



Government of India
Ministry of Power
North Eastern Regional Power Committee
Meghalaya State Housing Finance Co-Operative Society Ltd.
Building
Nongrim Hills, Shillong – 793003.



(आई.एस.ओ.: 9001.2000)

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No. NERPC/AS/OCC/2010/3178-210

Date: 18th January, 2011

To,

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Director (Distribution), Me. ECL, Lumjingshai, Short Round Road, Shillong – 793 001
3. CGM, (LDC), SLDC Complex, AEGCL, Kahelipara, Guwahati-781 019
4. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
5. Chief Engineer (EE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
6. Engineer-in-Chief (P&E), Department of Power, Govt. of Mizoram, Aizawl – 796 001
7. Chief Engineer (P), Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
8. Chief Engineer (P), Department of Power, Govt. of Nagaland, Kohima – 797 001
9. General Manager, TSECL, Agartala – 799 001
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. AGM, NERLDC, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
16. Member Secretary, ERPC, 14 Golf Club Road, Tollygunge, Kolkata-700033
17. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066

Sub: Minutes of the 58th OCC Meeting held on 10th January, 2011 at Shillong.

The Minutes of the 58th OCC Meeting of NERPC held on 10.01.2011 at "NERTS Conference Hall", Shillong is enclosed for favour of kind information and necessary action please.

The minutes is also available on the website of NERPC www.nerpc.nic.in

Encl: As above

Yours faithfully,

(P.D. Siwal)

Superintending Engineer (O)

Copy to:

1. Chief Engineer, AEGCL, Bijuli Bhavan, Guwahati - 781001
2. Chief Engineer, APGCL, Bijuli Bhavan, Guwahati - 781001
3. MD, CA DISCOM, Bijuli Bhavan, Guwahati - 781001
4. MD, UA DISCOM, Bijuli Bhavan, Guwahati - 781001
5. MD, LA DISCOM, Bijuli Bhavan, Guwahati - 781001
6. S.E. (Trans. & Dist), MeSEB Lumjingshai, Short Round Road, Shillong – 793 001
7. Head of SLDC, MeSEB, Lumjingshai, Short Round Road, Shillong – 793 001
8. Head of SLDC, Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
9. A.C.E. (Gen & Trans), Department of Power, Govt. of Nagaland, Kohima – 797 001
10. Head of SLDC, Department of Power, Dimapur, Nagaland
11. A.C.E. (Power-I), Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
12. Head of SLDC, Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
13. S.E. (Trans & Dist), Department of Power, Govt. of Mizoram, Aizawl – 796 001
14. Head of SLDC, Department of Power, Govt. of Mizoram, Aizawl – 796 001
15. Head of SLDC, TSECL, Agartala – 799 001
16. Chief Engineer(Elect), Loktak HEP, Vidyt Vihar, Kom Keirap, Manipur- 795124

North Eastern Regional Power Committee

MINUTES OF THE 58th

OPERATION COORDINATION SUB-COMMITTEE MEETING OF NERPC

Date: 10/01/2011 (Monday)

Time: 10:30 hrs

Venue: "NERTS Conference Hall," Shillong.

The List of Participants in the 58th OCC Meeting is attached at **Annexure - I**

Shri P.D. Siwal, Member Secretary I/C, NERPC welcomed all the participants of the 58th OCC. He briefed about the grid performance during the month of December, 2010. He stated that the power position till the month of December, 2010 is still comfortable. He also requested all the participants to actively participate in the discussion for fruitful outcome of the meeting.

He then requested Shri B. Lyngkhoi, Assistant Secretary, NERPC to take up the agenda for discussion.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 57th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

AS, NERPC mentioned that the minutes of the 57th meeting of the OCC held on 10th December, 2010 at Shillong were circulated to all the concerned, vide letter no. NERPC/AS/OCC/2010/2572 – 604, dated 20th December, 2010. He informed that NERLDC vide letter No: NERLDC/GM/348 dated 06.01.2011 has given their observation on **Items No. D.1** of the Minutes to be modified as below:

Item D.1: NERLDC in their letter above dated 06.01.2011 has requested that the last para on D.1 may be read as "Member Secretary told that the matter should be raised in forth coming NERPC meeting.

Hence, the last sentence which goes as “**MS requested NERLDC to bring this issue as an agenda item in the forth coming NERPC meetings**” may please be deleted from Minutes.

As no other comments were received from any of the constituents, the minutes of the 57th OCC Meeting were confirmed with the above modification.

