



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. NERPC/OP/OCCM_Corr/2008/ 6013 - 45
To

Date: 25th February, 2009

1. CGM, (LDC), SLDC Complex, AEGCL, Kahelipara, Guwahati-781 019
2. Managing Director, AEGCL, Bijuli Bhawan, Guwahati - 781 001
3. Member (Tech), MeSEB, Lumjingshai, Short Round Road, Shillong - 793 001
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. Chief Engineer (P), Department of Power, Govt. of Nagaland, Kohima - 797 001
7. Chief Engineer (P), Electricity Department, Govt. of Manipur, Keishampat, Imphal - 795 001
8. Chief Engineer (P&E), Department of Power, Govt. of Mizoram, Aizawl - 796 001
9. General Manager, TSECL, Agartala - 799 001
10. GM, NERLDC, Dongtich-Lower Nongrah, Lapalang, Shillong -793 006
11. ED (O&M), NERTS, PGCIL, Dongtich-Lower Nongrah, Lapalang, Shillong -793 006
12. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
13. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
14. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
15. ED (Commercial), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
16. Vice President, PTCIL, 2nd Floor, NBCC Tower, 15, Bhikaji Cama Place, New Delhi - 110022
17. AGM(BD), NVVN, Core5, 3rd Floor, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi - 110003

Sir,

Sub: Minutes of the 35th OCC Meeting held on 06th February, 2009 at Shillong.

The Minutes of the 35th OCC Meeting of NERPC held on 06.02.09 at "NERPC Conference Hall", Shillong is enclosed for favour of kind information and further necessary action please.

The Minutes of the same is also posted in the website of NERPC and this may also be downloaded from the website of NERPC www.nerpc.nic.in

Encl: As above.

भवदीय / Yours faithfully,

सदस्य सचिव / Member Secretary

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, Vidyut Vihar, Kom Keirap, Manipur- 795124

North Eastern Regional Power Committee

MINUTES OF THE 35th

OPERATION COORDINATION SUB-COMMITTEE MEETING OF NERPC

Date: 06/02/2009 (Friday)

Time: 10:30 hrs

Venue: “NERPC Conference Hall”, Shillong.

The List of Participants in the 35th OCC Meeting is given in **Annexure – I**

Sh. Manjit Singh, Member Secretary, NERPC welcomed all members and the participants attending the 35th OCC Meeting. He said that region continues to face shortfall in the ongoing winter season on account of low hydro power availability in the lean period. The quantum of energy purchase from outside the region is also on reduced scale. He said that the network constraints in 132 kV pocket comprising Tripura, Manipur, Meghalaya, Assam are existent as Unit No. IV 20 MW Baramula unit and Khandong units are on emergency maintenance. Therefore, under these conditions ensuring secured grid operation would be essential by maintaining the power flows on critical elements within the safe permissible range as advised by the NERLDC/SLDCs from in the real-time operation. He hoped that the schedule of shut down programme shall be adhered to by the generating utilities attending emergency maintenance work and shall minimize the outage time in view of the prevailing low availability period in the region.

Thereafter, he requested Shri B. Sarkhel, Superintending Engineer (Operation), NERPC to take up the agenda items for discussion.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 34th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

Superintending Engineer (Operation), NERPC stated that the minutes of 35th meeting of Operation Sub-committee held on 12th January, 2009 were circulated

vide letter No. NERPC/AS/OCC/2008/1472 – 509 dated 22nd January, 2009. NEEPCO representative mentioned that under Item No.2 (para-3, Page No. 7), at Sl.no.2, the beginning term “AGBP” before R.C.Nagar is to be deleted, which was agreed to.

As no other comment was received from any of the constituents, the minutes of the 34th OCC Meeting were confirmed with the above modification.

