

भारत सरकार Government of India

विदयुत मंत्रालय Ministry of Power

उत्तर पूर्वी क्षेत्रीय विदय्त समिति

North Eastern Regional Power Committee

एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya



Ph. No: 0364 - 2534039 Fax No: 0364 - 2534040 Website: www.nerpc.nic.in

No. NERPC/SE/PCC/2017/2565-2589

Dated: August 17, 2017

Τo,

- 1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati 781 001
- 2. Managing Director, APDCL, Bijuli Bhawan, Guwahati 781 001
- 3. Managing Director, APGCL, Bijuli Bhawan, Guwahati 781 001
- 4. Director (Generation), Me. PGCL, Lumjingshai, Short Round Road, Shillong 793 001
- 5. Director (Distribution), Me. ECL, Lumjingshai, Short Round Road, Shillong 793 001
- 6. Director(Transmission), Me. PTCL, Lumjingshai, Short Round Road, Shillong 793 001
- 7. Managing Director, MSPDCL, Electricity Complex, Keishampat, Imphal 795 001
- 8. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal 795 001
- 9. Director (Tech), TSECL, Banamalipur, Agartala 799 001
- 10. Director (Tech), TPGL, Banamalipur, Agartala 799 001
- 11. Chief Engineer (WE Zone), Department of Power , Govt. of Arunachal Pradesh, Itanagar- 791111
- 12. Chief Engineer (EE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
- 13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
- 14. Engineer-in-Chief (P&E), Department of Power, Govt. of Mizoram, Aizawl 796 001
- 15. Chief Engineer (P), Department of Power, Govt. of Nagaland, Kohima 797 001
- 16. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
- 17. General Manager, TSECL, Agartala 799 001
- 18. Group General Manager, NTPC, Bongaigoan Thermal Power Project, P.O. Salakati, Kokrajhar- 783369
- 19. General Manager (Coml.), NTPC, 3rd Floor, OLIC Bldg., Pl No- N.17/2, Nayapalli, Bhubaneswar-12
- 20. ED, NERTS, PGCIL, Dongtieh-Lower Nongrah, Lapalang, Shillong -793 006
- 21. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
- 22. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
- 23. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
- 24.GM (Plant), OTPC, Badarghat Complex, Agartala, Tripura 799014
- 25. GM, NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong -793 006

Sir,

The <u>revised minutes</u> of the 47th Protection Co-ordination Committee (PCC) of NERPC held on 24th July 2017 (Monday) at Hotel Nandan, Guwahati at 10:30 hrs. is sent herewith for your kind perusal and necessary actions of all concerned.

भवदीय / Yours faithfully,

(एल. बी. मुआनथंग/ L. B. Muanthang) अधीक्षण अभियंता / Superintending Engineer

Copy to:

- 1. CGM, AEGCL, Bijuli Bhavan, Guwahati 781001
- 2. CGM, APGCL, Bijuli Bhavan, Guwahati 781001
- 3. CGM, DISCOM, Bijuli Bhavan, Guwahati 781001
- 4. Head of SLDC, Me.ECL, Lumjingshai, Short Round Road, Umjarain, Shillong 793 022
- 5. Head of SLDC, Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
- 6. Head of SLDC, Department of Power, Dimapur, Nagaland
- 7. Head of SLDC, Electricity Department, Govt. of Manipur, Keishampat, Imphal 795 001
- 8. Head of SLDC, Department of Power, Govt. of Mizoram, Aizawl 796 001
- 9. Head of SLDC, TSECL, Agartala 799 001
- 10. Chief Engineer(Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
- 11. Addl. GM (O&M & Elec), NTPC Ltd., Bongaigoan Thermal Power Project, P.O. Salakati, Kokrajhar-783369
- 12. DGM (C&M), OTPC, 6th Floor, A-Wing, IFCI Tower -61, Nehru Place, New Delhi 110019.

निदेशक / Director/ SE

North Eastern Regional Power Committee

MINUTES OF THE 47TH PROTECTION COORDINATION SUB-COMMITTEE MEETING OF NERPC

Date of Meeting	: 24/07/2017 (Friday)
Time of Meeting	: 10:30 hrs
Venue	: "Hotel Nandan", Guwahati.

The List of Participants in the 47th PCC Meeting is attached at **Annexure - I**.

Member Secretary, NERPC welcomed all participants and stressed the need for active participation of members from the constituents. He informed the forum that the request for increasing the frequency of PCC meeting will be considered only if the constituents are actively participating in the PCC meetings, otherwise it is of no use. DGM, NERLDC informed that attendance in the last PCCM which was held 3 months back was also thin as today. All major constituents like POWERGRID, NTPC, NEEPCO, NHPC, AEGCL, MePTCL are regularly participating in the PCC meeting. To resolve protection issues which need to be attended/rectified immediately, NERLDC requested NERPC to organize PCC meeting bi-monthly and subgroup meeting monthly. MS, NERPC agreed to consider holding PCC meeting bi-monthly and subgroup meeting monthly. He then asked Shri L. B. Muanthang, SE(P), NERPC to take up the agenda for discussion.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF THE MINUTES OF 46th MEETING OF PROTECTION SUB-COMMITTEE OF NERPC

The minutes of 46th meeting of Protection Sub-committee held on 07th April 2017 at Guwahati were circulated vide letter No. NERPC/SE/PCC/2016/1554-578 dated 21st April 2017.

As no comments/observations were received from any of the constituents, the Sub-Committee confirmed the minutes of 46th PCCM of NERPC

ITEMS FOR DISCUSSION

1. Third Party Protection audit of NER Sub-Stations

It was discussed in the **subgroup meeting held on 23rd Jan'17** that the last 3rd party Protection audit was done 4 years back. As per recommendations of Enquiry Committee, thorough third party protection audit need to be carried out in time bound manner. This exercise should be repeated periodically and monitored by RPCs. Subgroup agreed that it was necessary to carry out 3rd party protection

audit at the earliest and referred the matter to PCC forum.

In 46th PCCM, Sr. Executive, OTPC informed the forum that OTPC has already implemented the recommendations of audit committee and submitted the report to NERPC. Forum requested subgroup to review the relay settings submitted by OTPC. Sr. Manager, TSECL informed the forum that they have implemented the recommendations for distance protection and will be implementing for other relays at the earliest. Forum requested TSECL to submit report by 30th April, 2017 to NERPC.

After detailed deliberation, it was decided to carry out third party protection audit of 1/3rd of NER substation. Forum decided to form 8 teams with 2 members from NERPC, NERLDC, POWERGRID, NEEPCO, AEGCL, MePTCL & TSECL each and one member each from DoP, Nagaland, P&ED, Mizoram, MSPCL & all ISGS in NER. POWERGRID substation audit, members from 2 In states & NERLDC/NERPC shall be present. And in state substation audit, members from POWERGRID, NERPC/NERLDC and other state shall be present. All constituents are requested to send their nominee(s) to SE(P), NERPC before 30th April, 2017. Formation of teams, identification of stations and utility wise coordinators & preparation of audit schedule are to be completed within 30th April'17 by subgroup. Forum requested hosting station to arrange logistics, food & accommodation facilities to the audit team. Audit will be starting from May 2017.

During Subgroup Meeting held on 17th July, 2017, NERPC requested DGM, NERLDC to brief the Subgroup about the strategy for conducting 3rd Party Protection Audit. NERLDC informed the subgroup that 3rd Party Protection Audit of one-third of the total substations and generating stations may be carried out in the 1st phase. In view of this, NERLDC highlighted the following substations and generating stations of respective constituents to be carried out in 1st phase considering the most critical Substation and Generating Station and based on protection related issues.

2

 POWERGRID: Substations at +/- 800 kV HVDC Biswanath Chariali, 400/132 kV Silchar, 220/132 kV Mariani, 220/132 kV Mokokchung, 220/132 kV Dimapur, 132/33 kV Imphal (Total 6 Substations).

Switching Stations at 132 kV Aizawl and 132 kV Khleihriat (Total 2 Switching Stations).

- 2. **NEEPCO**: Generating Stations at 220 kV AGBPP, 132 kV AGTCCPP, 132 kV Doyang HEP and 132 kV TGBPP, Monarchak **(Total 4 Generating Stations)**.
- 3. NHPC: 132 kV Loktak HEP.
- 4. **NTPC**: 400 kV BgTPP.
- 5. **OTPC**: 400 kV Palatana GBPP.
- 6. **DoP, Arunachal Pradesh**: Substation at 132/33 kV Khupi, 132/33 kV Pasighat, 132/33 kV Chimpu and 132/33 kV Daporijo **(Total 4 Substations).**
- 7. AEGCL: Substations at 400/ 220 kV Azara, 220/132/33 kV BTPS, 220/132/33 kV Agia, 220/132/33 kV Samaguri, 220/132/66/33 kV Mariani, 220/132/66/33 kV Tinsukia, 220/132/33 kV Sonabil, 220/33 kV Jawaharnagar, 220/132/33 kV Boko, 132 kV/33 Gohpur, 132/33 kV Kahilipara, 132/33 kV Rangia, 132/33 kV Dhaligaon, 132/33 kV Panchgram, 132/33 kV Srikona, 132/33 kV Umrangsho, 132/33 kV Dibrugarh, 132/33 kV Depota, 132/33 kV Pailapool and 132/33 kV Bokajan Substation (Total 20 Substations)

Generating Stations at 132 kV NTPS, 132 kV LTPS and 132 kV Karbi Langpi HEP (Total 3 Generating Stations).

- MSPCL: Substations at 132/33 kV Imphal, 132/33 kV Ningthoukhong, 132/33 kV Karong and 132/33 kV Kakching (Total 4 Substations).
- MePTCL: Substations at 132/33 kV Khliehriat, 132/33 kV Mawlai, 132/33 kV NEHU, 132/33 kV Nangalbibra and 132/33 kV EPIP-II (Total 5 Substations) Generating Stations at 132 kV Leska HEP and 132 kV Umiam Stage-III HEP (Total 2 Generating Stations).
- 10. P & ED, Mizoram: Substations at 132/33 kV Zuangtui, 132/33 kV Luangmual and 132/33 kV Kolasib (Total 3 Substations).
- 11. **DoP, Nagaland**: Substations at 132/66/33 kV Dimapur, 132/33 kV Kohima and 132/33 Mokokchung (Total 3 Substations).

 TSECL: Substations at 132/66/33 kV Agartala, 132/66/33 kV Udaipur, 132/33 kV Surajmaninagar, 132/33 kV PK Bari, 132/33 kV Budhjangnagar and 132/33 kV Dharmanagar (Total 6 Substations)

Generating Stations at 132 Rokhia, 132 kV Baramura and 66 kV Gumti (Total 3 Generating Station).

It was discussed in the meeting that a group comprising of one member each of NERPC/NERLDC, NTPC/NHPC/NEEPCO/OTPC/POWERGRID and state constituent shall be nominated for carrying out the 3rd Party Protection Audit.

Data as per Ramakrishna Task Force format and NERPC format should be available prior to protection audit.

Subgroup concluded the discussion by stating that the above Substations and Generating Stations may be audited w.e.f. 1st week of August, 2017 and referred the matter to PCC forum.

Deliberation of the sub-Committee:

After detailed deliberation, forum agreed to carry out 3rd party protection audit in substations and generating stations suggested by sub group. Considering the fact that minimum 3 days are required for audit of one station and 5 months required for completion of 1st phase of Audit. It was also decided to form different groups of nearby sub-stations/Power Stations which are to be audited to reduce travel time. The audit will start from first week of August, 2017 and will cover 1/3rd of NER substation. Schedule of 1st phase of 3rd Party Protection Audit of NER substations and power stations is attached as **Annexure I**.

NERLDC requested the forum that next phase of protection audit may be outsourced, for which funds may be arranged from PSDF.

Member Secretary, NERPC informed the forum that getting fund from PSDF is a lengthy process. So the constituent may continue the present process of auditing by constituents.

The Sub-committee noted as above. Action: All constituents.

2. Identification of short lines to install line differential protection

During Sub Group Committee Meeting of PCC held on 24th Oct'16, NERLDC informed the forum that for purpose of installation of line differential protection on Short lines, it is necessary to identify the list of lines for this purpose.

The identification exercise for installation of Differential Protection relays has to be completed for all Transmission Lines of NER Grid level on a priority basis.

As informed by BgTPP-NTPC & POWERGRID, the installation of Differential Protection on 400 kV BgTPP – Bongaigaon D/C has been completed. As the 1st stage, differential protection is to be installed on important short lines like 132 kV Silchar – Srikona D/C, 132 kV Imphal(PG) – Imphal(MSPCL) D/C etc.

In 45th PCC meeting, forum decided that in the absence of uniformity of specific length criteria for installation of differential protection installation on short lines (valid for both existing and new transmission lines), the criteria adopted by SRPC could be referred for North-Eastern Region. After detailed deliberation, the following criterion was decided for adoption for identification of short line for differential protection:-

- a) All 132 kV transmission lines of length <5 Kms.
- b) All 220 kV transmission lines of length <10 Kms
- c) All 400 kV transmission lines of length <50 Kms
- d) All 132 kV & above dedicated transmission lines of Generators with installed capacity > 50 MW

The short lines as identified would be considered on basis of importance for installation of Differential Protection relays. The process of installation may be started wherever no additional investments in terms of Communication links between two ends of the line are required. Constituents of NER are requested to identify the lines in which line differential protections are to be installed under above criteria.

In 46th PCCM, it was decided that all constituents should identify short lines (integrated) only and submit the list of such lines to NERPC & NERLDC by 30th April, 2017. Subgroup will compile and come out with complete list of all such short line where differential protection is required by 30th April 2017. MePTCL informed that they have already identified the short lines.

After detailed deliberation, it was decided to exclude short lines that are radially

connected to NER Grid from installing differential protection.

AEGCL informed that they have placed order to ABB for differential protection in line between LV side of ICT-2 at BgTPP and 220 kV BTPS bus. NTPC informed that this link shall not be treated as line, as there is no 220 kV Bus at BgTPP end. Due to difference in opinion amongst AEGCL, NTPC, PGCIL and NERLDC it was decided that NERPC & NERLDC will arrange a separate meeting with AEGCL and NTPC to sort out this matter.

MePTCL & AEGCL have replied to NERLDC/NERPC with the list of lines for installation of line differential relay but the list submitted by AEGCL is not complete.

Forum may please review the criteria for installation of differential protection relay. Members may compile and finalize the list of all the lines of NER where differential protection relay is to be installed

Deliberation of the sub-Committee:

After detailed deliberation, it was decided that all utilities shall identify the short lines for installation of Line Differential Protection by 31st Jul'17. Power Utilities may refer List of Important Grid Element document which is available at NERLDC website (url: http://www.nerldc.org/IE.aspx) for identification of short lines.

Utilities shall furnish the list of short lines identified for installation of Line Differential Protection to NERPC/NERLDC along with availability of OPGW in the identified short lines. Member Secretary, NERPC informed that funding for installation of Line Differential Protection & OPGW can be awarded from PSDF for state utilities and PSUs may include these expenses in PoC Charges.

NERLDC informed the forum that approval is to be taken by concerned utilities from the forum, in special cases where line length is more than the approved criterion and repeated tripping occurs in account of over reach like 132 kV AGTCCPP-Agartala D/C etc.

NERPC informed that Meghalaya has already made the DPR for PSDF funding. Other state utilities are also requested to do the same. The forum really appreciate the effort made by MePTCL in preparing DPR for PSDF funding.

The Sub-committee noted as above.

Action: All constituents.

3. Finalization of Draft model maintenance procedures that are to be followed by utilities.

During 46th PCC Meeting, it was decided that all constituent has to give

suggestions and feedback on Draft model maintenance procedure for transmission system prepared by group comprising of NERLDC, PGCIL and AEGCL on or before 30th April, 2017. After 30th April, 2017, the sub-committee will finalize the maintenance procedure.

Also, Forum requested all members to furnish list of plant wise available diagnostic tools to NERPC & NERLDC by 30th April 2017. MePTCL informed that they submitted the list of diagnostic tools to NERPC.

Forum also requested power utilities of NER to assess the number of new kits for measurement of tower footing resistance without the need to disconnect earth shielding wire. Possibilities of funding from PSDF for this purpose may be explored.

However, no feedback has been received from constituents regarding draft model maintenance procedure for transmission utilities.

The draft model maintenance procedure for transmission utilities is considered as final and transmission utilities may please follow the maintenance procedure.

