

**MINUTES OF THE 110th OPERATION COORDINATION
SUB-COMMITTEE MEETING OF NERPC**

Date : 17/06/2015 (Wednesday)

Time : 10:00 hrs

Venue : "Hotel Nandan", Guwahati.

The List of Participants in the 110th OCC Meeting is attached at **Annexure - I**

Shri P.K. Mishra, Member Secretary, NERPC welcomed all the participants to the 110th OCC meeting. He once again mentioned that many of the agenda items were repeated continuously in many OCC meetings; hence, he requested that these issues should be discussed in thread bear and should be resolved. He also requested all the members to actively participate in the discussion for fruitful outcome of the meeting.

He requested Shri M.K. Bordoloi, CGM (LDC), AEGCL to address the meeting. Shri Bordoloi stated that power supply position has improved comparing to last few months after commissioning of both modules of OTPC at Pallatana. However, he requested that OTPC should try to stabilize the units at the earliest for the benefit of the region.

Thereafter, Member Secretary requested Shri B. Lyngkhoi to take up the agenda items for discussion.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 109th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

SE(O) informed that the minutes of 109th meeting of Operation Sub-committee held on 20th May, 2015 at Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2015/4556-4591 dated 04th June, 2015.

DGM (AM), NERTS requested for amendment in **Item No. D.3** - regarding delay in returning of shutdown & wanted to incorporate the same as below:

Recorded:

During the 109th OCC meeting, the Sub-committee expressed concerned about delay in return of shutdown and this had occurred not only with Mizoram but almost all the constituents had suffered the same. The Sub-committee decided that the agency who is availing the shutdown should intimate to NERPC/NERLDC atleast 2 (two) hours in advance in case the shutdown could not be restored as per approved shutdown time, so that the same could be intimated to the affected State for necessary action. Moreover, the executing agency has to intimate to NERPC/NERLDC the proper justification about the reasons of non-completion as per approved shutdown period. If the same is not reported by the executing agency as stipulated above, all financial implications of the affected State (s) has to be compensated by the executing agency.

Amendment to be Recorded:

DGM (AM), NERTS stated that any financial transaction to be carried out will be as per CERC regulation. Further, he informed forum to enquire the practices followed in other region. He insisted that for better system operation NERPC / NERLDC should write to highest authority of executing agency if they fail to adhere the decision taken by the forum in regard to return of shut down in time OR intimate NERLDC two hours in advance in case of delay in returning shut down as per approved schedule. Since any financial matter has to be finalized by CERC, he requested that recording of above portion may kindly be deleted.

DGM (SO), NERLDC suggested that executing agency should apply shut down with sufficient time in hand to avoid such situation.

After detailed discussion, the sub-committee felt that in order to maintain discipline, executing agency has to adhere to above decision. However, the executing agency can clarify/justify the problem faced by them during the next OCC meeting so that financial matter would be reviewed by the sub-committee.

Since no other comments/observations were received from the constituents, the Sub-committee confirmed the minutes of 109th OCCM of NERPC.

ITEMS FOR DISCUSSION

B.1. OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING MAY, 2015

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

NER PERFORMANCE DURING MAY, 2015

States	Energy Met (MU)		w.r.t. Mar,15 % inc (+) /dec (-)	Energy Reqr. (MU)		w.r.t. Mar,15 % inc (+) /dec (-)	% inc (+) /dec (-) of energy reqr vs met. In Apr, 15
	May-15	Apr-15		May-15	Apr-15		
Ar. Pradesh	37	35	5.7	46	37	24.3	-19.5
Assam	668	582	14.8	710	629	12.8	-5.0
Manipur	60	52	15.4	69	56	23.2	-13.1
Meghalaya	130	129	0.8	130	130	0.0	0.0
Mizoram	37	31	19.4	40	33	21.2	-7.5
Nagaland	61	52	17.3	62	54	14.8	-1.6
Tripura	120	79	17.7	110	86	37.2	9.0
Region	1113	959	13.3	1167	1037	24.1	-4.62%

States	Demand Met (MW)		w.r.t. Mar,15 % inc (+) /dec (-)	Demand in (MW)		w.r.t. Mar,15 % inc (+) /dec(-)	% inc (+) /dec (-) of Demand vs met. In Apr, 15
	May-15	Apr-15		May-15	Apr-15		
Ar. Pradesh	109	114	-4.4	138	138	0.0	-21.1
Assam	1260	1282	-1.7	1382	1395	-0.9	-8.8
Manipur	153	148	3.4	160	150	6.7	-4.3
Meghalaya	295	312	-5.4	380	400	5.0	-22.2
Mizoram	84	80	5.0	85	85	0.0	-1.1
Nagaland	112	112	0.0	120	120	0.0	-6.6
Tripura	254	238	6.7	270	265	1.88	-5.9
Region	2267	2114	3.4	2535	2220	15.9	-10.5%

REGIONAL GENERATION & INTER-REGIONAL EXCHANGE IN MU

Month---->	May-15	Apr-15
Total Generation in NER (Gross)	860	773
Total Central Sector Generation (Gross)	570	527
Total State Sector Generation (Gross)	290	246
Inter-Regional Energy Exchange		
(a) NER-ER	6.76	10.63
(b) ER-NER	276.34	244.10
© Net Import	269.58	233.47

AVERAGE FREQUENCY (Hz)

Month---->	May-15	Apr-15
	% of Time	% of Time
Below 49.9 Hz	15.82	14.86
Between 49.9 to 50.05 Hz	64.74	60.24
Above 50.05 Hz	19.44	24.9
Average	49.98	49.96
Maximum	50.55	50.55
Minimum	49.55	49.5

From the above table, it is seen that energy requirement met (MU) and energy requirement of the region has increased considerably from the previous month.

The Summary of Messages issued by NERLDC for the constituents of NER for the Month of May, 2015 is given as below:

Constituents	Deviation Violation Message			Zero crossing Violation Message			Frequency Violation Message		
	Alert	Emergency	Total	Alert	Emergency	Total	Alert	Emergency	Total
AP	0	2	2	5	29	34	6	2	8
Assam	15	53	68	4	11	15	7	3	10
Manipur	0	0	0	2	6	8	4	2	6
Meghalaya	0	2	2	1	4	5	1	0	1
Mizoram	0	1	1	2	20	22	6	2	8
Nagaland	0	1	1	0	11	11	5	3	8
Tripura	2	22	24	2	4	6	4	1	5
AGBPP	0	0	0	0	0	0	0	1	1
AGTPP	0	0	0	0	0	0	0	0	0
RHEP	0	0	0	0	0	0	0	0	0
KOPI LI	0	0	0	0	0	0	0	0	0
KHANDONG	0	0	0	0	0	0	0	0	0

SE, SLDC, Meghalaya stated that whenever they tried to export power outside the region, NERLDC requested them to reduce the export due to congestion. He stated that actual congestion is not known to them. He requested NERLDC to inform the exact problem so that they could plan accordingly.

DGM (SO-I), NERLDC informed that one ICT at Biharshariff was out of service since 08.06.2015 and because of this ICT there was congestion problem. He informed that he would take up the matter and find out the exact date of restoration of the ICT and would inform Meghalaya to plan exporting accordingly.

Members also expressed concern about the frequent tripping of Pallatana units and stated that most of the time they were not aware when the units would be back to service.

DGM, OTPC stated that from henceforth they would send SMS to all the SLDCs of NER whenever the unit tripped and restored apart from normal email.

The Sub-committee also requested OTPC to enhance Unit Auxiliary Transformer (UAT) since only one UAT is installed. They also suggested that station transformer/UAT power supply could be tapped from 400kV/33kV line instead of depending on unreliable 132 kV power supply from TSECL.

DGM, OTPC stated that they will look into the above suggestion and intimate the plan accordingly.

The Sub-committee noted as above.

