

## North Eastern Regional Power Committee

### Agenda For

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

Time of meeting : 10:30 Hrs.

Date of meeting : 8<sup>th</sup> February, 2012 (Wednesday)

Venue : "SLDC Conference Hall", TSECL, Agartala.

A. CONFIRMATION OF MINUTES
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#### CONFIRMATION OF MINUTES OF 69<sup>th</sup> MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 69<sup>th</sup> meeting of Operation Sub-committee held on 10<sup>th</sup> January, 2012 at Guwahati were circulated vide letter No. NERPC/AS/OCC/2011/4199- 231 dated 18<sup>th</sup> January, 2012.

*No observations or comments were received from the constituents. The Sub-committee may confirm minutes of 69<sup>th</sup> OCCM of NERPC.*

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

As per the data made available by NERLDC, the grid performance parameters for January, 2012 are given below:

- i) **Average frequency** during January, 2012 was 49.84 Hz, as compared to 49.71 Hz in December, 2011.
- ii) **Minimum frequency** in January, 2012 was 48.99 Hz (19.01.12 at 19:08 hrs) as compared to 48.82 Hz recorded in the previous month.
- iii) **Maximum frequency** was 50.84 Hz (02.01.12 at 04:02 hrs), as compared to 50.42 Hz in December, 2011.

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- iv) **System frequency** remained within permissible range of 49.5 Hz to 50.2 Hz for 89.66 % of the time, below 49.5 Hz for 5.23 % and above 50.2 Hz for 5.11% of the time as compared to 81.65 %, 17.72% and 0.62 % of the time respectively in the previous month.
- v) **Regional peak** demand in January, 2012 was 1699 MW as compared to 1745 MW in December, 2011, a decrease of 2.64% over the previous month.
- vi) **Energy requirement** was 905.34 MUs in January, 2012 compared to 878.77 MUs in December, 2011, an increase of 3.02 % over the previous month.
- vii) **Regional energy availability** in January, 2012 was 820.33 MUs compared to 800.14 MUs in the previous month, an increase of 2.52 % over the previous month.
- viii) **Rise in demand** was recorded in Meghalaya (6.37%), Mizoram (4.29%), Tripura (1.20%) & Assam (0.42%) over the previous month.
- ix) **Drop in demand** was recorded in Manipur (9.57%), Ar. Pradesh (9.43%) & Nagaland (2.86%) over the previous month viz. December, 2011.
- x) **Over Voltages** at 400 kV substations were observed at Bongaigaon, Misa and Balipara, where maximum voltage observed were 425 kV, 433 kV and 425 kV respectively.
- xi) **No over Voltages** were observed at 220 kV S/S and 132 kV S/S.
- xii) **No Under Voltages** were observed at 400 kV S/S, 220 kV S/S. Under voltage, observed at 132 kV S/S at Aizawl, was 120 kV.
- xiii) **Regional Generation & Inter-regional Exchanges** during the month of January, 2012 compared to December, 2011 are given below:

SN	Parameter	January, 2012	December, 2011
<b>REGIONAL GENERATION &amp; INTER - REGIONAL EXCHANGES (in MU)</b>			
1	Total Generation in NER (Gross)	579.450	587.341
2	Total Central Sector Generation in NER (Gross)	323.929	341.147
3	Inter-Regional Energy Exchanges		
	(a) NER - ER	2.32	0.44
	(b) ER - NER	279.24	246.42
	(c) Net Import	276.92	245.98

C. FOLLOW UP ACTION

C. 1 Installation of new Under Frequency Relays (UFRs) in NER constituent systems and constituent-wise load relief quantum as recommended by the sub-committee:

All the constituents of NER has completed installation of UFR, except Manipur.

In Manipur, the work is under progress & would be completed by Feb' 2012

*Manipur may intimate the current status.*

C. 2 Bus transfer facility at 132 KV Gohpur (AEGCL) Sub-station:

During the 69<sup>th</sup> OCC meeting, CM, POWERGRID stated that they have already referred the matter to their SEF Department.

Member Secretary I/C had requested POWERGRID to examine the feasibility for creation of Bus transfer facility in the existing Sub-station so that the same can be discussed in the next TCC/RPC meeting. POWERGRID agreed.

