pradesh. PGCIL can take up the matter with them and in case of any replacement/repair; Arunachal Pradesh has to bear the expenditures, since the said transformer is utilized only by this State.

## **8. Date and venue of next OCC.**

The Date for the next OCC has been fixed on 05<sup>th</sup> August, 2008. The meeting will be held in the Conference Hall of NERPC, Shillong.

**LIST OF PARTICIPANTS IN THE 28<sup>th</sup> O.C.C MEETING OF NERPC**

S. N.	NAME OF PARTICIPANT	DESIGNATION
<b>ARUNACHAL PRADESH</b>		
1.		
<b>ASEB</b>		
1.	A.K. Saikia	Sr. Manager, SLDC
2.	H. Hazarika	DGM, LDC
<b>MANIPUR</b>		
1.	K.Jila Singh	E.E (E)
2.		
<b>MEGHALAYA</b>		
1.	T. Gidon	A.E.E, SLDC
<b>MIZORAM</b>		
1.	H. Zonunsanga	E.E, SLDC
2.	H. Lalnunsanga	A.E, SLDC
<b>NAGALAND</b>		
1.		
2.		
<b>TRIPURA</b>		
1.		
2.		
<b>NEEPCO</b>		
1.	H. K. Changmai	DGM
2.	Akhtar Hussain	DGM (E)
3.	Bhaskar Goswami	Sr. Manager (E)
4.	B. R. Bhattacharya	Manager
<b>NERLDC</b>		
1.	L.K.Kanungo	G. M
2.	Sh. T. S. Singh	DGM
3.	N.R. Paul	Chief Manager
4.	A. Mallick	Chief Manager
5.	S.K.Saha	Deputy Manager
<b>NERTS (PGCIL)</b>		
1.	A. Patir	AGM (O&M)
2.	Somiran Das	Deputy Manager (OS)
<b>NHPC</b>		
1.		
2.		
<b>Trading Companies</b>		
<b>NERPC</b>		
1.	B. Lyngkhoi	Assistant Secretary
2.	Lalrinsanga	E.E. (Coml.)
3.	S. M. Aimol	A.E.E
4.	G. Medhi	A. E

**Proposed Shut down Program of POWERGRID Elements for the month of July, 08**

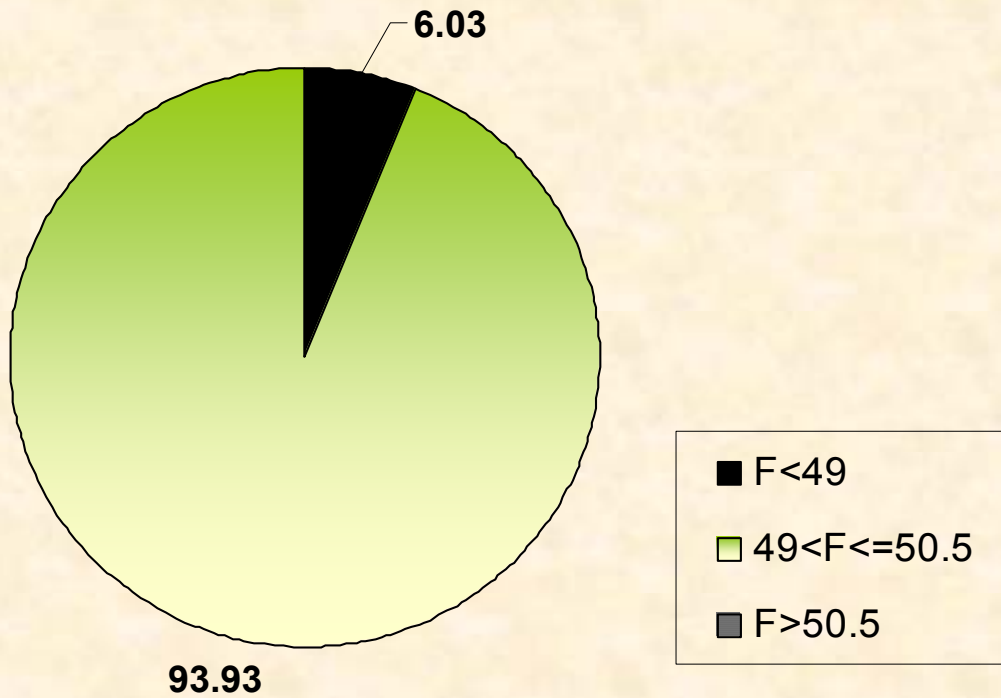
S/N	NAME OF T/L	S/D DATE	S/D TIME	PURPOSE	FEEDERS AFFECTED
1	132 KV Jiribam - Loktak II	17.07.08 & 18.07.08	08:00hrs to 16:00hrs	AMP	Jiribam - Loktak II
2	132 KV Jiribam - Aizawl	24.07.08 & 25.07.08			Jiribam - Aizawl
3	132 KV Khandong - Khliehriet - I	22.07.08			Khandong – Khliehriet -I
4	132 KV Badarpur - Kolasib	11.07.08			Badarpur - Kolasib
5*	132 KV Doyang - Dimapur - I	16.07.08			Doyang-Dimapur I
6*	132 KV Doyang - Dimapur - II	18.07.08			Doyang-Dimapur II
7	220 KV Kathalguri - Misa	22.07.08 & 23.07.08			Kathalguri - Misa