Deliberation of the sub-Committee:

After detailed deliberation, it was decided to circulate the draft maintenance procedure once again to all constituent for their comments. The forum requested all constituents to go through the draft model maintenance procedure and give their valuable feedback by 31st Jul'17. Member Secretary, NERPC requested subgroup to make necessary changes as per inputs from utilities and finalize model maintenance procedure. In case of no inputs/comments from utilities, the draft model maintenance procedure for transmission utilities may be considered as final. He also informed that finalized model maintenance procedure will be discussed in next RPC meeting.

The forum also requested all ISGS to submit the maintenance procedure followed by them to NERLDC and NERPC by 20.08.17.

The Sub-committee noted as above.

Action: All constituents.

4. Calculation of Relay Setting as per recommendation of V. Ramakrishna Task Force

The relay settings details as formulated by NERTS in line with recommendations of V. Ramakrishna Task Force on Power system contingencies, had been circulated

by NERLDC to all constituents of NER for comments. During Sub Group Committee Meeting of PCC held on 24th Oct'16, it was agreed that the same can be implemented at the earliest for uniformity in protection systems.

In 45th PCC meeting, it was informed to the forum that MePTCL has started the exercise while AEGCL has started implementing but having problem in the Resistive Reach setting and will come up with detailed analysis of the issue in the next meeting. TSECL has assured that it will start the work at the earliest. NTPC told that they can start implementing as per NERTS formulation only after receiving comments from their Corporate Office and will communicate the same to NERPC at the earliest.

SI.	Constituent	Current Status of	Completion Date
No.		implementation	
1.	Assam	Started	By September, 2017
2.	Arunachal Pradesh	No representative	By September, 2017
		present	
3.	Manipur	No representative	By September, 2017
		present	
4.	Meghalaya	Started	By September, 2017
5.	Mizoram	No representative	By September, 2017
		present	
6.	Nagaland	Not started	By September, 2017
7.	Tripura	Completed	Completed
8.	NERTS	Completed	Completed
9.	NEEPCO	Started	By September, 2017
10.	NHPC	Completed	Completed
11.	NTPC	Started	By April, 2017
12.	OTPC	Completed	Completed

Status as per 46th PCCM is given in the table below:

The committee requested all constituent to implement recommendation of V. Ramakrishna Task Force by September, 2017 and furnish report of the same to NERPC and NERLDC.

Members may please intimate the status of implementation of Relay Settings

as per Ramakrishna task force.

Deliberation of the sub-Committee:

The status as per 47th PCCM is given in the table below:

SI.	Constituent	Current Status of	Completion Date
No.		implementation	
1.	Assam	Implemented in 400 kV	By September, 2017
		Silchar - Azara, 220 kV	
		Tinsukia-AGBPP, 220 kV	
		BTPS – Salakati lines.	
2.	Arunachal Pradesh	No representative present	By September, 2017
3.	Manipur	No representative present	By September, 2017
4.	Meghalaya	Completed except for	By September, 2017
		substation in Garo hills.	
5.	Mizoram	No representative present	By September, 2017
6.	Nagaland	Started	By September, 2017
7.	Tripura	Completed	Completed
8.	NERTS	Completed	Completed
9.	NEEPCO	Started (RHEP & AGBPP	By September, 2017
		Completed)	
10.	NHPC	Completed	Completed
11.	NTPC	Started	By September, 2017
12.	OTPC	Completed	Completed

The committee requested all constituent to implement recommendation of V. Ramakrishna task Force by September, 2017 and sent report of the same to NERPC.

NERLDC requested all constituents to take approval from NERPC prior to changing of any protection settings other than recommendation of V. Ramakrishna task Force.

The Sub-committee noted as above.

Action: All constituents.

5. Review of Zone-II relay settings:

During Sub Group Committee Meeting of PCC held on 24th Oct'16, the forum discussed the relay settings document finalized by NERTS, POWERGRID for adoption in NER, for fulfillment with recommendations of V. Ramakrishna Committee Task Force. The forum had agreed for implementation of Zone-II / Zone-III settings accordingly.

NERLDC has circulated the impedances of shortest and longest lines for review of the reach of Zone-II Relay Settings by the constituents. Till now NERLDC has received comments from Assam, Meghalaya, OTPC and Kopili (NEEPCO). Forum asked AEGCL to furnish the guidelines of Zone-2 timing followed by them at the earliest to NERPC & NERLDC.

In 46th PCCM, after detailed deliberation it was decided that Zone –II setting to be completed for all important lines by 30th April, 2017. Forum requested subgroup to circulate list of important lines where settings have to be implemented at the earliest. The list of important lines was circulated to all the utilities by subgroup. The same was discussed in subgroup meeting on 18th April'17.

Deliberation of the sub-Committee:

After detailed deliberation, it was decided that Zone –II setting to be completed for all important lines by 15th August, 2017. AEGCL will implement the zone –II settings for all critical lines by 15th August, 2017 and for the remaining lines by September, 2017. Forum requested all power utilities to inform latest status to NERPC/NERLDC by 31st Jul'17. NERLDC requested that all power utilities refer List of Important Grid Elements document for implementation of the scheme on priority basis.

The Sub-committee noted as above. Action: AEGCL

6. Review of relay settings- Substation wise (including downstream state substation):

During Sub Group Committee Meeting of PCC held on 24th Oct'16, it was informed that due to ill-coordination in relay settings between State systems and ISTS, frequent tripping of elements are occurring. Most of the Grid disturbances in NER Grid are due to this. **P&E Dept.**, **Mizoram and DoP**, **Nagaland** were requested to co-ordinate their relay settings with ISTS systems and implement the same as suggested by NERTS.

NERPC may take up with P&E Dept., Mizoram and DoP, Nagaland in this regard for quick implementation.

Decision taken in sub group meeting held at Shillong on 24.10.16 are to be implemented at the earliest and status to be reported to NERPC&NERLDC.

In 46th PCCM, EE, DoP Nagaland informed the forum that they will discuss with POWERGRID and implement the required relay settings in downstream elements of DoP, Nagaland within 1 month to avoid unnecessary tripping of ISTS lines due

to downstream fault.

Deliberation of the sub-Committee:

NERLDC informed the forum that frequent tripping of upstream elements is occurring due to improper relay coordination at downstream state-substations (33 kV & 11 kV) especially in Tripura, Mizoram & Nagaland power systems. DoP, Nagaland representative informed the forum that relay setting at Dimapur (DoP, Nagaland) has already been reviewed and implemented. He also informed that report of the same will be submitted to NERPC within 1 week.

The forum requested DoP, Nagaland to check whether breaker is operational in 33/11 kV substations, so that downstream fault is not propagated and to inform NERLDC/NERPC.

The Sub-committee noted as above.

Action: DoP Nagaland.

7. Details of PSS installed and activated in all Hydro stations:

During Sub Group Committee Meeting of PCC held on 24th Oct'16, NERLDC requested all power stations to provide details where PSS is installed. It was also requested to activate existing PSS after tuning and inform the same through mail.

NEEPCO vide mail dtd. 27th Oct'16 informed that all hydro stations of NEEPCO have PSS installed and activated. NERLDC vide email dtd. 27th Oct'16 had requested NEEPCO for further details of PSS. NERLDC requested NEEPCO and NHPC to furnish details and settings of existing PSS (Time constant, PSS gain, PSS output limiter Max, Min etc.).

Only Palatana CCGT has provided the details of PSS installed and activated for damping oscillations to NERLDC, whereas the details provided by NEEPCO is not sufficient and to be submitted to NERPC/NERLDC. NEEPCO has given parameters of block diagram of some of their generators (Khandong, etc.), which do not convey any practical meaning in sense of damping of Low Frequency Oscillations. NERLDC requested NEEPCO to furnish the following details of PSS – Make, Date installed, Last date of tuning by OEM, Tuned frequency range.

In the 45th PCCM, NERLDC expressed concern in the matter of several cases of Poorly Damped/Negatively Damped Oscillations in Southern part of NER Grid, and requested NHPC to tune their PSS if it is already installed, and furnish details of PSS to NERPC&NERLDC.

In 46th PCCM, the committee requested NEEPCO to provide the necessary details

to NERLDC at the earliest. NERLDC requested NHPC to install PSS for the better system operation. Manager, NHPC informed that PSS is not installed in Loktak generating station.

Deliberation of the sub-Committee:

Sr. Manager, NEEPCO informed the forum that they have already provided the data available with them. DGM, NERLDC requested NEEPCO to obtain the remaining data from OEM as the data provided is not sufficient. Forum requested NEEPCO to take up issues with OEM and submit required data to NERLDC at the earliest.

Status of PSS in Gas Stations of NEEPCO: AGBPP - No PSS AGTCCPP GTGs - Under procurement process AGTCCPP STGs - Enabled

The Sub-committee noted as above.

Action: NEEPCO.

8. Standardization of Disturbance Recorder Channels:

Disturbance Recorders on Transmission elements are necessary for post disturbance analysis, and identification & rectification of any protection operation. As per CBIP's manual on Protection of Generators, GT, Transformers and Networks, it is recommended to have minimum 8(eight) analog signals and 16(sixteen) binary signals per bay or circuit. Also, it should have a minimum of 5 sec of total recording time, minimum pre-fault recording time of 100 msec and minimum post-fault recording time of 1000 msec.

POWERGRID had standardized Disturbance Recorder Channels for lines, transformers & reactors. The Sub-committee requested NERPC/NERLDC to circulate the above standardization to all constituents of NER for giving comments and suggestion by 24.07.15. NERLDC had sent this document to all constituents of NER for giving comments and suggestion by 24.07.15.

During 42nd PCC meeting, the forum requested NTPC to provide their standardized DR Channels for generator so that it may be standardized for all generating units of NER. NTPC representative readily agreed. S.E. (O) once again requested all the constituents to kindly furnish their comments so that the process may be completed.

During the 43rd PCCM, DGM (SO-II), NERLDC stated since no comments/observations were received from the constituents it may be assumed that the DR channels for line, transformer and reactor are finalized. After detailed deliberation, forum decided DR channels as finalized have to be implemented in all ISTS lines and intra-state lines with numerical relays, within 31.07.2016 and gradually for all 220kV and 132kV lines.

The forum agreed that since Assam power system is the largest state system of NER Grid, standardization of DR channels in lines of Assam is felt necessary. It was decided that AEGCL may complete implementation of standardized DR channels by 31st August 2016, and take help from NERTS, if necessary.

NTPC agreed to submit standardized DR channels for generator by 20.07.2016, which can then be discussed for adoption by all generators of NER Grid.

In 44th PCCM, AEGCL representative informed the forum that the work of DR standardization will be completed by 30th November 2016.

In 46th PCCM, AGM, AEGCL informed that they have already standardized DR channels for all 200KV and above lines. NERLDC informed forum that after repeated request to OTPC, their DR digital channels are not standardized, so proper analysis of events related to Palatana could not be done. OPTC informed that they will look in to this matter at the earliest. TSECL informed that they have not done the DR standardization. The forum requested NERLDC to provide list of all lines where standardization of DR Channel is required. All members are requested to provide update of Standardization of channel to NERLDC at the earliest.

Deliberation of the sub-Committee:

AM, AEGCL informed the forum that they have implemented the standardization of DR channel in all substation wherever possible. But in some sub-stations, it is not possible to modify the DR channels in old numerical relays. It will be done once new panels are installed.

NERLDC requested all power utilities to provide details of substation where standardization of DR channels is already completed and where ever it is not possible because of old relays by 31st July, 2017.

AGM, NTPC informed the forum that they have standardized DR channels and will send a confirmation to NERLDC.

The Sub-committee noted as above. Action: AEGCL, NTPC

9. Implementation of SPAR

During Sub Group Committee Meeting of PCC held on 24th Oct'16, NERLDC indicated that SPAR (Single Phase Auto Reclosure) is not available in 132 kV AGTPP – Agartala D/C lines, which was resulting in multiple tripping of these lines on transient fault. NERTS was requested for changing of Auto-reclosure scheme to SPAR.

It was also decided that utilities should identify those transmission lines which have no SPAR scheme for implementation of the same. Implementation of SPAR is considered necessary in view of reliability of the power system.

In 45th PCCM, Forum requested all constituents to furnish status report of SPAR implementation to NERPC.

In 46th PCCM, Forum requested subgroup to circulate list of important lines to get the latest information regarding implementation of 1-phase/3-phase Auto-Reclosure scheme. All members to furnish the required information to NERLDC & NERPC by 30th April'17.

Deliberation of the sub-Committee:

The committee requested all constituent to furnish the status report of SPAR implementation to NERPC and NERLDC latest by 31st July, 2017.

The Sub-committee noted as above.

Action: All Constituents.

10. Installation of Polymer Insulator and Transmission Line Surge Arrestor in Lightning Prone Areas

It was noted that most of tripping of transmission lines in NER Grid occur either on account of lightning strikes or due to vegetation infringement problem. It was decided that all utilities will identify the lightning prone areas and conduct checking of high tower footing resistance in transmission lines in these areas.

Since tripping of line on lightning occurs due to arcing, to prevent that it is required to either maintain low value of tower footing resistance or install of

lightning arrester for the particular towers having consistent high tower footing resistance due to prevailing ground conditions.

In 45th PCCM, the forum requested all the constituents to complete the process of identification of lightning prone line sections, and initiate action in this regard.

Forum requested members to identify lightning prone areas and measure tower footing resistance in these locations. AEGCL & MePTCL informed that they don't have proper earth resistance measuring tool at present and they are planning to procure the same at the earliest.

POWERGRID informed that additional shield wire earthing and counterpoise earthing are not helping much to arrest lightning. Better way is to install TLSA as chemical earthing cost (around RS. 80,000) is double the cost of installation of TLSA (around RS. 40,0000).

In 46th PCC Meeting, forum requested members to identify lightning prone areas and measure tower footing resistance in these locations. AEGCL & MePTCL informed that they don't have proper earth resistance measuring tool at present and they are planning to procure the same at the earliest. POWERGRID had informed that additional shield wire earthing and counterpoise earthing are not helping much to arrest lightning. Better way is to install TLSA as chemical earthing cost (around RS. 80,000) is double the cost of installation of TLSA (around RS. 40,0000).

During Subgroup Meeting held on 17th July, 2017, DGM(NERLDC) suggested MePTCL and NETC to identify the lightning prone areas of all the lines of MePTCL and NETC respectively and install polymer insulators and line arrestors to those lightning prone areas.

Deliberation of the sub-Committee:

After detailed deliberation DGM, NERTS suggested to the forum that installation of polymer insulator in existing line has huge cost implication and is not feasible. Also it is required in area where pollution level is very high. He recommended that it may be implemented for new lines.

He also suggested that for installation of lightning arrester following steps may be followed.

1. It is to identify the lightning prone lines and lightning prone areas by using one year tripping data which may collected from respective SLDCs.

- 2. Once the lines and areas are identified, the tower footing resistance of all the towers in that area needs to be measured.
- 3. Once the tower footing resistance value is available, the number of lightning arrestor required and hence cost can be estimated. The constituent may then approach for PSDF.

The Sub-committee noted as above. Action: All Constituents.

11. Mock Testing of SPS related to Palatana

During Sub Group Committee Meeting of PCC held on 17th July'17, members addressed the importance of mock testing of SPS related to Palatana at the earliest to avoid the disturbance in Southern part of NER Grid.

POWERGRID informed that there is time stamping issue of DT signal at Silchar. POWERGRID informed that the matter will be resolved in few days. **POWERGRID and Palatana agreed to do mock test of all SPS related to Palatana on 24th July, 2017 subject to good weather condition.** DGM, NERLDC further stated that time of both ends is to be synchronized with GPS before doing mock testing of SPS related to Palatana.

Deliberation of the sub-Committee:

Sr. Executive, OTPC informed the forum that the Mock SPS Test planned on 24th July, 2017 was differed due to bad weather condition. It will be conducted as soon as the weather improves. The information for the said test will be intimated 24 Hr in advance. Forum requested POWERGRID and OTPC to submit a detailed mock test report immediately after mock test to NERPC & NERLDC.

The Sub-committee noted as above. Action: OTPC & PGCIL.

12. Desynchronization of AGTCCPP Machines due to Under Voltage issue

During Sub Group Committee Meeting of PCC held on 17th July'17, NEEPCO informed the Subgroup that it is difficult to run their machines under under-voltage condition.

Subgroup decided that system study has to be done by TSECL to identify the nodes where under-voltage issue exists and plan for the installation of Capacitor Banks for improvement of voltage profile.

