

North Eastern Regional Power Committee

MINUTES OF THE 112th OPERATION COORDINATION

SUB-COMMITTEE MEETING OF NERPC

Date : 06/08/2015 (Thursday)
Time : 10:00 hrs
Venue : "Hotel Nandan", Guwahati.

The List of Participants in the 112th OCC Meeting is attached at **Annexure - I**

Shri P.K. Mishra, Member Secretary, NERPC welcomed all the participants to the 112th OCC meeting. He stated that 15th TCC/NERPC meetings are scheduled to be held on 20th & 21st August, 2015 at Guwahati and he requested that any items to be discussed and approved in the next RPC meeting should be discussed and get it approved by the sub-committee before endorsement in the coming RPC meeting. He stated that issue of non-participation by members will be raised in the next RPC meeting since many issues could not be concluded due to absence from some constituents. He requested all the members to actively participate in the discussion for fruitful outcome of the meeting.

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

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 111st MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

SE(O) informed that the minutes of 111th meeting of Operation Sub-committee held on 15th July, 2015 at Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2015/4556-4591 dated 24th July, 2015.

Since no other comments/observations were received from the constituents, the Sub-committee confirmed the minutes of 111th OCCM of NERPC.

ITEMS FOR DISCUSSION

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

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

NER PERFORMANCE DURING JULY, 2015

States	Energy Met (MU)		w.r.t. June,15 % inc (+) /dec (-)	Energy Reqr. (MU)		w.r.t. June,15 % inc (+) /dec (-)	% inc (+) /dec (-) of energy reqr vs met. In July, 15
	Jul-15	Jun-15		Jul-15	Jun-15		
Ar. Pradesh	36.7	37	-0.8	38.6	39	-1.0	-4.9
Assam	777.6	687	13.2	823.7	736	11.9	-5.6
Manipur	81.2	59	37.6	84.3	61	38.2	-3.7
Meghalaya	140.0	130	7.7	151.2	137	10.4	-7.4
Mizoram	36.7	36	1.9	38.3	37	3.5	-4.2
Nagaland	67.0	62	8.1	68.6	63	8.9	-2.3
Tripura	101.5	105	-3.3	104.2	108	3.5	-2.6
Region	1240.6	1116	11.2	1308.8	1181	10.8	-5.2

States	Demand Met (MW)		w.r.t. June,15 % inc (+) /dec (-)	Demand in (MW)		w.r.t. June,15 % inc (+) /dec(-)	% inc (+) /dec (-) of Demand vs met. In July, 15
	Jul-15	Jun-15		Jul-15	Jun-15		
Ar. Pradesh	108	108	0.0	110	110	0.0	-1.8
Assam	1326	1324	0.2	1487	1395	6.6	-10.8
Manipur	139	147	-5.4	139	149	-6.7	0.0
Meghalaya	317	295	7.5	316	302	4.6	0.3
Mizoram	78	81	-3.7	79	82	-3.7	-1.3
Nagaland	138	120	15.0	140	123	13.8	-1.4
Tripura	250	249	0.4	250	249	0.4	0.0
Region	2224	2190	1.6	2355	2356	-0.04	-5.6

REGIONAL GENERATION & INTER-REGIONAL EXCHANGE IN MU

Month---->	Jul-15	Jun-15
Total Generation in NER (Gross)	1293.53	1095.32
Total Central Sector Generation (Gross)	958.75	761.77
Total State Sector Generation (Gross)	334.78	333.55
Inter-Regional Energy Exchange		
(a) NER-ER	119.95	48.30
(b) ER-NER	64.06	114.83
© Net Import	-55.89	66.53

AVERAGE FREQUENCY (Hz)

Month---->	Jul-15	Jun-15
	% of Time	% of Time
Below 49.9 Hz	10.72	9.20
Between 49.9 to 50.05 Hz	70.26	64.17
Above 50.05 Hz	19.02	26.63
Average	49.99	50.01
Maximum	50.33	50.55
Minimum	49.56	49.56