\* Sl. No 5 & 6 subject to availability

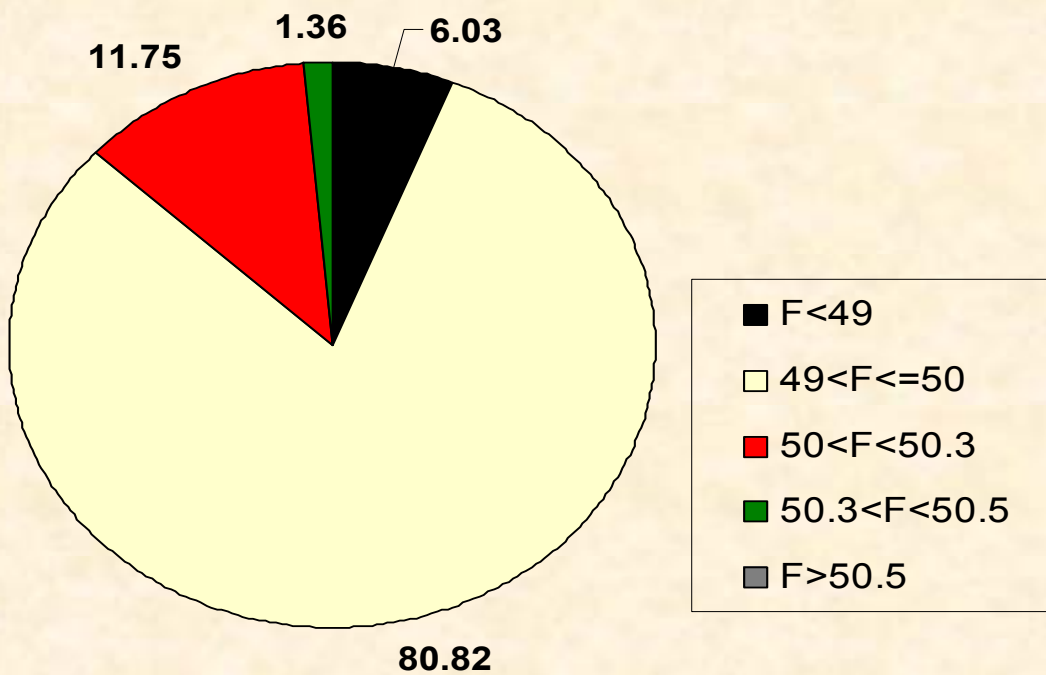
**S/D Program for POWERGRID sub-stations/Bays/ICTs/Reactors:-**

S/N	NAME OF SUB-STATION/BAYS/ICT/ REACTOR	S/D DATE	S/D TIME	PURPOSE	AREAS/FEEDERS AFFECTED
1	33kV, 25 MVAR Tertiary Reactor-IV bay at Misa	16.07.08	08:00hrs to 14:00hrs	AMP	Tertiary Reactor- IV