AS, NERPC requested NERLDC to give their presentation about the grid performance during the month of December, 2010.

I T E M S F O R D I S C U S S I O N

B. 10 OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING Dec' 10

The grid performance parameters for the month of December, 2010 as presented by NERLDC during the meeting are given below:

- i) **Average frequency** during December, 2010 was 49.92 Hz, as compared to 50.00 Hz in November, 2010.
- ii) **Minimum frequency** in December, 2010 was 48.94 Hz (27.12.10 at 9:12 hrs) compared to 49.12 Hz in the previous month.
- iii) **Maximum frequency** was 50.68 Hz (20.12.10 at 3:09 hrs), as compared to 50.72 Hz in November, 2010.
- iv) **System frequency** remained within permissible range of 49.5 Hz to 50.2 Hz for 88.63 % of the time, below 49.5 Hz for 1.93 % and above 50.2 Hz for 9.44 % of the time as compared to 86.91 %, 0.44 % and 12.65 % of the time respectively in the previous month.
- v) **Regional peak** demand in December, 2010 was 1676 MW as compared to 1797 MW in November, 2010 a decrease of 6.72 % over the previous month.
- vi) **Energy requirement** was 812.78 MUs in December, 2010 compared to 818.31 MUs in November, 2010 a decrease of 0.68 % over the previous month.
- vii) **Regional energy availability** in December, 2010 was 767.84 MUs compared to 771.71 MUs in the previous month, a decrease of 0.5 % over the previous month.
- viii) **Rise in demand met** was recorded in Nagaland (20.88%), Mizoram (14.75%), Ar. Pradesh (10.39%), Meghalaya (4.65%) & Manipur (1.96%) over the previous month.

- ix) **Drop in demand met** was recorded in Assam (8.8%) & Tripura (3.78%) over the previous month viz. November, 2010.
- x) **Over Voltages** at 400 kV substations were observed at Misa, Bongaigaon and Balipara where maximum voltage observed were 432 kV, 423 kV and 427 kV respectively.
- xi) **No over Voltages** were observed at 220 kV S/S and 132 kV S/S.
- xii) **Under Voltages** at 132 kV Substations at Aizawl and Kheliehriat recorded a minimum voltage of 121 kV and 122 kV respectively.
- xiii) **Regional Generation & Inter-regional Exchanges:** During the month of December, 2010 compared to November, 2010 are given below:

SN	Parameter	December, 2010	November, 2010
REGIONAL GENERATION & INTER - REGIONAL EXCHANGES (in MU)			
1	Total Generation in NER (Gross)	686.484	600.448
2	Total Central Sector Generation in NER (Gross)	436.098	362.380
3	Inter-Regional Energy Exchanges		
	(a) NER - ER	3.98	0.00
	(b) ER - NER	94.67	168.73
	(c) Net import	90.69	168.73

Detail of various parameters indicating grid performance, during the month of December, 2010, are enclosed at **Annexure-II.**

The Sub-committee noted as above.

FOLLOW UP ACTION

C. 1. Non-functioning of SCADA in Arunachal Pradesh state

CM, PGCIL informed that 2 (two) nos. of additional modems are required to be procured by Ar. Pradesh for making the link operational.

Member Secretary I/C, requested Ar. Pradesh to procure the additional 2 modems so that the link could be restored at the earliest. Ar. Pradesh agreed.

The Sub-committee noted as above.

C. 2 Status of 132 KV Kopili – Khandong 2nd Ckt.

CM, PGCIL informed that the 1st stage forest clearance has already been obtained from Govt. of Assam and the same has been forwarded to Regional MOEF, Shillong. The final forest clearance is expected very soon.

Member Secretary I/C requested POWERGRID to pursue the matter rigorously with MOEF, Shillong for getting the final clearance. Status of final clearance once obtained should be intimated to NERPC at the earliest.

The sub-Committee noted as above.

C. 3 Installation of Line Reactor at Kathalguri end of Misa – Kathalguri line:

CM, POWERGRID informed that the cost estimate has been finalized and the same would be communicated to NEEPCO soon.

The Sub-committee noted as above.

C. 4 Installation of bay equipments in 132 KV Naharlagun S/S of Dept. of Power, Govt. of Arunachal Pradesh:

EE, Ar. Pradesh informed that installation of bay equipments have been completed in all respects.

The Forum appreciated Dept. of Power, Govt. of Ar. Pradesh on completion of above work.

The Sub-committee noted as above.

