North Eastern Regional Power Committee

Agenda
For
39th PCC Sub-Committee Meeting

Time of meeting : 10:00 Hrs.

Date of meeting : 23rd November, 2015 (Monday)

Venue : "State Guest House", Tawang.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 38th MEETING OF PROTECTION SUB-COMMITTEE OF NERPC.

The minutes of 38th meeting of Protection Sub-committee held on 08th October, 2015 at Guwahati were circulated vide letter No. NERPC/SE (O)/PCC/2015/4520-4555 dated 19th October, 2015.

No comments/observations were received from the constituents, the Sub-committee may kindly confirm the minutes of 38th PCCM of NERPC.

ITEMS FOR DISCUSSION

A.1 Implementation of 3-Phase Auto Reclosure Scheme of Radially fed 132kV Lines connected to Ranganadi HEP:

At present, the power flows to Nirjuli, Gohpur and Ziro radially from Ranganadi HEP and any transient fault in line causes undesirable outages. Hence, to avoid outages during transient fault it is essential to implement 3- Phase Dead Line charging of following 132kV Lines.

a) 132kV Ranganadi – Nirjuli Line (Dead Line Charging at RHEP)
b) 132kV Nirjuli – Gohpur Line (Dead Line Charging at Nirjuli)
c) 132kV Ranganadi – Ziro Line (Dead Line Charging at RHEP)

During 38th PCC meeting, POWERGRID stated that they will extend help to incorporate 3-phase dead-line charging at RHEP end in EPAC Relay. For this NEEPCO will arrange for S/D with due consent of Arunachal Pradesh and intimate POWERGRID in advance. Meanwhile NEEPCO informed that new relay for Nirjuli & Ziro Line has been ordered and expected delivery is November, 2015 and the same will be installed by NEEPCO at RHEP by December 2015. Accordingly, it has been decided to commission the scheme once the new relay is installed and proposal of implementation of the scheme through EPAC relay is dropped.

NEEPCO/Ar. Pradesh/NERTS may kindly intimate the status.

A.2 Implementation of 3-phase Auto Reclosure Scheme in all lines associated with Khandong and Kopili HEP:

For reliable operation of Power system it is required to implement 3-Phase Auto Reclosure Scheme in all the 132kV lines associated with Kopili and Khandong HEP of NEEPCO. The lists of such lines are:

a) 132kV Khandong – Umrangso - Halflong

b) 132kV Kopili – Khandong #1

During 38th PCC meeting, DGM (AM), NERTS informed that inspite of repeated efforts AEGCL was not able to provide manpower for joint inspection due to their busy schedule and hence requested NERPC to co-ordinate with AEGCL for finalization of date for checking of carrier inter-trip signal between Khandong – Umrangso – Halflong line. However relay portion of the work regarding implementation of 3-phase AR scheme has to be done by AEGCL.

NEEPCO, NERTS & Assam may kindly intimate the status.

A.3 Implementation of the recommendations of the Protection Audit:

As per Sl. no 9.1.1 & 9.1.4 of Report on Enquiry Committee on Grid Disturbance in Northern Region on 30th July 2012 and in Northern, Eastern & North-Eastern Region on 31st July 2012, thorough Third Party protection audit needs to be carried out periodically along with independent audit of Fault Recording Instruments.

The status as intimated by NERLDC during 38th PCC meeting is given below:

Status of submission of data related to Third Party Protection Audit			
Name of Constituent	***As per format of Task Force***	***As per format of NERPC***	***Remarks***
DoP, Ar. Pradesh	***Not submitted***	***Submitted***	***By 16.10.2015***
AEGCL	*Yes (only checklist submitted)*	***Not submitted***	***By 16.10.2015***
MSPCL	***Not Submitted***	*Submitted*	***By 16.10.2015***
P&E Dept. Mizoram	***Not Submitted***	***Submitted***	***By 16.10.2015***
DoP, Nagaland	***Submitted***	***Submitted***	-

TSECL	***Not submitted***	***Not submitted***	***By 16.10.2015***
NEEPCO	***AGTPP Not submitted***	***AGTPP,AGBPP Not submitted***	***By 16.10.2015***
NTPC	***Submitted***	***Not submitted***	***By 16.10.2015***
NHPC	***Not submitted***	***Not submitted***	***By 16.10.2015***
DoP, Ar. Pradesh	***Not submitted***	***Submitted***	***By 16.10.2015***
AEGCL	*Yes (only checklist submitted)*	***Not submitted***	***By 16.10.2015***
MSPCL	***Not Submitted***	*Submitted*	***By 16.10.2015***

After detailed deliberation, the Sub-committee had decided that those who have not submitted the data as per format of Task Force in Annexure A.2 (II) & also, as per the format of NERPC in Annexure A.2 (i) for 3rd Party Protection Audit are requested to furnish these data **by 16.10.15 positively**.