**Frequency Duration in IEGC ranges during  
01-06-2008 to 30-06-2008**

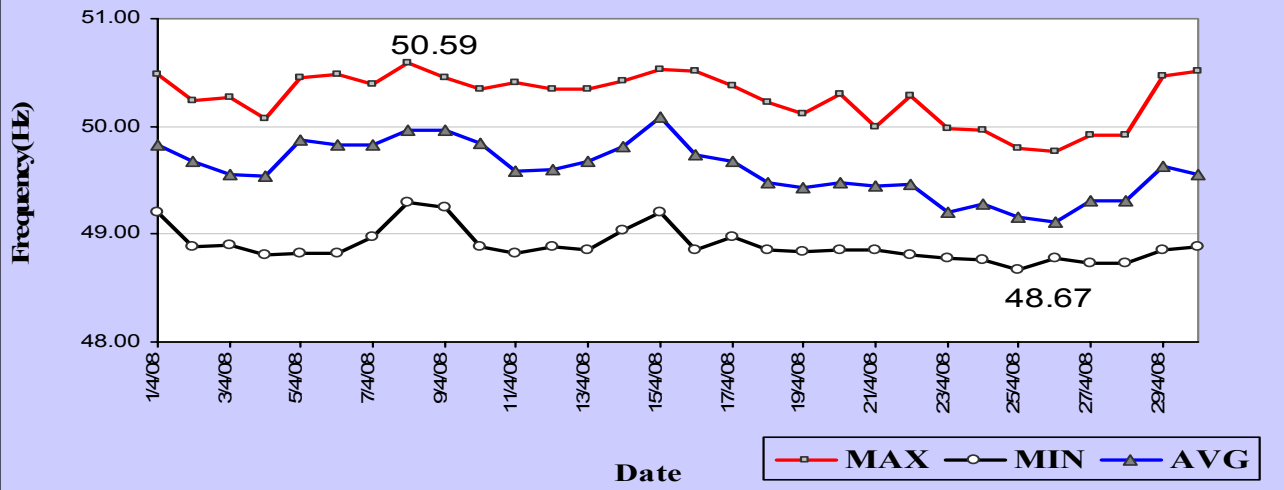


**Frequency Duration in relevant ranges during  
01-06-2008 to 30-06-2008**

