

## North Eastern Regional Power Committee

### Agenda For

### 68<sup>th</sup> Operation Coordination Sub-Committee Meeting

Time of meeting : 10:30 Hrs.

Date of meeting : 8<sup>th</sup> December, 2011 (Thursday)

Venue : Hotel Grand Star Line, Guwahati.

A. CONFIRMATION OF MINUTES
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#### CONFIRMATION OF MINUTES OF 67<sup>th</sup> MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 67<sup>th</sup> meeting of Operation Sub-committee held on 8<sup>th</sup> November, 2011 at Guwahati were circulated vide letter No. NERPC/AS/OCC/2011/3266 - 98 dated 21<sup>st</sup> November, 2011.

No observations or comments were received from any of the constituent members.

*The Sub-committee may confirm minutes of 67<sup>th</sup> OCCM of NERPC.*

ITEMS FOR DISCUSSION
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#### B. OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING NOV' 11

The grid performance parameters for the month of November, 2011 as presented by NERLDC during the meeting are given below:

- i) **Average frequency** during November, 2011 was 49.65 Hz, as compared to 49.65 Hz in October, 2011.
- ii) **Minimum frequency** in November, 2011 was 48.57 Hz (10.10.11 at 14:57 hrs) which was 48.57 Hz as recorded in the previous month.
- iii) **Maximum frequency** was 50.63 Hz (26.10.11 at 16:08 hrs), as compared to 50.63 Hz in October, 2011.

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- iv) **System frequency** remained within permissible range of 49.5 Hz to 50.2 Hz for 76.15 % of the time, below 49.5 Hz for 23.05 % and above 50.2 Hz for 0.79% of the time as compared to 76.15 %, 23.05 % and 0.79 % of the time respectively in the previous month.
- v) **Regional peak** demand in November, 2011 was 1745 MW as compared to 1909 MW in October, 2011 a decrease of 8.58 % over the previous month.
- vi) **Energy requirement** was 878.77 MUs in November, 2011 compared to 980.18 MUs in October, 2011 a decrease of 10.35 % over the previous month.
- vii) **Regional energy availability** in November, 2011 was 811.56 MUs compared to 886.69 MUs in the previous month, a decrease of 8.47% over the previous month.
- viii) **Rise in demand met** was recorded in Mizoram (25.81%), Ar. Pradesh (15.37%) & Manipur (7.55%) over the previous month.
- ix) **Drop in demand met** was recorded in Assam (7.21%) & Tripura (4.99%) over the previous month viz. October, 2011.
- x) **Over Voltages** at 400 kV substations were observed at Bongaigaon, Balipara and Misa where maximum voltage observed were 423, 423 kV and 428 kV respectively.
- xi) **No over Voltages** were observed at 220 kV S/S and 132 kV S/S.
- xii) **No Under Voltage** observed at 400 kV S/S and 220 kV S/S. Under voltage observed at 132 KV Aizawl S/S were 115 kV.
- xiii) **Regional Generation & Inter-regional Exchanges:** During the month of November, 2011 compared to October, 2011 are given below:

SN	Parameter	November, 2011	October, 2011
<b>REGIONAL GENERATION &amp; INTER - REGIONAL EXCHANGES (in MU)</b>			
1	Total Generation in NER (Gross)	631.715	795.563
2	Total Central Sector Generation in NER (Gross)	385.873	492.528
3	Inter-Regional Energy Exchanges		
	(a) NER - ER	0.00	6.41
	(b) ER - NER	201.91	125.74
	(c) Net import	201.91	119.33

**C. FOLLOW UP ACTION**

**C. 1 Deputation of site engineer by PGCIL at Kopili for SCADA system:**

During the 67<sup>th</sup> OCC meeting, CM, POWERGRID informed that the matter has been taken up with the appropriate authority of ABB and they have assured that they would visit the site by 2<sup>nd</sup> week of November, 2011 and restore the SCADA system of Kopili at the earliest. The status would be intimated in the next OCC meeting.

***POWERGRID may kindly intimate the current status on above.***

**C. 2 Installation of new Under Frequency Relays (UFRs) in NER constituent systems and constituent-wise load relief quantum as recommended by the sub-committee:**

The information regarding locations of installation of UFRs has been received from Meghalaya, Nagaland & Mizoram only. During the 67<sup>th</sup> OCC meeting Assam informed that the above information was also sent by them, but NERPC Secretariat has not yet received till date.

The status as given in 12<sup>th</sup> TCC/NERPC meeting held on 14<sup>th</sup> & 15<sup>th</sup> November, 2011 for completion of UFR installation is as below:

Manipur: It will be completed by Feb, 2012.