*POWERGRID may intimate the current status*

C. 3 Non-utilization of transfer facility at Khandong HEP:

In the 69<sup>th</sup> OCC meeting, the Sub-committee suggested NEEPCO to continue with the existing bus conductor till the load flow study is carried out by NERLC/CEA as desired by NEEPCO.

*NERLDC may intimate the current status*

C. 4 Software Problem in DCD

During the 69<sup>th</sup> OCC meeting, CM POWERGRID informed that their engineer would be deputed by 15.01.2012 to look into matter regarding installation of SEM at Jiribam (Manipur) substation and the status would be intimated in the next OCC meeting.

*POWERGRID may intimate the current status*

C. 5 Implementation of Single-Phase Auto-Reclosure (SPAR) scheme for of Transmission Lines:

In 12<sup>th</sup> RPC meeting, the schedule for implementation of SPAR scheme for following transmission lines was decided as indicated below and the respective constituents

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were requested to give the status of implementation of SPAR scheme.

Sr. No.	Name of the Line	Ownership	Status as given on 12 <sup>th</sup> NERPC meeting.
1	220kV Kopili - Misa # I & II	KHEP, NEEPCO	January, 2012
2	220kV Salakati - BTPS - I & II	BTPS, AEGCL	February, 2012
3	220kV Balipara - Samaguri	Samaguri, AEGCL	March, 2013
4	132kV Khandong - Haflong	KHEP, NEEPCO	June, 2012
5	132kV Khandong - Kopili	KHEP, NEEPCO	June, 2012
6	132kV Loktak - Jiribam # II	Loktak, NHPC	March, 2012.
7	132kV Ranganadi- Ziro	RHEP, NEEPCO	*

During the 69<sup>th</sup> OCC meeting, NEEPCO expressed their unwillingness to replace the CBs at their ends as these CBs are less than 10 (ten) years old. It was suggested that if Ar. Pradesh is interested to buy these CBs from NEEPCO and use at their sub-stations then the same may be communicated to NEEPCO for further necessary action. NERPC also stated that once the SPAR is implemented then the problem of frequent tripping in Ar. Pradesh line would be minimized. NERPC had requested Ar. Pradesh to look into the matter and communicate their decision at the earliest.

\*During the 69<sup>th</sup> OCC meeting, SE, Dept. of Power, Govt. of Ar. Pradesh stated that since this is a matter of policy decision it would not be possible for him to decide in the meeting. He requested NERPC Secretariat to write to Dept. of Power, Govt. of Ar. Pradesh so that the matter could be resolved.

NERPC, vide their letter dated 30.01.2012, had written to the Secretary (Power), Govt. of Arunachal Pradesh to look into the matter at the earliest and intimate NERPC Secretariat about their action plan on this matter. No communication has been received so far from Govt. of Arunachal Pradesh.

***Ar. Pradesh may kindly intimate the status on this issue.***

### **C. 6 Installation of Harmonic filters:**

In the 69<sup>th</sup> OCC meeting, SE, Ar. Pradesh informed that Satyam Plant has already installed the harmonic filters at their plant. Further, he informed that Statutory body have issued completion certificate. POWERGRID disagreed with the statement of AP.

The Committee suggested that Ar. Pradesh should furnish the above certificate and the same would be discussed in the next OCC meeting.

***Ar. Pradesh may kindly intimate the status on this issue.***

**C. 7 Status of 132 KV Kopili – Khandong 2<sup>nd</sup> Ckt:**

During the 69<sup>th</sup> OCC meeting, POWERGRID had informed that the Final Forest Clearance has been received and POWERGRID has started mobilizing the team to carry out the construction of 4 (four) remaining towers of above line and the work would be completed by January, 2012.

***POWERGRID may inform about the current status.***

**C. 8 Restoration of LILO of 132 KV Dimapur (Nagaland) – Kohima )Nagaland) line at 220/132 KV Dimapur (PG) S/S.**

During the 65<sup>th</sup> OCC meeting, the sub-Committee decided that POWERGRID may plan for taking shutdown of the line for carrying out LILO work at 220/132 KV Dimapur (PG) substation after restoration of 132 KV Karong – Kohima line.