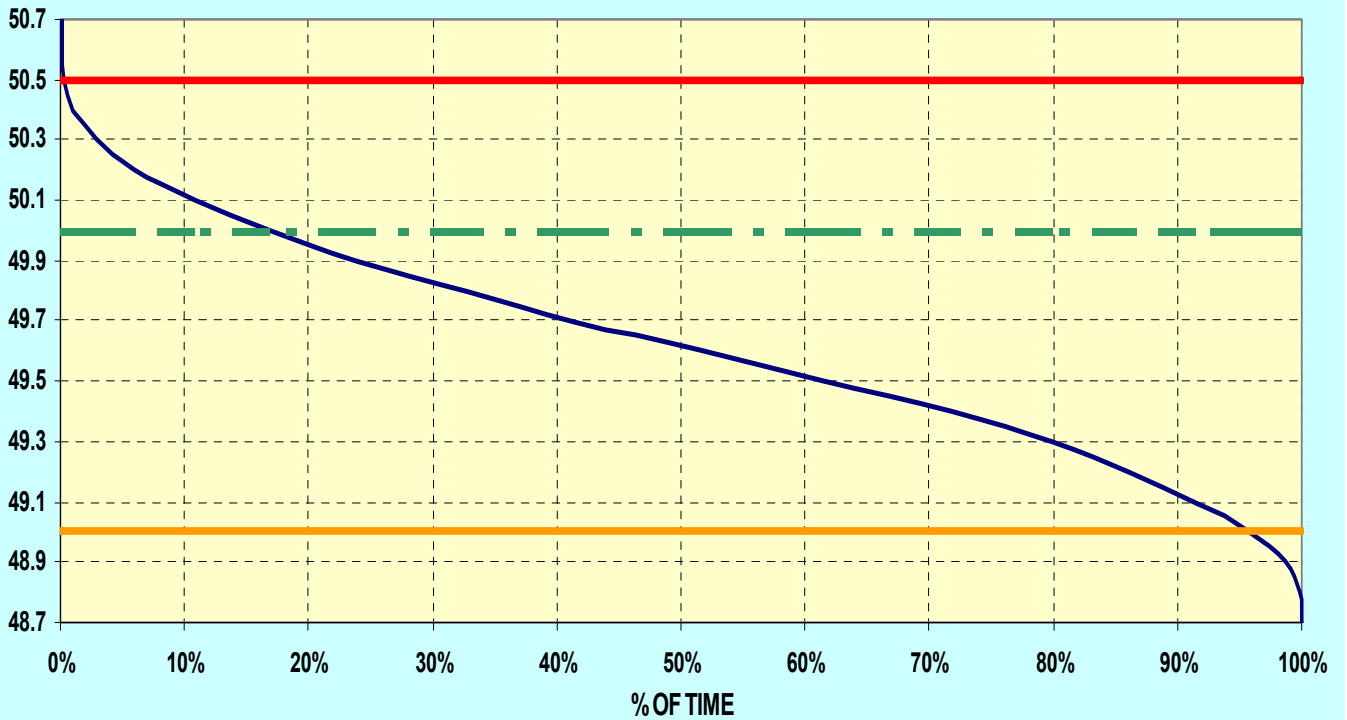


# Frequency Profile

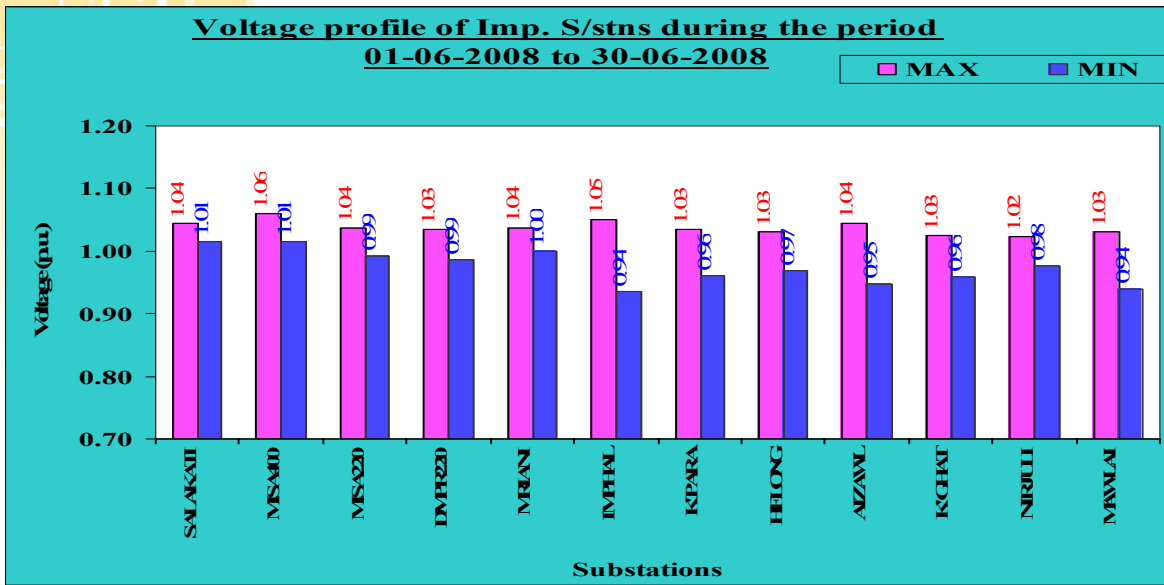
**Frequency profile during the period  
01-06-2008 to 30-06-2008**