FOLLOW UP ACTION

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

The Sub-committee also reviewed the status of commissioning first unit of NTPC at Bongaigaon, Transmission lines of POWERGRID. The status as informed by NTPC, NEEPCO and POWERGRID is as follows:

SN	Items	Status as given in 110 th OCC Meeting	Status as on 109 th OCC
1	Trial operation and CoD of Unit -I of Bongaigoan TPS of NTPC	Expected Date for Synchronization of Unit -# I by June, 2015. COD is expected by December, 2015	Expected Date for Synchronization of Unit -# I by 30 th June, 2015. COD is expected by December, 2015
2	315 MVA ICT of NTPC at Bongaigaon	July, 2015	July, 2015

3	Trial operation and CoD of STG -I & II of AGTPP of NEEPCO	COD for Unit II- June, 2015. STG-I trial run with one boiler is July/August, 2015.	COD for STG – II: End of June, 2015. COD for STG – I: July/ August, 2015.
4	Trial operation and CoD of Monarchak GBPP of NEEPCO	Metering, telemetry, machine data, Connectivity agreement to be signed soon by Tripura. Synchronization depends upon availability of gas. December, 2015	Connectivity agreement to be signed soon by Tripura. Tripura informed that with present line, evacuation of power from Monarchak has no problem and the 132 kV Monarchak – Surjamaninagar will be completed by December, 2015.
5	400KV D/C Silchar - Melriat line of PGCIL	December, 2015	December, 2015
6	800KV HVDC Bishwanath Chariali – Agra of PGCIL	20 KM stringing is left. June/July, 2015	-

The Sub-committee noted as above.

C.2 Details of Installations and self-certification (by STUs and CTUs) in respect of operationalisation of Under Frequency Relays (UFRs) in NER systems and additional requirement of UFR and df/dt relays:

The OCC regularly review the status of UFR based load shedding in the region. The latest status intimated during the 110th OCC meeting is given below: -

Assam, Manipur, Mizoram & Nagaland: UFRs based load shedding of 220MW & 20MW respectively have been implemented by both the States. However, UFR operation and amount of load relief reports are to be sent to NERLDC regularly. Assam & Nagaland agreed to do the needful and they have started sending regularly.

Arunachal Pradesh: EE, SLDC informed that UFRs based load shedding for 20MW have been implemented by them for all stages. Ar. Pradesh had furnished the list of feeders and stated that the report would be sent to NERLDC regularly. EE, SLDC informed that the quantum of load relief in each UFR has been mailed to NERPC.

Meghalaya: UFRs based load shedding for Stages I, II & III completed. 4th stage implementation process is held up due to law and order problem in Garo Hills. Reports of UFR operations would be sent regularly to NERLDC.

Tripura: UFRs based load shedding for Stages I & II have been implemented. Tendering is done for Stages III & IV and M/s Alstom is awarded for implementation. It is expected to implement Stages III & IV by May, 2015.

Deliberation of the Sub-Committee

SE(O) informed that as per guidelines by CEA it is mandatory to inspect at least one third of UFRs in the region during the year. In view of the above, inspection will be carried out in the month of June/July, 2015. The itinerary would be intimated in due course.

The sub-committee decided to drop the above agenda for time being.

C.3 CT Ratio of Transmission Lines & Loadability in NER:

During 107th OCC meeting, DGM, NERLDC informed that the list of feeders for enhancement of loadability and present CT ratio available with them was circulated with earlier minutes. He requested constituents to check the list and update the status pertaining to them and also to intimate about the terminal equipments if the load could carry as per the CT ratio.

Further, DGM, NERLDC informed that now the loadability has to be complied as per the operational guidelines issued by NRCE, of CEA. He requested all the constituents to go through these guidelines and give their comments in the next OCC meeting. The NRCE guideline is circulated along with Agenda of OCC.

During 109th OCC meeting, DGM (AM), NERTS stated that in order to comply to NRCE guidelines, constituents have to carry out patrolling on all lines and check the jumpers by using thermo vision instrument and also the terminal end equipments to find out whether the lines could carry the load as per the above guidelines.

After detailed deliberation, the Sub-committee has directed all the constituents to declare the loadability of all the lines pertaining to them and the data should be furnished to NERLDC/NERPC latest by 31.05.2015. Till submission of these data to NERLDC, NERLDC would use load-ability data as per prevailing practice.

Deliberation of the Sub-Committee

After detailed deliberation, the Sub-committee has requested NERLDC to compile the loadability of all the ISTS lines pertaining in tabular format considering NRCE and the present loading as per NERLDC, CT ratio etc., so that constituents can update their data accordingly. NERLDC agreed.

The Sub-committee noted as above.

Action: NERLDC

C.4 Single Line Diagram of Sub-stations, Switching Stations & Power Stations of NER:

POWERGRID, OTPC, NHPC, NTPC & DoP, Arunachal Pradesh, MSPCL, P&E, Mizoram, MePTCL (**partially**), DoP, Nagaland, TSECL & NEEPCO (**partially**) have furnished.

Single Line Diagrams of some of the nodes of AEGCL have been collected from DPR for rectification of Protection System.

NEEPCO (**Khandong & Khupi**), AEGCL (**Bihaiting, BRPL, Ghoramari, HPC-Jagiroad, HPC-Panchgram, Star Cement & CALCOM**) and MePTCL (**CMCL, Hill Cement, Leshka, Nalari & Sai Prakash**) are requested to furnish Single Line Diagram of nodes as these diagrams are required for system studies, outage coordination etc.

During 109th OCC meeting, NERLDC informed that SLD for Sai Prakash of Me.ECL has been received. Further, SLD of Khandong & Khupi sent by NEEPCO could not be opened; they requested NEEPCO to send once again. The SLD from Manipur was also received by them.

Deliberation of the Sub-Committee

NERLDC informed the latest status of submission of SLD which is tabulated below:

Status of submission of data related to Single Line Diagram of Sub-stations			
Sl No	Name of Constituent	Data Submitted	Remarks
1	<i>DoP, Ar. Pradesh</i>	Yes	
2	AEGCL	<i>Partially</i>	<i>Bihaiting, BRPL, Ghoramari, HPC, Jagiroad, HPC, Panchgram, Star Cement & CALCOM not submitted</i>
3	MSPCL	Yes	
4	MePTCL	<i>Partially</i>	<i>Sai Prakash not submitted</i>
5	P&E Deptt, Mizoram	Yes	
6	DoP, Nagaland	Yes	
7	TSECL	Yes	
8	POWERGRID	Yes	
9	NEEPCO	<i>Partially</i>	<i>Khandong & Khupi not submitted</i>
10	NTPC	Yes	
11	NHPC	Yes	
12	OTPC	Yes	

The Sub-committee requested all the remaining constituents to furnish the data to NERLDC at the earliest.

Action: Remaining Power Utilities

C.5 Latest status of FGMO/RGMO implementation in different generating stations:

To update the available record of FGMO/RGMO implementation in NER it was requested that the latest unit-wise status of implementation of FGMO/RGMO in different Central & State sector generating stations may please be furnished to NERLDC at the earliest as per format given by them.

During 109th OCC meeting, DGM (SO-I), NERLDC then intimated and briefed about the latest CERC Petition No. 84/MP/2015 relating to inadequate operation of FGMO/RGMO. He informed that the Commission has directed all the constituents to file the following details/clarification through Affidavit latest by 12.06.2015:

1. Frequency Response Characteristics (FRC) Report of their respective control areas for poor/negative response from their control areas clearly bringing out the generator wise response in MWs, in percentage of ideal response and scheduled MW during both (14.01.15 & 25.04.15) the frequency excursions for all generators of the state.
2. Seek the reasons from the generators who have shown poor or no response as per their respective grid code/Grid code or negative response to the frequency excursions.

He requested all the constituents to go through the above CERC order and file the affidavit at the earliest.

