

North Eastern Regional Power Committee

MINUTES OF THE 115th OPERATION COORDINATION

SUB-COMMITTEE MEETING OF NERPC

Date : 24/11/2015 (Tuesday)
Time : 10:00 hrs
Venue : "State Guest House", Tawang.

The List of Participants in the 115th OCC Meeting is attached at **Annexure - I**

Shri P.K. Mishra, Member Secretary, NERPC welcomed all the participants to the 115th OCC meeting. He noted with concern the absence of delegates from Mizoram, Nagaland and requested the members to adhere to the 15th NERPC meeting decision. He requested all the members to actively participate in the meeting.

Thereafter, Member Secretary requested Shri B. Lyngkhai, Director/SE(O) to take up the agenda items for discussion.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 114th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

SE(O) informed that minutes of 114th meeting of Operation Sub-committee held on 09th October, 2015 at Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2015/4556-91 dated 20/10/2015.

Since no comments/observations were received from the constituents, the Sub-committee confirmed the minutes of 115th OCCM of NERPC.

ITEMS FOR DISCUSSION

B. OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING OCTOBER, 2015

As per the data made available by NERLDC, the grid performance parameters for September, 2015 are given below:

NER PERFORMANCE DURING OCTOBER, 2015

States	Energy Met (MU)		w.r.t. Sep,15 % inc (+) /dec (-)	Energy Reqr. (MU)		w.r.t. Sep,15 % inc (+) /dec (-)	% inc (+) /dec (-) of energy reqr vs met. In Oct, 15
	Oct-15	Sep-15		Oct-15	Sep-15		
Ar. Pradesh	57.43	51.7	11.08	58.77	52.8	11.31	-2.33
Assam	771.68	759.9	1.55	811.01	805.7	0.66	-5.10
Manipur	68.63	63.7	7.74	70.27	65.3	7.61	-2.39
Meghalaya	134.65	152.3	-11.59	146.86	152.8	-3.89	-9.07
Mizoram	36.42	34.1	6.80	37.51	34.9	7.48	-2.99
Nagaland	64.51	59.9	7.70	65.82	61.4	7.20	-2.03
Tripura	118.20	101.6	16.34	119.88	105.5	13.63	-1.42
Region	1251.52	1223.1	2.32	1310.11	1278.4	2.48	-4.68

States	Demand Met (MW)		w.r.t. Sep,15 % inc (+) /dec (-)	Demand in (MW)		w.r.t. Sep,15 % inc (+) /dec (-)	% inc (+) /dec (-) of Demand vs met. In Oct, 15
	Oct-15	Sep-15		Oct-15	Sep-15		
Ar. Pradesh	125	122	2.46	129	122	5.74	-3.10
Assam	1329	1325	0.30	1491	1435	3.90	-10.87
Manipur	147	146	0.68	146	146	0.00	0.68
Meghalaya	322	283	13.78	323	285	13.33	-0.31
Mizoram	81	89	-8.99	81	90	-10.00	0.00
Nagaland	119	120	-0.83	122	121	0.83	-2.46
Tripura	269	268	0.37	269	269	0.00	0.00
Region	2301	2255	2.04	2401	2442	-1.68	-4.16

REGIONAL GENERATION & INTER-REGIONAL EXCHANGE IN MU

Month---->	Oct-15	Sep-15
Total Generation in NER (Gross)	1203.83	1363.53
Total Central Sector Generation (Gross)	854.62	931.72
Total State Sector Generation (Gross)	349.21	431.81
Inter-Regional Energy Exchange		
(a) NER-ER	36.16	170.49
(b) ER-NER	178.45	82.19
© Net Import	142.29	-88.30

AVERAGE FREQUENCY (Hz)

Month---->	Oct-15	Sep-15
	% of Time	% of Time
Below 49.9 Hz	14.05	29.97
Between 49.9 to 50.05 Hz	69.60	60.13
Above 50.05 Hz	16.35	9.90
Average	49.98	49.94
Maximum	50.33	50.33
Minimum	49.62	49.52

DGM(AM), NERTS informed the forum that the 63MVA reactor at Byrnihat S/S has not been replaced still now, which is causing unnecessary voltage rises in the grid.

SE(O) reassured that the matter has been taken up with the highest authority of MePTCL and they have informed that necessary action has been taken by them in this regard.

The Sub-committee noted as above and requested to monitor the status every month along with other elements.