Constituents/NERLDC may kindly intimate the status.

A.4 Status of R&M Implementation of NER from PSDF:

The Sub-committee requested all the constituents to intimate the status of progress to NERPC regularly so that the same could be intimated to CERC.

Constituents may kindly intimate the status.

A.5 Installation of PLCC Panel and Commissioning of SPAR in Loktak – Ningthoukhong 132kV Feeder (MSPCL):

NHPC informed that keeping in view of Power Evacuation, Loktak – Ningthoukhong 132 kV Feeder (MSPCL) is very essential feeder for Loktak Power Station. Since No PLCC Panel has been installed in this feeder, therefore no SPAR (Single Pole Auto Reclosure) has been installed. It is well known that maximum nature of fault occurred in the feeders are temporary in nature.

In order to increase the reliability of this feeder, MSPCL is requested to install PLCC Panels at the both ends so that necessary SPAR can be commissioned.

During 38th PCC meeting, MSPCL informed that provision for installation of PLCC panels is included in R&M and within 30/11/2015 commissioning of PLCC panels will be completed.

MSPCL may kindly intimate the status.

A.6 Implementation of 3-Ph Auto Reclosure in 132 kV Loktak-Jiribam, (PG):

NERTS informed that on every tripping of 132 kV Loktak-Jiribam (PG) line Auto Reclosure is successful from Loktak end but, at Jiribam (PG) end the CB is of gang (3 pole) operated. Accordingly, NHPC may implement 3-Ph Auto Reclosure with check sync at Loktak end with 1.40 sec dead time and Jiribam (PG) end dead line charging with 0.80 sec dead time.

During 37th PCC meeting, NHPC requested that OEM is to be called for relay configuration and testing so that smooth implementation can be carried out.

DGM (AM), NERTS stated that the same work has been carried out by them in many locations and the same will be implemented by themselves.

NHPC stated that they would revert back on the offer very soon.

During 38th PCC meeting, NHPC agreed to POWERGRID's offer. POWERGRID informed that work would be completed within a month subject to finalization of date.

NHPC/POWERGRID may kindly intimate the current status.

A.7 Grid Incidences during October, 2015:

The following numbers of Grid Disturbances (GD) occurred during the period **w.e.f 1st October, 2015 to 31st October, 2015** :-

Sl No	Control Area	Grid Disturbance in nos.	
		1st October, 2015 to 31st October, 2015	1st January, 2015 to 31st October, 2015
1	Palatana	0	7
2	AGBPP	0	1
3	AGTPP	0	8
4	Ranganadi	0	4
5	Kopili	0	2
6	Khandong	0	3
7	Doyang	0	5
8	Loktak	0	10
9	Arunachal Pradesh	4	73
10	Assam	4	73
11	Manipur	2	61
12	Meghalaya	9	51
13	Mizoram	1	14
14	Nagaland	2	33
15	Tripura	0	8

Sl No	Category of GD	Grid Disturbance in nos.	
		1st October, 2015 to 31st October, 2015	1st January, 2015 to 31st October, 2015
1	GD 1	22	219
2	GD 2	0	3
3	GD 3	0	1
4	GD 4	0	1
5	GD 5	0	1
	Total	**22**	**225**

This is for information to the members. Remedial actions are to taken by the concerned power utilities of NER

A.8 Root cause analysis of tripping in Southern Part of NER on 08.08.2015 and 24.09.2015 & Remedial Measures:

Remedial Measures suggested by sub group members at the meeting held at NERPC on 29.09.15

The autoreclose schemes at Azara (AEGCL) and Byrnihat (MePTCL) are to be checked at the earliest so as to prevent tripping of 400 kV Silchar – Azara and 400 kV Silchar – Byrnihat lines in case of transient fault.