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

B. Operational Grid Discipline and Operational Planning

Based on the data furnished by NERLDC the sub-Committee noted about the power supply scenario of the region during month of January 2009 as follows:-

The average frequency was 49.58 Hz as compared to 49.60 Hz in the previous month. The minimum frequency in January 2009 was observed to be 48.76 Hz and maximum frequency touched at 51.24 Hz as against the corresponding values of 48.79 Hz and 50.61 Hz respectively in the previous month. The system frequency remained within the permissible range of 49.0 Hz to 50.5 Hz for 97.83% of the time, below 49.0 Hz for 2.11 % compared to the corresponding figures of 99.34% of time and 0.60% of time respectively in December 2008. The system frequency was above 50.5 Hz for 0.06% of the time during January 2009. The regional peak demand in January 2009 was 1491 MW compared to 1490 MW showing a marginal increase of 0.07% over the previous month. The energy requirement was 722.96 MUs compared to 749.13 MUs in previous month- indicating a drop of 3.49% over the previous month. The rise in peak demand in Tripura was highest i.e. 2.24% followed by 1.11 % in Nagaland and rise of 0.42% in Meghalaya over the previous month. The peak demand recorded a drop for the states of Mizoram, Arunachal Pradesh and Assam, which was of the order of 7.14%, 1.43% and 0.26% respectively over the previous month. However, the regional energy availability in January 2009 was 656.64 MUs compared to 673.22 MUs in previous month - showing a drop of 2.46% only over the previous month. The detail furnished by NERLDC in respect of above is enclosed at **Annexure – II**.

High voltages at 400 kV substations were experienced at Balipara and Misa where maximum voltage observed was 434 kV and 432 kV respectively. Khielhriat and Aizawl 132 kV S/station experienced a minimum voltage of 103 kV and 116 kV respectively.

Regarding low voltage conditions at the above stations, the concerned utilities and PGCIL were requested to examine the phenomena and in case of persistence of the low voltage conditions, provision for suitable compensation in the vicinity of low voltage pockets may be made /suggested.

FOLLOW UP ACTION

C. 1. Installation of Line Reactor at Kathalguri end of 220kV Misa – Kathalguri Line

In 33rd OCCM meeting held on 10.12.2008 the sub-Committee had discussed the results of study conducted to identify requirement of a line reactor at Kathalguri end of 400 kV Misa-Kathalguri line to reduce the voltage rise on it so as to facilitate charging of line from Kathalguri end. As per the recommendations of the study provision of 220 kV, 25 MVar line reactor at Kathalguri end would be required. As was suggested by the OCC regarding study of system behaviour with the additional reactor, PGCIL were to revert back on the matter.

NERLDC/PGCIL intimated that the result of the above study is awaited from their Corporate office. Soon after the outcome is received it shall be put up in the OCC meeting.

C. 2. Preparation of LGBR for the year 2009-10

The data as sought vide NERPC letter dated 23rd October, 2008 for preparation of the LGBR for year 2009-10 was awaited. The NER constituents were requested to furnish the same for further needful.

C. 3. Revival of 132 KV PK Bari-Dharmanagar-Durllavcherra- Panchgram link between Assam and Tripura

The details on status of terminal equipments for 132 kV Panchgram-Durllavcherra-Dharmanagar line at Panchgram new sub-station and Durllavcherra sub-station of CBs, CTs, relays and relay-schemes etc. were furnished by Assam and Tripura states and were included in minutes of 34th OCC meeting.

In this meeting the above details were seen by the sub-Committee. It was observed that provision for additional requirements for the equipment is required to be made so that necessary steps are taken to revive the above link at the earliest and prevailing transmission constraints minimized.

OCC members further suggested that the details may be discussed by a sub-group comprising engineers from Protection and Testing Department of the State utilities and NERTS. Based on its findings upon outcome of the discussion, the sub-group might firm up an additional requirement for protection & switchgear equipment for 132 kV sub-stations at Dharmanagar and Dullavcherra.

It was intimated by NERLDC that NEULDC O&M meeting was scheduled to be held at Agartala on 17.2.2008 and hosted by TSECL. As representation from the NER states will be available on this day at the meeting venue, it was agreed **that subject issue may be discussed in the afternoon session on 17.2.2008 at Agartala by a group of Protection and Testing engineers particularly from Tripura, Assam, Meghalaya States & NERTS, NERLDC and NEEPCO so that the jointly agreed outcome intimated for appraisal to the TCC of the NERPC in the ensuing TCC and the 7th NERPC meetings scheduled to be held on 23rd & 24th February 2008 at Shillong for further appropriate action.**

D. NEW ITEMS

C. 4 Shutdown of Khandong water conductor System

During the special meeting held on 20.01.2009 at NERLDC, the proposed shutdown of Khandong HEP by NEEPCO was discussed in details and the action plan agreed for implementation so as to permit the subject shutdown w.e.f. 1.2.2009. As per the plan NEEPCO/NERLDC would intimate the status on activities related to the above shutdown. NEEPCO might also intimate steps taken to maximise generation availability at AGPTPP during the outage periods as per the above action plan in view the expected low availability of Regional hydro generation in the current lean season and emergency shut down of 21 MW Baramura unit No. IV from 26.1.2009 to 15.2.2009 in Tripura.