C. 5 Revival of 132 KV P.K. Bari- Dullavcherra - Panchgram link between Assam & Tripura:

Since no representative from Tripura was present during the meeting the status could not be updated.

The Sub-committee noted as above.

C. 6 Outage Planning for the Financial Year 2011 - 12:

The Outage Planning for the Financial Year 2011 – 12 received from the constituents has been compiled by NERPC and the same has been communicated to NERLDC and NLDC. Copy of the same is enclosed at **Annexure – C.6**

The Sub-committee approved and finalized the data as above.

C. 7 Restoration of Carrier tripping relay at Ranganadi end:

CM, POWERGRID informed that they have deputed the engineer to Ranganadi as requested by NEEPCO during the 57th OCC meeting and they have completed the work. However some internal wiring NEEPCO has requested to do it on their own.

Sr. Manager, NEEPCO informed that the internal wiring would be carried out by them and the status would be intimated in the next OCC meeting.

The Sub-committee noted as above.

C. 8 Special Protection Scheme for N.E. Region:

AGM, NERLDC informed that after commissioning of 2nd ckt of 132 KV Kopili – Khandong line the scheme has to be modified. NERLDC has also gave a presentation on the modified scheme wherein it is proposed to open 132 kV Loktak- Ningthoukhong feeder with the tripping of 132 kV Dimapur – Imphal line. AGM, NERLDC stated that for this consent of NHPC, Loktak & Manipur are required. He further requested POWERGRID to check the feasibility of of the scheme and availability of PLCC link & other requirements and give the feasibility report and estimate as proposed in this new scheme.

Member Secretary I/C told that this issue will be put up in agenda in the forth coming NERPC meeting.

The Sub-committee noted as above.

C. 9 Transfer facility in Bus Bar arrangement:

Sr. Manager, NEEPCO intimated that transfer bus facility is operational at Doyang. However, the same facility is not feasible at Kathalguri due to space constraint and the report of joint inspection between PGCIL & NEEPCO is enclosed at **Annexure – C. 9**. Further, the facility of bus transfer at Ranganadi has to be examined whether space is available or not and the same would be intimated.

CGM, LD&C, Assam informed that equipments for Samaguri & Mariani have already been placed for order and the work would be started soon. The progress of the work would be intimated in OCC meeting.

AGM, NERLDC enquired from NEEPCO about the transfer capability at Khandong switchyard.

Sr. Manager agreed to furnish the above information and the same would be intimated later confirming from site engineer.

The Sub-committee noted as above.

D. NEW ITEMS

D. 1 Online submission of Daily Generation Report/Monthly Operation Report by the generating station (s) - NERPC

AS, NERPC informed that OPM Division of CEA vide letter dated 27.12.2010 has intimated that they have brought out the Daily Generation Report (DGR) of the previous day(s) on the current date by 1600 hrs or on the very next working day. The data centre which has been set up in CEA aims at centralized collection of data to ensure uniformity, reliability and better accessibility of the data/report. The IMS system also provides the feature of direct data submission by the external user(s) who have given the user-ID and the password. The project has been completed and is now stable. As desired by Member (GO&D), CEA, all the generation station(s) have to submit the data online in the prescribed proforma as given in **Annexure D.1(i)**. He also informed that the contact nos. and details of CEA officers are also enclosed at **Annexure D.1(ii)**.

Member Secretary I/C requested all the constituents to furnish the names & contact details of Nodal officers to OPM Division of CEA within 15 days with a copy to NERPC Secretariat.

The Sub-committee noted as above.

D. 2 Multiple problems with new L&T meter & software (VINPLUS) - NERLDC:

NERLDC intimated that L&T personnel visited NER in the second week of December, 2010 for commissioning of new L&T meters & VINPLUS software (VINPLUS software is required as existing VINCOM software is not compatible with

new L&T meters). The activity was carried out in Khliehriat, Halflong, Jiribam, Aizawl & Badarpur S/S of POWERGRID; Dullavcherra, Panchgram & Pailapool S/S of ASEB and Lumshnong S/S of Me.ECL. The said software was also installed in a PC at NERLDC (can be operated with administrator login only). They informed that there are numerous problems with meter reading & data processing. Some of these are listed below:

a). The raw meter data file received from sites in *.MDT format is not getting converted to text format (*.NPC) in NERLDC PC. Sites are converting *.MDT to text file and text file is being e-mailed to NERLDC which is not proper procedure and there is possibility of data tampering.

b). Some locations are also facing difficulty in converting the *.MDT file to text file.

c). DCD to meter communication is failing in some locations.