In the 69<sup>th</sup> OCC meeting, NERLDC informed that 132 KV Karong – Kohima line was restored on 19.12.2011. Since both the representatives from Manipur and Nagaland were not present the status could not be discussed

***Nagaland/Manipur may inform about the current status of Karong – Kohima line and Powergrid may inform about their shut down plan.***

**C. 9 VSAT Communication:**

NERLDC informed that VSAT equipments have already been delivered at their respective sites; testing and commissioning is under progress. The commissioning schedule of the VSAT equipment in Arunachal Pradesh, Manipur, Mizoram and Nagaland is on 15th March,2012. For utilization of the VSAT system, the above constituents are requested to provide Fax machine & PC with Uninterrupted Power Supply (UPS).

Regular service can start from 1st week of April, 2012 subject to usage charge (approx. Rs.08, 62,782 per year) are shared by above mention constituents and payment is made to NERLDC by 20th March, 2012.

***Members may like to discuss.***

**C. 10 Requirement of SEMs and Data Collecting Device (DCD)s in NER:**

NERLDC informed that SEMs & DCDs are required in NER due to commissioning of new elements in coming months and the matter may be expedited due to statutory requirement. NERLDC had projected total requirement of 191 SEMS and 61 DCDs up to 2013-14. Presently there is no stock of DCD & only 6 nos of SEMs are available in stock.

***POWERGRID may inform about the current status.***

**C. 11 Demand for Assam & Arunachal Pradesh:**

NERLDC informed that demand for Assam & Arunachal Pradesh – (area wise demand & for others – total demand), Generation Pattern of States, Generation Pattern of ISGS, Outage Planning of transmission elements, outage planning of generation elements for fifth month i.e. Jun12 is necessary. These data are required for calculation of TTC/ATC to facilitate STOA.

***Assam & Arunachal Pradesh may inform the action plan.***

**C. 12 Machine Data for Dynamic Simulation for NER Power System :**

During the 69<sup>th</sup> OCC meeting, NERLDC had informed that they would undertake dynamic study of NER system for ensuring security and stability of the grid. For this purpose technical data of all generating units are urgently required. Accordingly, NERLDC had circulated the proforma during the meeting and requested all the constituents to submit the relevant information by January, 2012.

***NERLDC may inform about the current status.***

**C. 13 Draft Report covering Black Start & Restoration Procedure of NER:**

The issue has been discussed in various OCC meetings and as per IEGC, annual operating procedure covering Black Start etc., need to be prepared by NERLDC for the region. Draft report in CD was distributed to all the constituents. All were requested to furnish comments/views/changes to incorporate these in final version of this document by 17th Feb'12.

***Members may like to discuss***

<b>D. NEW ITEMS</b>
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**D. 1 Prolonged outage of 132 KV Kopili – Khandong – I.**

Assam, vide their letter dated 02.02.2012, has informed that the schedule of shut down of 132 KV Kopili – Khandong – I was fixed from 15.01.2012 to 23.01.2012 and then on 28.01.2012 & 03.02.2012. This schedule has been violated and the line has not been restored back till date. Prolonged outage of 132 KV Kopili – Khandong line I has seriously affected the normal power supply to South Assam and other parts of 132 KV pocket of NER grid, especially during peak load hours

***POWERGRID may inform about the reason of delay.***

**D. 2 Month-wise anticipated generation (MW &MWH) of all ISGS.**

Assam, vide their letter dated 02.02.2012, has informed that for comprehensive power system planning as well as for chalking out the requisite plans for commercial dealings through bilateral exchange and exchange through bidding at power exchanges etc., it is necessary to prepare LGBR well in advance for onward submission to the commercial wing of APDCL

Assam requested that all ISGS of NER may furnish the "Monthly Anticipated Generation – both in terms of MW and MWH for the year 2012-13" at the earliest.

***Committee may like to discuss.***

**D. 3 Implementation of Automatic Demand Management Schemes.**

Assam, vide their letter dated 02.02.2012 has informed that CERC has issued order on Suo-moto petition No. 208/2011 dated 07/12/2011 in the matter of "Implementation of Automatic Demand Management Schemes in compliance of CERC (IEGC) Regulation, 2010" enlisting the SLDCs of the country as respondents. In response to that Assam had deposed before the honorable commission on 10.01.2012 besides filing an affidavit with hon'ble commission to implement the scheme at the earliest possible date. CERC has taken it very seriously that most of the states have failed to understand the gravity of the matter in its true perspective for implementation of the scheme. In course of the hearing on the matter, NLDC opined that the scheme be put in place either through SCADA or through PLC without any further delay.