Deliberation of the sub-Committee:

Tripura representative were absent. The issue could not be discussed. It was referred to next OCC meeting.

The Sub-committee noted as above. Action: TSECL.

13. Low Frequency Oscillations (LFOs) at 132 kV Agartala

In subgroup meeting held on 9th March 2017, NERLDC showed the PMU plots of several instances of oscillations observed at 132 kV Agartala PMU and raised concern on proper tuning of Automatic Voltage Regulator (AVR) of AGTPP units considering the oscillation in voltage and many of the cases involved switching of AGTPP units. He also requested NEEPCO to take this matter seriously as these localized oscillations can spread to other generating stations connected to grid.

Sr. Manager, NEEPCO informed that there was a change in control systems of AGTTP Units 3 & 4. OEM has informed them that oscillation may be due to change in control system as oscillations were observed only in these units. He also informed that control systems of AGTPP Units 1 & 2 will be replaced soon with new ones. If those machines also experience oscillation problem, OEM will install additional equipment to damp the oscillation.

DGM (SO-II), NERLDC asked NEEPCO to check and inform forum whether PSS is enabled and functioning properly. He also requested NEEPCO to carry out AVR tuning and take necessary actions to damp out oscillations at the earliest as these oscillations can lead to wide spread oscillations in grid.

In 46th PCCM, it was discussed that Sr. Manager, NEEPCO informed that the oscillation started after changing the control panel of units 1 and 2. NEEPCO also informed that matter is already reported to OEM and OEM is yet to provide any solution. The forum requested NEEPCO to pursue the matter very seriously with the OEM as low frequency oscillation endangers the stability of grid and come up with solution at the earliest.

Deliberation of the sub-Committee:

After detailed deliberation, the forum requested NEEPCO to take urgent steps to damp the oscillation as it is endangering the grid security. NERLDC requested

NEEPCO to take up this matter with OEM at the earliest.

The Sub-committee noted as above.

Action: NEEPCO.

14. Analysis & Discussion on Events, Grid Incidences, Grid Disturbances which occurred in NER Grid w.e.f 1st January - 30th June 2017. The following numbers of Grid Disturbances (GD) & Grid Incidents (GI) occurred during the period w.e.f 1st March to 30th June 2017 and 1st January to 30th June 2017 :-

SI. No.	Control Area	Grid Incidents in nos. Mar'17 to	Grid Disturbance in nos. Mar'17 to	Grid Incidents in nos. Jan'17 to	Grid Disturbance in nos. Jan'17 to
		June'17	June'17	June'17	June'17
1	Palatana	8	4	19	4
2	AGBPP	3	0	6	0
3	AGTPP	13	10	18	10
4	Ranganadi	0	0	0	0
5	Kopili	0	0	2	0
6	Khandong	7	0	7	0
7	Doyang	0	4	0	4
8	Loktak	1	5	1	5
9	BgTPP	2	0	7	0
10	Arunachal Pradesh	0	12	0	17
11	Assam	0	19	0	20
12	Manipur	0	20	0	22
13	Meghalaya	0	27	0	27
14	Mizoram	0	14	0	14
15	Nagaland	0	22	0	22
16	Tripura	0	22	0	22

SI. No.	Category of GD/GI	Grid Disturbance in nos.	
		March'17 to June '17	Jan'17 to June'17
1	GI-I	21	26
2	GI-II	13	34
3	GD 1	131	152

4	GD 2	4	4
5	GD 3	1	1
6	GD 4	1	1
7	GD 5	0	0
8	Total GI	34	60
9	Total GD	137	158

This is for information to the members.

The root cause analysis and remedial measures to prevent the Grid Events were discussed during meetings of Sub-group of PCC held on 18th April'17 & 17th July, 2017. Tripping of few elements could not be concluded due to non-submission of DR output (For example: tripping related to 220/132 kV BTPS Substation, 220/132 kV Samaguri Substation , etc.)

Tripping for the period March, 2017 to June 2017 are categorized as listed below. Utilities may please take suggested remedial measures accordingly within stipulated time.

- i. Tripping due to Vegetation
- ii. Tripping due to Lightning
- iii. Tripping due to improper relay coordination
- iv. Tripping due to mis-operation.
- v. Tripping due to Equipment Failure.

The report of the GD, GI and Element Tripping along with root cause, remedial measures and action to be taken is attached at **Annexure-II**.

14.1 The following key points were noted during the Subgroup meeting held on 18th Apr17, 5th May07 and 17th Jul17 and may be discussed among the Members:

Key points discussed in subgroup meeting held on 18th April 2017

a) While analysing the tripping of 400 kV Palatana I & II lines on 20.03.17 at 13:54 Hrs, it has been observed that a transient B-Ph to earth fault occurred in 400 kV Palatana – Silchar II line during stringing of OPGW. DPR opened the B-Ph at both ends and auto reclosed at Silchar after dead time, but auto-reclose

at Palatana did not operate. Current in B-Phase at Silchar remained low (only charging current and reactor current at both ends).

This resulted in flowing of load current only in R & Y phase of 400 kV Palatana – Silchar II from Palatana, while the current in B-Phase of 400 kV Palatana – Silchar I much higher causing a neutral current in 400 kV Palatana – Silchar I at Palatana. B phase of 400 kV Palatana – Silchar I tripped on earth fault at Palatana after 1.6 Sec sending Direct Trip signal to Silchar. Later on, the 400 kV Palatana – Silchar II tripped at both ends on PD.

- b) Palatana, OTPC informed that as per scheme enable at Palatana for Autoreclose function is single phase fault with one high speed reclosing shot. OTPC informed that Auto-reclose function blocking due to Line 2 main breaker auxiliary contact BG1-C malfunctioning resulted in activation of Pole discrepancy Protection. Accordingly during Line 2 shutdown OTPC has carried out dummy functional test of Line 2 Auto reclose, but found that A/R response was fine. OTPC also informed that they have replaced the BG1-C contacts.
- c) TSECL informed that the status of improvement of protection systems at Agartala, Rokhia & Udaipur substations of Tripura will be informed to the forum within 1 week.
- d) Palatana, OTPC informed that the PD settings for the 400 kV Palatana- SilcharI & II lines are as follows:

Name of element	Breaker	Trip circuit 1	Trip circuit 2
	Main	1.5 sec	1.5 sec
400 kV Palatana- Silchar I	Breaker	1.5 360	1.0 360
	Tie Breaker	2.5 sec	2.5 sec
	Main	1 sec	1.5 sec
400 kV Palatana- Silchar II	Breaker	1 360	1.0 360
	Tie Breaker	2.5 sec	2.5 sec

OTPC suggested that PD Timing of Line-2 Tripping circuit-1 to be increased from 1second to 1.5 seconds. Similarly PD settings of both tripping circuits of both Tie breaker to be decreased from 2.5 seconds to 1.5 seconds.

Relay settings for 400 kV Palatana- Silchar I & II lines to be reviewed jointly by Palatana and NERTS.

- e) The forum requested OTPC to implement the SPS-2 at the earliest. OTPC informed the forum that the same can be implemented once NERTS, POWERGRID provide a DT signal from Silchar end. The forum requested NERTS, POWERGRID to look into the matter at the earliest and provide necessary support to implement SPS-2 as per designed.
- f) Palatana has informed that they have checked relay configuration in line with DR standardization documents provided by NERLDC vide e-mail dated 17.07.2015 and found that none of the digital channels description is available as digital inputs for `Disturbance Recorder' menu in their line protection relays of Micom P442/437 model. OTPC is only able to change the Analog channel. Description of Analog channels is different as they have phase nomenclature A, B, C instead of R, Y, B in this channel. Forum requested OTPC to look into the matter. The forum requested OTPC that DR should have a minimum of 5 sec of total recording time, minimum prefault recording time of 100 msec and minimum post-fault recording time of 1000 msec and this information is to be recorded in single file.
- g) AGTPP, NEEPCO informed that cable for DR downloading will be supplied by ALSTOM by May'17.
- h) NERLDC requested all the utilities to inform root cause of the events along with suggested remedial measures while furnishing FIR of any events in the grid.
- i) The forum suggested all the utilities to do patrolling of lines in case of repeated tripping. Patrolling report to be submitted to NERPC with a copy to NERLDC.
- j) NERLDC informed the forum that outage report of +/- 800 kV HVDC, Biswanath Chariali- Agra is not being received by NERLDC since November'17. The matter has also been discussed with NRLDC and NLDC. NERLDC requested NERTS to look into the matter. NERTS assured that the same will be supplied by CRTAMC of NER henceforth.
- k) During analysis of events, it has been observed that there is no Numerical Relay at Doyang HEP, NEEPCO. NEEPCO informed the forum that due to remote location no vendor are ready to deliver the same. The forum suggested NEEPCO to take help from NERTS and install numerical relays at Doyang HEP at the earliest.

 Palatana, OTPC raised the issue System Study Meeting is not being held for so many months and requested to arrange System Study Meeting at the earliest for discussion of implementation of SPS related to reliable power supply to Tripura & Bangladesh & operation of Palatana machines.

14.2 Key Points discussed in subgroup meeting on 5th May, 2017

1. Grid Disturbance of Tripura System on 25.04.17 at 13:05 hrs.

At 13:05 hrs on 25.04.17, 400 kV Silchar-Palatana II line got tripped (Silchar :Distance Protection, Y-E,Z1, 187.5 km; and Palatana-Distance Protection, Y-E, Z1, 57.55 km). 400 kV Silchar-Palatana line I was under Shutdown as per 131st OCC Meeting.

Units of Palatana, AGTPP, Rokhia and Monarchak tripped subsequently along with following lines:

- 1.132 kV AGTPP-Agartala I & II
- 2. 132 kV AGTPP-Kumarghat
- 3. 132 kV Palatana-Udaipur
- 4. 132 kV Palatana-SM Nagar:
- 5. 132 kV Agartala-Dhalabil line
- 6. 132 kV Ambassa-Teliamura(Gamaitilla)

Due to operation of SPS-I at Palatana,132 kV Silchar-Srikona D/C.132 kV Silchar-Panchgram lines and 132 kV Badarpur-Panchgram line got tripped. Due to blackout at 132 kV Surajmaninagar Substation, 132 kV Comilla-SM Nagar Line I & II was hand tripped.

Due to the tripping of above lines, total load loss was 283 MW(Tripura- 103 MW, South Assam-61MWand Bangladesh 119 MW) and Generation Loss was 680 MW(Palatana-556 MW, AGTPP- 62 MW, Monarchak-60 MW & Rokhia -26MW) respectively.

P.K Bari, Gournagar(Kailashar), Kamalpur and Ambassa Substations survived during the grid disturbance.

Deliberation in the meeting

Southern Part of NER Grid was connected to rest of NER Grid through 400 kV Silchar – Palatana Line I,_132 kV AGTPP - Kumarghat line & 132 kV Agartala -

Dhalabil lines (400 kV Silchar – Palatana Line I was under planned shutdown for GIS Construction work of 09 nos. of pile foundation in the Switchyard at Srikona S/S from 08:33 Hrs dated 25.04.17 and 132 kV Jirania - Baramura line was under shutdown on 25.04.17 due to conductor snap (low capacity) & 132 kV Agartala - Dhalabil line (low capacity) overloaded & tripped subsequently on over current. As a result, Southern Part of NER Grid separated from rest of NER Grid. Palatana, AGTCCPP, Rokhia and Monarchak Generating units also tripped. Due to tripping of these elements, Southern part of NER grid subsequently collapsed due to load- generation mismatch.

NERLDC informed the forum that from the Disturbance recorder outputs from Main- 1 and Main – 2 of DPR of Silchar of 400 kV Silchar – Palatana II line indicate that this line tripped on DPR, Zone-1, Y-E from Silchar end, **auto-reclose was attempted but the line tripped due to persistent fault in Y-B-E phase**. Main – 1 of DPR of Palatana end indicates that the line tripped on DPR, Zone-1, Y-E , auto-reclose was attempted but the line tripped but the line tripped due to persistent fault in Y-B-E fault in Y-B-E , auto-reclose was attempted but the line tripped but the line tripped due to persistent fault in Y-B-E fault in Y-B-E , auto-reclose was attempted but the line tripped but the line tripped due to persistent fault in Y-B-E fault in Y-B-E phase. DR of Main II from Palatana end has not been received.

DGM, NERTS informed the forum that the tripping of 400 kV Silchar – Palatana Line II is attributed to falling of a tree at location 172 and 173 (i.e. Teliamura forest area). Forum requested POWERGRID to share the photographs of the affected part as found in patrolling with NERLDC & NERPC. The ROW clearance is less in the forest area. Patrolling has been done by NERTS and some more probable areas that may encroach the ROW have been identified. NERTS has decided to discuss this matter with Forest Department.

Forum requested all constituents take prior permission from NERLDC for doing live line works as this involves auto-recloser function of DPR in nonauto mode.

Tripping of 400 kV Silchar - Palatana 2 line with 400 kV Silchar - Palatana 1 line under shutdown satisfied the conditions required for operation of SPS-2, which is designed to reduce the generation of Palatana to 20 MW i.e house load of Palatana. But SPS-2 associated with Palatana Generation failed to operate resulted in collapse of islanded systems i.e Tripura system with Bangladesh (South Comilla) along with Palatana & AGCCTPP systems. NERLDC presented

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PMU plots of the frequency rise in islanded system. It was decided by the forum to conduct mock testing of SPS periodically for checking healthiness of the SPSs owing to non-operation of SPS-II.

It was also decided that relay settings of Palatana, AGTCCPP, Silchar, and critical substations in Tripura system will be reviewed.

Also, forum requested TSECL to submit the details regarding UFR operation related to this event to NERLDC & NERPC at the earliest.

POWERGRID, NETC, TSECL & OTPC may please intimate the status

2. Grid Disturbance of Tripura System on 26.04.17 at 12:51 hrs.

At 12:51 hrs on 26.04.17, 400 kV Silchar-Palatana II line got tripped(Silchar: DT Received, and Palatana-details awaited). 400 kV Silchar-Palatana line I was under Shutdown as per 131st OCC Meeting. Units of AGTPP, Rokhia and Monarchak tripped subsequently along with following lines -

- 1. 132 kV AGTPP-Agartala I & II
- 2. 132kV AGTPP-Kumarghat
- 3. 132 kV Palatana-Udaipur
- 4. 132 kV Palatana-SM Nagar
- 5. 132 kV Dhalabil-Agartala

132 kV Baramura-Jirania was under S/D.

Due to blackout at Surajmaninagar, 132 kV Comilla-SM Nagar I & II was hand tripped.

Due to the tripping of above lines, total load loss was 151 MW(Tripura- 45 MW and Bangladesh-106 MW)

Generation Loss was 172 MW(AGTPP- 48 MW, Monarchak-69 MW & Rokhia - 55MW) respectively.

P.K Bari, Gournagar(Kailashar), Kamalpur, Dhalabil, Ambass, Teliamura and Baramura Substations survived during the grid disturbance.

Issues to be discussed

i) Root cause & remedial measure for repeated tripping of 400 kV Palatana-Silchar Line-2 on 20.03.2017, 19.04.2017, 25.04.2017 & 26.04.2017

- ii) Time line required for facilitate DT command extended upto Palatana for modification of SPS-2.
- iii) Coordination of Relay Settings of 400 kV Palatana-Silchar Line-1 & 2.
- iv) Pole Discrepancy time settings required at both Silchar and Palatana including Tie Breaker.

Deliberation in the meeting:

Southern Part of NER Grid was connected to rest of NER Grid through 400 kV Silchar – Palatana Line I, 132 kV AGTPP - Kumarghat line & 132 kV Agartala -Dhalabil lines. 400 kV Silchar – Palatana Line I was under planned shutdown for GIS Construction work of 09 nos. of pile foundation in the Swichyard at Srikona S/S from 08:33 Hrs dated 25.04.17 and 132 kV Jirania - Baramura line was under shutdown on 26.04.17 due to conductor snap.

The incident started with tripping of 400 kV Silchar – Palatana Line II at 12:51 Hrs dated 26.04.17.

132 kV AGTCCPP - Kumarghat line (low capacity) & 132 kV Agartala - Dhalabil line (low capacity) overloaded & tripped subsequently on over current.

As a result, Southern Part of NER Grid separated from rest of NER Grid.

Palatana, AGTCCPP, Rokhia and Monarchak Generating units also tripped.