FOLLOW UP ACTION

C.1 Status of Generating Units, Transmission Lines in NER:

During 114th OCC meeting, the status as informed by NTPC, NEEPCO and POWERGRID is as follows:

SN	Items	Status as given in 115th OCC Meeting	Status as on 114th OCC
1	Trial operation and CoD of Unit -I of Bongaigoan TPS of NTPC	COD is expected by March, 2016.	COD is expected by December, 2015. Infirm power injection to grid in same month.
2	400/220kV, 2x315 MVA ICT of NTPC at Bongaigaon	March, 2016	December, 2015
3	Trial operation and CoD of Monarchak GBPP of NEEPCO	CoD depends upon availability of gas. Expected by March 2015.	CoD depends upon availability of gas. Expected by March 2015.
4	Kameng HEP of NEEPCO two units (2 x 150 MW) Next two units (2x150 MW)	December, 2016 March, 2017	November, 2016 March, 2017
5	Pare HEP of NEEPCO (2 x 55 MW)	June, 2016	June, 2016
6	400 kV D/C Silchar - Melriat line of PGCIL	December, 2015	December, 2015
7	220kV Rangia - Salakati of AEGCL	June, 2016	June, 2016
8	132kV Monarchak – Surjamaninagar D/C of TSECL	March, 2016	March, 2016
9	400/132 kV, 2nd 125 MVA ICT at Palatana	June, 2016	June, 2016

10	132kV Pasighat – Aalong of Ar. Pradesh	March, 2016	March, 2016
11	132kV Surjamaninar (India)- South Commila (Bangladesh)	December, 2015	December, 2015
12	132kV Doyang- Wokha	-	No representative from Nagaland
13	220 kV, 20 MVAR Bus Reactor at AGBPP	December, 2015	December, 2015
14	132kV Bay at Palatana for Palatana- Surjamaninagar	June, 2016	-

The Sub-committee noted as above.

C.2 CT Ratio of Transmission Lines & Enhancement of Loadability of lines in NER:

During 113rd OCC meeting, DGM (SO-II), NERLDC requested to review / prioritize the lines where changing of CT ratio as per NRCE guidelines (e.g. 495 A for 132 kV lines (Panther Conductor) at Design Temperature of 75^o) is really required. DGM (SO II), NERLDC informed that the list of transmission lines in which CT ratio is to be changed as per NRCE guidelines was prioritized and attached at 113rd MoM.

During 114th OCC meeting, the Sub-Committee decided that the CT would be changed in a phased manner depending on severity of criticality as per priority list drawn up by NERLDC. The list will be posted in NERPC website. The status is to be intimated to NERPC by the respective agencies and will be reviewed in OCC meetings.

Deliberation of the Sub-Committee

The Sub-Committee decided that the list of 13 Major lines for which CT change is required would be circulated with the MoM. The status is to be intimated to NERPC by the respective agencies and will be reviewed in OCC meetings. The list is at **Annexure – C.2**

The Sub-Committee noted as above.

C.2 (a) Load-ability of 132 kV Lumshnong - Panchgram line:

It has been observed from system study that 132 kV Badarpur – Khliehriat line will be highly loaded in case of 700 MW Palatana generation. To reduce the loading of 132

kV Badarpur – Khliehriat line, 132 kV Lumnsnong – Panchgram Line is to be connected in loop. However, it has been seen that loading of 132 kV Lumshnong – Panchgram Line will be around 80 MW in case of tripping of 132 kV Badarpur – Khliehriat line. Hence, loading capacity of 132 kV Lumnsnong – Panchgram Line is to be enhanced.

During 113rd OCC meeting, AGM, AEGCL informed that DPR from MePTCL has not been received till date and requested MePTCL to forward the same at the earliest. MePTCL agreed.

SE, SLDC stated that Competent Authority has not approved the scheme since the power flow on this line at present is very less.

DGM (SO-II) informed that renovation of this line is very important for system operation since loading at this line will increase once Pallatana is generated to full capacity. Moreover, this line will add as redundancy to the system. He requested Meghalaya to take proactive action in the matter.

The Sub-committee suggested AEGCL & MePTCL to resolve the issue bilaterally regarding DPR and inform the status of progress to the forum.

Deliberation of the Sub-Committee

SE(O) informed the members that the matter has been taken up with Director(T), MePTCL who would forward DPR to AEGCL for any rectification, if required.

The Sub-Committee noted as above.

Action: MePTCL, AEGCL.