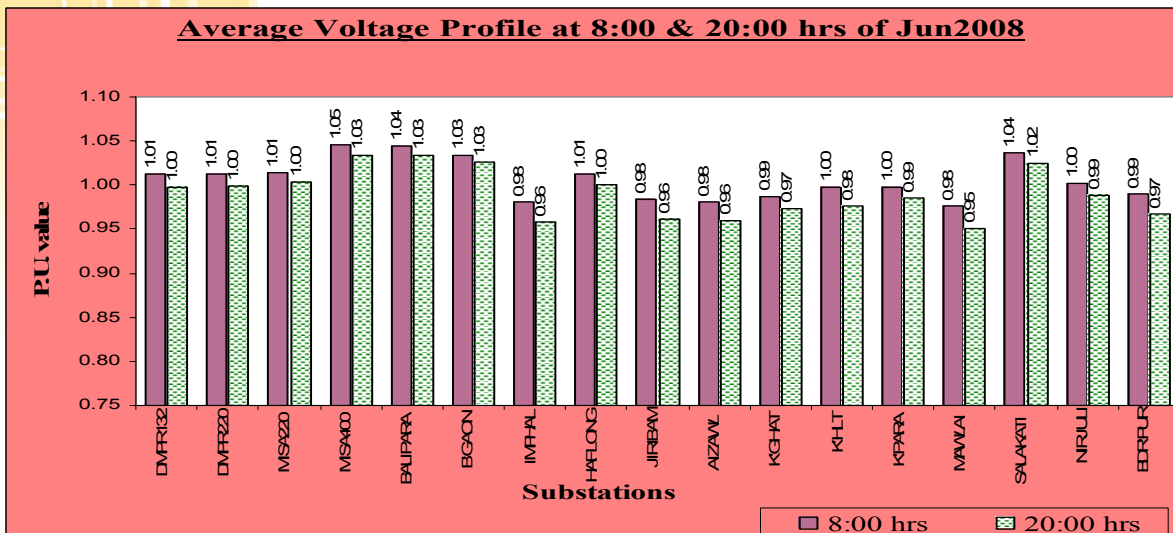
**FREQUENCY DURATION CURVE FOR JUNE'2008**