The Summary of Messages issued by NERLDC for the constituents of NER for the Month of July, 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	1	1	1	11	12	6	2	8
Assam	35	23	58	4	9	13	6	3	9
Manipur	1	2	3	5	2	7	5	3	8
Meghalaya	1	6	7	2	0	2	4	0	4
Mizoram	1	0	1	3	9	12	6	2	8
Nagaland	1	0	1	4	11	15	6	3	9
Tripura	5	13	18	0	13	13	6	3	9
AGBPP	0	0	0	0	0	0	0	0	0
AGTPP	0	0	0	0	0	0	0	0	0
RHEP	0	0	0	0	0	0	0	0	0
KOPILI	0	0	0	0	0	0	0	0	0
KHANDONG	0	0	0	0	0	0	0	0	0

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 of 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 112th OCC Meeting	Status as on 111th OCC
1	Trial operation and CoD of Unit -I of Bongaigoan TPS of NTPC	COD is expected by December, 2015	Trial Run of Unit -# I was successfully carried out on 22 nd June, 2015. COD is expected by December, 2015

2	400/220kV, 2x315 MVA ICT of NTPC at Bongaigaon	August, 2015	August, 2015 NTPC requested NERPC to write to their management about the urgency of commissioning of above ICT.
3	Trial operation and CoD of STG –I & II of AGTPP of NEEPCO (2 x 25.5 MW)	CoD of STG-II is 29.07.2015. STG-I trial run with one boiler is August, 2015.	Trial Run for STG-II is 22.07.2015. STG-I trial run with one boiler is August, 2015
4	Trial operation and CoD of Monarchak GBPP of NEEPCO	Metering, telemetry, machine data, Connectivity agreement to be signed soon by TSECL. Synchronization depends upon availability of gas. December, 2015 Refer to TCC	Metering, telemetry, machine data, Connectivity agreement to be signed soon by TSECL. Synchronization depends upon availability of gas. December, 2015
5	Kameng HEP of NEEPCO two units (2 x 150 MW) Next two units (2x150 MW)	November, 2016 March, 2017	-
6	Pare HEP of NEEPCO (2 x 55 MW)	June, 2016	June, 2016
7	400KV D/C Silchar - Melriat line of PGCIL	December, 2015	December, 2015
8	800KV HVDC Bishwanath Chariali – Agra of PGCIL	August, 2015	20 KM stringing is left. June/July, 2015
9	220kV Rangia - Salakati of AEGCL	June, 2016	June, 2016
10	132kV Monarchak – Surjamaninagar D/C of TSECL	March, 2016	December, 2015
11	400/132 kV, 2nd 125 MVA ICT at Palatana	June, 2016	June, 2016
12	400 D/C Silchar – P.K. Bari of PGCIL	CoD on 30.07.2015	June, 2015

The Sub-committee noted as above.

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

During 110th OCC meeting, 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.

During 111th OCC meeting, DGM (SO-II), NERLDC informed that NERLDC has already compiled the list in tabular format as suggested by the Sub-committee considering Planning Criteria, January, 2013 & NRCE and these figures are attached along with 111th OCC Minutes.

Deliberation of the Sub-Committee

DGM (SOII), NERLDC requested all constituents of NER to change CT ratio as per NRCE guidelines (e.g 495 A for 132 kV lines (Panther Conductor) at Design Temperature of 75°). Members agreed.

Action: All Utilities

C.2 (a) Up-gradation of CT ratio of 132 kV Gelephu - Salakati line to 600/1 A at Salakati:

NLDC, Bhutan have requested to upgrade CT ratio of 132 kV Gelephu - Salakati line to 600/1 A at Salakati for evacuation of Dagachu power through ER Grid of Bhutan in case of contingency in Western Grid of Bhutan. They have already upgrade CT ratio of 132 kV Gelephu - Salakati line to 600/1 A at Gelephu.

During 111st OCC meeting, NERLDC informed that Bhutan has not changed the CT Ratio and they wanted shut down for the purpose. Accordingly, it has been decided to accord shut down of 132 kV Salakati – Gelephu line on 29.07.15 for carrying out the job of CT Ratio changing to 600/1A simultaneously by Bhutan and POWERGRID at both ends (i.e. Salakati & Gelephu).

Deliberation of the Sub-Committee

The Sub-committee once gain requested NERLDC to take up the matter with NLDC Bhutan so that shutdown can be availed by NERTS to complete the work.

C.2 (b) 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 Lumshnong – 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 Lumshnong – Panchgram Line is to be enhanced.