Further DCDs in many locations like Kahelipara, Agartala & Aizawl are not in good shape and also meters in many locations have completed 10 years, replacement of SEMs & DCDs are required to be carried out urgently.

AGM, NERLDC stated that SEM data in coded format should be readable at NERLDC for processing as well as security which is of utmost important since it is related to commercial issues. He requested POWERGRID to rectify the problem at the earliest.

Member Secretary I/C stated that the Sub-committee has instructed POWERGRID to procure the compatible meters and thoroughly check the meters before installing them at site.

CM, POWERGRID informed that in some location the meters are functioning well but in some places the problem may be due to PC compatibility. He however assured that they will look into the matter and rectify the problem at the earliest.

The Sub-committee noted as above.

D. 3 State-wise anticipated peak demand/requirement, shortage for January February & March, 2011.

The sub-Committee reviewed the anticipated “peak demand availability” and finalized the same for the months of January, February & March 2011.

January, 2011

February, 2011

March, 2011

Sl. No.	State	Peak Demand (MW)	Peak Availability (MW)	Peak Demand (MW)	Peak Availability (MW)	Peak Demand (MW)	Peak Availability (MW)
1	Ar. Pradesh	90	85	90	80	95	70
2	Assam	950	825	900	800	925	750
3	Manipur	105	95	95	85	100	80
4	Meghalaya	260	220	230	200	240	190
5	Mizoram	65	55	65	50	70	50
6	Nagaland	100	90	95	85	100	80
7	Tripura	185	160	170	140	175	140
	Region	1755	1530	1645	1440	1705	1360

***The availability of above States is subjected to the instruction of NERLDC.**

The Sub-committee noted as above.

D. 4 Generation Planning (ongoing and planned outages)

Sr. Manager, NEEPCO informed that the Unit No. #3 which was already under shutdown would remain under shutdown till March, 2011 for APM work.

The Sub-committee approved the proposal of NEEPCO.

Sr. Manager, Assam requested that the anticipated hourly monthly generation data for the coming year should be furnished to constituents to enable them to plan the demand as the same practice has been done in the past OCC meetings.

DGM, NERLDC stated that above information would be made available, however, the data should be treated as anticipated only for demand planning and not as final.

The Sub-committee noted as above.

D. 5 Outage Planning Transmission elements

The Sub-committee **discussed and approved** the programme of transmission line outages for January, 2011 as proposed by PGCIL, NEEPCO & Me. ECL. The same is enclosed at **Annexure D. 5.**

D. 6 Estimated Transmission Availability Certificate (TAC) for the month of November, 2010.

The Final TAC certified by NERPC for the month of November, 2010 has not been issued since the data is yet to receive from POWERGRID.

The Estimated Transmission/System Availability for the month of December, 2010 furnished by PGCIL is **99.8842 %** as per details at **Annexure D. 6 (Copy of the same is also available at NERPC website)**. NER constituents are requested to kindly give their comments and observations, if any, by 27th January, 2011 so that Final TAC for the month of December, 2010 can be issued.

The sub-Committee noted as above.

D. 7 Major grid disturbances in the previous month (December, 2010)

There was no major grid disturbance during the month of December, 2010.

The Sub-Committee noted as above.

D. 11 Any other item

i). **RGMO**: AGM, NERLDC informed that droop setting, governor setting details etc. has to be furnished to NLDC at the earliest by all generating hydro stations having a unit capacity of 10 MW and above. He requested the generators of Ranganadi, Loktak, Langpi & Umiam stage – IV to review the data & cross check before submitting to NERLDC since the same will be sent to CERC.

Sr. Manager, NEEPCO requested NERLDC to furnish the required parameters relating to this so that necessary action can be taken at the earliest. NERLDC agreed.

The sub-Committee noted as above.

ii). Details of tap position of Transformers: AGM, NERLDC informed that the details of tap position of transformers of respective organization have to be furnished to NLDC to monitor and control the voltage. The name of station, organization, and tap position to be furnished by respective organization in prescribed format as enclosed at **Annexure D.8 (ii)**.

Member Secretary I/C requested all the organizations to furnish the data at the earliest.