Due to tripping of these elements, Southern Part of NER Grid subsequently collapsed due to load-generation mismatch.

DGM, NERLDC informed the forum that from DR, it appears to be a high impedance fault. He informed that the exact nature of fault could not be determined from the DR. He requested **NERTS to carry out intensive patrolling for tracing of evidence of faults**.

Engineer, NERTS informed the forum that Silchar end of the line received DT from Palatana end. To identify the nature of tripping at Palatana end, it was requested to **Palatana to submit the list of settings for which DT is sent to Silchar end.** As per PMU plots it was found that fault was cleared by tripping of 132 kV lines from Agartala on O/C.

Chief Manager, NLDC requested both NERTS and OTPC representative to provide relay setting in excel sheet. It was also decided that **relay settings of Palatana**, **Azara**, **AGTCCPP**, **Silchar**, **Byrnihat and critical substations in Tripura**

system will be reviewed.

Forum requested all constituents take prior permission from NERLDC for doing live line works as this involves auto-recloser function of DPR in nonauto mode.

The forum also stressed the need for periodical testing of SPS so that it operates as per design during emergency condition. Manager OTPC informed that they have the pole discrepancy time as Main= 1.5s and Tie =1.5s and also informed that Auto-Reclose feature is not activated in Tie Bay of Generator.

NERTS suggested OTPC to check whether priority scheme is activated for Auto-recloser at Palatana end. If priority scheme is activated, then Pole Discrepancy time shall be as Main=1.5s & Tie=2.5s else Main=1.5s & Tie=1.5s

Also, forum requested TSECL to submit the details regarding UFR operation related to this event to NERLDC & NERPC at the earliest.

POWERGRID, NETC, TSECL & OTPC may please intimate the stat

3. Frequent tripping of 132 kV Agartala AGTPP line:

132 kV Agartala AGTCCPP line has tripped frequently during April'17 due to earth fault at AGTPP end. Earth fault settings of both end is to be checked.

Deliberation in the meeting

NERLDC informed the forum that 132 kV Agartala - AGTCCPP line is a very short line which is frequently tripping due to Earth fault. It is a double circuit line and both lines are tripping simultaneously. Sr. Engineer, NLDC informed the forum that due to short nature of the line, it is tripping due to zone overreaching. To resolve the issue, it is either to go for differential protection or implement permissive scheme suitable for short lines with proper zone coordination. As discussed in 45th PCC Meeting, it was decided to use differential protection in 132 kV line under 05 km of line length. 132 kV Agartala- AGTPP is 8.4 km; hence it was not recommended to use differential protection in the circuit. But because of frequent tripping of the circuit, the forum decided that the matter might be discussed in the next PCC Meeting and the feasibility of installing differential protection in the circuit may be looked into.

Engineer, NERTS informed the forum that no tripping took place at Agartala

end and tripping was always at AGTCCPP end due to earth fault. He suggested that the fault was in the downstream in Tripura system. The forum requested TSECL to check thoroughly for any tripping in downstream distribution network at the time of tripping of 132 kV AGTCCP-Agartala D/C lines.

It was also decided by the forum that relay settings of Agartala, AGTCCPP and downstream substations of Agartala will be reviewed.

TSECL, NEEPCO & POWERGRID may please intimate the status

4. Under-Voltage issue at Tripura system to be discussed.

Deliberation in the meeting

DGM, NERLDC informed the forum that the Tripura system is facing under voltage during peak hours due to over drawal by Tripura. To reduce the under-voltage issue, Sr. Engineer, NLDC suggested the generating stations to change the Tap setting of the transformer and also to switch off line reactor at such time.

TSECL, NEEPCO & OTPC may please intimate the status

5. Grid Disturbance on 28th April'17.

Southern Part of NER comprising of Tripura, Mizoram, Manipur, South Assam, Palatana, AGTPP, Loktak & Bangladesh (South Comilla load) systems was connected with rest of NER Grid through 400 kV Silchar - Byrnihat line, 132 kV Haflong - Jiribam line, 132 kV Badarpur - Khliehriat line & 132 kV Dimapur -Imphal line (400 kV Silchar - Azara line tripped at 18:42 Hrs on 28.04.17. NERLDC requested RTAMC to restore this line vide Code 817).

At 19:10 Hrs on 28th April'17, 400 kV Silchar - Byrnihat line tripped. This led to overloading of 132 kV Haflong - Jiribam line, 132 kV Badarpur - Khleihriat line & 132 kV Dimapur - Imphal line and subsequently tripped on over current. Due to tripping of these lines, Southern Part of NER was separated from rest of NER grid and subsequently collapsed due to load generation mismatch.

Antecedent NER Demand Met: 1922 MW

Antecedent NER Generation: 1722 MW

Total Load Loss: 843 MW (Tripura-211, Bangladesh-154, Manipur-136, Mizoram-45, South Assam-81, Meghalaya-216)

Generation Loss: 990 MW (Palatana-515, AGTPP-78, Loktak-105, Monarchak-72, Rokhia-55, Baramura-20, LHEP-126, Umiam Stg II-7, Umiam Stg I-12)

CEA Category: GD-IV

Restoration was started with closing 400 kV Silchar – Azara Line at 19:17 Hrs. Power was extended to Manipur power system through 132 kV Imphal (PG) – Imphal at 19:34 Hrs. Power was extended to Mizoram power system through 132 kV Kumarghat (PG) – Aizwal at 19:49 Hrs. Power extended to South Assam power system through 132 kV Silchar - Srikona 1 line at 19:42 Hrs. Power extended to Tripura power system at 19:46 Hrs through 132 kV AGTPP -Agartala line. Power extended to Bangladesh (South Comilla) area at 20:03 Hrs through 132 kV Surajmaninagar - South Comilla 1 line.

Observations/Items to be discussed:

Reason for Misa substation blackout Whether 220 kV lines at Misa were uniformly segregated Reason for tripping of +/- 800 kV Biswanath Charali - Agra HVDC Details regarding operation of related SPS Operation of UFR Root Cause

Deliberation in the meeting

Southern Part of NER Grid comprising of power systems of Tripura, South Assam, Manipur, Mizoram, Bangladesh (South Comilla) & Myanmar (Tamu) was connected with rest of NER Grid through 400 kV Silchar - Azara line, 400 kV Bongaigaon - Byrnihat line, 132 kV Badarpur – Khliehriat line, 132 kV Haflong – Jiribam line & 132 kV Dimapur – Imphal line (132 kV Karong-Kohima line & 132 kV Lumshnong-Panchgram line kept open for system requirement).

Part of Meghalaya power system (downstream of Byrnihat) was connected with rest of NER Grid through 400 kV Bongaigaon – Byrnihat line, 400 kV Silchar – Byrnihat line 220 kV Misa – Byrnihat I & II lines and 132 kV Khliehriat – NEIGRIHMS line, 132 kV Mustem - NEHU line (132 kV Nangalbibra-Nongstoin line and 132 kV Lumshnong-Panchgram line kept open for system requirement)

400 kV Silchar - Azara line (112 MW) tripped at 18:42 Hrs on 28.04.17. NERLDC requested RTAMC to restore this line vide Code 817 at 19:03 Hrs of 28.04.17 but the line was not restored due to delay in resetting the relay at Azara end as reported by SLDC, Assam to RTAMC, Shillong.

400 kV Bongaigaon - Byrnihat line (-100 MW) tripped at 18:58 Hrs on 28.04.17. At 19:11 Hrs, 400 kV Silchar – Byrnihat (High Capacity) tripped and subsequently, 132 kV Badarpur – Khlierihat (low capacity), 132 kV Dimapur – Imphal (low capacity), & 132 kV Jiribam- Halflong (low capacity) tripped on O/C due to cascading effect.

As a result, Southern Part of NER Grid separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.

220 kV Misa - Byrnihat I (- 28 MW) & II (- 28 MW) tripped at 19:11 Hrs on 28.04.17. As informed by SLDC, MePTCL, at the same time, 132 kV Khliehriat – NEIGRIHMS line & 132 kV Mustem - NEHU line tripped. Due to tripping of these elements, Part of Meghalaya power system (downstream of Byrnihat) was separated from NER Grid and subsequently collapsed due to load generation mismatch.

NERLDC informed the forum that DR of Azara is showing SOTF (Switch on to Fault)/TOR (Trip on Reclose) and Silchar received DT from Azara.Zone-3 initiated at both ends and this needs to be analyzed by both POWERGRID & AEGCL. Similarly for tripping of 400 kV Silchar–Bynihat line, Bynihat showed Z1 fault and DT received at Silchar end after 289 milliseconds. The Forum suggested that settings of relays at Byrnihat needs to be checked and receipt of DT at Silchar end needs to be analyzed by POWERGRID & MePTCL.

Also the relay setting of Byrnihat needs to be thoroughly checked for the reason for DEF operation as it should not have operated. It was also decided that relay settings of Palatana, Azara, Byrnihat, Silchar and critical substations in Tripura power system will be reviewed.

It was informed by Manager, NERTS that REL670 relay at Misa did not reset the LBB timer after fault clearing in 400 kV Misa-Byrnihat Line I and resulted in opening of all the feeders connected to the Bus II due to LBB operation. **Reason for LBB operation at Misa substation was not clear and forum requested POWERGRID to analyze the event and detailed report is to be submitted to NERPC & NERLDC.** Also, the forum suggested that relay REL670 has to be checked thoroughly to avoid such mal-operation.

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Chief Manager, NLDC requested NERTS and OTPC to provide snap shot of SCADA to analyze whether DT was received for SPS-3 operation. He also suggested for dummy checking of SPS. It was also decided to conduct mock testing of SPS periodically for healthiness of the SPSs.

Also, forum requested all the constituents to submit the details regarding UFR operation related to this event to NERLDC & NERPC at the earliest.

It is observed that separate electromechanical relays are still been used for over current/Earth Fault Protection even though Numerical relays are installed for the protection of that line. Due to this, disturbance recorder outputs have not been generated for tripping of these lines in over current. Also, as per discussions in 43rd PCCM, DR channels are to be standardized in all ISTS lines and intra-state lines with numerical relays. It is been observed that, DR channels are not properly configured yet for some of the lines.

14.3 Key points discussed in subgroup meeting held on 17th July 2017

- a) SF6 Low alarm (2nd stage) of 400 kV Silchar Byrnihat line at Byrnihat end sends DT signal during single pole tripping mainly in R and B phases. As informed by POWERGRID, the gas pressure of all the breakers are within limits but the situation arises only during the case of tripping. Subgroup requested MePTCL to resolve the matter at the earliest as two major disturbances on 28th April17 and 8th June17 occurred due to tripping of 400 kV Silchar -Byrnihat S/C and 400 kV Silchar -Azara S/C on account of lightning.
- b) 400 kV Silchar Palatana line II tripped on 16th May 2017 at 08:27 Hrs due to physical contact of foreign object with the conductor during OPGW work. Fault was in the line reactor differential protection zone and differential protection of line reactor operated at Silchar and cleared the fault instantaneously. However, Palatana end Distance relay over-reached and had seen the fault in Zone-1 tripping the B-phase line instantaneously at Palatana end due improper ground compensation factor at Palatana end. As informed by Palatana, the settings has been changed and the problem is resolved. Subgroup requested Palatana to inform the revised settings at the earliest.
- c) DGM, NERLDC requested the constituents that prior to changing of protection settings, approval from NERPC is to be taken.

- d) As informed by AEGCL representative, BCU at Azara Substation restarts after every tripping. Due to this, Auto – reclose fails and the line trips. The matter is to be taken up with ABB and resolved at the earliest.
- e) DGM, NERLDC requested to the Subgroup that root cause analysis of the events should be done based on the weekly events report sent by NERLDC on weekly basis for identifying the root cause and take the remedial measures immediately and the report is to be sent to NERPC and NERLDC on weekly basis.
- f) Subgroup members requested NERLDC to arrange Protection Subgroup Meeting on monthly basis.
- g) DGM, NERLDC suggested MePTCL to identify the lightning prone areas of all the lines of MePTCL and install polymer insulators and line arrestors to those lightning prone areas.
- h) DGM, NERLDC suggested NETC to identify the lightning prone areas of all the lines of NETC and install polymer insulators and line arrestors to those lightning prone areas.
- i) DGM, NERLDC requested to all constituents to submit DR and EL output within 24 hours of tripping for root cause analysis and for taking remedial measures immediately and to submit the list of Event Logger installed.
- j) POWERGRID informed the Subgroup that there is simultaneous tripping of 132 kV Dimapur – Doyang I and II line and 132 kV Doyang – Mokokchung line at many occasions. Subgroup requested POWERGRID and Doyang to check the settings and analyse the root cause.
- k) POWERGRID informed the Subgroup that TLSA is installed in selected location of 132 kV Khandong – Khleihriat I feeder. POWERGRID informed that lightning related tripping has reduced due to installation of TLSA in this line. POWERGRID is planning to install TLSA in entire line.
- I) Subgroup requested that installation of DR, EL output Software by Substation Owner is to be done at the earliest. The procedure for downloading the file is also to be shown to the operator of the station.

DR/ EL output after each tripping has to be furnished by the owner of the station even if he is not the owner of the protection system.

- m) It has been recorded that 132 kV AGTCCPP Agartala I and II lines and 132 kV AGTCCPP – Kumarghat line has tripped frequently. It has been analysed that these lines tripped for fault beyond its jurisdiction. Subgroup requested AGTCCPP to submit the relay settings of all the elements connected to AGTCCPP and TSECL to submit the relay settings of all the elements of 132 kV Substations owned by TSECL to NERPC and NERLDC.
- n) AEGCL informed the Subgroup that 220 kV Balipara Sonabil line tripped on 01.04.2017 at 08:25 Hrs due to fault in 220 kV Samaguri – Sonabil line which was idle charged from Sonabil end. Subgroup requested POWERGRID to check the relay settings at Balipara end of this line.

Deliberation of the sub-Committee (Item No 14.1 to 14.3):

Forum agreed to implement the suggestions given by subgroup and forum requested all utilities to take remedial measures suggested by subgroup at the earliest. Forum requested AGTCCPP to disable earth fault function in DPR of 132 kV AGTCCPP - Agartala D/C. Implementation status of recommendations by subgroup will be monitored in next PCC meetings. Presentation given by NERLDC on Events, Grid Incidences, Grid Disturbances which occurred in NER Grid w.e.f 1st January - 30th June 2017 is attached as **Annexure III**.

14.4 Disturbance in AGBPP on 9th April 2017

On the 9th April 2017 at 03:20 PM there was a fault just near to the Substation at **Kathalguri in the 220 kV Kathalguri - Deomali feeder, but the circuit breaker at Kathalguri end did not trip** which eventually led to the tripping of circuit breaker at Mariani end in the 220 kV Kathalguri - Mariani line. Just 2 to 3 minutes earlier to the above fault, there was vegetation fault in the 220 kV Tinsukia - Kathalguri line which led to the tripping of both the circuit breakers at both ends.

Deliberation of the sub-Committee:

POWERGRID informed forum that Circuit Breaker problem in 220 kV AGBPP – Deomali line at AGBPP is already rectified. DoP Arunachal Pradesh may inform NERPC the status of healthiness of circuit breaker at AGBPP at the earliest.

The Sub-committee noted as above.

Action:

Any other item:

Date and Venue of next PCC

It is proposed to hold the 48th PCC meeting of NERPC on second week of September, 2017. The exact venue will be intimated in due course.

