

North Eastern Regional Power Committee

Agenda For

180th OCC Sub-Committee Meeting

Time of meeting : 10:30 Hrs.

Date of meeting : 16th July, 2021 (Friday)

Venue : “NERPC Conference Hall”, Shillong.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 179th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 179th meeting of Operation Sub-committee held on 18th June, 2021 at Shillong were circulated vide letter No. NERPC/SE (O)/OCC/2020/3052-3089 dated 05th July, 2021.

The Sub-committee may confirm the minutes of 179th OCCM of NERPC as no comments/observations were received from the constituents.

ITEMS FOR DISCUSSION

B.1. Ensuring reliable power supply and redundancy of power connected to oxygen plants:

In 179th OCCM DoP Ar. Pradesh informed that the oxygen plants are in operation and no interruption of power has been observed. He assured to regularly send the interruption report as per format.

Forum requested TSECL to submit the oxygen plant power supply report regularly. It was decided that NERPC would write to the MeECL management requesting details of oxygen plants in the state and power supply thereof.

Members may please discuss.

B.2 Implementation of Projects funded from PSDF:

The status as informed in 179th OCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**	Line Differential Protection
Ar. Pradesh	Package-I (Diagnostic tools) Complete in all respects. P-II (for PLCC & communication) 50% of materials received on-site. Payment of 10% in process. P-III (Substation equipment) LoA by May'21 <i>Status as before.</i>	Work completed in all respects. Final 10% to be disbursed.	-	TESG approved.	-

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Nagaland	Completed in all respects. 10% requisition to be sent alongwith UC.	Final 10% release in process.	-	TESG approved	Lines identified. Under DPR preparation stage.
Mizoram	Completed. 10% remaining claim to be submitted ASAP.	Work completed in all respects. Final 10% to be disbursed.	To reply to TESG queries.	TESG approved	DPR submitted.
Manipur	Package-II: completed Package-I: total quantity of material yet to be received at site	Work completed in all respects. Final 10% to be disbursed.	WIP.	TESG approved	DPR sent.**
	33kV System Integration with SLDC	In tendering stage			
	Reliable Communications for grid connectivity	In tendering stage			
Tripura	Work completed. 10% remaining claim to be sent ASAP.	60% funds not yet received. CA audit papers sent.	Study results to be submitted alongwith DPR	TESG approved	Only single line 132kV 79Tilla to Budhjangn agar. DPR to be prepared.
Assam	LOA issued. WIP, delayed due to COVID situation	60% funds not yet received. CA audit papers sent.	-	LoA issued	Lines identified. Under DPR preparation stage.
Meghalaya	MePTCL Completed in all respects. MePGCL – completed in all respects.	Project complete in all respects.	-	LoA issued.	WIP. Delayed due to COVID situation

Members may please discuss.

C.1. Non-closure of Circuit Breaker at Mustem end for 132kV Khliehriat-Mustem line:

132 kV Khliehriat-Mustem S/C line had tripped on 2nd, 3rd May'21 and was restored by charging the line bypassing the CB at Mustem end due to non-closure issue of the CB as a temporary measure. Also, 132 kV Mustem-Khliehriat S/C and 132 kV Nehu-Mawlyndep S/C lines tripped on 12th May'21 leading to grid disturbance with a load loss of 26 MW at Mustem and Mawlyndep S/S and yet again the 132 kV Khliehriat- Mustem line was charged bypassing the CB at Mustem end.

MePTCL to expedite the rectification of faulty Circuit Breaker at the earliest for reliable operation & provide the schedule for rectification.

In 179th OCCM MeECL informed that on 16th June'21 some parameters of the CB were tested by OEM at Mustem. The forum requested MePTCL to expedite the breaker restoration.

MePTCL may please intimate the status.

B.4 Operational Performance and Grid Discipline during June,2021:

NERLDC will present the Operational Performance and Grid Discipline in June'2021.

NERLDC may please deliberate.

B.5 Generation Planning (ongoing and planned outages)

- a. Present per day MU and projected number of days of operation.

Plants	Reservoirs level in meter	MU content	Present DC (in MU)	No of days as per current generation
Khandong + Kopili stg II			0.151	
Kopili			0	Will be "0" until further intimation.
Doyang			0.623	
Loktak			0.39	

The outage of other generating stations may be approved considering the present water levels in reservoirs and long term outage of Kopili HEP.

Members may please discuss.

B.6 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.

It was decided in the previous OCCM that shutdown would be granted from the 1st day of the following calendar month to the 30th/31st day of the same month.