The Sub-committee requested NERPC to circulate the above CERC Order to all the constituents so that necessary action for filing affidavit to CERC can be taken by their concerned wing within the above stipulated time frame.

Also Members were of the opinion that issues related to above information is pertaining to generation wing and requested NERPC to write to head of generation to attend the meeting so that data pertaining to them could be furnished by them.

Member Secretary suggested that while preparation of agenda, it should be clearly mentioned that issues pertaining to generation division, commercial division etc. has to be indicated accordingly so that concerned division should attend the meeting. All members agreed to above suggestion.

Deliberation of the Sub-Committee

SE(O), informed that NERPC had mailed the above CERC Order to all the constituents as directed by the Sub-committee and enquired about the status of filing an affidavit by constituents.

Assam, Meghalaya & NEEPCO informed that affidavit had already been filed by them to Hon'ble Commission.

The Sub-committee requested NHPC to file an affidavit to CERC at the earliest. NHPC informed that they will look into the matter and take necessary action soon.

The Sub-committee noted as above.

Action: NHPC

C.6 Submission of list of feeders connected to essential load:

As per clause no 5.8.c of IEGC, essential loads are to be restored on priority during restoration process.

AEGCL, Me. PTCL & TSECL have only furnished the list. All other states utilities of NER were requested to furnish list of feeders connected to essential load at the earliest.

During 109th OCC meeting, DGM (SO-I), NERLDC informed that list of feeders for essential loads from Manipur & Mizoram have also been received.

Ar. Pradesh & Nagaland have agreed to furnish within 31st May, 2015.

Deliberation of the Sub-Committee

NERLDC informed the latest status of submission of list of feeders connected to essential load which is tabulated below:

<i>Status of submission of data related to list of feeders connected to essential load</i>			
<i>Sl No</i>	<i>Name of Constituent</i>	<i>Data Submitted</i>	<i>Remarks</i>
1	<i>DoP, Arunachal Pradesh</i>	Yes	<i>Arunachal Pradesh shall furnish the essential load in 33 kV level</i>
2	<i>AEGCL</i>	Yes	
3	<i>MSPCL</i>	Yes	<i>Manipur partly furnished furnish the essential load in 33 kV level</i>
4	<i>MePTCL</i>	Yes	
5	<i>P&E Deptt, Mizoram</i>	Yes	<i>Mizoram shall furnish the essential load in 33 kV level</i>
6	<i>DoP, Nagaland</i>	Yes	
7	<i>TSECL</i>	Yes	

The Sub-committee requested all the remaining constituents to furnish the data to NERLDC at the earliest.

Action: Remaining Power Utilities

C.7 Progress Report of Ongoing Project:

Progress reports of ongoing generation and transmission projects of NER need to be communicated to NERLDC by all constituents on monthly basis as per format. The progress of different elements are necessary for incorporation in Operational Feedback and other reports as also for preparation of Base Case for system study in NER. Accordingly, constituents were requested to furnish the progress report of their elements by 10th of every month for the previous month.

NERPC vide letter dated 13.02.2015 had written to all concerned constituents followed by reminder letter on 06.05.2015 to furnish the status of ongoing projects to NERLDC at the earliest. Ar. Pradesh had furnished the above information.

NERLDC informed that information has now been received from **NTPC, NEEPCO, DOP, Arunachal Pradesh (detailed report not submitted), AEGCL, MSPCL, P&E, Mizoram & TSECL**. NERLDC requested the remaining constituents viz. POWERGRID, APGCL, MePTCL, MePGCL, DOP, Nagaland & NHPC to furnish the same at the earliest.

During 109th OCC meeting, the sub-committee requested the remaining constituents viz. APGCL, Me. PGCL, Me. PTCL, Nagaland & POWERGRID to furnish the above information at the earliest. Constituents who do not have any ongoing projects may furnish "NIL report".

Deliberation of the Sub-Committee

APGCL, Nagaland informed that the progress report have been sent to NERLDC/NERPC and requested them to verify the same.

DGM (AM), NERTS stated that above report is being furnished to NERPC regularly and requested NERLDC to collect from NERPC Secretariat.

SE, SLDC, Meghalaya stated that he will look into the matter and the report will be furnished by June, 2015.

NERLDC requested to nominate one officer from each power utility for furnishing of monthly ongoing progress of transmission and generation projects and also requested to furnish the contact no (mobile) and e:mail id to NERLDC.

NERLDC submitted the latest status of submission of Progress Report of Ongoing Project by the power utilities of NER which is tabulated below.

Status of submission of Progress Report of Ongoing Projects			
Sl No	Name of Constituent	Data Submitted	Remarks
1	DoP, Arunachal Pradesh	Submitted for April & May'15	Details as per format not submitted
2	AEGCL	Submitted for Feb'15	
3	APGCL	Submitted for Mar'15	Status not submitted
4	MSPCL	Submitted for April'15	
5	MePTCL	Submitted for May'15	
6	MePGCL	Not submitted	
7	P&E Deptt, Mizoram	Submitted for Mar'15	
8	DoP, Nagaland	Not submitted	
9	TSECL	Not as per format	April & May'15 to be submitted in format
10	POWERGRID	Not submitted	
11	NEEPCO	Submitted regularly for each month	
12	NTPC	Submitted regularly for each month	
13	NHPC	Not submitted	
14	OTPC	-	Status of 2 nd ICT at Palatana to be submitted

The Sub-committee requested all the remaining constituents to furnish the data to NERLDC at the earliest.

Action: Remaining Power Utilities

C.8 Formats for new unit expected to be commissioned within 2 months:

Information related to charging/first time synchronization of new elements/units is to be furnished to NERLDC (two month in advance). All the activities related to charging/first time synchronization of new elements are to be completed before charging/first time synchronization of new elements. The technical data of the elements are also necessary for preparation of Base Case for system study for NER system.

During the 108th OCC meeting, the name of Nodal Officer along with contact number furnished were given as below:

Constituent	Name of Nodal Officer	Contact No	Email id:
Ar. Pradesh	N. Perme, EE, SLDC	09436288643	sldcitnagar@gmail.com
Assam	B.C. Borah, DGM, LDC	09435119248	sldcaseb@rediffmail.com
Manipur	L. Haokip, Manager	08575004401	l.haokip@mspdcl.com
Mizoram	Vanlalrema, SE, SLDC	09436140353	sldc_mizoram@rediffmail.com
Meghalaya	F.E. Kharshiing, SE, SLDC	09612170657	sldc.shg@gmail.com
	H.F. Shangpliang, EE, MRT	09863315562	hector_fd@rediffmail.com
Nagaland	Atoho Jakhalu, EE, SLDC	09436002696	atoho.jk@gmail.com
Tripura	Mrinal Pal, Manager	09436137022	mrinalpaulnit@gmail.com
NEEPCO	Bhaskar Goswami, Sr. Mgr	09436163983	pbhaskargoswami@yahoo.com
NHPC	R.C. Singh, Manager	09436894889	rcsloktak@yahoo.com
NERTS	Supriya Paul, Dy. Mgr.	09436302995	nerts_os@yahoo.in
	Deep Bhaumick, Engineer	09436335255	-do-
OTPC	Narendra Gupta, Manager	09774233426	nk.gupta@otpcindia.in
NTPC	J. Bhattacharyya, AGM(EMD)	09435720036	jayanbhattacharjee@ntpc.co.in
	G. K. Kundu, AGM(EEMG)	09401826314	

Further, NERLDC has informed that protection system of the element is to be checked & rectified in case of observance of any protection deficiency before charging/first time synchronization of new elements.

The sub-committee requested NERPC to hold the special meeting comprising of nodal officers of constituents, NERLDC & NERPC at the earliest so that the issues related to first time charging of transmission element and first time synchronization of generating unit can be resolved.