C.3 Single Line Diagram of Sub-stations, Switching Stations & Power Stations of NER:

During 114th OCC meeting, the status of SLDs was reviewed and the following constituents given below are to furnish the status of SLDs:

<i>Status of submission of data related to Single Line Diagram of Sub-stations</i>			
<i>Sl No</i>	<i>Name of Constituent</i>	<i>Data Submitted</i>	<i>Remarks</i>
<i>1</i>	<i>AEGCL</i>	<i>Partially</i>	<i>BRPL, Ghoramari, HPC, Jagiroad, HPC, Panchgram, Star Cement & CALCOM not submitted</i>

Deliberation of the Sub-Committee

After detailed deliberation, the Sub-committee requested AEGCL to furnish above information **by 30.11.2015**. It was decided to drop the item in the meantime and will be reviewed later on.

The Sub-committee noted as above.

Action: AEGCL

C.4 Progress Report of Ongoing Project:

During 114th OCC meeting, the Sub-committee requested NERLDC to compile the list of Progress Report of ongoing projects to be submitted by constituents in tabular format. Accordingly, NERLDC has furnished the latest status as given below and constituents have agreed to furnish the above information latest by **17.10.2015**:

Status of submission of Progress Report of Ongoing Projects			
Name of Constituent	Name of Constituent	Name of Constituent	Remarks
DoP, Ar. Pradesh	DoP, Arunachal Pradesh	DoP, Arunachal Pradesh	Submitted upto Aug'15
AEGCL	AEGCL	AEGCL	
APGCL	APGCL	APGCL	
MSPCL	MSPCL	MSPCL	
MePTCL	MePTCL	MePTCL	
MePGCL	MePGCL	MePGCL	
P&E Deptt, Mizoram	P&E Deptt, Mizoram	P&E Deptt, Mizoram	
DoP, Nagaland	DoP, Nagaland	DoP, Nagaland	
TSECL	TSECL	TSECL	July'15 to be submitted in format
POWERGRID	POWERGRID	POWERGRID	Submitted
NEEPCO	NEEPCO	NEEPCO	Submitted
NTPC	NTPC	NTPC	Submitted
NHPC	NHPC	NHPC	NHPC requested to take up the matter with Corporate regarding Lower Subansiri HEP
OTPC	OTPC	OTPC	Status of 2nd ICT at Palatana to be submitted

Deliberation of the Sub-Committee

After detailed deliberation, the Sub-committee had decided that above information should be sent by all the remaining constituents to NERLDC/NERPC latest **by 30.11.2015**. The forum also unanimously decided that item would be reviewed on a quarterly basis.

The Sub-committee noted as above.

Action: All Remaining Utilities.

C.5 Conversion of line reactors of 400kV Balipara – Bongaigaon I&II to switchable line Reactors at Balipara & Bongaigoan:

During 114th OCC meeting, DGM (AM), NERTS informed that immediately two nos. of NGR by-pass equipments (Isolator & CT) of Ranganadi # 1 & 2 Feeder at Balipara will be available due to LILO of 400kV Balipara-Ranganadi Line at BNC. NERLDC suggested to install those in Bongaigaon Line Reactor # 1 & 2 at Balipara. Further, POWERGRID informed that balance items like 336kV LA & CSD is under procurement and the scheme will be installed by December 2015.

Deliberation of the sub-Committee:

DGM (AM), NERTS informed that at Balipara end equipments are available while for Bongaigaon end equipments need to be procured afresh. At Balipara end work would be completed by January, 2016 and at Bongaigaon end would be completed by March, 2016, if procurement is not delayed.

The Sub-committee noted as above.

Action: POWERGRID.

C.6 Finalization of Operating Procedures of State Grid of NER:

As per clause no 5.1.g of IEGC, detailed operating procedures for each state grid shall be developed and maintained by the respective SLDC.

Latest status of approval of these documents from OCC forum of NERPC is as follow:-

SI No	Description	Status of approval from OCC forum of NERPC
1	Operating Procedure of Ar. Pradesh 2015	Not submitted
2	Operating Procedure of Assam 2015	Submitted
3	Operating Procedure of Manipur 2015	Not submitted
4	Operating Procedure of Meghalaya 2015	Submitted
5	Operating Procedure of Mizoram 2015	Not submitted
6	Operating Procedure of Nagaland 2015	Not submitted
7	Operating Procedure of Tripura 2015	Not submitted

During 113rd OCC meeting, the Sub-committee requested NERLDC/NERPC to circulate the Operating Procedures of Assam to other SLDCs of NER so that Operating Procedures can be finalized by remaining SLDCs of NER.