In view of above, while furnishing status on the activity by NEEPCO, it informed that the activities for the above shutdown have been going on as per scheduled and the same would be completed in time.

NERLDC intimated that in line with agreed action plan, the NER States in the 132 kV pockets shall have to restrict their draws depending upon the real-time availability of power to following quantum during the outage period:-

State/132 kV pocket	Off peak max drawl (MW) (2300-1800 hours)	Peak max drawl (MW) (1800-2300 hours)
Manipur	70	65
Meghalaya	20	25
Mizoram	35	40
Nagaland	40	60
South-Assam	40	45
Tripura	15	35

C. 5 Status of DCDs.

In 34th OCCM of NERPC, POWERGRID had intimated that the 45 Nos. SEMs and 30 Nos. DCDs have been received by them. It informed that the inspection and testing was expected to take place on 19.01.2009 and subsequently the DCDs would be made available for operation by 1st February, 2009.

PGCIL informed that the some of the DCDs have been checked and were at the inspection stage. ***PGCIL intimated that the DCDs would be made available to the constituents soon after the successful inspection of the DCDs and these above devices would become available by 15.2.2009.***

D. NEW ITEMS

D. 1.1 Replacement of CT ratio at Samaguri end on 220 kV Samaguri - Balipara

Regarding constraints encountering on account of existing CT (ratio 400/1) at Samaguri (ASEB) end of 220kV Samaguri-Balipara line, NERLDC indicated that during high hydro period power flow to outside the region gets limited under surplus conditions due to the lower existing CT ratio of 400/1. This gets further aggravated if Misa-Sarusajai line trips. It therefore suggested that in order to permit maximum power flow over the line, the CT ratio may be enhanced either to 800/1 or at least by 600/1. **AEGCL representatives in the meeting proposed that the item with the above recommendation may be submitted to TCC/NERPC in the ensuing 6th NERPC meeting on 23rd and 24th Feb, 2009 for discussion and approval. The sub-Committee accepted the above proposal.**

D. 1.2 Disconnection of 220 kV Kathalguri - Tinsukia line w.e.f. 21.12.2008.

AEGCL vide letter dated 01-02.2009 had intimated that the above line has been disconnected on 24.12.2008 at 22:40 Hrs stated to have done on account of malfunctioning of 220kV Kathalguri-Tinsukia feeder panel at Kathalguri end and inadequate provision for Local Breaker back up Protection. AEGCL had further indicated that the necessary requirement /specification details for providing this facility were made available for arranging the hooking up of the connections by NEEPCO as per provision for LBB protection. However the same has not been implemented so far.

AEGCL pointed out that the above line was disconnected from NEEPCO end on 24.12.08 on the ground of inadequate protection in LBB and that was not in service. The line was finally restored on 26.12.08 from Kathalguri end after persuasion by them. During the above period, entire eastern most part of Assam remained connected only through 132 kV LTPS-Mariani s/c line feeding loads up to Dibrugarh, Ledo, thereby incurring more line losses and lowering the security of the system. AEGCL contended that the opening of a 220 kV line unilaterally because of inadequate LBB protection at Kathalguri and lower setting provided in E/F relay of Distance protection could not be considered in principle, which the sub-Committee members also expressed their concern.

In view of the above, the sub-Committee discussed the matter and the members opined that ensuring the healthiness of protection system is of utmost importance in the interest of reliable operation. It was therefore decided that hooking up of the connections for providing this facility for Local Breaker back-up Protection as per provisions for LBB protection may please be implemented urgently. In addition necessary relay coordination and settings of the protective relays at the Station and the vicinity may please be carried out by NEEPCO in coordination with AEGCL. This may be completed within a week's time.

For the above purpose, NEEPCO requested AEGCL to interact with Shri Akhtar Hussain, DGM (E), Kathalguri (tel. no. 0374-2825577) to coordinate the above activity at the Kathalguri station.