Deliberation of the Sub-Committee

SE(O) informed that due to unavoidable circumstances, the above meeting could not be held as per Sub-committee directive. He mentioned that above meeting will be held soon and the date will be intimated accordingly.

The Sub-committee noted as above.

Action: NERPC

C.9 Assessment of Inter State Total Transfer Capability (TTC), Transmission Reliability Margin (TRM) and Available Transfer Capability (ATC) by SLDC on respective Inter-State Transmission Corridor:

As per Clause No. 4.1 of 'Detailed Procedure for Relieving Congestion in Real Time Operation', SLDC shall assess TTC, TRM and ATC on it's inter-state transmission corridor considering a mesh intra-state corridor for import or export of power with the Inter-state Transmission system (ISTS).

SLDCs of NER were accordingly requested to assess the above on monthly basis, 5 months in advance (e.g. TTC/TRM/ATC for the month of November to be calculated by 15th of July), for further assessment of TTC, ATC and TRM of NER – ER corridor by NERLDC/NLDC and for assessment of TTC / ATC for a group of control areas, individual control areas within the region and state-control-area to state-control-area by NERLDC, whenever required.

During 108th OCC meeting, DGM (SO-II), NERLDC stated that TTC/ATC data had been assessed by them on behalf of constituents and requested States to check the data and give their comments at the earliest. TTC of states under peak & off peak scenarios assessed by NERLDC are as follows:

Import Capability

Sl. No	State	OFFPEAK CASE		PEAK CASE	
		Contingency	Total Transfer Capability	Contingency	Total Transfer Capability
1	Arunachal Pradesh	N-1 of 132/33 kV, 2x16 MVA Transformers at Deomali	165	N-1 of 132/33 kV, 2x16 MVA Transformers at Deomali	165
2	Assam	N-1 of 220/132 kV, 3x100 MVA transformers at Sarusajai	1175	N-1 of 220/132 kV, 3x100 MVA transformers at Sarusajai	1295
3	Manipur	N-1 of 132 kV Imphal (PG) - Imphal D/C	260	N-1 of 132 kV Imphal (PG) - Imphal D/C	260
4	Meghalaya	N-1 of 132 kV Killing-Epip II D/C	250	N-1 of 132 kV Killing-Epip II D/C	250
5	Mizoram	N-1 of 132/33kV, 12.5 MVA transformer at Luangmual/Zimabawk/Serchip/Lunglei	98	N-1 of 132/33kV, 12.5 MVA transformer at Luangmual/Zimabawk/Serchip/Lunglei	98
6	Nagaland	N-1 of 132/66 kV, 25 MVA tranformer at Mokochung	97	N-1 of 132/66 kV, 25 MVA tranformer at Mokochung	97
7	Tripura	N-1 of 132 kV Palatana - Udaipur S/C	130	N-1 of 132 kV Palatana - Udaipur S/C	126

He also requested to send study results for Peak (Export & Import) & Off Peak (Export & Import) along with assumptions in details to NERLDC for the fifth month by 15th of the month regularly. Further, during the presentation by NERLDC data of exciter, generator, PSS, etc., has to be submitted by the constituents.

During 109th OCC meeting, the Sub-committee requested all the constituents to go through the above calculation of NERLDC and if they have any discrepancy, they may take up the matter with NERLDC.

Deliberation of the Sub-Committee

After detailed deliberation, since there was no progress in the matter, the Sub-committee decided that all constituents should return all the dongles & laptops to NERLDC/NERPC at the earliest so that the same could be handed over to concerned officers who are carrying out the above study and also the new key will be provided by NERLDC/NERPC. The Sub-committee requested NERPC to write a

letter to all the constituents to return the above materials at the earliest so that necessary action could be taken by NERLDC. Training to new incumbent will be provided by NERLDC during System Studies (SS) meeting of NERPC.

The Sub-committee noted as above.

Action: NERPC

C.10 Requirement of Reactor at Balipara & Bongaigaon:

After commissioning of 400 kV Balipara – Bongaigaon III & IV lines & 400 kV Bongaigaon – New Siliguri III & IV lines, voltage trend at Ranganadi, Balipara & Bongaigaon significantly increases during off peak hours.

To contain voltage at these nodes within IEGC band, one circuit of 400 kV Balipara – Bongaigaon lines, 400 kV Bongaigaon – New Siliguri lines & 400 kV Ranganadi – Balipara lines are kept open during off peak hours.

It was agreed in 4th SCM of NER on 13.12.14 for installation of 125 MVAR Bus Reactors by POWERGRID at Balipara and Bongaigaon.

For immediate solution, Line Reactors of 400 kV Balipara - Bongaigaon I & II at Balipara & Bongaigaon were required to be converted into Bus Reactors.

DGM (AM) informed that procurement for switching equipments is under progress and the status will be intimated to NERLDC/NERPC accordingly.

Deliberation of the Sub-Committee

DGM (AM), NERTS informed that:

- a) For installation of 125MVAR Bus Reactors at Balipara and Bongaigaon Sub Station the approval of NERPC is required for investment approval of POWERGRID for necessary tendering. Accordingly, he expressed the importance of holding the RPC meeting at the earliest to avoid delay in execution of many projects / schemes agreed by standing committee and OCC/PCC forum.
- b) For conversion of line reactor of Balipara-Bongaigaon – I & II to switchable line reactor, procurement of switching equipments is under progress and it may take atleast 6 (six) months to complete the above work. The tentative date is November, 2015.

DGM (SO-I), NERLDC stated that one bus at Ranganadi was out from service and enquired the status from NEEPCO.

NEEPCO representative informed that he will enquire from site about the status and informed to NERLDC/NERPC accordingly.

The Sub-committee noted as above.

Action: NEEPCO

Installation of Reactor at Ranganadi:

During 4th SS meeting, DGM (SO-II), NERLDC informed that on several occasions NER grid experiencing very high voltage condition during off-peak hours resulting in opening of numbers of 400 kV circuits to contain over voltage especially at RHEP. 400 kV Balipara- RHEP D/C link is operated through single circuit only in most of the time sacrificing reliability of the system. Similar is the condition in other corridors including IR link. To address the problem, conversion of line reactors as Bus reactors for 400 kV Bongaigaon-Balipara D/C line and installation of additional bus reactors at Balipara have been proposed.

In addition to this, one bus reactor of at least 50 MVAR capacity is required to be installed at RHEP so that over voltage problem can be solved

During 109th OCC meeting, SE(O) informed that communication from NEEPCO on the above issue has been received and after examining thoroughly by them, they have suggested the possibilities which is reproduced as below:

1. Option-1:- Possibility for installation of bus reactor at 400 kV/ 132kV switchyard has been examined. As per the preliminary study under present site condition, there is a possibility to accommodate one reactor at 400kV switchyard by way of extension of bus towards hill side. However, it will require cutting/ leveling of hillock, providing protection wall, diversion of road, drains, fencing etc.
2. Option-2:- RHEP units cannot be run in synchronous condenser mode because provision for the same is not available in the present scheme and lots of modifications including piping works shall be necessitated.
3. Option-3:-Loading of bus reactor in Tertiary of ICTs is also not feasible; because those are very old ICTs and had failed also earlier and put in service after repairing.

4. NEEPCO is assisting the grid operator to counter the over voltage problem at RHEP by way of putting the 400 kV line reactor at bus whenever required. However, I would like to inform you that this operation is done through isolators as switching breakers are not available. The then Member Secretary, GM, NERLDC, POWERGRID representatives visited the site in 2007 and necessary modification was done at Balipara. The operation through isolators in present scenario involves risks for the operators and detrimental to the equipment like isolators as well. Probably, the present arrangement is not at all advisable.

Sr. Manager, NEEPCO stated that if the forum agrees for option-1 detail study shall be done and cost estimate & work schedule shall be prepared.