It was decided that till restoration of Autoreclosure at Azara and Byrnihat ends of 400 kV Silchar – Azara and 400 kV Silchar – Byrnihat lines, the Autoreclosure at Silchar ends are to be kept in non-Auto mode so that tripping signal to SPS-3 related to generation reduction of Palatana upon tripping of 400 kV Silchar – Byrnihat and 400 kV Silchar – Azara lines is generated in case of such events.

It was decided that tower footing resistance of 400 kV Silchar – Azara and 400 kV Silchar – Byrnihat lines are to be brought within permissible limits at around 10 towers on either side close to location of faults and Tower top patrolling around 10 towers on either side close to the location of faults are to be carried out.

From the relay flags received from Azara for 400 kV Silchar – Azara line, it was seen that fault was shown on a different phase than Silchar or Byrnihat ends. This indicates a possibility of relay configuration problem at Azara end, which is to be checked in joint inspection with AEGCL and NERTS.

The islanding scheme of AGTPP with Tripura system is to be reviewed so as to ensure successful islanding in such cases of isolation in NER Grid.

During 38th PCC meeting, the Sub-Committee decided that in addition to the recommendations of the sub-group the following should be implemented ASAP:

1. Modification to SPS-1 at Palatana: Unit-I and II to be put in AND logic so that SPS-1 would operate.

2. 400 kV Silchar-P.K.Bari D/C lines (charged at 132 kV) to be added to Islanding Scheme-2 for UFR based load shedding at 48.8 Hz.

The sub-committee also suggested that if tripping of 132 kV Silchar – Dullavcherra, 132 kV Kumarghat - AGTPP and 132 kV Kumarghat – P.K. Bari lines had occurred on 08.08.15 and 24.09.15 may be checked for verification purposes.

Action: Me. PTCL, AEGCL & POWERGRID.

Meanwhile Assam intimated again about the Non – Tripping of Azara–Bongaigaon 400kV line in three Occasions

On 04/10/2015 400kV Azara – Bongaigaon line tripped on three occasions as listed below (Relevant DR was furnished to POWERGRID/NERLDC) :-

1st Instant: At 07:06AM the line tripped on TEF / DEF at Azara end

2nd Instant: At 01:25PM Relay picked up and breaker Tripped on TEF /DEF at Azara end

3rd Instant: At 11:18PM. This time also the relay picked up and breaker tripped on TEF /DEF at Azara end only.

In all the above instances the fault was cleared by Azara end with a delayed protection. Accordingly, DT was sent to Bongaigaon end. The non-picking up of relays at the other line at Bongaigaon (PGCIL) end resulted in the tripping of the breaker at Azara on DEF. There appears to be malfunctioning in the operation of relays at Bongaigaon/Byrnhiat. An analysis of the above fault feeds may be presented by POWERGRID. The anomalies in the coordination of relay settings may be resolved through bilateral agreement between PGCIL and AEGCL.

Root Cause Analysis & Remedial Measures by sub group members at the meeting held at NERPC on 18.11.15:

Cause: As per information given by POWERGRID, the incidences above are due to high arcing faults.

Remedial Measures:

a. Explore to increase the resistive reach of Z-2 and Z-3.

b. DEF characteristics should be IDMT in place of definite time with 1100msec opening time at maximum fault level

c. Further, Z-3 setting should be 1000msec and necessary co-ordination is required for associated lines.

d. NERPC Secretariat may extend help wherever necessary Administrative coordination is required for clearance of faults.

Members may like to discuss.

A.9 Protection System in Tripura, OTPC & POWERGRID System for reliable power supply to Bangladesh:

It is understood that Tripura is going to sell power to Bangladesh through 132 kV Surjamaninagar (TSECL) – Comilla (Bangladesh) D/C lines from December, 2015.

In view of the above, TSECL, OTPC & POWERGRID are requested to provide the status of protection system in their respective substations for providing reliable power supply to Bangladesh.

Members may like to discuss.

A.10 Finalization of operational protocols for operation of line for supply of power to Bangladesh:

It is anticipated that power supply to Bangladesh from Surjamaninagar sub-station of Tripura will commence from middle of December, 2015. The power will be transmitted through international line jointly owned by India (India portion) & Bangladesh (for Bangladesh portion).