Members may please discuss.

B.7 Estimated Transmission Availability Certificate (TAC) for the month of May - June,2021:

NETC and POWERGRID have submitted the outage data for the month of May, June 2021. So, the attributability of outage of the said elements may please be finalized.

Members may please discuss.

AGENDA FROM NERPC:

B.8 Categorizations of grid elements for outage co-ordination:

Presently for any transmission element outage dates cannot be pre-mediated as it is subject to study outcome. In order to alleviate the schedule concerns involving vendors a contingency based categorization of elements is proposed. The scheme would be presented by NERPC in the meeting.

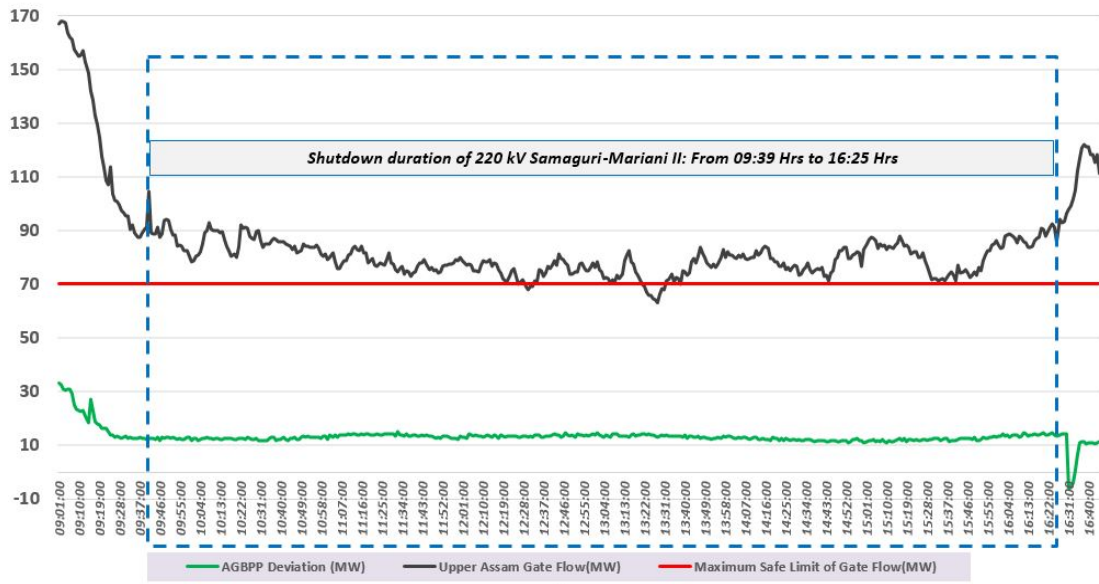
Members may please discuss.

AGENDA FROM NERLDC:

B.9 Challenges faced for maintaining reliability of Upper Assam Power System:

During shutdown of 220 kV Samaguri-Mariani (AS) line on 05.07.2021, the export from Upper Assam system was above the safe limit of 70 MW for a considerable amount of time. To ensure the safety of the Upper Assam system, generation restriction had been imposed on AGBPP,LTPS, LRPP,NTPS and NRPP plants, so that Upper Assam gate flow(i.e. cumulative flow of 220 kV Samaguri-Mariani (AS) line , 220kV AGBPP-Mariani(PG) line and 132kV Mariani(AS)-Golaghat) is maintained below safe limit of 70 MW. In above backdrop, the unwarranted over injection by AGBPP on 05.07.2021 assumes importance, as such attempts pull the power Grid to the edge of Grid collapse. A graphical representation of AGBPP deviation vis-à-vis Upper Assam Gate flow is shown below:

AGBPP Deviation vis-a-vis Upper Assam Gate Flow



Further, the system operators face challenges in maintaining the security and reliability of Upper Assam system in such scenarios due to the unavailability of real time SCADA data from LTPS, LRPP, NTPS and NRPP plants of Assam.

Thus, the following actions are requested to be taken by the concerned in view of safety and Reliability of the Upper Assam System:

1. AGBPP is requested to strictly adhere to their schedules during such scenarios.
2. Assam is requested to provide real time SCADA data from LTPS, LRPP, NTPS and NRPP plants.
3. As discussed in previous OCC Meetings Assam is requested to restore 220kV Samaguri-Mariani-I and 220kV Mariani-New Mariani lines at the earliest.

NERLDC may please deliberate.