During 111th OCC meeting, EE (MRT), MePTCL had informed during the 35th PCC meeting that DPR for Meghalaya portion had already been forwarded to competent authority for approval and action will be taken up soon after the approval.

AGM, Assam requested Meghalaya to send the DPR to them so that they also have to prepare the DPR in line with Meghalaya. Meghalaya agreed.

The Sub-committee suggested Assam & Meghalaya to resolve the issue bilaterally and inform the status of progress to the forum.

Deliberation of the Sub-Committee

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.

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

The Sub-committee noted as above.

Action: Assam & Meghalaya

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

During 110th OCC meeting, the Sub-committee requested NERLDC to compile the list of SLDs to be submitted by constituents in tabular format. Accordingly, NERLDC has furnished the latest status of SLDs as given below:

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

Deliberation of the Sub-Committee

After detailed deliberation, the Sub-committee had decided that above information should be sent by all the utilities to NERLDC/NERPC latest **by 31.08.2015**. All remaining constituents agreed.

The Sub-committee noted as above.

Action: All Utilities as above.

C.4 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 the NERLDC at the earliest as per format given by them.

During 111th OCC meeting, NHPC informed that work for implementation of FGMO will commence from 22.07.2015 for 15 days and requested the forum to grant the shutdown if required during commissioning of FGMO.

Deliberation of the Sub-Committee

Since no representative from NHPC was present, the status could not be updated.

The Sub-committee noted as above.

Action: NHPC

C.5 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.

During 110th OCC meeting, the Sub-committee requested NERLDC to compile the list of feeders connected to essential load to be submitted by constituents in tabular format. Accordingly, NERLDC has furnished the latest status of SLDs as given 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	
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	
6	<i>DoP, Nagaland</i>	Yes	
7	<i>TSECL</i>	Yes	

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 31.08.2015**. All constituents agreed.

The Sub-committee noted as above.

Action: Manipur.

C.6 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 are requested to furnish the progress report of their elements by 10th of every month for the previous month.

During 110th 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:

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 April & June'15	
3	APGCL	Submitted for Mar'15	
4	MSPCL	Submitted for April'15	
5	MePTCL	Submitted for May'15	
6	MePGCL	Not submitted	
7	P&E Deptt, Mizoram	Submitted for Jul'15	
8	DoP, Nagaland	Submitted for Jul'15	
9	TSECL	Submitted for Jun'15	July'15 to be submitted in format
10	POWERGRID	Submitted	
11	NEEPCO	Submitted regularly for each month	
12	NTPC	Submitted regularly for each month	
13	NHPC	Not submitted for Lower Subansiri	NHPC requested to take up the matter with Corporate regarding Lower Subansiri HEP
14	OTPC	-	Status of 2 nd 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 **31.08.2015**. All constituents agreed.

The Sub-committee noted as above.

Action: OTPC & MePGCL.

C.7 Installation of 2nd 125MVA, 400/132kV ICT at Pallatana:

At present, there is only one no. of 125 MVA, 400/132kV ICT at Pallatana through which Tripura System is connected. The N-1 Criterion of CEA is not fulfilled and in case of outage of the ICT the connectivity with Tripura system gets lost. The issue was deliberated in 110th OCC meeting and the Sub-committee requested OTPC to install one more ICT for redundancy.

Meanwhile, Tripura informed that about 100MW surplus power to Bangladesh is likely to take place by December, 2015. So adequate & reliable power availability at Tripura's bus is immediately needed to be ensured.

During 111th OCC meeting, DGM, OTPC informed that procurement of one 125MVA ICT is under process and the same is likely to be completed by June, 2016.

Deliberation of the sub-Committee

DGM, OTPC informed that LOA for procurement of one 125 MVA ICT is under process and the same is likely to be completed by June, 2016.

The Sub-committee noted as above

Action: OTPC

C.8 Installation of dedicated auxiliary power supply arrangement at Pallatana:

It has been observed that in various occasions the Generation of Pallatana interrupted due to disturbance in Auxiliary Power Supply taken from Tripura system. OTPC informed that their transformation capacity in existing dedicated auxiliary power supply is limited to 16MVA and so, a part of auxiliary load is connected to Tripura system.