After detailed deliberation, Member Secretary suggested NEEPCO to work out the tentative estimate for above cost and intimate in next PCC meeting so that the matter can be taken up for funding from PSDF since the matter is for the benefit of the region. All members agreed to the proposal.

Deliberation of the sub-Committee

DGM (AM), NERTS stated that the installation of new reactor will take more than two years meanwhile many ongoing projects will get commissioned and so, the requirement of reactor may be reviewed. DGM (SO-1), NERLDC informed that the reactor will be required in long term also. Accordingly, DGM (AM), NERTS stated that in such case the matter may taken up to next standing committee meeting for necessary approval. However, in such case, NEEPCO has to inform the availability of space for installation of reactor.

Further, it was also discussed that for immediate measure to contain overvoltage NEEPCO should carry switching operation of existing Reactors.

The Sub-committee noted as above

Action: NEEPCO

C.11 Second In-feed for NER-ER Corridor:

At present NER Grid is connected to rest of NEWS Grid through 400kV Binaguri – Bongaigoan & 220kV D/C Birpara –Salakati Line. On 23.02.15 at around 1809 Hrs due to tripping of all the outgoing feeders of 400 kV Bongaigaon substation, 220kV Salakati- BTPS D/C lines overloaded and tripped. This resulted into

isolation of NER grid from the rest of NEWS Grid and subsequently major part of NER Grid collapsed.

This type of grid disturbances can be avoided if there is more than one in-feed of NER Grid with ER Grid.

At present Bongaigaon Thermal Power Plant (BgTPP) is connected with 400 kV Bongaigaon S/S through 400 kV Bongaigaon – BgTPP D/C lines. Second in-feed of NER Grid with ER Grid may be formed, albeit at the same geographical location, if one circuit each of 400 kV Bongaigaon – Binaguri lines and 400 kV Bongaigaon – Balipara lines terminated to BgTPP in place of Bongaigaon.

NERLDC pointed out that 2nd in-feed at Balipara could also be formed by connecting one circuit each of 400 kV Bongaigaon – Binaguri lines and 400 kV Bongaigaon – Balipara lines bypassing Bongaigaon S/S subject to technical feasibility.

During 108th OCC meeting, the Sub-committee decided to jointly visit by NERLDC, NERPC, NERTS and NTPC to explore the possibility of creating additional space to incorporate required number of bays for implementation of above scheme.

SE(O) informed that due to limited of time, the above visit could not take place, but it is now decided that visit would be on 23.05.2015 and the outcome will be intimated in the next OCC meeting.

Deliberation of the Committee

SE(O) informed that the above joint visit of NERPC, POWERGRID and NTPC was carried out on 23.05.2015 and many suggestions have been given to NTPC. In the meantime, NTPC have furnished relevant documents viz. SLD, layout diagram etc., and the same were forwarded to ABB to carry out the feasibility.

Further, he informed that ABB had communicated back to NERPC and requested to furnish the following information for further study. Reply is reproduced below:

1. We understand that the subject requirement if for LILO bays in NTPC Boangaigon s/s. Please let us know the name of substations forming the LILO arrangement along with their distances from Boangaigaon s/s.
2. Please let us know whether the arrangement requires circuit Breaker with Pre Insertion Register (PIR).
3. We require a zoomed layout (preferably as built) clearly indicating the available area (Length x Breadth) for the expansion.

4. Please let us know the project time line (tentative date of ordering, delivery schedule and tentative commissioning schedule).
5. We would request you to please provide the Guaranteed technical particulars of system & of the 400 kV equipments required at Boangaigaon s/s.

The Sub-committee requested NTPC to furnish the above information to NERPC at the earliest for further action.

Action: NTPC

C.12 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 LGBR 2015-16 of NERPC.

Requirement:

Name of State	Jun15	Jul15	Aug15	Sep15	Oct15
Ar. Pradesh	67	67	72	72	72
Assam	730	730	730	720	710
Manipur	75	75	75	75	75
Meghalaya	130	130	140	150	180
Mizoram	40	42	42	42	43
Nagaland	70	75	70	70	72
Tripura	120	120	125	120	130
NER	1232	1239	1254	1249	1282

Availability:

Name of State	Jun15	Jul15	Aug15	Sep15	Oct15
Ar. Pradesh	68	89	86	74	61
Assam	630	635	640	630	600
Manipur	79	101	101	85	79
Meghalaya	200	250	280	274	260
Mizoram	55	66	65	54	50
Nagaland	50	65	63	64	56
Tripura	186	206	205	192	194
NER	1268	1412	1440	1373	1300

- *These data required for preparation of various reports.*

C.13 Monthly MW requirement & availability of each state of NER:

A. Peak Demand in MW

Name of State	Jun15	Jul15	Aug15	Sep15	Oct15
Ar. Pradesh	133	133	138	143	143
Assam	1439	1469	1510	1480	1455
Manipur	138	143	149	149	154
Meghalaya	400	400	395	400	400
Mizoram	90	90	90	85	85
Nagaland	120	135	130	135	130
Tripura	275	275	275	285	300
NER	2620	2675	2717	2677	2682

B. Peak Availability in MW

Name of State	Jun15	Jul15	Aug15	Sep15	Oct15
Ar. Pradesh	149	148	143	145	145
Assam	1164	1151	1113	1164	1210
Manipur	154	162	159	159	160
Meghalaya	387	470	488	488	480
Mizoram	108	113	109	105	105
Nagaland	103	108	104	104	110
Tripura	396/230	403/230	398/230	403/230	403/230
NER	2136	2461	2514	2570	2600

*Tripura indicates 272/230 if Pallatana available/if not available

A. Off Peak Demand in MW (0800 Hr)

Name of State	Jun15	Jul15	Aug15	Sep15	Oct15
Ar. Pradesh	73	73	76	72	76
Assam	900	905	920	830	950
Manipur	90	93	97	75	95
Meghalaya	220	220	217	165	226
Mizoram	59	55	55	42	55
Nagaland	72	81	78	70	80
Tripura	197	197	201	202	214
NER	1611	1624	1644	1374	1696

B. Off Peak Availability in MW (0800 Hr)

Name of State	Jun15	Jul15	Aug15	Sep15	Oct15
Ar. Pradesh	74	110	108	79	76
Assam	1077	1047	1047	900	930
Manipur	103	136	136	97	111
Meghalaya	321	423	440	420	400
Mizoram	75	92	100	55	70
Nagaland	71	96	95	81	71
Tripura	230	230	230	194	240
NER	1951	2134	2156	1626	1898

The Sub-committee noted as above.

D. NEW ITEMS

D.1 Generation Planning (ongoing and planned outages)

The availability of hydro stations of NEEPCO/NHPC are as follows:

Plants	Reservoir Level in meters (as on 15/06/15)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong + Kopili STG II	720.85	27.61	(1.08+0.504)	17
			1.584	
Kopili	607.23	(81 + 4*27.61)	2.304	83
		191.44		
Doyang	306.6	1.3	0.0468	28
Loktak	766.48	9.33	0.21	44

The sub-committee discussed and approved the proposed shutdown of NEEPCO & OTPC and the same has been uploaded in the website of NERPC.

The Sub-committee enquired from NEEPCO about the status of Kopili Units.

NEEPCO informed that Kopili Unit #3 will be available by end of June, 2015 and Kopili Unit #4 by end of July, 2015.

The sub-committee noted as above.

D.2 Water level and spillage data of hydro stations

Historical data of reservoir level and spillage data of Hydro stations are not available with NERLDC. This information is sometimes asked by various authorities to facilitate in making database for the same. All concerned were requested to furnish the available information to NERLDC as early as possible.

NERLDC had sent the format to all the constituents for necessary submission of data. However, till date no constituents have submitted the data to NERLDC.

NERLDC informed that Assam, NEEPCO & NHPC has furnished the above information but not as per the format given by NERLDC.

