



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/ 228-60

Date: 27th April, 2009

To

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 37th OCC Meeting held on 08th April, 2009 at Shillong.

The Minutes of the 37th OCC Meeting of NERPC held on 08.04.09 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

Enclo: 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, Vidvut Vihar, Kom Keirap, Manipur- 795124

North Eastern Regional Power Committee

MINUTES OF THE 37th

OPERATION COORDINATION SUB-COMMITTEE MEETING OF NERPC

Date: 08/04/2009 (Wednesday)

Time: 10:30 hrs

Venue: "NERPC Conference Hall", Shillong.

The List of Participants in the 37th OCC Meeting is given at **Annexure – I**

Sh. B. Sarkhel, Superintending Engineer (O), NERPC welcomed all members and the participants attending the 37th OCC Meeting. He requested all the members to actively participate in the discussion so as to make the meeting to be fruitful. He then requested Shri L. Kanungo, GM, NERLDC to chair the meeting.

While welcoming the delegates, GM, NERLDC appreciated the maximum participants in the meeting and requested the constituents to continually participate in various sub-committee meetings of NERPC so that important issues can be resolved. GM, NERLDC informed the members that CERC have introduced new tariff regulation which has become effective from 1st April, 2009. While elaborating salient points on this, he stated that the same will be further discussed and its implications on the grid operation will be presented during the next Commercial Sub-Committee of NERPC. He reiterated that the operating frequency band has been narrowed from 49.2 Hz to 50.3 Hz which would make the grid operation very stringent. He added that the Commission may, from time to time, prescribe the additional Unscheduled Interchange Charges for over-drawal or under-injection of electricity during the time-block when grid frequency is below 49.5 Hz and up to 49.2 Hz. The over-drawal of electricity from the schedule by any beneficiary or a buyer during a time-block shall not exceed 12% of its scheduled drawal or 150 MW (whichever is lower) when frequency is below 49.5 Hz, and 3% on a daily aggregate basis. He then requested the constituents to follow the instructions very seriously for maintaining grid discipline. He also expressed

concern over the showcase notice given by CERC to Arunachal Pradesh & Nagaland eventhough they have paid the outstanding dues, but not in time for which CERC have made a token fine of Rs. 25000/= to each of the States. He intimated that an outstanding UI amount of Rs. 3.92 crores (as on 02.04.2009) is pending for payment by Mizoram and requested the State to clear at an early date.

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 36th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

Superintending Engineer (Operation), NERPC stated that the minutes of 36th meeting of Operation Sub-committee held on 6th March, 2009 were circulated vide letter No. NERPC/AS/OCCM_Corr/2008/6238 – 70 dated 23rd March, 2009.

As no comment was received from any of the constituents, the minutes of the 36th OCC Meeting were confirmed.

ITEMS FOR DISCUSSION

B. Operational Grid Discipline and Operational Planning

GM, NERLDC also briefed about the grid performance during the month of March, 2009 stated that the average frequency during March 2009 was 49.61 Hz compared to 49.45 Hz in the previous month. The minimum frequency in March 2009 was 48.77 Hz and maximum frequency was 50.55 Hz as against corresponding values of 48.76 Hz and 50.90 Hz respectively in the previous month. The system frequency remained within permissible range of 49.0 Hz to 50.5 Hz for 98.08 % of the time, below 49.0 Hz for 1.91 % compared to the corresponding figures of 94.98% & 4.91 % respectively and for the system frequency was above 50.5 Hz for 0.02 % of the time during March 2009. The regional peak demand in March 2009 was 1460 MW compared to 1459 MW in the previous month- a minimum increase of 0.06%. The energy requirement was

715.10 MUs compared to 640.71 MUs in previous month. The regional energy availability in March 2009 was 620.01 MUs compared to 566.99 MUs in previous month- an increase of 9.351% over the previous month. The rise in demand met was highest of 4.61% in Assam and 1.56% in Mizoram over the previous month.

High voltages at 400 kV substations were encountered at Balipara, Misa and Bongaigoan of Powergrid where maximum voltage observed was 444kV, 440 kV and 430 Kv respectively. Among 132 kV substations, viz Halflong, Kumarghat & Khiehriat experienced high voltages of the order of 149 kV, 148 kV and 149 kV respectively. Aizawl 132 kV S/station experienced a minimum voltage of 109 kV.