B.10 Revival of Module-I of OTPC, Palatana:

Module I of OTPC Palatana plant is under outage since 8th April 2021. Although, shutdown of the said module was approved by 176th OCC forum till 13th May 2021, same has been extended vide various emails by OTPC Palatana till 17th July 2021. All-India demand met went beyond 200 GW on 7th July 2021 and is still in the increasing trend. In view of the same maximum possible number of generating units are being kept on bar. Thus, availability of generation from Module-I of OTPC Palatana shall help in meeting the rising demand and support the system operators in maintaining proper balance between load & generation.

OTPC is requested to restore Module -I at the earliest and strictly adhere to the target of 17th July 2021.

NERLDC may please deliberate.

B.11 Delay in returning of Planned shutdown of BgTPP 400kV Bus-2 and ICT-1:

BgTPP 400 KV Bus-2 and ICT-1 Shut down was approved from 14.06.2021 to 19.06.2021 from 08:00hrs to 16:00hrs on daily basis. It was seen that continuously for 4 days the shutdown return was delayed, 400/220 kV ICTs at BTPS (NTPC), 400

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 kV Bongaigaon and 220 kV Salakati buses play a very important role for reliable power support to the whole of Lower Assam region and any contingency might lead to grid disturbance of a large scale in NER. Such practices are to be avoided in future.

Date	Approved S/D Time	Actual Availing Time	Actual Revival Time
14-06-2021	08:00-16:00 hrs	09:15	20:29
15-06-2021	08:00-16:00 hrs	09:27	18:25
16-06-2021	08:00-16:00 hrs	09:12	19:16
17-06-2021	08:00-16:00 hrs	08:59	18:30

NERLDC may please deliberate.

B.12 PSSE training for stakeholders and Renewal of Maintenance & Support contract for PSSE end users:

As per the minutes of 171st OCCM of NER held on 16th October 2020, it was informed that “POWERGRID vide mail dated. 09.10.2020 has intimated that POWERGRID has renewed the M&S services of PSS@E license by SIEMENS Ltd. for further 5 years starting from August, 2020 for CERC, RPCs, CEA & STUs and POWERGRID shall bear the cost of above renewal alongwith issue of new dongles for PSSE ver. 35(with back compatibility feature)”.

In this respect, during the meeting, all the SLDCs were asked whether they would opt to switch the dongles. EE, SLDC, Meghalaya informed that Meghalaya has already opted for the same and the mentioned dongles are in custody of SLDC, Meghalaya and all other SLDCs were requested to intimate likewise.

NERLDC, POSOCO is planning to organize a training session for all the stakeholders on the 21st-22nd July’21 on the uses of PSS/E software from the end user’s perspective.

It is therefore, requested to intimate the status of the processing of the renewal of Maintenance and Support Contract for PSS/E at each SLDC and also nominate at least 2 officials from each SLDC for the training. This will also ensure smooth day-to-day conducting of effective system studies and grid operation.

NERLDC may please deliberate.

B.13 Operating Procedure of NER 2021-22:

Draft NER Operating Procedure for 2021-22 has been prepared and mailed to the constituents and comments from constituents are solicited latest by 16th July’21. All the constituents are requested to check and give comments if any.

NERLDC may please deliberate.

B.14 Persistent synchronizing issue at AGBPP:

Issue of synchronizing trolley at 220kV AGBPP S/S was raised in 176th& 177th OCCM. However, the same was dropped as it was deliberated by NEEPCO that the issue has been resolved. But the same issue was again observed on 22-06-2021 while synchronizing 220kV AGBPP-Mariani(AS) line after tripping via NERLDC charging code 4740, the line could not be synchronized at AGBPP S/S. Finally the line was charged from AGBPP end and synchronized at Mariani(AS) end via NERLDC code 4743.

Hence, AGBPP is requested to kindly take proper corrective actions in this regard.

NERLDC may please deliberate.

C. ITEMS FOR STATUS

C.1. Status update of important grid elements under prolonged outage impacting system operation:

Sl. No	Element	Owner	Status as informed in the 176 th OCCM	Latest status
1	132kV Rangia-Rowta	AEGCL	By 31.03.2021	
2	132kV Mariani – Mokokchung (out since April'2008)	AEGCL	Joint survey by Apr'21	
3	FSC of 400kV Balipara – Bongaigaon-4(out since 02 nd Sep'20)	NERTS	To be reviewed later on.	
4	132kV Roing-Pasighat (charged through ERS tower)	NERTS	2 piles completed. By 15 th May'21.	
5	220kV Mariani-Mokokchung - I	NERTS	By May'21	

Members may please update the status.