The sub-Committee noted as above.

iii). Pilot Project on PMU: AGM NERLDC informed that panel of experts on implementing strategy for Smart Grid Technology at Corporate Centre, POWERGRID have decided that each of the regions should have direct access to the necessary PMU data located in other regions to have feedback of system status of other regions. Accordingly, it is proposed to install two PMUs in each region in NEW grid i.e. NR, ER, WR & NER under pilot project. Therefore, it is proposed to install 2 numbers PMUs at important locations in other regions in addition to 6 numbers of PMUs at strategic locations of NER and data shall be brought by using fiber optic links to the control centre. At NERLDC, certain minimal hardware & software shall be provided to use this data for situational awareness and dynamic monitoring. The estimated cost of implementation of this pilot project in NER is approximately Rs. 1.5 Crores.

MS I/C advised to raise the issue in forthcoming RPC Meeting

iv). SLD: DGM, NERLDC informed that Updating of single line diagram, by Constituents, under their control area is required for revising the restoration procedure of NER. He stated that based on the available records they have prepared the SLD's of the Constituents and the same is enclosed at **Annexure D. IV**. He requested all the constituents to give their comments and additions if any so that the same could be finalized.

Member Secretary I/C requested all the constituents to comply the above modification in SLD in their respective states at the earliest.

The sub-Committee noted as above.

v). **Strengthening of Jumpers in the 132 KV Dimapur – Imphal Line:** CM, POWERGRID informed that during shortfall of generation in South Assam pocket owing to isolation of R.C. Nagar or Kopili HEP generation, the 132 KV Dimapur – Imphal ckt – II (maintained by PGCIL) gets overloaded and tripped resulting grid disturbance. In order to avoid such grid disturbance it is essential to load 132 KV Dimapur – Imphal line much beyond normal limit. For the said purpose higher rating of CT and double jumpering of the line is required to be provided. Though POWERGRID is procuring higher capacity CT cut, if the jumpers are not doubled the excess power cannot be evacuated.

Further, this line passes through difficult terrain having insurgency problems for which, in certain cases, the restoration following breakdown in this line takes considerable restoration time. Under such circumstances, additional double jumpers are essential for security and reliability of the NER grid.

In view of above, for benefit of the NER constituents, POWERGRID proposes to provide additional jumper for strengthening of the line. However, for execution of the job POWERGRID requested to consider the shutdown hours as deemed available.

CGM, Assam stated that the proposal by POWERGRID is appreciated, however, for deemed available during the shutdown of the work is not agreed to. Meghalaya representative also stated that since most of the constituents are not present it would be better to discuss again.

Member Secretary I/C advised that the issue may be discussed again in the next OCC meeting.

The sub-Committee noted as above.

D. 12 Date & Venue of next OCC meeting

It is proposed to hold the 59th OCC meeting of NERPC on 4th February, 2011 (Friday). The venue of meeting will be intimated in due course.

The meeting ended with a vote of thanks to the Chair.

List of Participants in the 58th OCC meeting held on 10/01/2011

Sl. No	Name & Designation	Organization	Contact No. /e-mail ID
1.	Sh. W. Rehman, EE, SLDC	Arunachal Pradesh	09436050735
2.	Sh. G. K. Das, CGM, LD&C	Assam	09435085129
3.	Sh. A.K. Saikia Sr. Mgr, LD&C	Assam	09864116176
4.	Sh. F.E. Kharshiing EE, SLDC,	Meghalaya	09863066960
5.	Sh. D.J. Lyngdoh, AEE, SLDC,	Meghalaya	03642550020
6.	No Representative	Mizoram	
7.	No Representative	Manipur	
8.	No Representative	Nagaland	
9.	No Representative	Tripura	
10.	Sh. T. S. Singh, AGM	NERLDC	09436302717
11.	Sh. N.R. Paul, DGM	NERLDC	09436302723
12.	Sh. S.K. Saha, CM	NERLDC	03642537470
13.	Sh Anupam Kumar, Sr. AE.	NERLDC	09436335379
14.	Sh. P. Kanungo, CM	NERTS	09436302823
15.	Sh. Surajit Das, Mgr.	NERTS	09436335252
16.	Sh. Bhaskar Goswami, Sr. Mgr	NEEPCO	09436163983
17.	Sh. R.C. Singh, Manager (E)	NHPC	09436894889
18.	Sh. P.D. Siwal Member Secretary IC	NERPC	09436998378
19.	Sh. A.K. Mishra, S.E	NERPC	09402134275
20.	Sh.B. Lyngkhoi, AS	NERPC	09436163419
21.	Sh. D.K. Bauri, AEE	NERPC	09863317236

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