Sub-committee noted as above.

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 is required to be made. The OC sub-Committee had suggested about conducting a study by PGCIL to examine system behaviour with the proposed additional reactor. PGCIL were to revert back on the matter.

PGCIL intimated that the results of the above study is still awaited from their Corporate office. It was intimated that they will take up this matter and will inform soon after the outcome is received.

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

S.E (O), NERPC informed that based on data furnished by NER constituents, the generation availability vis-à-vis requirement for year 2009-10 and tentative generation targets for the year 2009-10 for NER sent by CEA, New Delhi, the

abstract of anticipated month-wise peak Demand (MW), Energy requirement/Availability (MU) has been prepared and sent to CEA for consideration of LGBR for NER States during 2009-10. He also informed that the draft LGBR was prepared and the same was circulated in this meeting for information and comments. He requested that if any discrepancy arises, the same should be intimated to NERPC within a week's time, otherwise the LGBR prepared by NERPC may be considered as final.

The anticipated peak Demand – NER (MW) and Energy Requirement/Availability (MU) is enclosed at Annexure C.2

The sub-Committee noted.

C. 3. Status of Khandong Shutdown.

NEEPCO informed that filling of tunnel and penstocks of Kopili Stage – II and Khandong two units have been completed. Further, they have intimated that although building up of reservoir water level was started from 16.03.2009, yet as on date, the water level is 706.32M. Once the inflow of water is available the machines are now ready to generate.

The Sub-Committee appreciated NEEPCO for their sincere efforts to complete the critical S/D works well in time.

C. 4. Special Protection for vulnerable 132 kV NER pocket.

GM, NERLDC informed the house that the Special Protection Scheme for NER grid has been prepared by NERLDC. He requested NERLDC representative to give its presentation.

Presentation of the same is enclosed at Annexure C.4.

Members appreciated the Special Protection Scheme prepared by NERLDC and requested NERLDC to circulate the same to all the constituents so that they can study further for its feasibility of implementation. After discussing it, the same would be put up to TCC/RPC meetings for approval and implementation.

C. 5. Preparation & finalization for Black Start Procedure.

GM, NERLDC informed that the Black Start Procedure document which was circulated before was again redrafted for betterment of the system and the same was circulated in this meeting. He requested all the constituents to kindly study in detail so that the same can be finalized in the next OCC meeting.

The Sub-committee noted the same.

D. NEW ITEMS

D. 1 Status of various 132 kV Transmission line outages in NER.

Status of forced outage for the following lines during the month of March, 2009 was discussed:

S.No.	Line
1	132 kV Gohpur – Balipara
2	132 kV Gohpur – Biswanath Chariali
3	132 kV Khandong – Khliehriat
4	132 kV Kumarghat – Aizawl
5	132 kV Jiribam – Aizawl

NERLDC informed that the above lines had not been on prolonged outage. NERLDC further intimated that the 132kV Loktak – Jiribam line - II of PGCIL was out from 24.03.2009 to 01.04.2009 due to shoot out of the conductor by the miscreants and now the above line is in operation.

The Sub-Committee noted as above.

D. 2 Statewise anticipated peak demand/requirement, shortage for April, 2009/ May, 2009.

The sub-Committee based on above had worked out the anticipated demand and requirements for April, 2009/May, 2009 as follows:-

April, 2009**May, 2009**

S.No.	State	Peak Demand (MW)	Peak Availability (MW)	Peak Demand (MW)	Peak Availability (MW)
1	Arunachal Pradesh	75	63(63)	88	83(63)*
2	Assam	760	740(740)	820	790(740)*
3	Manipur	100	90(65)	118	96(65)*
4	Meghalaya	240	234(230)	260	230(230)*
5	Mizoram	65	58(40)	80	68(40)*
6	Nagaland	90	86(60)	90	86(60)*
7	Tripura	130	132(100)	145	115(100)*
	Total	1460	1403(1298)	1601	1468(1298)*

*** Figures in bracket are due to system constraints.**

GM, NERLDC informed that CERC has advised that the peak demand/availability for the next three months should be given by each state and accordingly every constituents are requested to furnish data concerning load forecast for the next three months. He requested the constituents to look into this matter and to work out the anticipated 3 months data more realistically while projecting the state demands.