C.2. Status of commissioning for upcoming projects:

Sl. No	Name of the element	Utility	Status as informed in 179 th OCC meeting	Latest status
1	400kV Palatana-Surjamaninagar D/C	NERTS	By Mar'21	
2	132kV Monarchak-Surjamaninagar	TSECL	By July'21	
3	PLCC for 132kV Loktak-Ningthoukong and 132kV Loktak-Rengpang	MSPCL	By June'21	
4	Construction of 2 nd bay at Balipara for 220kV Balipara-Sonabil-2	AEGCL	Award delayed due to MCC.	
5	Bay at 132kV Agia S/Sn for 132kV Agia-Nangalbibra-II	AEGCL	By Mar'21	

6	Up-gradation of 132kV Lumshnong – Panchgram line	MePTCL	PSDF approval awaited. To prepare NIT documents.	
7	Diversion of 132kV Bawktlang-Sihmui	NERTS	By Jul'21	
8	PLCC for 132kV Karong-Kohima	MSPCL	By May'21	
9	132kV Loktak-Ningthoukong-II	MSPCL	Delayed due to RoW issues. By May'21	
10	132kV Roing-Chapakhowa	NERTS	Retendering done. By Dec'21	
11	132kV Rupai-Chapakhowa & Chapakhowa S/Sn	POWERGRID	By Dec'21	
12	Re-conductoring 220kV BTPS-Salakati D/C	NERTS	Exact status to be intimated in a week	
13	420kV 80MVAR Bus Reactor	NEEPCO	NIT by July'21	

Members may please update the status.

C.3. Voltage discrepancy among the phases of Bus CVT at Ranganadi and commissioning of 400kV Bus A at Ranganadi:

A voltage difference of around 3-4 kV is observed among the phases of 400 kV Bus CVT at Ranganadi due to faulty R-phase of the 400 kV Bus CVT. Since the SCADA input of the Bus Voltage reported at NERLDC is fed from the 400kV Bus CVT, a discrepancy of 3-4 kV is observed between the Ranganadi Station and that reported at NERLDC and hence the 400kV bus voltage remains predominantly above the IEGC BAND causing high voltage deviation. NEEPCO is requested to look into the matter and take corrective action to resolve the issue of voltage discrepancy of the 400 kV Bus CVT.

The 179th OCC forum requested RHEP, NEEPCO and NERLDC to validate the data points w.r.t Bus voltage.

NERLDC/NEEPCO may please intimate the status.

Metering agenda

C.4. SEMs to be procured for Sterlite and KMTL ongoing projects:

NERTS confirmed over mail regarding receipt of 50 Nos. SEM and 10 Nos. DCD at Misa Substation on 23.03.2021. NERLDC prepared a list of 30 nos. SEM and 07 nos. DCD on priority basis and sent to NERTS via mail on 29.04.21. Therefore, currently a total of 20 nos. SEM and 6 nos. DCD is in stock as spare (considering 3 nos. DCD as spare from earlier 20 nos. DCD procurement and 3 nos. from the present DCD procurement of 10 nos.).

In 179th OCCM, NERTS informed that distribution of SEMs & DCD from Misa shall be done by Jun'21.

NERTS may please intimate the status.

C.5. Procurement of SEM&DCD/laptop for future requirements:

NERTS may intimate the status of procurement of:

- (I) 125 nos. SEMs and 15 nos. CMRIs
- (II) Additional 40 nos. of DCD

In 179th OCCM, NERTS informed that supply of 125 nos. SEMs and 15 nos. CMRIs is expected to be completed by Jul'21.

NERTS requested the forum to decide on the procurement agency/utility for the additional 40 DCDs, as PGCIL has been re-designated as Transmission Licensee. It was decided to take up the matter for discussion in the next OCCM.

NERTS may please intimate the status and Members may please discuss.

C.6. Pair check mismatch of 400kV Azara-Silchar:

In 177th OCCM, it was decided that the CT ratio of SEM at Azara end should be 1000:1 in place of existing 2000:1 to enable matching with CT ratio of Silchar end SEM.

In line with 179th OCCM, Shutdown had been taken for the mentioned line on 20/06/21 and it was found that due to non-availability of 1000/1 CT ratio in Tie Bay, the CT ratio change could not be done as intimated by SLDC, Assam.

However, the other possibilities of the issue viz. connectivity of SEM, connectivity of any other Metering device, SCADA telemetry, healthiness of CT core, etc. may be explored and rectified.

AEGCL may please intimate the status.

Any other item:

Date and Venue of next OCC