## Voltage Profile

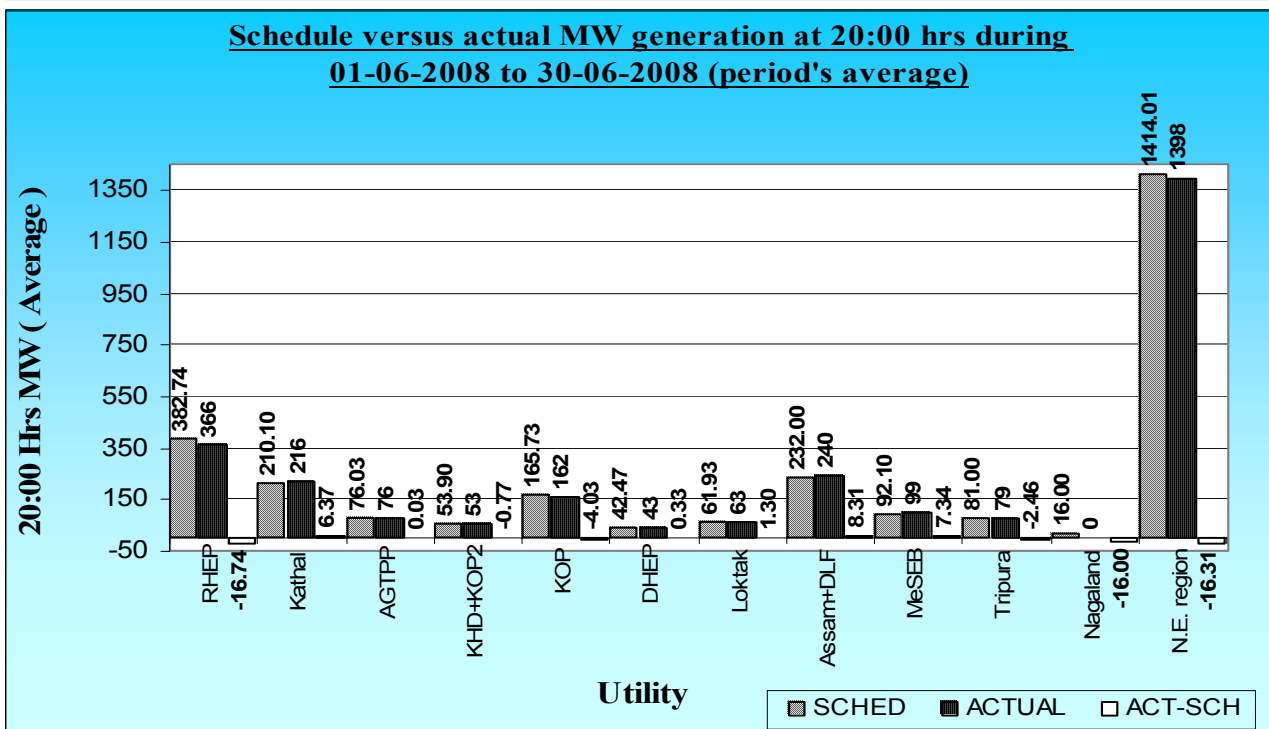
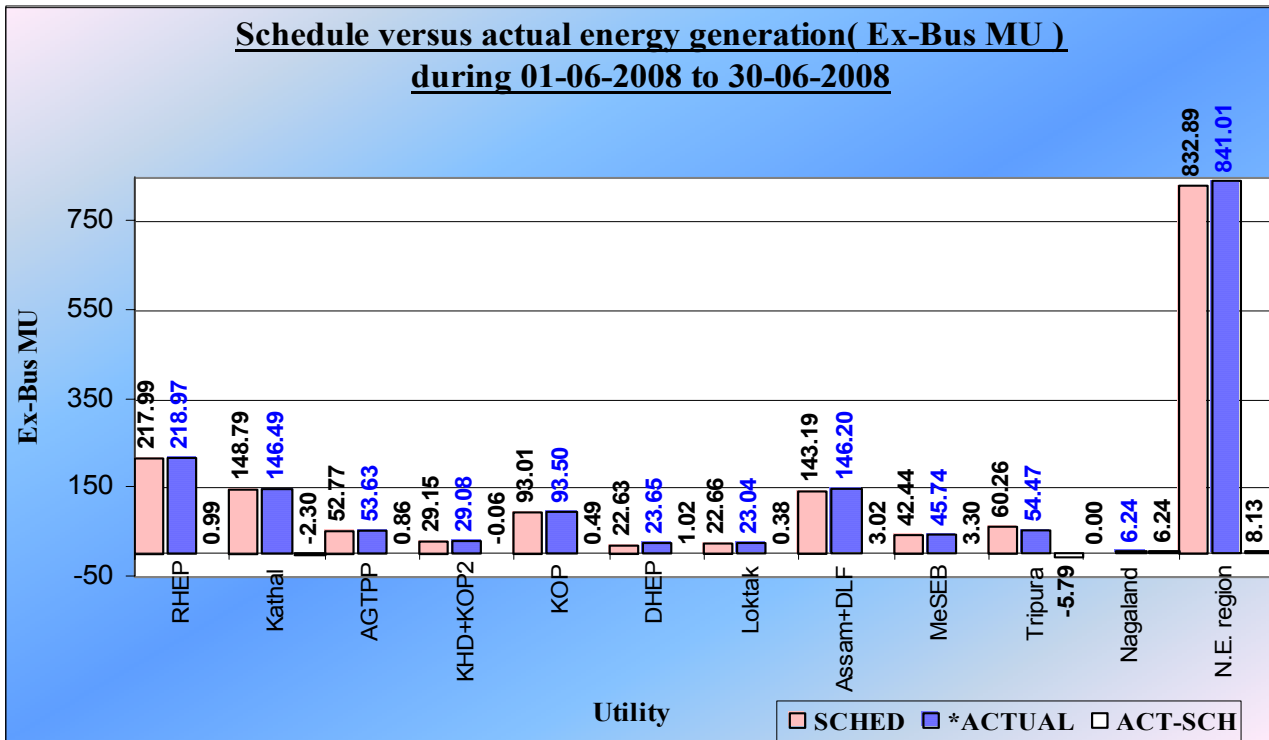