Deliberation of the sub-Committee:

The Sub-Committee decided that operating procedures of all remaining constituents would be submitted latest by 06/12/2015.

The Sub-committee noted as above.

Action: All constituents as above.

C.7 Persistent over voltage at Palatana:

NERLDC informed that it has been observed that bus voltage at Palatana is persistently remaining above the upper limit of IEGC band which is not desirable from system operation point of view. The 80 MVAR bus reactor installed at Palatana has not yet been put in service. OTPC is requested to take action for early operation of the Reactor so that the same can be used for maintaining voltage at desired level.

During 114th OCC meeting, OTPC representative informed that reactor is now ready and requested NERLDC to give the Code on suitable date so that for Bus Reactor can be charged at the earliest.

Deliberation of the sub-Committee:

GM, NERLDC informed the forum that based on system conditions code will be given to OTPC for charging of 80 MVAR bus reactor at Palatana GBPP. It was decided to drop the item in the meantime.

The Sub-Committee noted as above.

Action: OTPC

C.8 No PLCC Panels in two feeders of MSPCL:

NHPC informed that at Loktak Power Station, no PLCC Panels are installed in two nos. of 132 kV feeders of MSPCL i.e. Loktak – Ningthoukhong 132 kV feeder and Loktak - Rengpang 132 kV feeder. Since PLCC Panel is very important equipment for Protection of the feeders and even communication between two station. This issue was already raised in the previous meetings several times.

During 113rd OCC meeting, representatives of MSPCL informed that the PLCC Panels for said lines has already been included in the scope of ongoing R&M works of

their Substations. The forum requested Manipur to verify the detail scope and inform in next OCCM.

Subsequently during 38th PCC meeting, MSPCL informed that sufficient progress has been made and the above works have been awarded to ABB as a Turnkey Project. Commissioning of PLCC panels will take place within the stated deadline i.e. 30.11.15.

Deliberation of the sub-Committee:

MSPCL informed the forum that due to inadvertent reasons the project has been delayed. The revised deadline would be intimated by them in due course of time.

The Sub-Committee requested NERPC to take up the matter with MD, MSPCL and the work should be completed at the earliest.

Action: MSPCL & NERPC

C.9 Line loading of 132kV Dimapur – Bokajan Line:

Assam stated that on 21/08/15 at 18:04 hrs line loading of 132KV Dimapur-Bokajan line increased up to 65 MW. As a result, NERLDC shillong instruct SLDC, Assam to open the line at Bokajan instantaneously. Instead of opening this line at Bokajan SLDC, Assam opened this line at 132KV Golaghat substation where power flow was 18MW towards Mariani. As a consequence all LTPS machines tripped in operating under frequency relay. It is therefore requested to discuss this incident in next OCC meeting for discussion whether the situation at that time was so alarming that NERLDC instrumental to open the 132 KV line at 65 MW of Load.

During 114th OCC meeting, DGM(AM), NERTS informed that the CT ratio of 600/1 would be replaced at Dimapur(PG) within **30.10.2015**.

Deliberation of the sub-Committee:

AEGCL informed that 75-80 MW is the maximum loading of the line, so 400/1 CT would be sufficient. POWERGRID agreed to the proposal. The forum agreed to drop the above agenda.

The Sub-Committee noted as above.

Action: NERTS

C.10 Monthly MU requirement & availability of each state of NER as per format:

The following figures of state wise MU requirement and availability were taken from draft LGBR 2015-16 of NERPC. State wise MU requirement and availability for these months are to be checked. Constituents may kindly verify if the above data are correct.

Requirement:

Name of State	Nov15	Dec15	Jan16	Feb16	Mar16
Ar. Pradesh	67	67	67	57	70
Assam	700	700	680	650	700
Manipur	75	75	80	70	75
Meghalaya	190	202	215	185	190
Mizoram	43	45	47	40	45
Nagaland	72	69	65	65	70
Tripura	110	120	125	100	125
NER	1257	1278	1279	1167	1275

Availability:

Name of State	Nov15	Dec15	Jan16	Feb16	Mar16
Ar. Pradesh	50	45	48	40	50
Assam	605	550	590	550	600
Manipur	70	65	70	60	65
Meghalaya	220	200	180	145	140
Mizoram	40	40	42	40	45
Nagaland	60	55	55	50	50
Tripura	190	195	200	150	170
NER	1235	1150	1185	1035	1120

The Sub-Committee noted as above.