***Committee may like to discuss***

**D. 4 Re-scheduling of approved shutdown.**

Re-scheduling of OCC approved shutdown should be avoided as NERLDC has to revise TTC/ATC and curtailment of demand along with co-ordination with other regions & NLDC.

However, only in case of exigency rescheduling by NERLDC/Constituents on any planned approved shut down may be deferred in consultation with NERLDC.

***Committee may like to discuss***

**D. 6 NERLDC informed that the 132 kV Balipara – Nirjuli – Gohpur - Balipara looping arrangement should be tested in consultation with NERLDC at a suitable time and AEGCL is requested to check the phase sequence of Balipara – Gohpur line at Gohpur end of AEGCL.**

***Committee may like to discuss***

**D. 7 Transformer Tap Optimization required to operate the system within permissible voltage limit**

NERLDC informed that transformer data are required to carry out system study on the issue. Further, the format for furnishing relevant transformer data was distributed by NERLDC long back wherein it was requested to furnish the relevant data by Feb12.

*Committee may like to discuss*

**D. 8 State-wise anticipated peak demand/requirement, shortage for February, March, April, May & June, 2012.**

*The sub-Committee may review the anticipated peak demand/energy requirement and finalize the same for the months of February-May, 2012.*

S.No.	State	Peak Demand (MW) Feb' 12	Peak Demand (MW) Mar' 12	Peak Demand (MW) Apr' 12	Peak Demand (MW) May' 12	Peak Demand (MW) Jun' 12
1	Ar. Pradesh	110	105	110	110	
2	Assam	1000	1020	1000	1050	
3	Manipur	110	110	100	100	
4	Meghalaya	255	265	260	260	
5	Mizoram	75	75	70	70	
6	Nagaland	105	110	105	105	
7	Tripura	110	200	210	195	
	Region	1885	1835	1835	1890	

*The sub-Committee may review the anticipated peak availability and finalize the same for the months of February-May, 2012.*

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S.No.	State	Peak Availability (MW) Feb' 12	Peak Availability (MW) Mar' 12	Peak Availability (MW) Apr' 12	Peak Availability (MW) May' 12	Peak Availability (MW) Jun' 12
1	Ar. Pradesh	80	75	70	65	
2	Assam	875	850	800	800	
3	Manipur	80	75	70	70	
4	Meghalaya	200	200	190	185	
5	Mizoram	50	45	45	40	
6	Nagaland	85	80	75	70	
7	Tripura	140	135	130	120	
	Region	1510	1460	1380	1350	

### **D. 9 Generation Planning (ongoing and planned outages)**

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

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

The shutdown proposal by NEEPCO/NHPC is enclosed at **Annexure D. 9**.

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

### **D. 10 Outage Planning Transmission elements**

The Sub-committee may discuss and approve the transmission line outages proposed for February/March, 2012 by PGCIL (at **Annexure D. 10**).

*The sub-Committee may discuss.*

**D. 11 Estimated Transmission Availability Certificate (TAC) for the month of January, 2012.**

The Transmission System Availability (TSA) for the month of December, 2011 was **99.9961%** and accordingly the final TAC has been issued by NERPC, vide their letter No: NERPC/OP/TAC/2012/4419 dated 31.01.2012.

The Estimated Transmission System Availability for the month of January, 2012, furnished by PGCIL, is **99.9922 %** as per details at **Annexure D. 11**. NER constituents are requested to kindly communicate their views and observations, if any, by 27<sup>th</sup> February, 2012 so that Final TAC for the month of January, 2012 can be issued.

*The Sub-Committee may like to discuss and approve the provisional figure of TAC for January, 2012.*

**D. 12 Major grid disturbances in the previous month (January, 2012 )**

As intimated by NERLDC, there was no major grid disturbance in the month of January, 2012.

*The sub-Committee may kindly note.*

**D. 13 Any other item**

**D. 14 Date and Venue of next OCC**

It is proposed to hold the 71<sup>st</sup> OCC meeting of NERPC on 9<sup>th</sup> March, 2012 (Friday). As per roaster, NEEPCO will be the host for 71<sup>st</sup> OCC meeting. The exact venue will be intimated in due course.

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