Water level format:

Year		FRL		MDDL	
Station	Month	Date	Water level	Generation in MU	Water utilized in cumecs

Water spillage format:

Year	Station				
Date	Inflow in cumecs	Status of spillage (Spilling/ Not spilling)	Duration		Total
			From (Hrs.)	To (Hrs.)	Hrs.
					Month

Constituents informed that previous data may not be readily available with them, however, present data available will be sent shortly.

During 109th OCC meeting, Sr. Manager, NEEPCO informed that the format circulated by NERLDC is found to be very much cumbersome for compiling in real time basis. He stated that the generic form of data is available in NEEPCO website which is indicated below:

<http://www.neepco.gov.in/neepco/wlm/wlmreports.jsp>

He requested NERLDC to download the information from above website.

The Sub-committee requested NERLDC to write to all constituents once again with a copy to NERPC asking them to furnish the data as per data available with them to NERLDC at the earliest. The Sub-committee also recommended that they can submit whatever data available with them, if not available they can indicate the same so that NERLDC can take the normal standard data.

Deliberation in the meeting

Again Members were of the opinion that issues related to above information pertains to generation wing and requested NERPC to write to head of generation wing to send their officers to attend the meeting so that data pertaining to them can be furnished by them and also the meeting will be fruitful.

The Sub-committee noted as above.

Action: NERPC

D.3 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.

Deliberation in the meeting

The sub-Committee discussed and approved the proposals received from the constituents regarding transmission elements for June - July, 2015 and the same has already been uploaded in website of NERPC. Also the committee has decided that no shutdown will be entertained henceforth unless discussed in OCC meeting, except on emergency basis.

D.4 Status of SLDCs in NER:

The status of setting-up of SLDC as informed by POWERGRID during 110th OCC meeting is given below:

SN	Name of State	Status as given in 110 th OCC Meeting
1.	Ar. Pradesh	<p>POWERGRID informed that Building is being identified by Ar. Pradesh. However some internal works viz., partition, AC installation etc. are yet to complete.</p> <p>EE, SLDC stated that it would be better for POWERGRID to carry out all the works including partition, AC fitting etc., along with building & equipments and intimate the final cost as it would not be possible for them to carry out minor works separately by them.</p>
2.	Manipur	<p>Building is completed. Commissioning activity is in progress and the SLDC is likely to be completed by July, 2015</p>
3.	Mizoram	<p>Building has been identified, but the same has not been handed over to POWERGRID to carry out the work. POWERGRID requested the forum to take up the matter with highest Authority of Govt. of Mizoram so that the work can be started up.</p> <p>NERPC has already written to Govt. of Mizoram to hand over the building at the earliest. The reply is awaited.</p>
4.	Nagaland	<p>Construction of Building is going on but the progress is very slow. Nagaland has informed that the building is likely to be completed in August, 2015. POWERGRID requested the forum to take up the matter with highest Authority of Govt. of Nagaland so that the work can be started up.</p> <p>EE, SLDC also endorsed the view of Ar. Pradesh and requested</p>

		<p>POWERGRID to carry out all the furnishing works including partition, AC fitting etc., along with building & equipments and intimate the final cost. He also requested POWERGRID to have a bilateral discussion and finalize the issue with them.</p> <p>NERPC has already written to Govt. of Nagaland to hand over the building at the earliest. The reply is awaited.</p>
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The status of Renovation/up-gradation of SLDC as informed by POWERGRID is given below:

SN	Name of State	Status as given in 110 th OCC Meeting
2.	Assam	R&M works is in progress and the scheme is likely to be completed by July, 2015
4.	Tripura	R&M works is in progress and the scheme is likely to be completed by July, 2015
7.	Meghalaya	R&M works is in progress and the scheme is likely to be completed by August, 2015. POWERGRID requested Meghalaya to complete some internal issue regarding to space of room.

The Sub-committee appreciated the status of development in regard to setting up/up-gradation of SLDCs in NER and noted as above. Manager (AM) requested to take up the matter of taking of all works like fixing of Air Conditioners, Civil works etc in a separate meeting. Member Secretary suggested taking up the matter along with O&M practices meeting.

In the meantime as suggested by the Sub-committee, NERPC has written a letter to Govt. of Mizoram & Nagaland regarding handing over the building to POWERGRID for completion of SLDC at the earliest.

Constituents informed the forum that ABB had rejected the AMC contract w.e.f. June, 2015. They felt that since new SLDCs will take time to stabilize, ABB should honor the request of NERLDC and constituents.

After detailed deliberation, the Sub-committee requested NERPC to take up the matter with highest authority of ABB to extend the existing AMC till the new/up-graded SLDCs are in place

The Sub-committee noted as above.

D.5 Updated List of Important Grid Elements of NER, May 2015 (Draft):

As per Clause No 5.2.c of IEGC, List of Important Grid Elements of NER May 2015 (Draft) prepared. Updated List of Important Grid Elements of NER May 2015 (Draft) was e-mailed to regional entities of NER and also available in NERLDC website. It is requested to furnish data required for finalization of List of Important Grid Elements by 8th May'15 as this document will be finalized by 25th May'15.

The document is password protected. Password may be collected from SOII department of NERLDC.

During 109th OCC meeting, DGM (SO-I) informed that comments have been received only from NEEPCO as on date.

Deliberation in the meeting

DGM (SO-I) informed that the Updated List of Important Grid Elements of NER has now been finalized and the same has been uploaded in the website of NERLDC. The Password was informed to constituents during the meeting.

The Sub-committee noted as above.

D.6 Updated Power Maps of NER States, June 2015 (Draft):

Power maps of NER and States of NER June 2015 has been prepared. Updated Power maps of NER and States of NER June 2015 is e-mailed to regional entities of NER and also available in NERLDC website.

This document will be finalized by 20th June, 2015. The document is password protected. Password may be collected from SOII department of NERLDC.

Deliberation in the meeting

The Sub-committee once again requested all the Power utilities of NER to submit comment and suggestion for this document by 15th June, 2015; else, the same will be finalized by NERLDC accordingly.

D.7 Updated Operating Procedures of NER July 2015 (Draft)

Operating Procedures of NER July 2015 has been updated and e-mailed to regional entities of NER and also available in NERLDC website. Power utilities of NER were requested to submit their comment and suggestion for this document by 15th July,

2015 as this document has to be finalized by 31st July, 2015. The document is password protected and Password is available with SOII department of NERLDC.

Deliberation in the meeting

The Sub-committee requested all the Power utilities of NER are requested to submit comment and suggestion for this document by 15th July, 2015; else, the same will be finalized by NERLDC accordingly

D.8 Nomination of Nodal Officers for Disaster Management:

All the SLDCs of NER were requested to update the details of Nodal Officer for Disaster Management for onward submission to NLDC

In the 109th OCC meeting, the Sub-committee requested NERPC to write to all the Heads of SLDCs and Power utilities of NER to furnish the name and contact number of Nodal Officer for above Disaster Management.

Accordingly, NERPC had written to all the constituents to nominate the nodal officer for Disaster Management as suggested by the Sub-committee, but the reply is awaited.