D. 2 Statewise anticipated peak demand/requirement, shortage for February, 2009/March, 2009.

The sub-Committee based on above had worked out regarding anticipating demand and requirements for February, 2009/March, 2009 as follows:-

February, 2009**March, 2009**

S.No.	State	Peak Demand (MW)	Peak Availability (MW)	Peak Demand (MW)	Peak Availability (MW)
1	Arunachal Pradesh	75	63(63)	75	63(63)
2	Assam	760	740(740)	760	740(740)
3	Manipur	100	90(65)	100	90(65)
4	Meghalaya	240	234(230)	240	234(230)
5	Mizoram	65	58(40)	65	58(40)
6	Nagaland	90	86(60)	90	86(60)
7	Tripura	130	132(100)	130	132(100)
	Total	1460	1403(1298)	1460	1403(1298)

Note: Bracketed figures relate to the availability during the shut down period of Khandong outage.

D. 2 Generation Planning (ongoing and planned outages)

The planed shutdown in respect of the following Generating units was approved by OCC Sub-committee of NERPC during the 35th OCCM held on 6th January, 2009 at NERPC Office.

Sl. No	Name of Generation Station	S/D Date	Units No	Purpose	MW affected	Agency
1.	Kopili H.E.P	10.02.09 to 29.02.09	#1	AMP	0 MW	NEEPCO
2.	Kopili H.E.P	10.03.09 to 29.03.09	#2	AMP	0 MW	NEEPCO
3.	Kopili H.E.P	10.04.09 to 29.04.09	#3	AMP	0 MW	NEEPCO

The Utilities taking shutdown as per the above schedule were requested to confirm program one day in advance to NERLDC and co-ordinate with NERLDC just prior to taking the shutdown in order to ascertain prevalence of favourable grid conditions for taking up the necessary works.

D. 3 Outage Planning for Transmission elements and related matters

There was no proposal for outage of any transmission line from NER utilities for February/March, 2009 in view of ongoing shutdown of Khandong H.E.P & Baramura GBP of Tripura.

D. 4 Review of Grid performance during January 2009

The sub-Committee noted salient data concerning grid performance, Voltage profile and Frequency profile during the month of January, 2009 as furnished by the NERLDC.

The details are at **Annexure- II**

D. 5 Major grid disturbances in the previous month (January, 2009)

There was no major disturbance reported by NERLDC during the month of January, 2009.

D. 7 Date and Venue of next OCC

It was agreed to hold 36th OCC meeting of NERPC on 6th March, 2009 (Friday) at NERPC Conference Hall, Shillong.

The meeting ended with thanks to the chair.

Annexure-I**List of Participants in the 35th OCC meeting held on 06/02/2009**

Venue : NERPC Secretariat, Shillong

Sl. No	Name & Designation	Organization	Contact No. /e-mail ID
1	No Representatives	Arunachal Pradesh	
2	Sh. H.Hazarika, DGM	SLDC, AEGCL (Assam)	9854809104
3	Sh. R.L.Baruah, DGM	SLDC, AEGCL (Assam)	9435198395
4	No Representatives	P&E, Manipur	
5	Sh. F.E. Kharshiing, E.E	SLDC, MeSEB (Meghalaya)	9863066960
6	Sh. T. Gideon, AEE	SLDC, (Meghalaya)	9863063375
7	Sh. Lalzorama, E.E	P&E, Mizoram	9436385303
8	Sh. H.Lalnunsanga, AE	SLDC, Mizoram	9436144651
9	No Representatives	SLDC, Nagaland	
10	No Representatives	Tripura	
11	Sh. N.R.Paul, CM	NERLDC	9436302723
12	Sh.S.K.Saha, DM	NERLDC	
13	Sh. P. Bhattacharya, Engineer	NERLDC	
14	Sh. Sheikh Shadrudin, DM	NERLDC	9436335380
15	No Representatives	NERTS	
16	Sh. Bhaskar Goswami, SM	NEEPCO	9436163983
17	Sh. B.R.Bhattacharya, Manager	NEEPCO	9436122450
18	Sh. M.Achyuta Kumar, DM	NHPC	09958669191
19	Sh. Manjit Singh, MS	NERPC	9436706436
20	Sh.A.K.Jain, SE (Coml	NERPC	9436163419
21	Sh.B. Sarkhel, SE (O)	NERPC	0364-2520038
22	Sh. B. Lyngkhoi, AS	NERPC	9436163419
23	Sh.Satbir Singh, EE	NERPC	
24	Sh. S.M.Aimol, AEE	NERPC	9863311203
25	Sh. G. Medhi, AE	NERPC	9863317776

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