During 110th OCCM, the Sub-committee suggested OTPC to enhance Unit Auxiliary Transformer (UAT) capacity for dedicated station auxiliary power supply arrangement.

During 111st OCC meeting, OTPC informed that they will explore the capacity enhancement of Unit Auxiliary Transformer (UAT) for dedicated station auxiliary power supply & final report will be submitted shortly.

DGM, OTPC informed that consultant has already been engaged to look into the matter and the status will be informed accordingly.

Deliberation of the sub-Committee

OTPC informed that installation of 2nd 125 MVA, 400/132 kV ICT is in progress, which is required for Auxiliary Consumption instead of depending on Tripura system. The matter can be reviewed after commissioning of above ICT.

The Sub-committee noted as above

Action: OTPC

C.9 Conversion of line reactors of 400kV Balipara – Bongaigaon I&II to switchable line Reactors at Balipara & Bongaigoan:

DGM (AM), NERTS informed that conversion of line reactor of Balipara-Bongaigaon – I & II to switchable line reactor, the 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.

The Sub-committee suggested that the status of the progress of this work will be monitored on monthly basis.

Action: NERTS

C.10 Second In-feed for NER-ER Corridor:

During 110th OCC meeting, SE(O) informed that the above joint visit of NERPC, POWERGRID and NTPC was carried out on 23.05.2015 and various input were given to ABB to carry out the feasibility of connecting one of the circuits of each 400kV Balipara – Bongaigaon and 400kV Bongaigaon – Siliguri to create second node with ER.

ABB informed that they will carry out site visit shortly to study the feasibility.

During 111st OCC meeting, GM, NERTS suggested that ABB should explore the options of feasibility of using AIS as well as GIS and send these options to Standing Committee for comments/observations.

ABB has already submitted tentative layout. However, ABB will carry out site visit shortly to finalize the layout.

The Sub-committee requested NERTS to extend help to NTPC and ABB in this regard so that the scheme can be placed to next TCC/RPC meetings.

Deliberation of the Committee

The Sub-committee requested NERTS to take up the matter in the coming 5th Standing Committee Meeting of CEA so that the scheme can be placed to next TCC/RPC meetings.

The Sub-committee noted as above.

Action: NTPC & NERTS

C.11 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	Aug15	Sep15	Oct15	Nov15	Dec15
Ar. Pradesh	72	72	72	67	67
Assam	730	720	710	700	700
Manipur	75	75	75	75	75
Meghalaya	140	150	180	190	202
Mizoram	42	42	43	43	45
Nagaland	70	70	72	72	69
Tripura	125	120	130	110	120
NER	1254	1249	1282	1257	1278

Availability:

Name of State	Aug15	Sep15	Oct15	Nov15	Dec15
Ar. Pradesh	86	74	61	50	45
Assam	640	630	600	605	550
Manipur	101	85	79	70	65
Meghalaya	280	274	260	220	200
Mizoram	65	54	50	40	40
Nagaland	63	64	56	60	55
Tripura	205	192	194	190	195
NER	1440	1373	1300	1235	1150

- These data required for preparation of various reports.

C.12 Monthly MW requirement & availability of each state of NER:

A. Peak Demand in MW

Name of State	Aug15	Sep15	Oct15	Nov15	Dec15
Ar. Pradesh	138	143	143	128	128
Assam	1510	1480	1455	1400	1460
Manipur	149	149	154	149	149
Meghalaya	395	400	400	410	425
Mizoram	90	85	85	90	95
Nagaland	130	135	130	135	130
Tripura	275	285	300	280	255
NER	2717	2677	2682	2592	2642

B. Peak Availability in MW

Name of State	Aug15	Sep15	Oct15	Nov15	Dec15
Ar. Pradesh	143	145	145	127	126
Assam	1113	1164	1210	1200	1200
Manipur	159	159	160	140	128
Meghalaya	488	488	480	380	350
Mizoram	109	105	105	95	90
Nagaland	104	104	110	100	90
Tripura	398/230	403/230	403/230	403/230	403/230
NER	2514	2570	2600	2445	2445