Deliberation in the meeting

During the 110th OCC meeting, the name of Nodal Officer along with contact number furnished by some constituents is given as below:

DISASTER MANAGEMENT - LIST OF CONTACT DETAILS OF NODAL OFFICERS/SECOND IN COMMAND-2015

Region/SLDC	Name	Designation	Tel. Nos.	Mobile No.	Fax No.	E-mail Address
NERLDC						
Nodal Officer	V Kaikhochin	DGM(SL)	0364-2535710	9436302712	0364-2537470	kaikhochin@gmail.com
Second in Command	A Mallick	DGM(SO-2)	0364-2535481	9436302720	0364-2537470	amaresh65@gmail.com
Arunachal Pradesh SLDC						
Nodal Officer	N. Perme, EE, SLDC			0943628864 3		sldcitnagar@gmail.com
Second in Command						
Assam/ AEGCL SLDC						
Nodal Officer						
Second in Command						

Manipur SLDC						
Nodal Officer	S. Joykumar Sharma	OSD(Tech)/S LDC	03852451172 / 03852447278	9612950771	Nil	sldcmanipur@yahoo.com & sldcmanipur@gmail.com
Second in Command						-
Meghalaya/ MeSEB SLDC						
Nodal Officer	Mr. T. Gidon	EE SLDC		9774479956	0364-2551967	sldc.shg@gmail.com , gidon@rediffmail.com
Second in Command	Mr.R. War	EE (T&T), Division, Umiam		9436103088	0364-2550020	rupertwar@gmail.com
Mizoram SLDC						
Nodal Officer	Vanlalrema	, SE, SLDC		09436140353		sldc_mizoram@rediffmail.com
Second in Command						-
Nagaland SLDC						
Nodal Officer	Er. Atoho Jakhalu	Executive Engineer	03862-230117	9436002696	03862-230118	sldc.ngl@gmail.com
Second in Command						-
Tripura SLDC						
Nodal Officer						-
Second in Command						-
NERTS						
Nodal Officer						
NEEPCO						
Nodal Officer						-
Second in Command						-
NHPC						
Nodal Officer						-
Second in Command						-
NETC						
Nodal Officer						-
Second in Command						-
NTPC						
Nodal Officer						-
Second in Command						-

POWERGRID						
Nodal Officer						-
Second in Command						-

The Sub-committee requested all the remaining SLDCs to nominate the name & contact number of Nodal Officer for Disaster Management at the earliest.

Action: Remaining Power Utilities

D.9 Identification of Nodal Officers for Weather related issues:

POSOCO has recently signed an MOU with IMD through which critical Weather data will be made available to System Operators by IMD. Accordingly SLDCs of NER were requested to identify two nodal officers for weather related issues and furnish the details to NERLDC by 30th June, 2015 for sharing the weather related data. All SLDCs of NER were further requested to finalize the list of stations (including power stations) for which weather parameters are required (nearby city name, district name & state name are to be provided) and to furnish list of officers desiring to avail SMS facility during extreme weather conditions (priority-wise list to be provided at each level with contact details).

Deliberation in the meeting

During the 109th OCC meeting, the name of Nodal Officer along with contact number furnished by some constituents is given as below:

Constituent	Name of Nodal Officer	Contact No	Email id:
Ar. Pradesh			
Assam			
Manipur			
Mizoram			

Meghalaya	F.E. Kharshiing, SE, SLDC	09612170657	sldc.shg@gmail.com
	R. Majaw, SE, MRT	09436110871	
Nagaland			
Tripura			

The Sub-committee requested all the remaining SLDCs to nominate the name & contact number of Nodal Officer for Weather Management at the earliest.

Action: Remaining Power Utilities

D.10 Power cut/Load Shedding:

SE(O), informed that CEA has been pressurizing NERPC to furnish the above data urgently. He informed that Chairperson, CEA himself is monitoring these reports to find out simultaneous All India Peak Demand and Demand Met figures. He requested all the constituent States that Hourly Power Cuts and Load shedding-State wise and Region wise may kindly be sent urgently. The format is attached at ***Annexure – D.10.***

In-spite of repeated request to all the constituents only Assam, Meghalaya & Tripura has given the information.

Deliberation in the meeting

The Sub-committee requested all the remaining constituents to furnish the above data to NERPC at the earliest for onward transmission to CEA/MoP.

Action: Remaining NER States.

D.11 Frequent tripping of lines associated with 132 kV Khliehriat (PG) - Khliehriat (Me. PTCL) D/C line:

NERLDC informed that above line tripped on several occasions during the month of May & June, 2015 on Zone-II/Zone-III faults. In some of the occasions 132 kV Khliehriat – Khandong Ckt-I also tripped simultaneously. These trippings caused oscillations in the system and resulted in tripping of Khandong units on few

occasions. Oscillations also caused serious problems to the industries located around Khandong as reported by concerned authorities to KHEP management. It is apprehended that the protection systems associated with these lines and upstream are not working properly causing delayed clearing of faults at appropriated nodes. Leshka generation of Meghalaya is also getting affected due to these disturbances.

NERLDC requested all concerned utilities to take corrective actions immediately so that system security can be ensured along with trouble free operation of the grid.

Deliberation in the meeting

The Sub-committee expressed concerned about the frequent tripping in Khliehriat S/S of Meghalaya and requested them to look into the matter seriously.

DGM (AM), NERTS informed that as directed by the Sub-committee a joint visit was carried out by POWERGRID along with Meghalaya on 26.03.2014 and subsequently on 27.06.2014 and all the suggestions and preventive measures were handed over to Meghalaya with a copy to NERPC. He requested Meghalaya to adhere to the suggestions given to them.

SE, SLDC stated that sub-station will be renovated after getting the funds from PSDF.

DGM (AM), NERTS reiterated that the problem is mainly due to earthing problem as observed during the joint visit above and unless earthing is improved R&M will not help in reducing frequent tripping.

SE, SLDC informed that the copy of joint visit was not received by them and requested to send to them once again.

SE(O) informed that copy of joint visit is available with NERPC and the same will be forwarded to them. He requested Meghalaya to carry out the preventive measures of earthing at the earliest. Meghalaya agreed.

The Sub-committee noted as above.

Action: NERPC, Meghalaya

D.12 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 commissioned. OTPC was requested to take action for early commissioning of the Reactor so that the same can be used for maintaining voltage at desired level.

OTPC was also requested to restore the 125 MVA ICT, which is under long outage, for strengthening of connectivity of Tripura system.

Deliberation in the meeting

DGM (SO-I), NERLDC enquired about the status of 80 MVAR reactor and also the long outage of 125 MVA ICT.

DGM, OTPC stated that reactor is in healthy condition and they have sent a formal reply to NERLDC on this matter and requested them to go through on the comments given by them for further action by OTPC. NERLDC replied that no such reply was received. It was suspected that Reactor was not healthy as OTPC had not taken any action to take the reactor into service.

The Sub-committee requested OTPC to restore the faulty 125 MVA ICT at the earliest and also requested to keep 80MVAR reactor ready to take into service whenever required. Further, the Sub-committee requested OTPC to install one more ICT for redundancy related issue.

The Sub-committee noted as above.

Action: OTPC

D.13 Suo Motu Revision / Moderation of reservoir based hydro generation in real time during sudden higher generation at RHEP

During 109th OCC meeting Assam & Tripura raised the issue of suo motu revision/ moderation of reservoir based hydro stations, where there is no spillage, to resolve the issues related to under drawal.

Deliberation in the meeting

DGM (SO-1), NERLDC put a proposal for reduction in hydro generation in case of sudden flash flood in Ranganadi reservoir. In that situation drawal schedules of the beneficiaries (as stated by ASSAM and Meghalaya) will increase causing huge under drawal by the states which further attract more deviation charge. To mitigate the situation or to give temporary relieve to the constituents withdrawal of machines is the alternate option for better system operation (as per I.E.G.C clause 6.5.20) rather accepting partial requisition (to avoid complication to prepare a feasible injection schedule). In this regards following power stations may be chosen serially for generation withdrawal:

First : Kopil; Second : Doyang; Third : Loktak and Fourth : Khandong

This will be followed by NERLDC on sou motto basis subject to the fulfilling of conditions as stated below:

- (i) In case of real time situation only when there is a sudden flash flood in Ranganadi power station.
- (ii) Maximum surrendering of requisition from gas stations by the constituents (atleast Assam and Meghalaya).
- (iii) No changes of spilling in reservoir based stations due to the generation withdrawal

The sub-committee was agreed with the proposal and requested NERLDC to go ahead the proposal

D.14 Furnishing Monthly Auxiliary Consumption in MU for Power stations:

NERLDC informed that various MIS reports on the matter are prepared mainly based upon normative value. To make the reports more practical and accurate all power stations are requested to furnish station-wise monthly Auxiliary Consumption in MU for the previous month by the first working day of the succeeding month.