C.11 Monthly MW requirement & availability of each state of NER:

The following figures were taken from LGBR 2015-16 of NERPC. These figures are to be reviewed.

A. Peak Demand in MW

Name of State	Nov15	Dec15	Jan16	Feb16	Mar16
Ar. Pradesh	128	128	133	130	135
Assam	1400	1460	1400	1260	1410
Manipur	149	149	165	148	155
Meghalaya	410	425	375	350	400
Mizoram	90	95	90	85	90
Nagaland	135	130	125	120	130
Tripura	280	255	250	240	275
NER	2592	2642	2538	2333	

B. Peak Availability in MW

Name of State	Nov15	Dec15	Jan16	Feb16	Mar16
Ar. Pradesh	127	126	118	110	130
Assam	1200	1200	1195	1150	1170
Manipur	140	128	145	128	140
Meghalaya	380	350	325	280	250
Mizoram	95	90	85	85	80
Nagaland	100	90	95	90	95
Tripura	403/230	403/230	403/230	403/230	403/230
NER	2445	2445	2375	2243	2268

*Tripura indicates 400/230 if Pallatana available/if not available

B.1. Off Peak Demand in MW (08:00 Hrs)

Name of State	Nov15	Dec15	Jan16	Feb16	Mar16
Ar. Pradesh	70	70	73	70	80
Assam	980	1020	1030	1020	1050
Manipur	97	95	95	90	95
Meghalaya	231	234	230	220	220
Mizoram	59	62	60	55	55
Nagaland	78	80	85	75	80
Tripura	184	180	190	170	180
NER	1439	1641	1638	1700	1760

B.2. Off Peak Availability in MW (08:00 Hrs)

Name of State	Nov15	Dec15	Jan16	Feb16	Mar16
Ar. Pradesh	60	60	65	60	70
Assam	850	840	850	900	950
Manipur	95	90	90	80	85
Meghalaya	350	300	275	245	230
Mizoram	65	60	60	60	55
Nagaland	60	55	70	60	65
Tripura	240	240	240	240	240
NER	1720	1645	1650	1645	1695

The Sub-Committee noted as above.

D. NEW ITEMS

D.1 Generation Planning (ongoing and planned outages)

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

Generating Station	Units running	MW	MU	Reservoir
Khandong				
Kopili				
Kopili-II				
Ranganadi			Subject to inflow	
Doyang				
Loktak				
AGBPP			-	-
AGTPP			-	-

Hydro planning

In view of outage of Kopili units, proper planning is essential for utilization of available water of other reservoir based stations so that adequate generation can be maintained upto April/May, 2016.

OTPC informed that U# 2 is proposed for shutdown from 25/01/2015 to 07/02/2015 for boiler license renewal and combustion inspection after 8000 Hrs running.

The sub-committee noted as above.

D.2 Outage Planning Transmission elements

It was agreed in the 99th OCC meeting that shutdown will be availed only after approval is given by the OCC forum. It was also agreed that deferment/revision of outages elements other than already approved in OCC will be henceforth put/displayed in the website of NERPC (**under Operational Activities/OCC Approved shutdown**) as per CERC regulations/ CEA guidelines etc for ensuring smooth & secure grid operation.

Furnishing request of shut down of the element, which was approved by NERPC, by Indenting Agency (ISTS licensees/STUs/Generating Companies) to NERLDC:

Planned shutdown approved by NERPC shall be considered for implementation by NERLDC on D-3 basis. If an outage is to be availed on say 10th of the month, the shutdown availing agency would reconfirm to NERLDC on 7th of the month by 10:00 Hr. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC.

SLDC, Ar. Pradesh vide email dated 14.11.2015 has intimated that shutdown consent given by shift-in charge SLDC Itanagar of 2.18 PM email and his subsequent email of 3.08 PM to EMG, KaHEP, NEEPCO and endorsed to you at 3.22 PM. They informed that after going through the request letter of the NEEPCO for shut down it has been concluded that the situation of the line was there for long and seem to be not of emergency nature. It is apparent that the NEEPCO has not done a proper reconnaissance of the line to be repaired as no proper location, quantum of works to be carried out or number of spans affected by the landslide reported to have occurred in the last Monsoon.