D. 3 Generation Planning (ongoing and planned outages)

There was no proposal for outage of any generating utilities during March, 2009. However, NEEPCO desired to carry out maintenance/outage program for Kopili #1 from 08.04.2009 because NEEPCO had already arranged security and manpower for the above programme.

The Sub-Committee recommended that as decided in the previous points NEEPCO should attempt to make available 3 units at a time, so unless Unit#3 of Kopili is made available, no further shutdown program could be allowed. Once the Unit#3 of Kopili P.S is made available (i.e. subject to availability of 3 units), NEEPCO may avail shutdown of Unit #1 in consultation with NERLDC.

D. 4 Frequent problem of Gas Compressor of AGBPP

GM, NERLDC stated that NEEPCO have informed that by 22nd or 23rd March they will generate around 234 MW from Kathalguri GBP, but only 110 MW was actually generated.

NEEPCO informed that the units have been repaired and synchronized on 30.03.2009. But another problem of CNR has been prompted again. They assured that, if 3 units are available they can generate around 220 – 230 MW. But, if any tripping of unit takes place, they would be able to generate to a maximum of only 140 – 150 MW.

GM, NERLDC expressed serious concern over Kathalguri units frequent trippings and stated that constituents have become the most sufferers, as they are not only unable to meet their demand during the lean hydro season, but at the same time, they are not in a position to plan their availability, because some of the States have bilateral commitment of sale of Power.

Assam stated that due to uncertainty of availability of power from Kathalguri they are facing great difficulties in meeting their demand and the committed bilateral. They requested NEEPCO that at least they should clearly indicate the average quantum to be generated from Kathalguri so that they can plan to serve accordingly. All the other constituents endorsed the view of Assam.

MeSEB also stated that they are facing acute shortage of power and huge load shedding has to be resorted to as they cannot meet their demand and the question of bilateral is not at all possible. Arunachal Pradesh also informed that during off-peak, they are getting only 9 – 10 MW and bilateral sale of Power has been stopped from November, 2008 onwards.

During discussions the OC sub-Committee requested NEEPCO to make all out efforts to improve the situation of frequent trippings of Kathalguri compressor units which resulted in appreciable loss of regional availability under the prevailing scenario wherein alarmingly low availability conditions continued.

OCC Sub-Committee has expressed serious concern over the performance of Kathalguri units especially during lean hydro season when Kathalguri is expected to generate to its maximum. The Sub-committee finally resolved that 230 MW will be the scheduled generation, if 3 Compressors are alright (in service). In case, any unit trips, then 140 MW should be made available from Kathalguri GBP.

NEEPCO agreed.

D. 5 Outage Planning for Transmission elements and related matters

The sub-Committee discussed programme for transmission line outages for April, 2009/May, 2009. as proposed by PGCIL/Constituents which were finalized as per Annexure – D.5

D. 6 Review of Grid performance during April, 2009

The sub-Committee noted salient data concerning regional generation, inter-regional energy exchange, average frequency for April 2009 in comparison with that for March 2009 as follows:-

The presentation is at Annexure D.6.

	<u>During Mar' 09</u>	<u>During Feb' 09</u>
1. The Total Generation(gross) in NER:	478.480 MU	507.791 MU
2. Total Central Sector Gen (gross) in NER:	246.717 MU	292.302 MU
3. Inter-regional energy exchange:		
(a) NER – ER	: 0.000 MU	0.000 MU
(b) ER – NER	: 148.410 MU	74.610 MU
(c) Net import	: 148.410 MU	74.610 MU
4. Average frequency	: 49.61 Hz	49.45 Hz

D. 7 Major grid disturbances in the previous month (March, 2009)

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

However, the report of the grid disturbance occurred on the 12th March, 2009 is enclosed at Annexure D.7 for kind information. Due to this disturbance, only Loktak Unit #1 generating around 7MW desynchronized and only 32MW load cut effected in Manipur to avoid fire hazards of 20MVA auto transformer (s) at Imphal S/Station. The system restored within 20 minutes.