Deliberation in the meeting

NERLDC submitted the current status which is tabulated as below

Status of submission of Monthly Auxiliary Consumption in MU for Power stations			
Sl No	Name of Constituent	Data Submitted	Remarks
1	AEGCL	Submitted for April & May'15	
2	MePTCL	Submitted for April & May'15	
3	P&E Deptt, Mizoram	Not submitted	
4	DoP, Nagaland	Not submitted	
5	TSECL	Not submitted	
6	NEEPCO	Submitted for April & May'15	
7	NTPC	-	To be submitted from June'15
8	NHPC	Submitted for May'15	To be submitted for April'15
9	OTPC	Submitted for April & May'15	

The Sub-committee requested all the remaining Power Utilities to furnish the information at the earliest.

Action: All Power Utilities.

D.15 RE integration:

NERLDC informed that grid integration of infirm renewable energy sources is a major challenge facing the sector today. Hon'ble CERC has come out with draft amendments of IEGC, DSM & REC mechanism. To address this issue, NLDC has prepared questionnaire related to issues of Scheduling, Metering & Settlement followed in each state of NER.

Deliberation in the meeting

DGM (SO-I), NERLDC informed that above information in questioners format had already been mailed to all the constituents and requested them to comply at the

earliest. NERLDC also intimated the status of submission of the questionnaire by various States / utilities which is tabulated below:

States/ utilities	Status of Submission	Remarks
Arunachal Pradesh	Yes	Full
Assam	Yes	Partial
Manipur	Yes	Full
Meghalaya	Yes	Full
Mizoram	No	
Nagaland	No	

The Sub-committee requested all the remaining NER States to furnish the above information to NERLDC at the earliest.

Action: Assam, Mizoram & Nagaland.

D.16 Estimated Transmission Availability Certificate (TAC) for the month of May, 2015:

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

D.17 Furnishing of Technical & Commercial Data for Computation of PoC Charges & Losses for 2nd Quarter of 2015-16 (Jul'15 to Sep'15)

As per provisions of Sharing of Inter State Transmission Charges and Losses Regulations, 2010 of CERC, as amended from time to time, the following data are required for Computation of PoC Charges & Losses for 2nd Quarter of 2015-16 (Jul'15 to Sep'15)

1. Technical details of new transmission elements and generating units which are expected to commence commercial operation during Jul'15 to Sep'15.

2. Yearly Transmission Charges
3. Nodal Generation information and forecast withdrawal data

As per Provisions of Sharing of Inter State Transmission Charges and Losses (Third Amendment) Regulations, 2015 of CERC, 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 and Losses for Q2 of 2015-16.

Filled up formats may be sent in soft copy to NLDC through e-mail to implementingagency@powergrid.co.in <mailto:implementingagency@powergrid.co.in> or implementingagency@posoco.in <mailto:implementingagency@posoco.in> & NERLDC through e-mail to nerldc@yahoo.co.in. A written communication confirming the furnishing of data by e-mail to NLDC may also be sent.

DICs are requested to furnish the data by 25th June, 2015 (Thursday).

Deliberation in the meeting

NERLDC requested to nominate one officer from each DIC for furnishing of PoC data as per format and also requested to furnish the contact no (mobile) and e_mail id to NERLDC

The Sub-committee requested DICs to submit the PoC data as per format for the period w.e.f Jul'15 to Sep'15 to NLDC and NERLDC by 25th June'15.

ADDITIONAL AGENDA:

A. Preventive Shifting of 400kV Towers of 400kV Balipara-Ranganadi # 1 & 2 Line along the river Dinkrong in Pile foundation to avoid threat of collapse of line in every year:

DGM (AM), NERTS informed that the river course of Dikrong River where the discharge of Ranganadi Generation is done changes frequently due to lower bed depth and higher scouring depth. As a result, every year one to two towers become endangered due to erosion of soil on account of wayward river course change. Action is required to be taken for preventive shifting of balance 10 nos. of 400kV towers along the river to pile and book the same under PoC Mechanism.

Deliberation in the meeting

After detailed deliberation, the sub-committee agreed and asked POWERGRID to provide details for necessary approval of RPC.

Action: POWERGRID.

B. Repair of failed Reactor at Byrnihat by Meghalaya

DGM (AM), NERTS informed that as discussed with Meghalaya, POWERGRID had already obtained and forwarded the offer of M/S CGL for supply of Winding and supervision of repair of reactor at site to Meghalaya. Accordingly, he informed that the validity of their offer is time bound and so, immediate action is required to be taken to avoid price escalation.

Deliberation in the meeting

SE, SLDC stated that he will take up the matter with their management and will inform to POWERGRID soon.

The sub-committee noted as above.

Action: Meghalaya.

Date & Venue of next OCC meeting

It is proposed to hold the 111st OCC meeting of NERPC on second week of July, 2015. However, the exact date and venue will be intimated in due course.

The Sub-committee also decided that from now onwards NERPC/NERLDC will monitor and take follow up action on all the issues every week to all the concerned constituents so that progress can be firmed up before the next meeting.

The meeting ended with thanks to the Chair.

Annexure-IList of Participants in the 109th OCC Meetings held on 20/05/2015

SN	Name & Designation	Organization	Contact No.
1.	Sh. Nangkong Perme, EE, SLDC	Ar. Pradesh	09436288643
2.	Sh. M.K. Bordoloi, CGM, SLDC	Assam	09435203996
3.	Sh. A.K. Saikia, DGM,LDC, AEGCL	Assam	09401026118
4.	Sh. J.K. Baishya, AGM, SLDC	Assam	09435041494
5.	Sh. A.N. Dev Choudhury, AGM (APDCL)	Assam	09854120791
6.	Sh. J.P. Choudhury, AGM (TRC), APDCL	Assam	09954055295
7.	Sh. B.C. Borah, AGM, SLDC	Assam	09435119248
8.	Sh. K. Goswami, AGM (Com)	Assam	09864020019
9.	Sh. Tenchan Woleng, Manager, MSPCL	Manipur	08974138850
10.	Sh. G.T. Sharma, Manager, MSPCL	Manipur	
11.	Sh. Roshan Oinam, Manager	Manipur	09863895218
12.	Sh. F.E. Kharshiing, SE, SLDC	Meghalaya	09863066960
13.	Sh. R. Majaw, SE (EM)	Meghalaya	
14.	Sh. B. Wankhar, EE, MePTCL	Meghalaya	09436105914
	No Representative	Mizoram	
15.	Sh.A.Jakhalu, E.E (Trans)	Nagaland	09436002696
	No Representative	Tripura	
16.	Sh. N. R. Paul, DGM (SO-I)	NERLDC	09436302723
17.	Sh. R. Sutradhar, DGM (MO)	NERLDC	09436302714
18.	Sh. B. Medhi, Dy. Manager	NERLDC	09436335776
19.	Sh. P. Kanungo, DGM (AM)	PGCIL	09436302823
20.	Sh. Joypal Roy, Sr. Manager (E/M)	NEEPCO	09435577726
21.	Sh. S. Chakraborty, Manager (O&M)	NTPC	09435322591
22.	Sh. Th. Tuankhanlal, AM (Elect)	NHPC	09436848069
23.	Sh. Thakor Prasad Pandey, DGM (O&M)	OTPC	08794718423
24.	Sh. P.K. Mishra, Member Secretary	NERPC	09968380242
25.	Sh. B. Lyngkhoi, Director/S.E (O)	NERPC	09436163419
26.	Sh. S. Mukherjee, AEE	NERPC	08794277306
27.	Sh. Shaishav Ranjan, A.E	NERPC	08794276168