Therefore, Arunachal is doubtful that even if the consent for three days day shutdown is given, the works will be completed in time by the NEEPCO. The matter may be of different reasons as reduction of ground clearance will not occur suddenly at this season. If it was there, the AMC contractor NEEPCO had engaged should have detected during the Monsoon time only.

Therefore SLDC Itanagar is forced to withdraw the consent earlier given so long as the NEEPCO does not assess its own works to be carried out properly with the proper location and the quantum of works and place the matter for approval of the OCC forum at Tawang.

Deliberation in the meeting

The Sub-Committee took serious note of the impasse and viewed that in future all emergency S/Ds are to be given by NERLDC after due consultation with the affected states' SLDC. Planned shutdown would continue to be taken up in the OCC forum.

D.3 Furnishing Reactive Power Absorption Data for last one year:

As per Para no. 9.9.1 of Recommendations of Enquiry Committee on Grid Disturbance, the regulatory provisions regarding absorption of reactive power by generating units needs to be implemented.

It is requested that you may please furnish instances when Reactive Power support was provided by Generators for last one year.

The latest Capability Curve of each generator in Soft Copy may also be provided.

During 114th OCC meeting, the Sub-Committee intimated NEEPCO, OTPC and NHPC to furnish the data to NERLDC/NERPC latest by **31.10.2015**.

Deliberation in the meeting

OTPC has already submitted. NEEPCO, NHPC were requested to explore and submit revised data within 30.11.2015.

NERLDC requested all the constituents to submit this information regularly.

The Sub-Committee noted as above.

Action: NHPC, NEEPCO.

D.4 Furnishing of Technical & Commercial Data for Computation of PoC Charges & Losses for 3rd Quarter of 2015-16 (Oct'15- Dec'15):

As per provisions of the CERC (Sharing of Inter State Transmission Charges and Losses) Regulations, 2010 as amended from time to time, the following data are required for Computation of PoC Charges & Losses for **3rd Quarter of 2015-16 (Oct'15- Dec'15)**

1. Technical details of new transmission elements and generating units which are expected to commence commercial operation during **Oct'15- Dec'15**
2. Yearly Transmission Charges
3. Nodal Generation information and forecast withdrawal data

As per provisions of the CERC (Sharing of Inter State Transmission Charges and Losses) (Third Amendment), Regulations, 2015, the Designated ISTS Customers (DICs) are required to submit node-wise forecast injection/withdrawal information and maximum injection/withdrawal data for corresponding quarter of last three years to the Implementing Agency for computation of PoC Charges & Losses for **3rd Quarter of 2015-16 (Oct'15- Dec'15)**.

As discussed in 3rd Validation Committee Meeting held on 30th September, 2015, following dates were finalized for submission of data for **4th Quarter of 2015-16 (January -March, 2016)**.

SI. No.	Timeline	Remarks
1	31 st October, 2015	Data to be provided by DICs to IA
2	10 th November, 2015	Data to be sent by IA to RPC
3	25 th November, 2015	RPC to rectify the data through a meeting at RPC level and then send to IA by 25 th November, 2015
4	30 th November, 2015	Validation Committee meeting

In the 115th OCC meeting, the Sub-Committee decided that data required for rectification would be supplied to constituents well in advance by Implementing Agency(NLDC) so that rectification of data may be taken up in next OCC meeting.

The following figures for Demand and Generation projection for Q4 of 2015-16 have been agreed upon by the DICs of North-Eastern Region:

SI.No.	Entity	Demand	Generation
1	Arunachal Pradesh	103	-
2	Assam	1220	288
3	Manipur	150	-
4	Meghalaya	320	274
5	Mizoram	88	4
6	Nagaland	132	8
7	Tripura	220	87
8	AGTPP	-	84
9	AGTPP-Extn.	-	46
10	Doyang	-	35
11	Kopili	-	82
12	Khandong	-	37
13	Ranganadi	-	401
14	AGBPP	-	240
15	Loktak	-	105
16	Palatana	-	512

D.5 Meteorological Data submitted by Utilities:

A Workshop cum Meeting among IMD, NERLDC and Power Utilities of NER was organized by NERLDC on 12th September, 2015 at Guwahati. All the utilities were requested to furnish their requirements to NERLDC.

Prior to the workshop, some of the utilities had submitted their requirements which were sent to NERLDC earlier.

In the 114th OCC meeting, all the utilities were requested to go through their requirements again and send any other meteorological requirements by 31st October, 2015. The Sub-committee decided to drop the agenda for the time being.