Before commencement of power supply it is essential that the following operational protocols are finalized:

Real time operation –

1. Issuance of code for charging of the line after tripping due to some fault.
2. Routing of proposals for shutdown both planned & emergency and issuance of code for the purpose opening & closing after return of shutdown
3. Co-ordination for dealing with any overdrawal issue
4. Co-ordination for contingency situations.
5. Restoration after grid disturbance and related co-ordination etc. etc

Members may like to discuss.

A.11 Root cause analysis of tripping during October, 2015:

A. Disturbance in Meghalaya System:

a. At 1545 Hrs on 01.10.15, 132 kV Khliehriat (PG) - Khliehriat (MePTCL) I & II lines **(**Line 1: **Khliehriat (PG) - DP, ZII, R-Y-B & Khliehriat (MePTCL)- No tripping** and Line 2: **Khliehriat (PG) - DP, ZII, R-Y-B & Khliehriat (MePTCL)- No tripping)** tripped. 132 kV Khlehriat (PG)- Khandong (PG)- I **(Khliehriat(PG)- No tripping & Khandong(PG)- Over Current)** also tripped. There was also tripping of Leshka Units

Load loss: 66 MW in Meghalaya
Generation Loss: 88 MW in Meghalaya (Leshka)

b. At 1351 Hrs on 05.10.15, 132 kV Khliehriat (PG) - Khliehriat (MePTCL) I & II lines **(**Line 1: **Khliehriat (PG) – Not Furnished & Khliehriat (MePTCL)- No tripping** and Line 2: **Khliehriat (PG)- Not furnished & Khliehriat (MePTCL)- No tripping)** tripped. There was also tripping of Leshka Units

Load loss: 45 MW in Meghalaya
Generation Loss: 42 MW in Meghalaya (Leshka)

c. At 1312 Hrs on 06.10.15, 132 kV Khliehriat (PG) - Khliehriat (MePTCL) I & II lines **(**Line 1: **Khliehriat (PG) – Over current & Khliehriat (MePTCL)- No tripping** and Line 2: **Khliehriat (PG) - Over current & Khliehriat (MePTCL)- No tripping)** tripped. 132 kV Khlehriat (PG)- Khandong (PG)- I **(Khliehriat(PG)- Not furnished & Khandong(PG)- Not Furnished)** also tripped. There was also tripping of Leshka Units

Load loss: 49 MW in Meghalaya
Generation Loss: 35 MW in Meghalaya (Leshka)

d. At 1343 Hrs on 06.10.15, 132 kV Khliehriat (PG) - Khliehriat (MePTCL) I & II lines **(**Line 1: **Khliehriat (PG) – DP, ZIII, B-E & Khliehriat (MePTCL)- No tripping** and Line 2: **Khliehriat (PG) - DP, ZIII, B-E & Khliehriat (MePTCL)- No tripping)** tripped.

Load loss: 4 MW in Meghalaya

e. At 0630 Hrs on 07.10.15, 132 kV Khliehriat (PG) - Khliehriat (MePTCL) I & II lines **(**Line 1: **Khliehriat (PG) – DP, ZIII, Y-B-E & Khliehriat (MePTCL)- No tripping** and Line 2: **Khliehriat (PG) - DP, ZIII, R-Y-B & Khliehriat (MePTCL)- No tripping)** tripped. There was also tripping of Leshka Units

Load loss: 61 MW in Meghalaya
Generation Loss: 42 MW in Meghalaya (Leshka)

f. At 1353 Hrs on 07.10.15, 132 kV Khliehriat (PG) - Khliehriat (MePTCL) I & II lines **(**Line 1: **Khliehriat (PG) – DP, ZIII, B-E & Khliehriat (MePTCL)- No tripping** and Line 2: **Khliehriat (PG) - DP, ZIII, R-Y-B & Khliehriat (MePTCL)- No tripping)** tripped. There was also tripping of Leshka Units

Load loss: 23 MW in Meghalaya
Generation Loss: 70 MW in Meghalaya (Leshka)

g. At 1616 Hrs on 11.10.15, 132 kV Khliehriat (PG) - Khliehriat (MePTCL) I & II lines **(**Line 1: **Khliehriat (PG) – DP, ZIII, R-Y-B & Khliehriat (MePTCL)- No tripping** and Line 2: **Khliehriat (PG) - DP, ZIII, R-Y-B & Khliehriat (MePTCL)- No tripping)** tripped.