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

A. Off Peak Demand in MW (0800 Hr)

Name of State	Aug15	Sep15	Oct15	Nov15	Dec15
Ar. Pradesh	76	72	76	70	70
Assam	920	830	950	900	920
Manipur	97	75	95	97	95
Meghalaya	217	165	226	231	234
Mizoram	55	42	55	59	62
Nagaland	78	70	80	78	80
Tripura	201	202	214	184	180
NER	1644	1374	1696	1439	1641

B. Off Peak Availability in MW (0800 Hr)

Name of State	Aug15	Sep15	Oct15	Nov15	Dec15
Ar. Pradesh	108	79	76	60	60
Assam	1047	900	930	850	840
Manipur	136	97	111	95	90
Meghalaya	440	420	400	350	300
Mizoram	100	55	70	65	60
Nagaland	95	81	71	60	55
Tripura	230	194	240	240	240
NER	2156	1626	1898	1720	1645

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 05/08/15)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong + Kopili STG II	719.35	24.64	(1.032 + 0.504)	About to spill
			1.536	
Kopili	609.21	(98.2 + 4*24.67)	4.656	About to spill
		196.88		
Doyang	319.1	21.5	1.512	Increasing trend
Loktak	768.78	113	2.478	Spilling

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 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.

Deliberation in the meeting

The sub-Committee discussed and approved the proposals received from the constituents regarding transmission elements for August - September, 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.3 Status of SLDCs in NER:

The status of setting-up of SLDC as informed by POWERGRID during 112th OCC meeting is given below:

UPGRADATION OF SLDCs

SN	State	Completion Target
1	Assam	30.09.2015
2	Tripura	31.10.2015
3	Meghalaya	31.10.2015
4	NERLDC	30.09.2015

NEW SLDCs

SN	State	Completion Target
5	Manipur	30.11.2015
6	Nagaland	31.03.2016
7	Mizoram	31.03.2016
8	Arunachal Pradesh	31.12.2015

The Sub-committee noted as above.

D.4 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 are 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**.

During 111st OCC meeting, the Sub-committee once again requested all the Power utilities of NER to submit comment and suggestion for this document by 25th July, 2015; else, the same will be finalized by NERLDC accordingly.

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	Not submitted
3	Operating Procedure of Manipur 2015	Not submitted
4	Operating Procedure of Meghalaya 2015	Not 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 111st OCC meeting, the Sub-committee requested all the Power utilities of NER to submit comment and suggestion for this document by 25th July, 2015; else, the same will be finalized by NERLDC accordingly.

Deliberation in the meeting

DGM (SO-II), NERLDC informed that **Operating Procedures of NER July 2015** was updated and the same was uploaded in the website of NERLDC. The Password was informed to constituents during the meeting.

SLDC, AEGCL informed that Operating Procedure of Assam will be submitted to NERLDC/NERPC within one week.

The Sub-committee once again requested all SLDCs of NER to submit Draft Operating Procedure of the State by 31st August, 2015 for approval of the forum.

D.5 Nomination of Nodal Officers for Disaster Management:

The names of Nodal Officers for Disaster Management as updated during 111st OCC meeting is given 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	-	9436288643	-	sldcitnagar@gmail.com
Second in Command	Domo Kamduk,	JE (E)	0360-2292160	9436671717	0360-2214358	sldcitnagar@gmail.com
Assam/ AEGCL SLDC						
Nodal Officer	Bimal Chandra Borah	DGM		9435119248		bimalchandraborah@gmail.com
Second in Command	Tirtha Sharma	DGM		9435007369		sldcaseb@rediffmail.com
Manipur SLDC						
Nodal Officer	M. Budha Chandra Sharma	GM, Transmission	03852451172 / 03852447278	9436020911	Nil	sldcmanipur@yahoo.com & sldcmanipur@gmail.com
Second in Command	S. Joykumar Sharma	OSD(Tech)/SLDC	03852451172 / 03852447278	9612950771	Nil	-Do-
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)	0389-2311397	9436140353	0389-2311394	sldc_mizoram@rediffmail.com
Second in Command	Lalbiaksanga	SE(T&R)	0389-2311170	9436140932	0389-2320862	seeinc@gmail.com
Nagaland SLDC						
Nodal Officer	Atoho Jakhalu	Executive Engineer	03862230117	9436002696	03862230118	atoho.jk@gmail.com
Second in Command	Rokobeito Iralu	S.D.O	03862230118	9436832020	-	sldc.ngl@gmail.com
Tripura SLDC						
Nodal Officer	Uddharan Debbarma	DGM, SO	0381-2356470	9436462842	0381-2350795	uddharan.agt@gmail.com
Second in Command	Mrinal Pal	Manager, SO	0381-2356470	9436137022	0381-2350795	mrinalpaulnit@gmail.com