The Sub-committee noted as above.

D.6 Demand Forecast Error:

At present day-ahead hourly load forecast data on daily basis is being prepared based on the data sent by SLDCs. It has been observed that there is a huge difference between the forecasted load and the actual demand met.

Deliberation in the meeting

It was decided that efforts would be made by SLDCs for accurate forecast in the near future. On a query by Tripura, NERLDC clarified that "Load forecasting" application is available in the old as well new SCADA package and the same should be fruitfully utilized.

The Sub-committee noted as above.

Action: NERLDC.

D.7 Up-dation of Restoration Procedure of NER Grid:

As mandated in IEGC, NERLDC will update the "Restoration Procedure of NER Grid" latest by 31st December, 2015. In this connection a letter has already been sent with a request to intimate the changes taken place during last one year in the network of respective constituents so that same can be incorporated in the procedure. Draft procedure will be uploaded before OCC meeting of December.

Deliberation in the meeting

Members were requested to submit data at the earliest.

The Sub-Committee noted as above.

D.8 Early Restoration of 63 MVAR line reactor at Balipara:

The 63 MVAR line reactor of 400 kV Bongaigaon – Balipara line –II at Balipara end is under outage since 19.07.2015. Early restoration of the reactor is very essential for containing over voltage problem which is very much on higher side after

commissioning of Agra- BNC HVDC pole-I specially during operation of the pole. Presently the problem is being managed by opening 400 kV lines thereby system security is compromised.

Early commissioning of 80 MVAR 2nd Bus reactor at BNC is also very much essential in this connection.

Deliberation in the meeting

DGM(AM), NERTS informed that 63 MVAR line reactor at Balipara would be commissioned by first week of December 2015.

D.9 Estimated Transmission Availability Certificate (TAC) for the month of October, 2015.

NETC and POWERGRID, NERTS have submitted TAC data of October, 2015 in the first/second week of November, 2015. This will enable issuance of verification by NERLDC and certification by NERPC on monthly basis within stipulated time frame. Both NETC and NERTS are advised to follow the agreed time schedule in future to avoid accumulation of reports and corresponding delay.

The subcommittee noted as above.

D.10 Workshop on Operational Issues of REC Framework

DGM, NERLDC intimated all constituents of NER Grid that a workshop to discuss Operational issues of REC Framework and provisions of CERC REC Regulations is scheduled to be held on 11th December 2015 at NLDC, New Delhi.

The workshop may be attended either at NLDC, New Delhi or at NERLDC, Shillong through Video Conferencing facility available at NERLDC.

He also requested all SLDCs and ISGSs of NER to nominate one or two executives for participation in the workshop.

Letter from NLDC and NERLDC regarding the workshop was circulated to all SLDCs and ISGS for information.

D.11 Constitution of Committee by FOLD to study existing Infrastructure, Manpower, Benchmarks etc. for LDCs and suggest future course of action for LDCs

DGM, NERLDC intimated all SLDCs of NER that the Forum of Load Despatchers (FOLD) has decided to constitute a committee to study existing Infrastructure, Manpower, Benchmarks etc. for LDCs and suggest future course of action for strengthening of LDCs. The intimation from FOLD has been received vide letter no. POSOCO/FOLD/858 dtd. 24.09.2015.

In this regard, FOLD has also circulated a draft Survey Questionnaire.

As per letter from DGM, NLDC, the aforementioned committee of FOLD will have representatives from SLDC, Meghalaya and NERLDC as it's committee members.

DGM, NERLDC distributed the letter from DGM, NLDC and Draft Survey Questionnaire to all SLDCs of NER for information and requested them to send the filled up questionnaire to NERLDC & NLDC at the earliest.

Date & Venue of next OCC meeting

It is proposed to hold the 116th OCC meeting of NERPC on second week of January, 2016. However, the exact date and venue will be intimated in due course.

The meeting ended with thanks to the Chair.