Load loss: 41 MW in Meghalaya

h. At 1145 Hrs on 15.10.15, 132 kV Khliehriat (PG) - Khliehriat (MePTCL) I & II lines **(**Line 1: **Khliehriat (PG) – DP, ZIII, R-E & Khliehriat (MePTCL)- No tripping** and Line 2: **Khliehriat (PG) - DP, ZII, R-Y-E & Khliehriat (MePTCL)- No tripping)** tripped. There was also tripping of Leshka Units

Load loss: 63 MW in Meghalaya
Generation Loss: 42 MW in Meghalaya (Leshka)

i. **At 1344 Hrs on 31.10.15,** 132 kV Khliehriat (PG) - Khliehriat (MePTCL) I & II lines **(**Line 1: **Khliehriat (PG) – DP, ZIII, Y-E & Khliehriat (MePTCL)- No tripping** and Line 2: **Khliehriat (PG) - DP, ZI, Y-E & Khliehriat (MePTCL)- No tripping)** tripped.

Load loss: 65 MW in Meghalaya

Category as per CEA Standards: GD-I

Root Cause Analysis & Remedial Measures by sub group members at the meeting held at NERPC on 18.11.15:

Cause: As informed by MePTCL, distance protection relays at Khliehriat (MePTCL) end are absent as of now. In such case, the fault gets picked up by distance relays at Khliehriat (PG) end and Khandong (NEEPCO) end resulting in undesirable tripping.

Remedial:

The distance relays at Khliehriat (MePTCL) end are to be restored to take care of faults within Meghalaya system.

Till such time the distance relays at Khliehriat (MePTCL) end are restored, the reach of Zone-1 of Distance Protection relays at Khliehriat (PG) end of 132 kV Khliehriat (PG) – Khliehriat (MePTCL) D/C lines would be increased by NERTS so as to cover faults in Meghalaya system also and prevent widespread tripping.

Accordingly, POWERGRID has implemented faster isolation at their Khliehriat end.

The Sub-committee requested MePTCL to carry out Line section patrolling to check for line infringements due to vegetation and vegetation clearing to be done on regular basis till the Distance Protection relays at Khliehriat (MePTCL) are restored.

MePTCL, MePGCL, NEEPCO & NERTS, POWERGRID may elaborate

B. Disturbance in Manipur System.

a. At **1511 Hrs on 02.10.15**, due to tripping of 132 kV Imphal (PG)- Imphal (MSPCL) I & II lines **(Line 1: Imphal (PG)- Earth Fault & Imphal (MSPCL)- Not Furnished and Line 2: Imphal (PG)- Earth Fault & Imphal (MSPCL)- Not Furnished)** power supply to Capital area of Manipur interrupted.

Load loss: 40 MW in Manipur.

b. At **1410 Hrs on 16.10.15**, due to tripping of 132 kV Imphal (PG)- Imphal (MSPCL) I & II lines **(Line 1: Imphal (PG)- Earth Fault & Imphal (MSPCL)- Not Furnished and Line 2: Imphal (PG)- Earth Fault & Imphal (MSPCL)- Not Furnished)** power supply to Capital area of Manipur interrupted..

Load loss: 35 MW in Manipur.

Category as per CEA Standards: GD-I

Root Cause Analysis & Remedial Measures by sub group members at the meeting held at NERPC on 18.11.15:

Similarly, POWERGRID has implemented faster isolation at their Imphal end.

The Sub-committee requested MSPCL to carry out Line section patrolling to check for line infringements due to vegetation and vegetation clearing to be done on regular basis.

MSPCL & NERTS, POWERGRID may elaborate

C. Disturbance in Nagaland system:

a. **At 1109 Hrs on 06.10.15,** 132 kV Dimapur(PG)- Kohima **(Dimapur(PG)- DP, ZI, B-E & Kohima- No tripping)** line tripped. Due to tripping of this element, Capital area of Nagaland separated from rest of NER Grid and subsequently collapsed due to no source in this area.

   Load loss: 14 MW in Nagaland
   Generation loss: 24 MW in Nagaland (Likimro)

b. **At 1158 Hrs on 07.10.15,** 132 kV Dimapur(PG)- Kohima **(Dimapur(PG)- Not furnished & Kohima- No tripping)** line tripped. Due to tripping of this element, Capital area of Nagaland separated from rest of NER Grid and subsequently collapsed due to no source in this area.