List of Participants in the 47th PCC Meetings held on 24/07/2017

SN	Name & Designation	Organization	Contact No.
1.	Sh. Abhishek Kalita, AM(Protection)	Assam	09864150106
2.	Sh. Chandan Sharma, DGM (MRTC)	Assam	09864150106
3.	Sh. Bikram Bordoloi, DM	Assam	09435558545
4.	Sh. A. G. Thum, AEE, MePTCL	Meghalaya	09774664034
5.	Sh. B. Nikhla, EE, MePTCL	Meghalaya	09436314163
6.	Sh. Tonghang, JE	Nagaland	08014058082
7.	Sh. Rokobeito Iralu, SDO(Trans)	Nagaland	09436832020
8.	Sh. Amaresh Mallick, DGM(SO-II)	NERLDC	09436302220
9.	Sh. Jerin Jacob, Engineer	NERLDC	09402120113
10.	Sh. Chitra Bahadur Thapa, Engineer	NERLDC	08135989964
11.	Sh. Krishna Kant Rai, Dy. Manager	NEEPCO	09436581230
12.	Sh. Joypal Roy, Sr. Mngr (E/M)	NEEPCO	09435577726
13.	Sh. Ashim Kr. Sarmah, DM (E/M)	NEEPCO	09435078860
14.	Sh.Lokalitn, Mngr. (E/M)	NEEPCO	08974387503
15.	Sh. P. Kanungo, DGM	PGCIL	09436302823
16.	Sh. Alokesh Hazarika, Sr. Executive	OTPC	07085060480
17.	Sh. Mohammmad Arif, Manager(E)	NHPC	09402610751
18.	Sh. B. Sahu, AGM(EM)	NTPC	09437043610
19.	Sh. P.K. Mishra, MS	NERPC	-
20.	Sh. L. B. Muanthang, SE	NERPC	09436731488
21.	Sh. P. N. Sarkar, EE	NERPC	09830027523
22.	Sh. Sadiq Imam, AD-I/AEE	NERPC	07004133772

C1			A	Au	dit to be conducted b	у		0	David	Determ
Sl. No	Name of the Station	Owner	Accomodation arranged by	NERPC/NERLDC	POWERGRID/	ISGS/ State	Host Constituent	Onward Journey Date	Proposed Audit Date	Return Journey Date
1	+/- 800 kV HVDC Biswanath Chariali	POWERGRID		NERPC/NERLDC	State Constituent AEGCL	Constituent NEEPCO	POWERGRID		8/1/2017	
2	132 kV/33 kV Gohpur	AEGCL		NERPC/NERLDC	POWERGRID	NEEPCO	AEGCL		8/2/2017	
3	132/33 kV Oonput	AEGCL	Biswanath	NERPC/NERLDC	POWERGRID	NEEPCO	AEGCL	7/31/2017	8/3/2017	8/6/2017
4	220/132/33 kV Sonabil	AEGCL	Chariali(PG)	NERPC/NERLDC	POWERGRID	NEEPCO	AEGCL	//31/2017	8/4/2017	0/0/2017
5	220/132/33 kV Sonabh 220/132/33 kV Samaguri	AEGCL		NERPC/NERLDC	POWERGRID	NEEPCO	AEGCL		8/5/2017	-
6	132/33 kV Imphal(PG)	POWERGRID		NERPC/NERLDC	MSPCL	NHPC	POWERGRID		8/7/2017	
7	132/33 kV Imphal	MSPCL		NERPC/NERLDC	POWERGRID	NHPC	MSPCL		8/8/2017	
8	132 kV Loktak	NHPC	Imphal(PG)	NERPC/NERLDC	POWERGRID	NEEPCO	NHPC	8/6/2017	8/9/2017	8/12/2017
9	132/33 kV Ningthoukhong	MSPCL	impliai(1 G)	NERPC/NERLDC	POWERGRID	NHPC	MSPCL	0/0/2017	8/10/2017	0/12/2017
10	132/33 kV Kakching	MSPCL		NERPC/NERLDC	POWERGRID	NHPC	MSPCL		8/11/2017	
11	132/33 kV Khliehriat	MePTCL		NERPC/NERLDC	POWERGRID	AEGCL	MePTCL		8/21/2017	
12	132/33 kV Panchgram	AEGCL		NERPC/NERLDC	POWERGRID	MePTCL	AEGCL		8/22/2017	
13	132 kV Leska HEP	MePGCL	Khliehriat(PG)	NERPC/NERLDC	POWERGRID	NEEPCO	MePGCL	8/20/2017	8/23/2017	8/25/2017
30	132 kV Khliehriat	POWERGRID		NERPC/NERLDC	MePTCL	AEGCL	POWERGRID		8/24/2017	
15	132/66/33 kV Dimapur	DoP, Nagaland		NERPC/NERLDC	POWERGRID	AEGCL	DoP, Nagaland		8/28/2017	
16	220/132 kV Dimapur(PG)	POWERGRID		NERPC/NERLDC	DoP, Nagaland	AEGCL	POWERGRID		8/29/2017	-
17	132/33 kV Kohima	DoP, Nagaland	Dimapur(PG)	NERPC/NERLDC	POWERGRID	AEGCL	DoP, Nagaland	8/27/2017	8/30/2017	9/1/2017
18	132/33 kV Karong	MSPCL		NERPC/NERLDC	POWERGRID	DoP, Nagaland	MSPCL		8/31/2017	
19	220/132 kV Mokokchung	POWERGRID		NERPC/NERLDC	DoP, Nagaland	NEEPCO	POWERGRID		9/4/2017	
20	220/132 kV Mariani	POWERGRID		NERPC/NERLDC	AEGCL	NEEPCO	POWERGRID		9/5/2017	
21	220/132/66/33 kV Mariani	AEGCL	Mariani(PG)	NERPC/NERLDC	POWERGRID	NEEPCO	AEGCL	9/3/2017	9/6/2017	9/9/2017
22	132 kV LTPS	APGCL		NERPC/NERLDC	POWERGRID	NEEPCO	APGCL		9/7/2017	
23	132 kV Doyang	NEEPCO		NERPC/NERLDC	POWERGRID	NHPC	NEEPCO		9/8/2017	
24	220 kV AGBPP	NEEPCO		NERPC/NERLDC	POWERGRID	NHPC	NEEPCO		9/11/2017	
25	132 kV NTPS	APGCL		NERPC/NERLDC	POWERGRID	NEEPCO	APGCL		9/12/2017	
26	132/33 kV Bokajan	AEGCL	AGBPP	NERPC/NERLDC	POWERGRID	NEEPCO	AEGCL	9/10/2017	9/13/2017	9/16/2017
27	220/132/66/33 kV Tinsukia	AEGCL		NERPC/NERLDC	POWERGRID	NEEPCO	AEGCL		9/14/2017	
28	132/33 kV Dibrugarh	AEGCL		NERPC/NERLDC	POWERGRID	NEEPCO	AEGCL		9/15/2017	
29	400/132 kV Silchar	POWERGRID		NERPC/NERLDC	AEGCL	NEEPCO	POWERGRID		9/18/2017	
31	132/33 kV Srikona	AEGCL		NERPC/NERLDC	POWERGRID	MePTCL	AEGCL	-	9/19/2017	
32	132/33 kV Pailapool	AEGCL	Silchar(PG)	NERPC/NERLDC	POWERGRID	MePTCL	AEGCL	9/17/2017	9/20/2017	9/23/2017
14	132/33 kV Umrangsho	AEGCL		NERPC/NERLDC	POWERGRID	MePTCL	AEGCL		9/21/2017	
33	132/33 kV Kolasib	P & ED, Mizoram		NERPC/NERLDC	POWERGRID	AEGCL	P & ED, Mizoram		9/22/2017	
34	132/33 kV Zuangtui	P & ED, Mizoram		NERPC/NERLDC	POWERGRID	NHPC	P & ED, Mizoram		10/4/2017	
35	132/33 kV Luangmual	P & ED, Mizoram	Aizawl(PG)	NERPC/NERLDC	POWERGRID	NHPC	P & ED, Mizoram	10/3/2017	10/5/2017	10/7/2017
36	132 kV Aizawl	POWERGRID		NERPC/NERLDC	P&ED, Mizoram	NHPC	POWERGRID		10/6/2017	
37	132/33 kV Khupi	DoP, Arunachal Pradesh		NERPC/NERLDC	POWERGRID	NEEPCO	DoP, Arunachal Pradesh		10/9/2017	-
38	132/33 kV Pasighat	DoP, Arunachal Pradesh	Camp	NERPC/NERLDC	POWERGRID	NEEPCO	DoP, Arunachal Pradesh	10/8/2017	10/10/2017	10/13/2017
39	132/33 kV Chimpu	DoP, Arunachal Pradesh		NERPC/NERLDC	POWERGRID	NEEPCO	DoP, Arunachal Pradesh		10/11/2017	
40	132/33 kV Daporizo	DoP, Arunachal Pradesh		NERPC/NERLDC	POWERGRID	NEEPCO	DoP, Arunachal Pradesh		10/12/2017	
41	132/33 kV Mawlai	MePTCL		NERPC/NERLDC	POWERGRID	AEGCL	MePTCL	4	10/16/2017	
42	132/33 kV NEHU	MePTCL	Shillong	NERPC/NERLDC	POWERGRID	AEGCL	MePTCL	10/15/2017	10/17/2017	9/20/2017
43	132 kV Umiam Stage-III	MePGCL	c	NERPC/NERLDC	POWERGRID	NEEPCO	MePGCL	4	10/18/2017	
44	132 kV Umiam Stage-IV	MePGCL		NERPC/NERLDC	POWERGRID	NEEPCO	MePGCL		10/19/2017	

45	132/66/33 kV Agartala	TSECL		NERPC/NERLDC	POWERGRID	OTPC	TSECL		10/23/2017	
46	132 kV AGTCCPP	NEEPCO	A 1	NERPC/NERLDC	POWERGRID	OTPC	NEEPCO	10/00/0017	10/24/2017	10/27/2017
47	132/33 kV Surajmaninagar	TSECL	Agartala	NERPC/NERLDC	POWERGRID	OTPC	TSECL	10/22/2017	10/25/2017	10/27/2017
48	132 Rokhia	TSECL		NERPC/NERLDC	POWERGRID	OTPC	TSECL		10/26/2017	
49	400 kV Palatana GBPP	OTPC		NERPC/NERLDC	POWERGRID	NEEPCO	OTPC		10/30/2017	
50	66 kV Gumti	TSECL	Palatana	NERPC/NERLDC	POWERGRID	OTPC	TSECL	10/29/2017	10/31/2017	11/3/2017
51	132/66/33 kV Udaipur	TSECL	Falatalia	NERPC/NERLDC	POWERGRID	OTPC	TSECL	10/29/2017	11/1/2017	11/3/2017
52	132 kV TGBPP, Monarchak	NEEPCO		NERPC/NERLDC	POWERGRID	OTPC	NEEPCO		11/2/2017	
53	132/33 kV PK Bari	TSECL		NERPC/NERLDC	POWERGRID	OTPC	TSECL		11/6/2017	
54	132/33 kV Dharmanagar	TSECL	Kumarghat(PG)	NERPC/NERLDC	POWERGRID	OTPC	TSECL	11/5/2017	11/7/2017	11/10/2017
55	132/33 kV Budhjangnagar	TSECL	Kuillargilai(FO)	NERPC/NERLDC	POWERGRID	OTPC	TSECL	11/3/2017	11/8/2017	11/10/2017
56	132 kV Baramura	TSECL		NERPC/NERLDC	POWERGRID	OTPC	TSECL		11/9/2017	
57	400 kV BgTPP	NTPC		NERPC/NERLDC	POWERGRID	NEEPCO	NTPC		11/13/2017	
58	220/132/33 kV BTPS	AEGCL	BgTPP	NERPC/NERLDC	POWERGRID	BgTPP	AEGCL	11/12/2017	11/14/2017	11/17/2017
59	132/33 kV Dhaligaon	AEGCL	Dgirr	NERPC/NERLDC	POWERGRID	BgTPP	AEGCL	11/12/2017	11/15/2017	11/1//2017
60	132/33 kV Rangia	AEGCL		NERPC/NERLDC	POWERGRID	MePTCL	AEGCL		11/16/2017	
61	220/132/33 kV Agia	AEGCL		NERPC/NERLDC	POWERGRID	BgTPP	AEGCL		11/20/2017	
62	220/132/33 kV Boko	AEGCL	Agia	NERPC/NERLDC	POWERGRID	BgTPP	AEGCL	11/19/2017	11/21/2017	11/24/2017
63	132/33 kV Nangalbibra	MePTCL	7 igiu	NERPC/NERLDC	POWERGRID	AEGCL	MePTCL	11/19/2017	11/22/2017	11/24/2017
64	400/ 220 kV Azara	AEGCL		NERPC/NERLDC	POWERGRID	MePTCL	AEGCL		11/23/2017	
65	220/33 kV Jawaharnagar	AEGCL		NERPC/NERLDC	POWERGRID	MePTCL	AEGCL		11/26/2017	
66	132/33 kV Kahilipara	AEGCL	Guwahati	NERPC/NERLDC	POWERGRID	MePTCL	AEGCL	11/25/2017	11/27/2017	11/30/2017
67	132/33 kV EPIP-II	MePTCL	Guwanati	NERPC/NERLDC	POWERGRID	AEGCL	MePTCL	11/23/2017	11/28/2017	11/30/2017
68	132 kV Karbi Langpi	APGCL		NERPC/NERLDC	POWERGRID	MePTCL	APGCL		11/29/2017	

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/ 17/04/001	Sonabil 1 Line AEGCL AEGCL AEGCL 08:25:00 08:35:00 No tripping DP, Z1 Applicable Applicable										No	No	No	No	No SPS
Root Cause	Vegetation problem in 220 kV Samaguri - Sonabil 1 Line. This line was idle charged from Sonabil end. This event led to tripping of 220 kV Balipara - Sonabil line due to improper relay co-ordination.														
Remedial- Measures				AEGCL & POV	VERGRID may cord	linate their setti	ngs at Balipara	,Sonabil,Sama	aguri,Sarusaja	ai					
NERLDC/TL/ 17/04/002	400 kV Biswanath Chariali - Ranganadi 2 Line	POWERGRID	POWERGRID	NEEPCO	01-04-2017 10:31:00	01-04-2017 10:45:00	DP, ZII, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause					High r	esistive fault due	e to vegetation								
Remedial- Measures		A	ıto reclose not op	erated at both er	nd to be checked by]	POWERGRID &	& NEEPCO. Ve	egetation clear	cance to be do	ne by POWER	GRID.				
NERLDC/TL/ 17/04/003	220 kV Killing (Byrnihat) - Misa 2 Line	MePTCL	MePTCL	POWERGRID	01-04-2017 14:19:00	01-04-2017 14:50:00	DP, ZI, B-E	DP, ZI, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation o	f Auto Reclose	Prelir y rep subm withi Hor	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause	Lightning Fault as informed by MePTCL. DR from Both ends are to be submitted.														
Remedial- Measures		Lightning Fault as informed by MePTCL. DR from Both ends are to be submitted. Installation of Transmission Line Surge Arresters and replacement of porcelein insulators with polymer insulators are to be expedicted by MePTCL.													
NERLDC/TL/ 17/04/004	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	01-04-2017 16:24:00	01-04-2017 17:08:00	Not Furnished	DP, ZI, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
Root Cause	Due to the lightning	fault in 132 kV I	Khliehriat-Leshk		ed by MePTCL. Zo halaya system due t		. ,		,	t as 75 Kms (Li	ine legi	nth~7	Kms) fo	r faste	r clearance of
Remedial- Measures			As	informed by PO	WERGRID, Zone -1	reach of Khlieh	riat(PG) reduc	ced (set at 80%	b) on 13th Ap	rl'17.					

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/ 17/04/005	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	01-04-2017 17:50:00	01-04-2017 18:48:00	Not Furnished	DP, ZI, R-Y	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Due to the lightning	g fault in 132 kV I	Khliehriat-Leshk	a 1 line as inform	•	one-1 reach at K ault in Meghalay	. ,	or Khliehriat(MePTCL) set	as 75 Kms (Li	ne legn	nth~7 ∃	Kms) fo	r fastei	r clearance of
Remedial- Measures			As	informed by PO	WERGRID, Zone -1	reach of Khliel	nriat(PG) reduc	ced (set at 80%	b) on 13th Ap	rl'17.					
NERLDC/GD/ 17/04/001	132 kV Dimapur - Doyang 1 Line	POWERGRID	POWERGRID	NEEPCO	01-04-2017 17:28:00	01-04-2017 17:59:00	DP, ZI, R-B	DP	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/001	132 kV Dimapur - Doyang 2 Line	POWERGRID	POWERGRID	NEEPCO	01-04-2017 17:28:00	01-04-2017 18:19:00	DP, ZI, R-B	DP	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/001	132 kV Doyang- Mokokchung line	DoP Nagaland	NEEPCO	DoP Nagaland	01-04-2017 17:28:00	01-04-2017 18:27:00	Power Swing operated	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Ho	itted in 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/001	DHEP Unit 1	NEEPCO	NEEPCO	-	01-04-2017 17:28:00	01-04-2017 18:30:00	Over Voltage & Over Frequency	-	Not Applicable	-	No	-	No	-	No SPS
NERLDC/GD/ 17/04/001	DHEP Unit 3	NEEPCO	NEEPCO	-	01-04-2017 17:28:00	01-04-2017 18:05:00	Over Voltage & Over Frequency	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause	Distance Protection	n operated at Doy	and end for Dim	apur feeders. Fo	rum requested Doya	ng,NEEPCO to from any of th		relay indicati	on. Root caus	e could not be	concluc	led dı	ue to abs	sence o	f DR outputs
Remedial- Measures	Relay settings at	Doyang to be che	cked as both circ	cuits of 132 kV Di	mapur - Doyang D/0 POWERGRID 1	. 0			ation of nume	rical relays at l	Doyang	; to be	e expedio	cted by	NEEPCO.