D. 9 Date and Venue of next OCC

It was agreed that NEEPCO will host the 38th OCC meeting of NERPC on 8th May, 2009 (Friday). The venue of meeting will be intimated in due course.

The meeting ended with thanks to the chair.

Annexure-I**List of Participants in the 37th OCC meeting held on 08/04/2009**

Venue : NERPC Secretariat, Shillong

Sl. No	Name & Designation	Organization	Contact No. /e-mail ID
1	Sh. W. Rehman, EE, SLDC	Arunachal Pradesh	09436050735
2	Sh. A.K.Saikia, Sr. Manager	SLDC, AEGCL (Assam)	9864116176
3	No Representatives	P&E, Manipur	
4	Sh. T. Passah, S.E	SLDC, MeSEB (Meghalaya)	9436100655
5	Sh. F.E. Kharshiing, E.E	SLDC, MeSEB (Meghalaya)	9863066960
6	Sh. T. Gideon, AEE	SLDC, (Meghalaya)	9863063375
7	No Representatives	P&E, Mizoram	
8	Sh. Nitovi.A.Wotsa	E.E, P&E, Nagaland	9436004928
9	Sh. Nilanjoy Reang, Sr. Manager	Tripura	9863616190
10	Sh. Soumitra Ghosh, Manager	Tripura	
11	Sh. L.K.Kanungo, GM	NERLDC	9436302725
12	Sh. T.S.Singh, DGM	NERLDC	9436302717
13	Sh. N.R.Paul, CM	NERLDC	9436302723
14	Sh. P. Krishnamurthy, Mgr	NERLDC	9436302716
15	Sh. Sheikh Shadrudin, Mgr	NERLDC	9436335380
16	Sh. S. K. Saha, DM	NERLDC	
17	Sh. P. Kanungo, CM	NERTS	9436302823
18	Sh. Ashok Sinha, DM	NERTS	9436335241
19	Sh. Akhtar Hussain, DGM	NEEPCO	9435339677
20	Sh. Bhaskar Goswami, Sr. Mgr	NEEPCO	9436163983
21	Sh. B.R.Bhattacharya, Manager	NEEPCO	9436122450
22	Sh.A.K.Jain, SE (Coml	NERPC	0364-2520038
23	Sh.B. Sarkhel, SE (O)	NERPC	0364-2520043
24	Sh. B. Lyngkhoi, AS	NERPC	9436163419
25	Sh.Satbir Singh, EE	NERPC	
26	Sh. S.M.Aimol, AEE	NERPC	9863311203
27	Sh. G. Medhi, AE	NERPC	9863317776

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Shutdown Programme for the month of April as approved in the 37th OCCM held on 08.04. 09 at NERPC Conference Hall.

Sl. No	Name of T/L	S/D Date	S/D Time	Purpose	Areas/Feeder affected	Agency
1.	132 KV Badarpur –Kumarghat	Defer to next OCC	08.00 hrs to 16:00 hrs	AMP	Badarpur –Kumarghat	PGCIL
2.	132 kV Dimapur-Mariani	11.04.09 to 12.04.09	08.00 hrs to 16:00 hrs	AMP	Dimapur-Mariani	ASEB

\$ Note: All the associates bays maintenance would be done during the shutdown of respective Transmission lines.

Sl. No	NAME OF SUB-STATION/BAYS/ICT/ REACTOR	S/D Date	S/D Time	Purpose	Areas/Feeder affected	Agency
1.	132 KV Main Bus at Dimapur	11. 04. 2009	08.00 hrs to 16:00 hrs	Execution of works related to Missing link	Doyang- Dimapur, Dimapur – Imphal Dimapur-Mariani Dimapur-Dimapur & Transformer bay	PGCIL
2.*	132 KV Main Bus at Aizawl	18. 04.2009	10.00 hrs to 12:00 hrs		Aizawl-Jiribam line Aizawl-Kumarghat line & Aizawl-Zemabawk line	PGCIL
3.	132 KV Double main Bus at Khandong PH of NEEPCO	22. 04.2009	08.00 hrs to 16:00 hrs		Khandong –Khliehriat I & II, Khandong – Kopili, Khandong - Halflong	PGCIL

*** NERLDC will take up the matter with Dept. of Power, Mizoram for concurrence before taking up the shutdown.**