   Load loss: 15 MW in Nagaland

   Generation loss: 24 MW in Nagaland (Likimro)

   Category as per CEA Standards: GD-I

Root Cause Analysis & Remedial Measures by sub group members at the meeting held at NERPC on 18.11.15:

POWERGRID informed that GIS was not the cause of frequent tripping as anticipated by them. But now after they have put into their system, the GIS is under stress due to frequent tripping of the lines.

The Sub-committee requested Nagaland to carry out Line section patrolling to check for line infringements due to vegetation and vegetation clearing to be done on regular basis.

D. Disturbance in Arunachal Pradesh system:

a. **At 1653 Hrs on 05.10.15,** 132 kV Ranganadi- Lekhi **(Ranganadi- Not furnished & Lekhi- Over Current)** line tripped. Due to tripping of this element, Lekhi & Nirjuli area of Arunachal Pradesh separated from rest of NER Grid and subsequently collapsed due to no source in this area.

Load loss: 37 MW in Arunachal Pradesh

b. **At 1322 Hrs on 30.10.15,** 132 kV Ranganadi- Lekhi **(Ranganadi- DP, Z1, B-E & Lekhi- Not furnished)** line tripped. Due to tripping of this element, Lekhi & Nirjuli area of Arunachal Pradesh separated from rest of NER Grid and subsequently collapsed due to no source in this area.

Load loss: 42 MW in Arunachal Pradesh

Category as per CEA Standards: GD-I

Root Cause Analysis & Remedial Measures by sub group members at the meeting held at NERPC on 18.11.15:

Joint inspection to be carried out by POWERGRID, Assam & Ar. Pradesh to be carried out at the earliest.

Date of Joint Visit:

DoP, Ar. Pradesh & NERTS, POWERGRID may elaborate.

E. Disturbance in Assam system:

a. **At 2053 Hrs on 04.10.15,** 132 kV Silchar- Dullavcherra **(Silchar- DP, Z1, R-E and Dullavcherra- No tripping)** line tripped. Due to tripping of this element, Dullavcherra area of Assam separated from rest of NER Grid and subsequently collapsed due to no source in this area.

Load loss: 20 MW in Assam

b. **At 2255 Hrs on 04.10.15,** 132 kV Dharmanagar- Dullavcherra **(Dharmanagar- No tripping and Dullavcherra- DP, Z1, R-E)** line tripped. Due to tripping of this element, Dullavcherra area of Assam separated from rest of NER Grid and subsequently collapsed due to no source in this area.

Load loss: 12 MW in Assam

c. **At 1243 Hrs on 16.10.15,** 132 kV Silchar- Panchgram **(Silchar- Not furnished and Panchgram- No tripping),** 132 kV Badarpur- Panchgram **(Badarpur- Not furnished and Panchgram- No tripping)** 132 kV Silchar- Srikona I & II **(Line 1: Silchar- Not furnished and Srikona- No tripping and Line 2: Silchar- Not furnished and Srikona- No tripping)** lines tripped. Due to tripping of these elements, Panchgram area of Assam separated from rest of NER Grid and subsequently collapsed due to no source in this area.

Load loss: 64 MW in Assam

d. **At 1742 Hrs on 18.10.15,** 132 kV Sarusajai- Kahilipara I , II, III & IV **(Line 1: Sarusajai- Not furnished and Kahilipara- DP, ZII, R-Y-B**, **(Line 2: Sarusajai- Not furnished and Kahilipara- DP, ZII, R-Y-B, (Line 3: Sarusajai- Not furnished and Kahilipara- DP, ZII, R-Y-B and (Line 4: Sarusajai- Not furnished and Kahilipara- DP, ZII, R-Y-B)** lines tripped.

Due to tripping of these elements, Capital area of Assam separated from rest of NER Grid and subsequently collapsed due to no source in this area.

Load loss: 130 MW in Assam

Category as per CEA Standards: GD-I

AEGCL & NERTS, POWERGRID may elaborate.

Any other item:

Date and Venue of next PCC

It is proposed to hold the 40th PCC meeting of NERPC on second week of December, 2015. The exact venue will be intimated in due course.

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