## Voltage Profile



### IEGC NORMS

SL NO.	SYSTEM VOLTAGE	KV	PU
1	400 KV	360KV - 420KV	0.9 - 1.05
2	220 KV	200KV - 245KV	0.9 - 1.11
3	132 KV	120KV - 145KV	0.9 - 1.09



Net Export to Eastern Region

Note: Schedule corresponds to 20-21 Hrs

	Schedule	Actual	Act-Sch
MU	49.87	137.94	88.07
MW, 20:00	22.55	70.17	47.62
Average			

VIOLATION BY GENERATORS NOT REPORTED

## NORTH EASTERN REGIONAL LOAD DESPATCH CENTRE GRID INCIDENCE REPORT

**TO: ED (SO), NEW DELHI**

Copy to: 1. Member Secretary, NERPC;  
2. NPSD, New Delhi;  
3. S/I SLDC Kahilipara/NEHU/Agartala/Imphal/Dimapur/Aizwal/Itanagar

DATE OF OCCURANCE	05	06	2008	TIME OF OCCURANCE	12	09
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**(A) PRE-FAULT CONDITION:**

SYSTEM FREQUENCY	49.97	Hz	NER EXPORT	229	MW
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**GENERATION (MW) PRIOR TO INCIDENCE**

TRIPURA	80	KHANDONG	36	KOPILI	98
ASEB	255	RCNAGAR	76	LOKTAK	4
MeSEB	43	K'GURI	205	DOYANG	0
NAGALAND	-	RANGANADI	390	KOPILI STG # II	0

**MAJOR LINE/MACHINE OUTAGE / OPEN**

SL NO	NAME OF THE LINE/MACHINE	REMARKS
1	132 kV LOKTAK - JIRIBAM I	FAULTY SINCE 0801 HRS ON 28.10.2002
2	132 kV PANCHGRAM - PAILAPOOL	FAULTY SINCE 1655 HRS ON 5.10.2000.
4	400 kV BALIPARA - RHEP-I	OPEN SINCE 1959 HRS ON 07.05.08 (NOT CHARGED DUE TO O/V).
5	400 kV BONGAIGAON - NEW SILIGURI I	TRIPPED AT 2340 ON 02.06.08
6	400KV BALIPARA-MISA-II	OPEN SINCE 2353 HRS ON 30.05.08 (H/T ON O/V)
8	132 kV KARONG - KOHIMA	FAULTY SINCE 0330 HRS ON 14.04.08
9	132 KV MARIANI - MOKOKCHUNG	Faulty since 1512 Hrs on 12.03.08
10	220KV MISA-MARIANI	OPEN SINCE 2351 ON 04.06.08 (NOT CHARGED DUE TO O/V)
11	220KV MISA-DIMAPUR-II	OPEN SINCE 0301 ON 05.06.08 (NOT CHARGED DUE TO O/V)
12	220KV MISA-KOPILI-II	OPEN SINCE 0303 ON 05.06.08 (NOT CHARGED DUE TO O/V)

**DESCRIPTION OF INCIDENCE:**

NER SYSTEM WAS RUNNING IN SYNCHRONISATION WITH THE NEW GRID THROUGH 400 kV BONGAIGAON - NEW SILIGURI II & 220 kV BIRPARA - SALAKATI D/C LINES (.)

AT 1209 HRS 400KV PURNIA-BINAGURI CIRCUIT I&III TRIPPED ALONG WITH SOME OTHER LINES OF ER SYSTEM (.) THESE CAUSED SEPARATION OF NER WITH PART OF ER FROM MAIN GRID(ER-WR-NR) (.) ISOLATED ER-NER GRID FREQUENCY SHOOT UPTO 51.71 HZ CAUSING TRIPPING OF RANGANADI, KATHALGURI, KHANDONG, LOKTAK, R.C.NAGAR (UNIT-IV) GENERATION ON HIGH FREQUENCY (.) 132KV DIMAPUR-IMPHAL LINE TRIPPED ON POWER SWING AND 132KV KHANDONG - KOPILI LINE & 132KV STAGE-I- MAWLAI ( 132KV STAGE-I-NEHU WAS UNDER SHUT DOWN) TRIPPED ON O/L (.)THESE RESULTED INTO ISOLATION OF 132KV POCKET FROM THE MAIN GRID & POWER INTERRUPTION OCCURRED IN MIZORAM, MANIPUR, PART OF MEGHALAYA & SOUTH ASSAM DUE TO LOAD - GENERATION MISMATCH (.) R C NAGAR GENERATION SURVIVED WITH TRIPURA SYSTEM (.)AT 1209 HRS 400KV BALIPARA-RANGANADI-I ALSO TRIPPED ON OVER VOLTAGE RESULTING IN POWER INTREPUTION IN ARUNACHAL PRADESH (.)