NERTS						
Nodal Officer	A. Patir	GM		9436302529		apatir@gmail.com
Second in Command	P. Kanungo	DGM		9436302823		kanungo_p@yahoo.com
NEEPCO						
Nodal Officer	B. Goswami	Sr. Mgr.		9436163983		bhaskargoswami@rediffmail.com
Second in Command	Joypaul	Sr. Mgr.		943557772		joypal_roy@rediffmail.com
NHPC						
Nodal Officer	Md. Sajid Akhter	Manager (E&C)	08974000839, 03879261237	9436678603	03879261237	loktakphop@gmail.com, loktakphem@gmail.com
Second in Command	Ch. R. C. Singh	Manager (E)	08974000839, 03879261237	9436894889	03879261237	loktakphop@gmail.com, loktakphem@gmail.com
NETC						
Nodal Officer	Narottam Chakraborty	Assistant Manager	0361-2490063	7896022335	-	narottamchakraborty@netcindia.in
Second in Command	K. K. Roy	Head-Projects	0124-4716063	9999019661	-	kkroy@netcindia.in
NTPC						
Nodal Officer	J. Bhattacharya	AGM		9435720036		jb201413074@gmail.com
Second in Command	S. Das	AGM				
OTPC						
Nodal Officer	Mukul Banerjee	GM				mukul.banerjee@otpcindia.in
Second in Command	Narendra Gupta	Manager		919774233426		nk.gupta@otpcindia.in
NERPC						
Nodal Officer	B. Lyngkhai	Director/SE		9436163419		b_lyngkhai@yahoo.com
Second in Command	S. Mukherjee	AD-I/AEE		8794277306		nerpc@ymail.com

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

D.6 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

The name of Nodal Officer along with contact number as updated by some constituents during 112nd OCC meeting is given as below:

List of Nodal Officers for weather related information			
Constituent	Name of Nodal Officer	Contact No	Email id:
Ar. Pradesh	N. Perme, EE, SLDC	9436288643	sldcitanagar@gmail.com
	A.K Yadav, JE(E) SLDC	9436666226	sldcitanagar@gmail.com
Assam	Bimal Chandra Borah, DGM	9435119248	bimalchandraborah@gmail.com
	Tirtha Sharma, DGM	9435007369	sldcaseb@rediffmail.com
Manipur	B.C. Sharma, GM	9436020911	sldcmanipur@gmail.com
	S.J. Sharma, OSD	9612950771	sldcmanipur@gmail.com
Mizoram	Vanlalrema, SE(SLDC)	9436140353	sldc_mizoram@rediffmail.com
	Lalbiaksanga, SE(T&R)	9436140932	seeinc@gmail.com
Meghalaya	F.E. Kharshiing, SE, SLDC	9612170657	sldc.shg@gmail.com
	R. Majaw, SE, MRT	9436110871	hector_fd@rediffmail.com
Nagaland	A. Jakhalu, EE, SLDC	9436002696	atoho.jk@gmail.com
	Roko Iralu, SDO	9436832020	sldc.ngl@gmail.com
Tripura	Debrata Paul, Sr. Manager	9436500244	d_pal1966@rediffmail.com
	Mrinal Paul, Manager	9436137022	mrinalpaulnit@gmail.com
NERLDC	T.S.Singh, General Manager	9436302717	tssingh4@yahoo.co.in
	N.R.Paul, DGM (SO-I)	9436302723	nrpaul.123@gmail.com
	A.Mallick, DGM (SO-II)	9436302720	amaresh1965@yahoo.co.in
	Momai Dey (Engineer, SO-II)	9436302716	m.dey1403@gmail.com
NEEPCO	B. Goswami, Sr. Manager	9436163981	bhaskargoswami@rediffmail.com
	Joypaul, Sr. Manager	943557772	joypal_roy@rediffmail.com
NHPC	R.C. Singh, Manager	9436894889	loktakphop@gmail.com
	Sajid Akhtar, Manager	9436678603	loktakphem@gmail.com
NTPC	J. Bhattacharya, AGM	9435720036	jbt201413074@gmail.com
	S. Das, AGM	-	-
OTPC	M. Banerjee, GM	9971881879	mukul.banerjee@otpcindia.in
	T.K. Pandey, DGM	9402144712	-