Tripura: By November, 2011

***Remaining Constituents are required to furnish the data at the earliest.***

**C. 3 Bus transfer facility at 132 KV Gohpur (AEGCL) Sub-station:**

During the 12<sup>th</sup> TCC/NERPC meetings held on 14<sup>th</sup> & 15<sup>th</sup> November, 2011, TCC has suggested POWERGRID to prepare a detail feasibility report in this regard and the matter would be followed up in OCC meetings for further necessary action.

***POWERGRID may kindly intimate the current status on above.***

**C. 4 Non-utilization of transfer facility at Khandong HEP:**

During the 12<sup>th</sup> TCC/NERPC meetings held on 14<sup>th</sup> & 15<sup>th</sup> November, 2011, NEEPCO agreed to resolve the matter in consultation with POWERGRID within a week's time. Accordingly, POWERGRID propose to finalize a date so that the joint visit can be made at Khandong to finalize the BOQ of materials for early execution of the job.

***NEEPCO may kindly intimate the current status.***

**C. 5 Power flow on 132 KV P.K. Bari – Panchgram line:**

During the 67<sup>th</sup> OCC meeting, DGM, NERLDC informed during the concluding Durga Puja festival the above line has been loaded up to 50 – 55 MW and therefore felt that testing of the line is no more required as the same has been observed already. Further, Tripura stated that they have completed re-conductoring of the above line and requested Assam to do the same. Assam stated that the decision of re-conductoring of the line is with their management and requested Tripura to write to their Management regarding re-conductoring of the above line. Tripura agreed.

*Tripura may intimate the current status.*

**C.6 Software Problem in DCD**

In 67<sup>th</sup> OCC meeting POWERGRID informed that they will take up the matter and restore within one week. As informed by TSECL, DCD replacement at GSS, 79 Tilla is yet to be taken up by PGCIL as decided in last OCC.

*The sub-Committee may discuss.*

**C. 7 Supply & Installation of V-SAT & PMU equipments:**

During the 66<sup>th</sup> OCC meeting, “the Sub-committee requested NERLDC to write once again to the respective constituents to submit the names of Nodal **officers** required for co-ordination of procurement & installation activities of V-SAT & PMU equipments and the names of **Consignees** for processing of procurements of above equipments like tendering, issuance of letter of award and also for dispatch of equipments by the vendors to respective states”.

*NERLDC may intimate the current status.*

**C. 8 Single-Phase Auto-Reclosure of Transmission Lines:**

The status of SPAR as reviewed during the 66<sup>th</sup> OCC meeting is given below:

Sr. No.	Name of the Line	Ownership	Status as given on 66 <sup>th</sup> OCC meeting.
1	400kV Balipara - Ranganadi I&II	RHEP, NEEPCO	Completed
2	220kV Kopili - Misa # I & II	KHEP, NEEPCO	January, 2012
3	220kV Salakati – BTPS - I & II	BTPS, AEGCL	February, 2012
4	220kV Balipara - Samaguri	Samaguri, AEGCL	March, 2013
5*	132kV Aizawl - Zemabawk	Zemabawk, P&E, Mizoram	Discussed in TCC and agreed to drop.
6	132kV Khandong - Haflong	KHEP, NEEPCO	June, 2012
7	132kV Khandong - Kopili	KHEP, NEEPCO	June, 2012
8	132kV Loktak - Jiribam # II	Loktak, NHPC	March, 2012.
9	132kV Ranganadi- Ziro	RHEP, NEEPCO	Status not updated as no Ar. Pradesh representative was present.

*Constituents may kindly note the current status.*

**D. NEW ITEMS**

**D. 1 State-wise anticipated peak demand/requirement, shortage for December, 2011, January, 2012 & February, 2012.**

*The sub-Committee may review the anticipated peak demand/energy requirement and finalize the same for the months of November, December, 2011 & January, 2012.*

Dec', 2011      Jan', 2012      Feb, 2012      Mar, 2012

S. No.	State	Peak Demand (MW)	Peak Avail. (MW)	Peak Demand (MW)	Peak Avail. (MW)	Peak Demand (MW)	Peak Avail. (MW)	Peak Demand (MW)	Peak Avail. (MW)
1	Ar. Pradesh	90	80	110		110		105	
2	Assam	1000	875	1100		1000		1020	
3	Manipur	100	80	110		110		110	
4	Meghalaya	270	200	320		255		265	
5	Mizoram	75	50	75		75		75	
6	Nagaland	100	85	115		105		110	
7	Tripura	185	140	220		195		200	
	Region	1820	1510	2040		1842		1885	

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

**D. 2 Generation Planning (ongoing and planned outages)**

Sub-committee may discuss & approve the shutdown proposal of NEEPCO/NHPC Units for December, 2011/January, 2012 as enclosed at **Annexure D. 2**.