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	² Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/002	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	01-04-2017 21:19:00	01-04-2017 21:40:00	No tripping	DP, ZI, R-Y- B	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/002	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	01-04-2017 21:19:00	01-04-2017 21:40:00	No tripping	DP, ZI, R-Y	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Due to inclement we		0 11 0		at(MePTCL) - Lesh arance of fault in M		,	,				liehri	at(MeP]	FCL) s	et as 75 Kms (
Remedial- Measures			As	s informed by PO	WERGRID, Zone -1	reach of Khlieh	riat(PG) reduc	ced (set at 80%	b) on 13th Ap	rl'17.					
NERLDC/TL/ 17/04/006	132 kV Khandong - Khliehriat 1 Line	POWERGRID	NEEPCO	POWERGRID	01-04-2017 21:28:00	01-04-2017 21:36:00	Earth Fault	DP, ZI, B-E	Not Applicable	Successful operation	No	No	No	No	No SPS
Root Cause					Fa	ult in line due to	lightning.								

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation o	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures	DR from Khliehriat	(PG) to be submit	ted by POWER	GRID. Auto reclo	-	t Khandong end shortly as infor		•	TLSA already	y installed by P	OWER	GRII	O at sele	cted lo	cations. 100%
NERLDC/GD/ 17/04/003	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	02-04-2017 04:04:00	02-04-2017 04:15:00	Tripped	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/003	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	02-04-2017 04:04:00	02-04-2017 04:15:00	No tripping	DP, ZI, R-Y- B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Due to inclement we		0 11 0		nt(MePTCL) - Leshl arance of fault in Mo			/		· · ·		liehri	at(MeP	ГCL) s	et as 75 Kms (
Remedial- Measures			As	s informed by PO'	WERGRID, Zone -1	reach of Khlieh	riat(PG) reduc	ced (set at 80%	6) on 13th Ap	rl'17.					
NERLDC/TL/ 17/04/007	132 kV Haflong - Umranshu 1 Line	POWERGRID and AEGCL	AEGCL	POWERGRID	02-04-2017 05:38:00	02-04-2017 06:37:00	DP, ZI, B-E	E/F B-E	Not operated	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					L	ightning fault in	n the line.								
Remedial- Measures															
NERLDC/TL/ 17/04/008	132 kV PK Bari- Silchar 1	POWERGRID	TSECL	POWERGRID	02-04-2017 06:07:00	-	NOT RECEIVED	DP, Z2, B-E	Not Applicable	No	No	No	No	No SPS	
NERLDC/TL/ 17/04/008	132 kV PK Bari- Silchar 2	POWERGRID	TSECL	POWERGRID	02-04-2017 06:07:00	-	not received	DP, Z2, B-E	Not operated	Not Applicable	No	No	No	No	No SPS
Root Cause					Тоу	ver collapsed at	6 locations.								
Remedial- Measures				Circuit-2 is still	under outage.Forum	n requested POV	VERGRID to r	estore the line	s at the earlies	st.					
NERLDC/GD/ 17/04/004	132 kV Palatana - Udaipur 1 Line	TSECL	OTPC	TSECL	02-04-2017 06:45:00	02-04-2017 07:08:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/004	132 kV Agartala - Rokhia 1 Line	TSECL	TSECL	TSECL	02-04-2017 06:45:00	02-04-2017 07:01:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	² Auto Reclose	Prelir y rep subm withi Hor	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/004	132 kV Monarchak - Rokhia 1 Line	TSECL	NEEPCO	TSECL	02-04-2017 06:45:00	02-04-2017 07:09:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/004	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	02-04-2017 06:45:00	02-04-2017 06:54:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/004	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	02-04-2017 06:45:00	02-04-2017 06:55:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Fault in Tripura	System.TSECL	to inform the r	root cause.							
Remedial- Measures	Subroup requested 1	NEEPCO to revie			nsulatation with PO TSECL may furnish						om 79	Tilla	and dow	vnstrea	m elements at
NERLDC/TL/ 17/04/009	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	02-04-2017 10:14:00	02-04-2017 10:30:00	No tripping	DP, ZI, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
Root Cause	Due to inclement we		0 11 0		at(MePTCL) - Leshl arance of fault in Me		· · · · · · · · · · · · · · · · · · ·	· ·				liehri	at(MeP)	ГCL) s	et as 75 Kms (

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	port itted in 24	DR 8 subm withi	nitted	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures			As	informed by PO	WERGRID, Zone -1	l reach of Khlieh	riat(PG) reduc	eed (set at 80%	%) on 13th Ap	rl'17.					

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/ 17/04/010	400 kV Palatana - Silchar 2 Line	NETCL	OTPCL	POWERGRID	02-04-2017 10:55:00	02-04-2017 11:35:00	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Not operated	No	No	No	No	No SPS
Root Cause					Fault	lue to vegetation	1 infringement								
Remedial- Measures		Trees/	bamboo prone to) infringement ma	y be cleared by NE	ГС. Online worl	are to be con	nducted only a	fter getting pe	ermission from	NERL	DC.			
NERLDC/GD/ 17/04/005	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	02-04-2017 11:13:00	02-04-2017 11:56:00	No tripping	DP, ZI, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
NERLDC/GD/ 17/04/005	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	02-04-2017 11:13:00	02-04-2017 12:24:00	No tripping	DP, ZI, R-Y	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/005	132 kV Khliehriat- Mustem Line	MePTCL	MePTCL	MePTCL	02-04-2017 11:13:00	02-04-2017 17:59:00	Not Furnished	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	ort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/005	132 kV Mustem- NEHU Line	MePTCL	MePTCL	MePTCL	02-04-2017 11:13:00	02-04-2017 11:19:00	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/005	132 kV NEHU- NEIGRIHMS Line	MePTCL	MePTCL	MePTCL	02-04-2017 11:13:00	02-04-2017 11:18:00	Not Furnished	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	ort tted 1 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/005	132 kV MHLEP- Khliehriat 1 Line	MePTCL	MePTCL	MePTCL	02-04-2017 11:13:00	02-04-2017 11:16:00	DP, Z1, RYB	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Fault in Leshka	Fault in Leshka lin due to lightning. Zone-1 reach at Khliehriat(PG) for Khliehriat(MePTCL) set as 75 Kms (Line legnth~7 Kms) for faster clearance of fault in Meghalaya system due to absence of Numerical relays at Khliehriat(MePTCL) .													
Remedial- Measures															
NERLDC/TL/ 17/04/011	400 kV Killing (Byrnihat) - Silchar 1 Line	NETC and MePTCL	MePTCL	POWERGRID	02-04-2017 11:16:00	02-04-2017 11:52:00	DP, ZI, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	Lightning fault. Aut	to recloser at Byr		0	nand is being sent to 3-Phase circuit brea				· •	•	OWER	GRII), there	is a sta	age-2 low SF6
Remedial- Measures		Circuit	breaker Low SF	-6 pressure issue	at Byrnihat is to be	rectified by Mel	PTCL at the ear	rliest. Installat	tion of TLSA	by NETC to be	expedi	cted.			
NERLDC/TL/ 17/04/012	132 kV Khandong - Khliehriat 2 Line	POWERGRID	NEEPCO	POWERGRID	02-04-2017 11:30:00	02-04-2017 11:41:00	Over current E/F	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					DR unavailable :	from Khandong	end for furthe	r analysis.							
Remedial- Measures		POWERGRID to provide software and other requirements for collecting DR & EL output (REL 670) at Khandong end for Khliehriat 2 feeder.													
NERLDC/TL/ 17/04/013	132 kV Badarpur - Khliehriat 1 Line	POWERGRID	POWERGRID	POWERGRID	02-04-2017 11:41:00	02-04-2017 12:03:00	DP, ZII, R-E	DP, ZI, R-E	Not operated	Not operated	No	No	No	No	No SPS
Root Cause				Fau	It due to vegetation i	infringement. Tu	ırbulant weath	er also observ	ed.						
Remedial- Measures					Proper vegetation	n clearance to be	e done by POW	ERGRID.							
NERLDC/TL/ 17/04/014	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	02-04-2017 12:00:00	02-04-2017 12:23:00	No tripping	DP, ZI, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
Root Cause	Fault in Meghalaya	System cleared a	t Khliehriat(PG)). Zone-1 reach at	. ,	Khliehriat(MeP nerical relays at	,		gnth~7 Kms)	for faster clear	ance o	f fault	in Meg	halaya	system due to

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelir y rep subm withi Hor	port itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures			As	informed by PO	WERGRID, Zone -1	reach of Khlieh	riat(PG) reduc	ced (set at 80%	b) on 13th Ap	rl'17.					
NERLDC/TL/ 17/04/015	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	02-04-2017 13:46:00	02-04-2017 14:00:00	No tripping	DP, ZI, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
Root Cause	Fault in Meghalaya Khliehriat(•			at(PG).Fault was in legnth~7 Kms) for f			-		-					
Remedial- Measures			As	informed by PO	WERGRID, Zone -1	reach of Khlieh	riat(PG) reduc	ced (set at 80%	b) on 13th Ap	rl'17.					

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/006	132 kV Badarpur - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED Mizoram	02-04-2017 13:14:00	02-04-2017 16:58:00	DP, ZII, B-E	No tripping	Not applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/006	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED Mizoram	02-04-2017 13:14:00	02-04-2017 17:35:00	DP, ZII, B-E	No tripping	Not applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Fault in downstream of Kolasib cleared at Badarpur & Aizwal.													
Remedial- Measures			Proper rela	y coordination to	be done by P & ED	Mizoram at dov	vnstream of Ko	olasib in consu	ltation with P	OWERGRID.					
NERLDC/TL/ 17/04/016	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	02-04-2017 15:37:00	02-04-2017 15:43:00	No tripping	DP, ZI, Y-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
NERLDC/TL/ 17/04/016	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	02-04-2017 15:37:00	02-04-2017 16:00:00	No tripping	DP, ZI, R-Y- B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Fault in Meghalaya	System cleared a	t Khliehriat(PG)	. Zone-1 reach at	. ,	Khliehriat(MeP nerical relays at	,		gnth~7 Kms)	for faster clear	ance of	f fault	in Meg	halaya	system due to

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Ho	iitted in 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures			As	informed by PO	WERGRID, Zone -1	l reach of Khlieł	nriat(PG) redu	ced (set at 80%	%) on 13th Ap	rl'17.					
NERLDC/TL/ 17/04/017	132 kV Badarpur - Khliehriat 1 Line	POWERGRID	POWERGRID	POWERGRID	02-04-2017 15:47:00	02-04-2017 16:12:00	DP, ZII, Y-E	DP, ZI, Y-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause		Data pure POWERGRID POWERGRID POWERGRID Doctor 2017 102/04-2017 102/04-2017 102/04-2017 102/04-2017 DP, ZII, Y-E Furnished No No <th< td=""></th<>													
Remedial- Measures		Vulnerable loca	tions to lightning	to be identified	by POWERGRID, (Checking of Tow	er footing resis	stances to be d	one. Installati	on of Line LA	are to l	be exp	edicted		
NERLDC/TL/ 17/04/018	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	02-04-2017 15:46:00	02-04-2017 16:08:00	No tripping	DP, ZI, R-Y- B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Fault in Meghalaya	System cleared a	t Khliehriat(PG)	. Zone-1 reach at	. ,	Khliehriat(MeF nerical relays at	,		egnth~7 Kms)	for faster clear	ance of	f fault	in Meg	ghalaya	system due to

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	port itted in 24	DR 8 subm withi	nitted	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures			As	informed by PO	WERGRID, Zone -1	l reach of Khlieh	riat(PG) reduc	eed (set at 80%	%) on 13th Ap	rl'17.					