NERTS	A. Patir, GM	9436302529	apatir@gmail.com
	P. Kanungo, DGM	9436302823	kanungo1966@gmail.com
NERPC	B. Lyngkhoi, SE	9436163419	b_lyngkhoi@yahoo.com
	S. Mukherjee, AEE	8794277306	nerpc@ymail.com

Constituent	Nodal Officers	Stations where data is desired	Weather Parameters desired
Arunachal Pradesh	Yes	Yes	Yes
Assam (AEGCL)	Yes	Yes	Yes
Manipur (MSPCL)	Yes	Yes	Yes
Meghalaya (MePTCL)	Yes	Yes	Yes
P&E Dept. ,Mizoram	Yes	Yes	Yes
DoP, Nagaland	Yes	Yes	Yes
Tripura (TSECL)	Yes	Yes	Yes
NEEPCO	Yes	Yes	Yes
NHPC	Yes	-	-
OTPC	Yes	-	-
NTPC	Yes	-	-
NERTS	Yes	-	-

DGM (SO-II), NERLDC informed that workshop regarding weather related will be conducted soon in consultation with IMD and requested all the constituents to go through the questioners sent by NERLDC and any clarifications will be furnished by IMD. The exact date will be intimated shortly.

The Sub-committee noted as above.

D.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.

DGM, OTPC stated that reactor is in healthy condition still they had sent a communication to NERLDC seeking clearance for charging. NERLDC informed that they look into the matter and revert back to OTPC.

Further, OTPC is also requested to restore the 125 MVA ICT, which is under long outage for strengthening connectivity of Tripura system which will help to control voltage to certain extent.

The Sub-committee requested OTPC & NERLDC to resolve the issue for early charging of faulty 125 MVA ICT and 80MVAR reactor.

Deliberation in the meeting

DGM, OTPC informed that oil filtration is under progress and the reactor will be put into service by 31.08.2015.

The Sub-committee noted as above.

Action: OTPC

D.8 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, June & July'15	
2	MePTCL	Submitted for April, May, June & July'15	
3	P&E Deptt, Mizoram	Submitted for April, May, June & July'15	July,15 by 18.08.2015
4	DoP, Nagaland	Submitted for April, May, June & July'15	
5	TSECL	Submitted for April, May, June & July'15	
6	NEEPCO	Submitted for April, May, June & July'15	

7	NTPC	Submitted for June'15	To be submitted from July'15
8	NHPC	Submitted for April, May, June & July'15	
9	OTPC	Submitted for April, May, June & July'15	

The Sub-committee requested all the remaining Power Utilities to furnish the information latest by 31.08.2015.

Action: All remaining Power Utilities.

D.9 Submission of information related to scheduling, metering & settlement followed in each state of NER required for 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

SLDCs of NER and NEEPCO are requested at the earliest to submit these informations as per questionnaire prepared by NLDC.

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	Full
Manipur	Yes	Full
Meghalaya	Yes	Full
Mizoram	Yes	Full
Nagaland	Yes	Full
NEEPCO	Yes	Full

D.10 Estimated Transmission Availability Certificate (TAC) for the month of July, 2015:

NETC and NERTS, POWERGRID have submitted TAC data of July, 2015 in the first/second week of August, 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.11 Non-reporting of RTUs of Constituents:

a) AEGCL:

Only 14-18 RTUs out of 50 are reporting partially with 10 to 20 % data. It is very difficult to run the GRID without proper real-time data. So AEGCL may confirm the realistic time by which all 50 RTUs is expected to be restored and real-time data can be provided for Grid Management.

The following Generating Stations and Sub-stations need utmost attention.