NEEPCO/NHPC may also intimate the availability for hydro stations:

Khandong -	MU
Kopilli -	MU
Ranganadi -	MU
Doyang -	MU
Loktak -	MU

***Members may like to discuss and approve the proposal.***

**D. 3 Desynchronisation of 132 kV Dharmanagar-Panchgram-Badarpur line**

As informed by TSECL, it was observed that 132KV D/nagar-Panchgram-Badarpur link is desynchronised without any notice to SLDC, Agartala. NERLDC is requested to look into the matter seriously to avoid such malpractices.

*The sub-Committee may discuss.*

**D. 4 Outage Planning of Transmission elements**

The Sub-committee may discuss and approve the transmission line outages proposed for November/December, 2011 by PGCIL (at **Annexure D. 4**).

*The sub-Committee may discuss.*

**D. 5 Estimated Transmission Availability Certificate (TAC) for the month of November, 2011.**

The Final TAC for the month of October, 2011 has not yet been issued by NERPC Secretariat as the data has not been received from POWERGRID

The Estimated Transmission/System Availability for the month of November, 2011 furnished by PGCIL is **99.9793 %** as per details at **Annexure D. 5**. NER constituents are requested to kindly give their comments and observations, if any, by 29<sup>th</sup> December, 2011 so that Final TAC for the month of November, 2011 can be issued.

*The Sub-Committee may like to discuss and approve the provisional figure of TAC for November, 2011.*

**D. 6 Major grid disturbances in the previous month (November, 2011 )**

As intimated by NERLDC, there was one major grid disturbance during the month of November, 2011.

*NERLDC may deliberate on the issue.*

**D. 7 Any other item**

**D. 8 Date and Venue of next OCC**

It is proposed to hold the 69<sup>th</sup> OCC meeting of NERPC on 10<sup>th</sup> January, 2012 (Tuesday). As per roster, Tripura will be the host for 69<sup>th</sup> OCC meeting. The exact venue will be intimated in due course.

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**D.7 : ADDITIONAL AGENDA**

<b>D.7.1</b>	<b>INSTALLATION OF HARMONIC FILTERS</b>
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During 12th TCC & 12th NERPC Meeting POWERGRID informed that as per the study of CPRI, the harmonics are generated by the Steel Plant (Satyam) at Banderdewa. So, the cost of harmonic filters has to be borne by the utility i.e., Satyam Steel Plant, Banderdewa. Accordingly, Ar. Pradesh has to take up the matter with the utility for which TCC requested NERPC Secretariat to take up the matter with Ar. Pradesh.

Meanwhile, POWERGRID has already invested around ₹.4.31 Lakhs (as detailed below) which may be reimbursed by Satyam Steel Plant to POWERGRID through DoP, AP:

(a) Investigation of harmonics by CPRI	-	₹. 2.00 Lakhs
(b) Finalization of filter specification by CPRI	-	₹.1.75 Lakhs
(c) 15% overhead	-	₹.0.56 Lakhs
<b>TOTAL</b>	-	<b>₹.4.31 Lakhs</b>

The details of (a) Investigation report and (b) Filter specification by CPRI will be furnished to NERPC and DoP, AP shortly.

***The sub-Committee may discuss.***

<b>D.7.2</b>	<b>AUGMENTATION OF TRANSFORMATION CAPACITY AT 132 KV NIRJULI S/S - PGCIL</b>
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The issue of augmentation of transformation capacity at Nirjuli could not be discussed in last 11th & 12th TCC & NERPC meeting including special TCC meeting at Agartala in Aug'11 due to non-availability of representative from DoP, AP. Meanwhile, POWERGRID has already replaced the 16MVA, 132/33kV Transformer (owned by AP) with new 10MVA, 132/33kV Transformer on 25.11.2011 following the tripping of 16MVA transformer through Buchholz and PRV protection on 16.11.2011. Thus, at present, Nirjuli Sub Station is operative with parallel operation of 2 X 10 MVA, 132/33kV Transformer as per the original configuration. Now, as POWERGRID has already put up agenda in earlier meetings for augmentation by installation 2 X 30MVA transformers at Nirjuli in place of existing 2 X 10 MVA transformers, DoP, AP may review the proposal OR ELSE restrict the load at Nirjuli within the present capacity of 2 X 10MVA.

***The sub-Committee may discuss.***