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/ 17/04/019	132 kV Gelyphu - Salakati 1 Line	POWERGRID	BPC, Bhutan	POWERGRID	02-04-2017 18:52:00	02-04-2017 19:28:00	Not Furnished	DP, ZI, R-B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause				Re	fferd to NLDC. No b	fault in Assam sy	ystem as inforn	ned by AEGCI	L.						
Remedial- Measures						-									
NERLDC/GD/ 17/04/007	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	02-04-2017 21:39:00	02-04-2017 22:02:00	No tripping	DP, ZI, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
NERLDC/GD/ 17/04/007	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	02-04-2017 21:39:00	02-04-2017 22:03:00	No tripping	DP, ZI, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
NERLDC/GD/ 17/04/007	132 kV NEHU- NEIGRIHMS Line	MePTCL	MePTCL	MePTCL	02-04-2017 21:39:00	02-04-2017 21:45:00	Not Furnished	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	² Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/007	132 kV Khliehriat- Mustem Line	MePTCL	MePTCL	MePTCL	02-04-2017 21:39:00	02-04-2017 23:11:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Fault in Meghalaya	System cleared at	t Khliehriat(PG)	. Zone-1 reach at					egnth~7 Kms) for faster clearance of fault in Meghalaya system due to						
Remedial- Measures		absence of Numerical relays at Khliehriat(MePTCL) . As informed by POWERGRID, Zone -1 reach of Khliehriat(PG) reduced (set at 80%) on 13th Aprl'17.													
NERLDC/TL/ 17/04/021	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	02-04-2017 22:14:00	02-04-2017 23:00:00	No tripping	DP, R-B	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	dications	Operation o	f Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & subm withi Ho	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/ 17/04/020	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	02-04-2017 22:14:00	02-04-2017 22:40:00	No tripping	DP, R-B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Fault in Meghalaya System cleared at Khliehriat(PG). Zone-1 reach at Khliehriat(PG) for Khliehriat(MePTCL) set as 75 Kms (Line legnth~7 Kms) for faster clearance of fault in Meghalaya system due to absence of Numerical relays at Khliehriat(MePTCL).														
Remedial- Measures		As informed by POWERGRID, Zone -1 reach of Khliehriat(PG) reduced (set at 80%) on 13th Aprl'17.													
NERLDC/GD/ 17/04/008	132 kV Dimapur (PG) - Kohima 1 Line	DoP Nagaland and POWERGRID	POWERGRID	DoP Nagaland	02-04-2017 22:24:00	02-04-2017 22:44:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					DoP Nagaland	may inform the	root cause of th	ne event.							
Remedial- Measures						-									
NERLDC/TL/ 17/04/021	132 kV Badarpur - Khliehriat 1 Line	POWERGRID	POWERGRID	POWERGRID	02-04-2017 22:44:00	02-04-2017 23:11:00	DP, ZI, Y-E	DP, ZI, Y-E	Not operated	Not operated	No	No	No	No	No SPS
Root Cause					Fault due to lig	ntning.Fault nea	r to (2 Kms) Ba	adarpur.							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rej subm withi Ho	port itted in 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures		Vulnerable loca	tions to lightning	to be identified	by POWERGRID, C	Checking of Tow	er footing resis	stances to be d	one. Installati	on of Line LA	are to	be exp	edicted.	,	
NERLDC/TL/ 17/04/022	132 kV Dimapur - Imphal 1 Line	POWERGRID	POWERGRID	POWERGRID	02-04-2017 22:51:00	03-04-2017 23:46:00	DP, ZI, Y-E	DP, ZI, Y-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause			DR from both e	ends are not subn	nitted by POWERG	RID. Root cause	could not be c	oncluded due (to unavailabil	ity of DR outpu	ıts.				
Remedial- Measures	POWERGRID may submit DR outputs from Both ends for further analysis.														
NERLDC/GD/ 17/04/009	132 kV Mokochung (PG) - Mokokchung (Nagaland) 1 Line	POWERGRID	POWERGRID	DoP Nagaland	02-04-2017 23:07:00	03-04-2017 23:28:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/009	132 kV Mokochung (PG) - Mokokchung (Nagaland) 2 Line	POWERGRID	POWERGRID	DoP Nagaland	02-04-2017 23:07:00	02-04-2017 23:28:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/009	132 kV Doyang- Mokokchung	NEEPCO	NEEPCO	DoP Nagaland	02-04-2017 23:07:00	02-04-2017 23:30:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Line fault due to infringement													
Remedial- Measures	Directionality featur	e of EF relay to b	e checked by Dol	P Nagaland at M	okokchung(NA) end may be installed in	•		0 0	etation cleara	nce to be done	by Doł	P Naga	aland. L	ine Dif	ferential relay
NERLDC/TL/ 17/04/023	132 kV Jiribam - Loktak 2 Line	POWERGRID	POWERGRID	NHPC	02-04-2017 23:30:00	03-04-2017 00:35:00	DP, ZI, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause					Fault in th	e line due to veg	etation infrigm	ient							
Remedial- Measures					Vegetation cl	earance to be do	ne by POWER	GRID.							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	dications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	ort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/010	132 kV Lumshnong- Panchgram	MePTCL and AEGCL	MePTCL	AEGCL	02-04-2017 20:42:00	02-04-2017 21:16:00	DP, Z1, RYB	Not furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Fault in th	e line due to veg	etation infrigm	ient							
Remedial- Measures		Vegetation clearance to be done by MePTCL and AEGCL.													
NERLDC/UI/ 17/04/001	AGTPP Unit 1	NEEPCO	NEEPCO	-	01-04-2017 21:16:00	01-04-2017 22:21:00	Due to damper position	-	Not Applicable	-	No	-	No	-	No SPS
NERLDC/UI/ 17/04/001	AGTPP EXTN Unit STG-1	NEEPCO	NEEPCO	-	01-04-2017 21:16:00	04-04-2017 10:51:00	Steam pressure low	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause					D	Due to problem in	1 damper								
Remedial- Measures					The problem has	been rectified a	s informed by 1	NEEPCO							
NERLDC/TL/1 7/04/024	220 kV AGBPP - Mariani (PG) 1 Line	POWERGRID	NEEPCO	POWERGRID	03-04-2017 01:26:00	03-04-2017 01:51:00	Direct Trip received	Over Voltage	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelim y repo submit within Hou	ort tted 1 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause	Over Voltage re	ay at Mariani ma	al-operated. DR t	from Mariani sho	ws Vb of 147 kV(~2	54 kV), Over Vo followed.	0 0	nitiated & trip	oped instantai	neously. 5 secon	nd delay	for (Over Vo	ltage S	tage-1 not
Remedial- Measures		POWERGRID may review the Over Volatge Settings at Mariani. Many trippings were occurred in the past months due to improper over volatge settings at Mariani.													
NERLDC/TL/1 7/04/025	132 kV Badarpur - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED Mizoram	03-04-2017 01:25:00	03-04-2017 02:30:00	DP, ZII, Y-E	Not Furnished	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause		Peri	nanent solid fau	lt. No evidance of	insulator puncture	during patrollin	g as informed b	oy POWERGI	RID. Likely dı	ie to downstrea	am fault	•			
Remedial- Measures			Proper rela	y coordination to	be done by P & ED	Mizoram at dov	vnstream of Ko	lasib in consu	ltation with P	OWERGRID.					
NERLDC/TL/1 7/04/026	132 kV Dimapur - Doyang 1 Line	POWERGRID	POWERGRID	NEEPCO	03-04-2017 12:05:00	03-04-2017 02:23:00	DP, ZI, R-E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause					Maloperatio	n of distance pro	otection at Dim	apur							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rej subm withi Ho	port itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A End B End A End B End A End B								End A	End B	End A	End B	
Remedial- Measures		Relay set	tings at Dimapur	• & Doyang end f	or 132 kV Dimapur-	Doyang D/C line	es to be checked	l & coordinat	ed by POWEI	RGRID & DHF	EP, NE	EPCO			
NERLDC/TL/1 7/04/027	132 kV Dimapur - Doyang 2 Line	POWERGRID	POWERGRID	NEEPCO	03-04-2017 01:49:00	03-04-2017 02:09:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Maloperation Earth Fault protection at Dimapur													
Remedial- Measures		Relay set	tings at Dimapur	• & Doyang end f	or 132 kV Dimapur-	Doyang D/C line	es to be checked	l & coordinat	ed by POWEI	RGRID & DHF	EP, NE	EPCO			
NERLDC/TL/1 7/04/028	132 kV Khandong - Kopili 1 Line	POWERGRID	NEEPCO	NEEPCO	03-04-2017 02:06:00	03-04-2017 03:55:00	DP, ZI, R-Y-B	DP, ZI, R-Y- B	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/028	132 kV Khandong - Kopili 2 Line	POWERGRID	NEEPCO	NEEPCO	03-04-2017 02:06:00	03-04-2017 07:58:00	DP, ZI, R-Y-B	DP, ZI, R-Y- B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Vegetation In	fringement due	to inclement w	eather							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures			Vegetatio	n to be cleared. M	Ionsoon preparation	n to be properly	done to avoid t	ripping due to	• Vegetation I	nfringement					
NERLDC/GD/1 7/04/011	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	03-04-2017 06:12:00	03-04-2017 06:22:00	No tripping	DP, ZI, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
NERLDC/GD/1 7/04/011	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	POWERGRID	MePTCL	POWERGRID	03-04-2017 06:12:00	03-04-2017 06:45:00	No tripping	DP, ZI, B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	Fault in Meghalaya	System cleared at	Khliehriat(PG)	. Zone-1 reach at	. ,	Khliehriat(MeP nerical relays at	,		gnth~7 Kms)	for faster clear	ance of	f fault	in Meg	halaya	system due to
Remedial- Measures			As	informed by PO	WERGRID, Zone -1	reach of Khlieh	riat(PG) reduc	ced (set at 80%) on 13th Ap	rl'17.					
NERLDC/TL/1 7/04/029	400 kV Killing (Byrnihat) - Silchar 1 Line	NETC & MePTCL	MePTCL	POWERGRID	03-04-2017 06:05:00	03-04-2017 06:40:00	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Not operated	No	No	No	No	No SPS
Root Cause	Lightning fault. Au	to recloser at Byrr		0	nand is being sent to 3-Phase circuit brea				· •	•	OWER	GRII	D, there	is a sta	age-2 low SF6

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rej subm withi Ho	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures		Circuit	breaker Low SF	-6 pressure issue	at Byrnihat is to be	rectified by MeF	TCL at the ear	rliest. Installa	tion of TLSA	by NETC to be	exped	icted.			
NERLDC/TL/1 7/04/030	132 kV Khandong - Kopili 1 Line	POWERGRID	NEEPCO	NEEPCO	03-04-2017 06:08:00	03-04-2017 06:42:00	Backup Protection operated	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Fault due to vegetation													
Remedial- Measures					Vegetation cl	earance to be do	ne by POWER	GRID							
NERLDC/GD/1 7/04/012	132 kV Silchar - Hailakandi 1 Line	POWERGRID	POWERGRID	AEGCL	03-04-2017 10:32:00	03-04-2017 10:56:00	DP, ZI, B-E	Earth Fault	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause					Fault	due to vegetatior	n infringement								
Remedial- Measures					Vegetation cl	earance to be do	ne by POWER	GRID							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation o	f Auto Reclose	Prelir y rep subm withi Hor	port itted n 24	DR & subm withi Ho	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/031	132 kV Badarpur - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED Mizoram	03-04-2017 11:08:00	03-04-2017 11:35:00	DP, ZII, B-E	Not Furnished	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause		Fault in downstream of Kolasib cleared at Badarpur.													
Remedial- Measures		Proper relay coordination to be done by P & ED Mizoram at downstream of Kolasib in consultation with POWERGRID.													
NERLDC/TL/1 7/04/032	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	POWERGRID	MePTCL	POWERGRID	03-04-2017 12:02:00	03-04-2017 12:23:00	No tripping	DP, ZI, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
Root Cause	Fault in Meghalaya	System cleared a	t Khliehriat(PG)	. Zone-1 reach at	. ,	Khliehriat(MeP nerical relays at	,		gnth~7 Kms)	for faster clear	ance o	f fault	t in Meg	halaya	system due to
Remedial- Measures			As	informed by PO	WERGRID, Zone -1	reach of Khlieh	riat(PG) reduc	ced (set at 80%	b) on 13th Ap	rl'17.					
NERLDC/TL/1 7/04/033	400 kV Palatana - Silchar 2 Line	NETCL	OTPCL	POWERGRID	03-04-2017 12:31:00	03-04-2017 12:50:00	DP, ZI, Y-E	DP, ZI, Y-E	Not Furnished	Not operated	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A End B End A End A End A								End A	End B	End A	End B	
Root Cause					Vegetation In	fringement due	to inclement w	eather							
Remedial- Measures		Vegetation to be cleared by NETC. Monsoon preparation to be properly done to avoid tripping due to Vegetation Infringement													
NERLDC/GD/1 7/04/013	132 kV Loktak - Rengpang 1 LineMSPCLNMSPCL03-04-2017 00:20:0003-04-2017 13:21:00Not FurnishedEarth FaultNot ApplicableNot ApplicableNo </td <td>No SPS</td>												No SPS		
Root Cause					Vegetation In	fringement due	to inclement w	eather							
Remedial- Measures			Vegetation to be	e cleared by MSP	CL. Monsoon prepa	ration to be pro	perly done to a	woid tripping	due to Vegeta	tion Infringem	ent				
NERLDC/TL/1 7/04/034	132 kV Aizawl - Kumarghat 1 Line	POWERGRID L POWERGRID L POWERGRID L L DP ZER-EL DP ZER-EL LNot operated LNO LNO LNO LNO LNO LNO SPS													
Root Cause					Faul	t in the line due	to lightning		-					-	

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation o	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures	TLSA already inst	alled by POWER	GRID at selected	locations. 100%	will be covered shor	rtly as informed	by POWERGR	RID.Auto reco	ser not attemj	pted at both en	ds.Need	ls to b	e check	d by P(OWERGRID.
NERLDC/GD/1 7/04/014	132 kV Loktak - Ningthoukhong 1 Line	MSPCL	NHPC	MSPCL	03-04-2017 15:52:00	03-04-2017 16:28:00	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Fault due to vegetation in the line or downstream of Ningthoukhong													
Remedial- Measures					Vegetation	n clearance to be	done by MSP	CL.							
NERLDC/TL/1 7/04/035	132 kV Badarpur - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED Mizoram	03-04-2017 16:33:00	03-04-2017 16:51:00	DP, ZII, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause			DR from both o	ends are not subn	nitted by POWERG	RID. Root cause	could not be co	oncluded due	to unavailabil	ity of DR outpu	uts.				
Remedial- Measures	POWERGE	RID to provide sof	tware and other	requirements for	collecting DR & EI	L output at kolas	ib end for Bad	arpur & Aizw	al feeder. PO	WERGRID to	furfnisl	h the l	DR fron	n Badaı	rpuur.
NERLDC/TL/1 7/04/036	132 kV Badarpur - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED Mizoram	03-04-2017 17:14:00	03-04-2017 17:43:00	DP, ZII, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause		DR from both ends are not submitted by POWERGRID. Root cause could not be concluded due to unavailability of DR outputs.													
Remedial- Measures	POWERGR	POWERGRID to provide software and other requirements for collecting DR & EL output at kolasib end for Badarpur & Aizwal feeder. POWERGRID to furfnish the DR from Badarpuur.													
NERLDC/GD/1 7/04/015	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	03-04-2017 17:52:00	03-04-2017 18:16:00	No tripping	DP, ZI, Y-B- E	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/1 7/04/015	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	POWERGRID	MePTCL	POWERGRID	03-04-2017 17:52:00	03-04-2017 18:17:00	No tripping	DP, ZI, R-Y- B-E	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Fault in Meghalaya	System cleared at	Khliehriat(PG)	. Zone-1 reach at	. ,	Khliehriat(MeP nerical relays at	,		gnth~7 Kms)	for faster cleaı	ance o	f fault	in Meg	halaya	system due to
Remedial- Measures			As	informed by PO	WERGRID, Zone -1	reach of Khlieh	riat(PG) reduc	ced (set at 80%	b) on 13th Ap	rl'17.					

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation o	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/037	400 kV Bongaigaon - Alipurduar 2 Line	ENICL	POWERGRID	POWERGRID	03-04-2017 18:58:00	03-04-2017 19:29:00	DP, ZII, Y-E	No tripping	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause		Reffred to NLDC. Inter-regional line.													
Remedial- Measures		-													
NERLDC/TL/1 7/04/038	132 kV Khandong - Khliehriat 2 Line	POWERGRID	NEEPCO	POWERGRID	03-04-2017 20:18:00	03-04-2017 20:48:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					EF relay	maloperation at	Khandong en	d.							
Remedial- Measures		R	elay settings at H	Chandong to be c	oordinated with to b	e Khliehriat(PG) & Khliehriat	(MePTCL) in	consultation	with POWERG	FRID.				
NERLDC/TL/1 7/04/039	132 kV Jiribam - Loktak 2 Line	POWERGRID	POWERGRID	NHPC	03-04-2017 23:19:00	03-04-2017 23:26:00	No tripping	DP, ZI, B-E	Not Furnished	Lockout	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be 1	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Fault	due to vegetation	ı infringement								
Remedial- Measures		Vegetation clearance to be done by POWERGRID													
NERLDC/GD/1 7/04/016	132 kV Khandong - Khliehriat 1 Line	POWERGRID	NEEPCO	POWERGRID	04-04-2017 00:34:00	04-04-2017 00:48:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/1 7/04/016	132 kV Khandong - Khliehriat 2 Line	POWERGRID	NEEPCO	POWERGRID	04-04-2017 00:34:00	04-04-2017 00:48:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/1 7/04/016	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	04-04-2017 00:34:00	04-04-2017 01:18:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/1 7/04/016	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	04-04-2017 00:34:00	04-04-2017 01:19:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	ort tted 1 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Improper	relay co-ordina	tion at Khando	ong							
Remedial- Measures		Relay settings at Khandong to be coordinated with to be Khliehriat(PG) & Khliehriat(MePTCL) in consultation with POWERGRID. 2 kV Badarpur -													
NERLDC/GD/1 7/04/017	132 kV Badarpur - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED Mizoram	04-04-2017 09:35:00	04-04-2017 09:52:00	DP, ZII, R-E	DP, ZI, R-E	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause		Kolasib I Line 09:35:00 09:52:00 Furnished Applicable Fault near kolasib end due to vegetation infringement													
Remedial- Measures	POWERGI	RID to provide so	ftware and other	• requirements for	collecting DR & El	L output at kola:	sib end for Bad	arpur & Aizw	al feeder. Veş	getation cleara	nce to b	e don	e by PO	WERG	GRID.
NERLDC/GD/1 7/04/018	132 kV Aizawl - Zungtui 1 Line	POWERGRID	POWERGRID	P&ED Mizoram	04-04-2017 09:50:00	04-04-2017 10:15:00	DP, ZI, Y-E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause				Fault in the lin	e. Root cause could	not be conclude	d due to unavai	ilability of DR	from Aizwal.						
Remedial- Measures					POWERG	RID to submit th	e DR from Aiz	awl.							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be Furnished by Event of restoration Relay indications Operation of Auto K									ninar bort itted n 24 urs	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/1 17/04/019	132 kV Lumshnong - Panchgram 1 Line	AEGCL & MePTCL	MePTCL	AEGCL	03-04-2017 22:23:00	03-04-2017 22:30:00	No tripping	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Fault in th	e line due to veg	etation infrigm	ent							
Remedial- Measures		Vegetation clearance to be done by MePTCL and AEGCL.													
NERLDC/TL/1 7/04/040	132 kV Imphal - Silchar 1 Line	POWERGRID	POWERGRID	POWERGRID	04-04-2017 21:01:00	04-04-2017 21:22:00	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause			Li	ghtning fault but .	AR not sucessful due	e to 3-phase trip	ping at Silchar	end. Imphal e	end, AR attem	pted.					
Remedial- Measures	3-phase tripping at \$	Sichar to be check	xed by POWERG	RID. Vulnerable	locations to lightnin	ng to be identifie to be install	•	GRID, Checki	ng of Tower f	ooting resistan	ices to l	be don	e. If neo	cessary	, Line LA are
NERLDC/TL/1 7/04/041	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED Mizoram	04-04-2017 21:50:00	04-04-2017 22:16:00	DP, ZI, B-E	Earth Fault	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause					Fault o	lue to vegetatior	infringement								