Generating Stations: NTPS, LTPS, Karbi Langpi

Sub-stations: Sarusajai, Samaguri, Mariani, BTPS, Dhaligaon, Rangia (Bhutan line data not available), Badarpur, Pailapool, Haflong, Dullavchera, Bokajan.

b) Me.ECL:

Generating Stations: Umiam-II (18 MW), Umiam, Leshka (84 MW) , Umtru

Sub-stations: 132 kV Khliehriat, Byrnihat S/S.

c) TSECL:

Generating Stations: 1. Gumti (since January, 2011), 2. Baramura (partial, U-5 data NA, CB status N/S) and 3. Rokhia (U-3 N/A, all CB status suspect)

Substations: Dharmanagar, Badharghat, Kamalpur, Jirinia, Budhjungnagar, Ambasa, Udaipur (Palatana line not connected) 7-8 RTUs are reporting against 15 RTUs.

d) Manipur: 4 RTUs

- e) Nagaland: 3 RTUs
- f) Mizoram: 1 RTU
- g) MARIA_PG unstable.
- h) Kopili and Doyang RTU not reporting.
- i) Kathalguri and RC Nagar *50 pc data available.*

During 111th OCC meeting, GM, NERTS, POWERGRID informed that old RTUs are to be replaced immediately. Services required for these RTUs cannot be supported by the suppliers. All the constituents of NER are requested to replace their old RTUs at the earliest.

The Sub-committee requested all constituents of NER to procure new RTUs and replaced the old RTUs at the earliest so that real time data can be monitored for the benefit of the grid.

Deliberation in the meeting

DGM (SOII), NERLDC requested all constituents of NER to furnish timeline of installation of new RTUs.

The Sub-committee noted as above.

Action: all constituents of NER

Date & Venue of next OCC meeting

It is proposed to hold the 113rd OCC meeting of NERPC on first week of September, 2015. However, the exact date and venue will be intimated in due course.

The meeting ended with thanks to the Chair.

Annexure-I**List of Participants in the 112nd OCC Meetings held on 06/08/2015**

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. J.K. Baishya, AGM	Assam	09435041494
4.	Sh. Karuna Sarma, Asst. Mgr	Assam	09435013532
5.	Sh. A. Bhattacharya, Dy. Mgr.	Assam	09435332928
6.	Sh. J.P. Choudhury, AGM	Assam	09954055295
7.	Sh. A.N. Dev Choudhury, AGM	Assam	09854120791
8.	Sh. Laishram Ritu, Manager	Manipur	09612882984
9.	Sh. Khoisnam Steela, Manager	Manipur	08730831103
10.	Sh. T. Gidon, EE, SLDC	Meghalaya	09774479956
11.	Sh. Javed M. Warjri, AEE ,SLDC	Meghalaya	09856012700
12.	Sh. S. Saha. AE (SP)	Meghalaya	09436112798
13.	Sh. A.G. Tham, AE (SP)	Meghalaya	09774664034
14.	Sh. Lalduhawma, EE (SLDC)	Mizoram	09436144113
	No Representative	Nagaland	
15.	Sh. U. Debbarma, DGM	Tripura	09436462842
16.	Sh. D. Pal, Sr. Manager	Tripura	09436500244
17.	Sh. T.S. Singh, GM	NERLDC	09436302717
18.	Sh. A. Mallick, DGM (SO-II)	NERLDC	09436302720
19.	Sh. S. Konar, Ch. Manager	NERLDC	
20.	Sh. B. Medhi, Manager	NERLDC	0943635376
21.	Sh. A. Patir, GM (AM)	PGCIL	09436302529
22.	Sh. P. Kanungo, DGM (AM)	PGCIL	09436302823
23.	Sh. Suranjan Sarkar, Sr. Manager	NEEPCO	08974009294
24.	Sh. Bhaskar Goswami, Sr. Manager	NEEPCO	09436163981
25.	Sh. Narendra Kr Gupta, Manager	OTPC	09774233426
26.	Sh. T. Karmakar, Asst. Manager (E)	OTPC	09435239314
	No Representative	NHPC	
	No Representative	NTPC	
27.	Sh. P.K. Mishra, MS	NERPC	09968380242
28.	Sh. B.Lyngkhoi, Director/S.E (O)	NERPC	09436163419
29.	Sh. S.M. Jha, E.E	NERPC	08731845175
30.	Sh. S. Mukherjee, AEE	NERPC	08794277306
31.	Sh. Shaishav Ranjan, A.E	NERPC	08794276168