List of Participants in the 115th OCC Meetings held on 24/11/2015

SN	Name & Designation	Organization	Contact No.
1.	Sh. B.S. Kaneri, S.E.(E), PED	Ar. Pradesh	bskaneri@gmail.com
2.	Sh. Nangkong Perme, EE, SLDC	Ar. Pradesh	09436288643
3.	Sh. T. Mize, EE, PED	Ar. Pradesh	9436059758
4.	Sh. Sang Dorjee, AE(E), PED	Ar. Pradesh	9402878344
5.	Sh. M.K. Bordoloi, CGM, SLDC	Assam	9435203996
6.	Sh. M.K. Adhikary, GM(TRC)	Assam	9864049287
7.	Sh. K. Goswami, DGM(COM)	Assam	9864020019
8.	Sh. G.K. Bhuyan, AGM, AEGCL	Assam	09854015601
9.	Sh. K. Sharma, AGM(E)	Assam	9435013532
10.	Sh. B.C. Borah, AGM, SLDC	Assam	9435119248
11.	Sh. J.K. Baishya, AGM, SLDC	Assam	9435041494
12.	Sh. Adahrii Kayina, Dy. Manager, MSPCL	Manipur	8132823793
13.	Sh. G. Tapan Kumar Sharma, Manager	Manipur	8974138850
14.	Sh. C. Thangkiew. EE	Meghalaya	9436109140
15.	Sh. T. Gidon, EE	Meghalaya	9774479956
16.	No Representative	Mizoram	
17.	No Representative	Nagaland	
18.	Sh. M. Paul, Manager	Tripura	9436137022
19.	Sh. T.S. Singh, GM	NERLDC	
20.	Sh. A. Mallick, DGM (SO-II)	NERLDC	09436302720
21.	Sh. Anupam Kumar, Sr. Engineer	NERLDC	
22.	Sh. B.R. Meena, Sr. engineer	NERLDC	
23.	Sh. D. Bhattacharjee, GM, RHEP	NEEPCO	
24.	Sh. Abhijit Kalita, Sr. Manager	NEEPCO	
25..	Sh. N. Medhi, Sr. Manager	NEEPCO	
26.	Sh. Tanya Taji, Sr. Manager	NEEPCO	09436042053
27.	Sh. Engullie, DGM	NTPC	9435139531
28.	Sh. R. K. Tenzing, Engineer	NHPC	9436894885
29.	Sh. P. Kanungo, DGM (AM)	PGCIL	09436302823
30.	Sh. M. Madhavanand, Manager	PGCIL	9436335250
31.	Sh. narendra Gupta, manager	OTPC	9774233426
32.	Sh. T. Karmakar, Asst. Manager (E)	OTPC	09435239314
33.	Sh. P.K. Mishra, MS	NERPC	09968380242
34.	Sh. B.Lyngkhoi, Director/S.E (O)	NERPC	09436163419
35.	Sh. S. Mukherjee, AEE	NERPC	08794277306

Sl No	Name of Transmission Line	Transmission Line/ Generator under outage	Contingency	To be done in
1	132 kV AGTPP – Agartala I	132 kV AGTPP - Kumarghat	N-1 : 132 kV AGTPP - Agartala II	Phase –I
2	132 kV AGTPP – Agartala II	132 kV AGTPP - Kumarghat	N-1 : 132 kV AGTPP - Agartala I	Phase- I
3	132 kV AGTPP – Kumarghat	132 kV AGTPP – Agartala I	N-1 : 132 kV AGTPP - Agartala II	Phase-I
4	132 kV Palatana – Surjamaninagar	Nil	N-1 : 132 kV Palatana - Udaipur	Phase-I
5	132 kV Badarpur – Khliehriat	Nil	N-1-1 : 400 kV Silchar - Azara & 400 kV Silchar- Byrnihat	Phase-I
6	132 kV Badarpur – Kolasib - Aizawl	132 kV Jiribam - Aizawl	N-1 : 132 kV Kumarghat - Aizawl	Phase-I
7	132 kV Jiribam – Aizawl	132 kV Aizawl - Kolasib	N-1 : 132 kV Kumarghat - Aizawl	Phase-I
8	132 kV Loktak – Imphal	Nil	N-1 : 132 kV Loktak - Ningthoukong	Phase-I
9	132 kV Loktak – Ninghoukong	Nil	N-1 : 132 kV Loktak - Imphal	Phase-I
10	132 kV Jiribam - Haflong - Umrangshoo - Khandong	Nil	N-1-1 : 400 kV Silchar - Azara & 400 kV Silchar- Byrnihat	Phase-I
11	132 kV Ranganadi – Nirjuli	Nil	Nil	Phase-I
12	132 kV BTPS – Dhaligaon I	Nil	N-1 : 132 kV BTPS – Dhaligaon II	Phase-I
13	132 kV BTPS – Dhaligaon II	Nil	N-1 : 132 kV BTPS – Dhaligaon I	Phase-I