SYSTEM PROGRESSIVELY RESTORED AT 1308 HRS (.)

ISOLATED ER-NER SYSTEM WAS SYNCHRONISED WITH MAIN GRID AT 1338 HRS THROUGH 220 KV SILIGURI-BINAGURI-II LINE.

**(C) STATES AFFECTED :**

**(D) POWER STATIONS AFFECTED( GENERATION LOSS )**

STATE	AFFECTED	POWER STATION	GENERATION LOSS	POWER STATION	GENERATION LOSS
AR.PRADESH	FULL	KATHALGURI	FULL	LOKTAK	4 MW
ASSAM	SOUTH ASSAM	R.C. NAGAR	20 MW	DOYANG	NIL
MANIPUR	FULL	KOPILI	NIL	MeSEB	NIL
MEGHALAYA	PARTIAL	KHANDONG	36 MW	KOPILI STAGE # II	NIL
MIZORAM	FULL	ASEB	100 MW	NAGALAND	NIL
NAGALAND	NIL	RANGANADI	FULL		
TRIPURA	ISOLATED	TRIPURA	80 MW		

LETTER FROM GM,NERLDC

**POWER GRID CORPORATION OF INDIA LTD  
NORTH EASTERN REGIONAL LOAD DESPATCH CENTRE  
LAPALANG ; SHILLONG -793006**

Ref : NERLDC/ GM /

Dt. 07.07.2008

To

Member Secretary  
NERPC, SHILLONG.

Sub : Minutes of the 27<sup>th</sup> OCC meeting held on 11.06.08 at Shillong

Sir,

Kindly refer to your letter no.123/2/NERPC/OCC/2008/1631-66 dt.26.06.08 enclosing therewith Minutes of the 27<sup>th</sup> OCC meeting of NERPC held on 11.06.08 at Shillong. The minutes needs changes for the items as indicated below:

**Item No.3 Reconsideration of conversion of line reactor into bus reactor at Ranganadi end.**

Para-5 may be modified as under:

“ NEEPCO replied that NERLDC requested 7 to 8 times for operation within a span of one week. NERLDC clarified that against above requests, operation was actually carried out once only. ....”

**Item No.7 The combined loading of 132kV Kumarghat-Aizawl & 132kV Kumarghat – Badarpur restricted to a specific quantum of load.**

Entire noting may be modified as under:

“ GM, NERLDC requested Tripura representatives to explain the issues involved. Tripura informed that on certain occasions, during off-peak hours, NERLDC requested Tripura to restrict their injection to the grid for maintaining combined loading of around 80 MW on the above lines . They also stated that on certain instances during off-peak hours Tripura have some surplus power due to low demand. In such occasions injection of surplus power to grid is sometimes restricted by NERLDC upto a certain limit.

NERLDC informed that the restriction is imposed by NERLDC on very few occasions for maintaining grid security & reliability for overall interest of the system. However, whenever margin is available Tripura is allowed to inject.

GM, NERLDC emphasised on system security and reliability issues and requested all concerned to follow grid discipline. He also stated that in the event of persistent violation of grid security and non-compliance of NERLDC instructions by the defaulting constituent, CERC may have to be approached if matter is not resolved in NERPC forum.”

**Item no. 10 Outage Planning**

Para 2 of this Point may be deleted.

It is requested that the above modifications may please be incorporated in the Minutes of Meeting.

Thanking you.

Yours faithfully



( L.K.Kanungo )  
General Manager  
NERLDC, Shillong