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation o	f Auto Reclose	Prelin y rep submi within Hou	ort tted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures	POWERGI	RID to provide so	ftware and other	requirements for	r collecting DR & El	L output at kola	sib end for Bad	larpur & Aizw	al feeder. Ve	getation cleara	nce to b	e don	e by PO	WERG	GRID.
NERLDC/GD/1 7/04/020	132 kV Aizawl - Zungtui 1 Line	POWFRCRID L POWFRGRID L P&FD Mizoram L L L L L No tripping L L No L													
Root Cause		gtu I Line 21:55:00 22:32:00 Kms. Kms. Applicable Applicable Fault in the line. Root cause could not be concluded due to unavailability of DR from Aizwal.													
Remedial- Measures					POWERG	RID to submit th	e DR from Aiz	zawl.							
NERLDC/TL/1 7/04/042	132 kV Dimapur - Imphal 1 Line	POWERGRID	POWERGRID	POWERGRID	04-04-2017 22:24:00	04-04-2017 22:47:00	DP, ZI, Y-E	DP, ZI, Y-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause				Fault in the line	. Root cause could n	ot be concluded	due to unavail	ability of DR f	rom both end	s.					
Remedial- Measures					POWERGR	ID to submit the	DR from both	ends.							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	² Auto Reclose	Prelin y rep submi within Hou	ort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/043	132 kV Comilla - Surajmani Nagar 1 Line	POWERGRID	PGCB	TSECL	05-04-2017 11:58:00	05-04-2017 12:30:00	Not Furnished	DP,86A& 86B	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/043	132 kV Comilla - Surajmani Nagar 2 Line	POWERGRID	PGCB	TSECL	05-04-2017 11:58:00	05-04-2017 13:08:00	Not Furnished	DP,86A& 86B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Refferd to PCC.TSECL may inform the root cause of tripping													
Remedial- Measures															
NERLDC/GD/1 7/04/021	132 kV Haflong (AS) - Haflong(PG) 1 Line	AEGCL	AEGCL	POWERGRID	05-04-2017 16:55:00	05-04-2017 17:10:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Downstream	fault								
Remedial- Measures			H	Realay coordinati	on of downstream st	tations of Haflor	ng to be done b	y AEGCL wit	h POWERGI	ND					
NERLDC/TL/1 7/04/044	132 kV Dimapur - Imphal 1 Line	POWERGRID	POWERGRID	POWERGRID	07-04-2017 02:21:00	07-04-2017 02:50:00	DP, ZI, R-E	Not Furnished	Not Furnished	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause	DR from Im	DR from Imphal shows R-Y fault with fault current of around 0.9 kA without any neutral current(no ground involment). Not a charateristics of high resistive vegetation fault/lightning fault.													
Remedial- Measures		POWERGRID may intimate reason for tripping.													
NERLDC/TL/1 7/04/045	400 kV Balipara - Bongaigaon 2 Line	POWERGRID	POWERGRID POWERGRID 08-04-2017 08-04-2017 19:30:00 DP, ZII, B-E DP, ZII, B-E Not Furnished No Furnished No No No											No	No SPS
Root Cause	DR from Balipara sl		•	0	ent up to 1.8 kA in . conds and angle bety		0		0		0 0			fault v	vith gradually
Remedial- Measures			Vegetation of	learance to be do	ne by POWERGRI	D. Vulnerable tr	ee branches/ba	mboos outside	e corridor also) to be cleared.					
NERLDC/TL/1 7/04/046	132 kV Badarpur - Khliehriat 1 Line	POWERGRID	POWERGRID	POWERGRID	09-04-2017 01:10:00	09-04-2017 01:24:00	DP, ZI, Y-E	DP, ZI, Y-E	Not operated	Not Furnished	No	No	No	No	No SPS
Root Cause	DR from Khliehri:	at is not available	. DR from Badar	•	ith fault current arc chop in Vy also obse		0	• •	nd 68 degrees	.Fault occured	just af	ter Vy	touche	d peak	and sudden

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be I	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures	AR at both ends to) be checked by P	OWERGRID. Vı	Inerable location	ns to lightning to be	identified by PC expedicted	,	Checking of To	ower footing r	esistances to be	e done.	Insta	llation o	f Line]	LA are to be
NERLDC/TL/1 7/04/047	132 kV Haflong - Jiribam 1 Line	POWERGRID POWERGRID POWERGRID POWERGRID O1:32:00 02:04:00 DP, ZI, Y-E DP, ZI, Y-E Furnished No No No No No No SPS													
Root Cause	DR from Jiribam sh	from Jiribam shows B-E fault with fault current up to 1.4 kA and angle between Vb & Ib around 69 degrees .DR from Haflong shows B-E fault with fault current up to 0.7 kA and angle between Vb & Ib around 77 degrees . fault occured near Voltage peak and sudden dip in voltage indicate likelihood of lightning fault.													
Remedial- Measures	AR at both ends to) be checked by P	OWERGRID. Vı	Inerable location	ns to lightning to be	identified by PC expedicted	,	Checking of To	ower footing r	esistances to be	e done.	Instal	llation o	f Line I	LA are to be
NERLDC/GD/1 7/04/022	132 kV Lumshnong - Panchgram 1 Line	AEGCL & MePTCL	MePTCL	AEGCL	09-04-2017 01:05:00	12-04-2017 16:31:00	DP, ZI, R-Y-B	DP, ZI, Y-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
Root Cause					Fault in th	e line due to veg	etation infrigm	ent							
Remedial- Measures					Vegetation cleara	nce to be done b	y MePTCL and	d AEGCL.							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	dications	Operation of	f Auto Reclose	Prelir y rep subm withi Hot	port itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/048	220 kV Dimapur - Misa 1 Line	POWERGRID	POWERGRID	POWERGRID	09-04-2017 12:20:00	09-04-2017 13:02:00	DP, ZI, Y-B	DP, ZII, Y-B	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/048	220 kV Dimapur - Misa 2 Line	POWERGRID	POWERGRID	POWERGRID	09-04-2017 12:20:00	10-04-2017 17:55:00	DP, ZI, Y-B	DP, ZII, Y-B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		DR from both ends are not submitted by POWERGRID. Root cause could not be concluded due to unavailability of DR outputs.													
Remedial- Measures					POWERGRID to	furnish DR out	puts for furthe	r Analysis.							
NERLDC/GD/1 7/04/023	132 kV Dimapur - Doyang 1 Line	POWERGRID	POWERGRID	NEEPCO	09-04-2017 12:33:00	09-04-2017 12:46:00	DP, ZII, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
NERLDC/GD/1 7/04/023	132 kV Dimapur - Doyang 2 Line	POWERGRID	POWERGRID	NEEPCO	09-04-2017 12:33:00	09-04-2017 13:21:00	No tripping	DP, ZI, R-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
NERLDC/GD/1 7/04/023	132 kV Bokajan - Dimapur(PG) 1 Line	AEGCL	AEGCL	POWERGRID	09-04-2017 12:33:00	09-04-2017 13:41:00	No tripping	Bus dead	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/1 7/04/023	132 kV Dimapur (PG) - Kohima 1 Line	DoP Nagaland	POWERGRID	DoP Nagaland	09-04-2017 12:33:00	09-04-2017 13:01:00	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi within Hou	tted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause			Fault in 132	2 kV Dimapur - D	oyang 1 Line. Tripp	bing of 132 kV D	imapur - Doya	ng 2 Line need	ls to be check	ed by Doyang.					
Remedial- Measures		Relay settings at Doyang, Dimapur(PG) are to be reviewed by POWERGRID & NEEPCO.													
NERLDC/GD/1 7/04/024	132 kV Dimapur - Doyang 1 Line	POWERGRID	POWERGRID	POWERGRID NEEPCO 09-04-2017 09-04-2017 DP, ZI, R-E DP, ZI, R-E Not Furnished Not Furnished No No No No No										No SPS	
Root Cause					Fault c	lue to vegetation	Infringement								
Remedial- Measures		V	egetation to be cl	leared by POWE	RGRID.Relay settin	gs at Doyang, Di	mapur(PG) ar	e to be review	ed by POWE	RGRID & NEF	EPCO.				
NERLDC/GD/1 7/04/025	132 kV Loktak - Ningthoukhong 1 Line	Ningthoukhong 1 MSPCL NHPC MSPCL 09-04-2017 09-04-2017 09-04-2017 DP, ZI, R-E Over current Not Not No No No No No No SPS													
Root Cause					Fault c	lue to vegetation	Infringement								

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	² Auto Reclose	Prelin y rej subm withi Ho	port itted	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures			Vegetation to b	e cleared by MSF	CL. Monsoon prepa	aration to be pro	perly done to a	woid tripping	due to Vegeta	tion Infringem	ent				
NERLDC/TL/1 7/04/049	220 kV AGBPP - Mariani (AS) 1 Line	POWERGRID	NEEPCO	AEGCL	09-04-2017 15:20:00	09-04-2017 16:50:00	No tripping	DP operated; 139 km	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/050	220 kV AGBPP - Tinsukia 1 Line	AEGCL	NEEPCO	AEGCL	09-04-2017 15:20:00	09-04-2017 22:37:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	-	Tinsukia 1 Line ALGCL ALGCL 15:20:00 22:37:00 Latur 1 aut Applicable Applicable No <													
Remedial- Measures					CB problem alrea	ndy rectied as inf	formed by POV	VERGRID							
NERLDC/GD/1 7/04/026	220 kV AGBPP - Deomali 1 Line	DoP Arunachal Pradesh	NEEPCO	DoP Arunachal Pradesh	09-04-2017 16:45:00	11-04-2017 19:43:00	Over Voltage	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Detai	ls to be provided	d by DoP, AP								
Remedial- Measures				D	oP, Ap to make arra	ingements for co	llection of DR	at AGBPP end	1						

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelir y rep subm withi Hot	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/UI/17 /04/001	AGTPP EXTN Unit STG-1	NEEPCO	NEEPCO	NEEPCO	01-04-2017 21:16:00	04-04-2017 10:51:00	Main Steam Pressure low	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause					Ľ	ue to low steam	pressure								
Remedial- Measures		Rectified as informed by NEEPCO.													
NERLDC/UI/17 /04/002	AGTPP Unit 1	NEEPCO	NEEPCO	NEEPCO	03-04-2017 00:00:00	03-04-2017 21:01:00	Diversion damper	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause					D	ue to problem in	n damper								
Remedial- Measures					Rectif	ïed as informed	by NEEPCO.								
NERLDC/UI/17 /04/003	KHANDONG Unit 2	NEEPCO	NEEPCO	NEEPCO	03-04-2017 20:18:00	03-04-2017 21:05:00	Over Frequency	-	Not Applicable	-	No	-	No	-	No SPS
NERLDC/UI/17 /04/003	KOPILI ST2 Unit 1	NEEPCO	NEEPCO	NEEPCO	03-04-2017 20:18:00	03-04-2017 21:26:00	Over Frequency	-	Not Applicable	-	No	-	No	-	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	dications	Operation of	f Auto Reclose	Prelir y rep subm withi Hot	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Due t	to tripping of eva	cuation path								
Remedial- Measures						-									
NERLDC/GI/17 /04/001	PALATANA Unit GTG-1	OTPCL	OTPCL	OTPCL	05-04-2017 23:36:00	08-04-2017 06:29:00	HRSG Tube Leakage	-	Not Applicable	-	No	-	No	-	No SPS
NERLDC/GI/17 /04/001	PALATANA Unit STG-1	OTPCL	OTPCL	OTPCL	05-04-2017 23:36:00	08-04-2017 14:11:00	HRSG Tube Leakage	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause					D	ue to HRSG tube	e leackage								
Remedial- Measures					Rect	tified as informe	d by OTPC.								
NERLDC/GI/17 /04/002	KHANDONG Unit 2	NEEPCO	NEEPCO	NEEPCO	07-04-2017 21:55:00	08-04-2017 10:55:00	Rotor Earth Fault	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause					Rotor earth fault o	due to Carbon d	ust deposit in t	he slip ring							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	² Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures					Rectif	ïed as informed	by NEEPCO.								
NERLDC/UI/17 /04/004	KOPILI ST2 Unit 1	NEEPCO	NEEPCO	NEEPCO	07-04-2017 21:59:00	07-04-2017 22:55:00	Rotor Earth Fault	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause		Rotor earth fault due to Carbon dust deposit in the slip ring													
Remedial- Measures		Rectified as informed by NEEPCO.													
NERLDC/GI/17 /04/003	PALATANA Unit GTG-1	OTPCL	OTPCL	OTPCL	08-04-2017 10:53:00	08-04-2017 12:41:00	Controller Fault	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause		GTG-1 OTCL OTCL 10:53:00 12:41:00 Fault Applicable I NO I N													
Remedial- Measures					Rect	ified as informe	d by OTPC.								
NERLDC/GD/1 7/04/022	DHEP Unit 1	NEEPCO	NEEPCO	NEEPCO	09-04-2017 12:34:00	09-04-2017 13:25:00	Interphase Relay 86I operated	-	Not Applicable	_	No	-	No	-	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/1 7/04/022	DHEP Unit 3	NEEPCO	NEEPCO	NEEPCO	09-04-2017 12:34:00	09-04-2017 13:15:00	Interphase Relay 86I operated	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause					Due	e to loss of evacu	ation path								
Remedial- Measures	-														
NERLDC/ TL/17/04/070	400 kV Balipara - Bongaigaon 1 Line	POWERGRID	POWERGRID	POWERGRID	18-04-2017 13:22:00	18-04-2017 13:29:00	DP, ZI, Y-E	DP, ZI, Y-E	Not Furnished	Successful operation	No	No	No	No	No SPS
Root Cause					Fault d	lue to vegetation	Infringement.								
Remedial- Measures			Vegetatio	n to be cleared b	y POWERGRID. Aı	ito recloser not a	attempted at Ba	alipara to be c	hcked by PO	WERGRID.					
NERLDC/TL/1 7/04/071	132 kV Motonga - Rangia 1 Line	POWERGRID	BPC, Bhutan	AEGCL	19-04-2017 00:50:00	19-04-2017 03:21:00	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Reffred	to NLDC. Inter	r-National line.								
Remedial- Measures	-														
NERLDC/TL/1 7/04/072	400 kV Palatana - Silchar 2 Line	NETCL	OTPCL	POWERGRID	19-04-2017 07:31:00	19-04-2017 10:15:00	DP, ZI, Y-E	DP, ZI, Y-B- E	Not Furnished	Not Applicable	No	No	No	No	Select
Root Cause	Temporarily strur	ng Pilot wire (use	d in connection v	vith ongoing OPC	GW stringing work i	n the line) loose NETC.	ned in the span	178-179 causi	ng reduced cl	learance & eve	ntual tr	rippin	g of the	line as	informed by
Remedial- Measures		Prior permission	n to be taken froi	m NERPC/NERL	DC for live line wor	ks. These works	have to be car	efully conduct	ed so that un	necessary tripp	ings ca	n be a	voided.		
NERLDC/TL/1 7/04/073	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	POWERGRID	POWERGRID	19-04-2017 13:37:00	19-04-2017 15:18:00	DC line fault	DC line fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Reffree	d to NLDC.Inter	r-regional line.								

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures						-									
NERLDC/TL/1 7/04/074	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	19-04-2017 13:42:00	19-04-2017 13:51:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/074	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	19-04-2017 13:42:00	19-04-2017 13:52:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Due to ill-coord	dination of relay	settings at AG	ТССРР	-				<u> </u>		
Remedial- Measures	Subroup requested 3	NEEPCO to revie	0		nsulatation with PO TSECL may furnish			,	• 0		om 79 '	Tilla	and dow	vnstrea	m elements at
NERLDC/TL/1 7/04/075	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	19-04-2017 14:22:00	19-04-2017 14:32:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/075	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	19-04-2017 14:22:00	19-04-2017 14:42:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rej subm withi Ho	port itted in 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Due to ill-coord	lination of relay	settings at AG	ТССРР							
Remedial- Measures	Subroup requested 1	broup requested NEEPCO to review the settings at AGTCCPP in consulatation with POWERGRID. For proper realy cordination ,Relay settings of all feeders from 79 Tilla and downstream elements at 79 Tilla are required. TSECL may furnish these settings to POWERGRID/NERPC/NERLDC at the earliest.													
NERLDC/TL/1 7/04/076	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	POWERGRID	POWERGRID	19-04-2017 16:20:00	20-04-2017 15:34:00	DC line fault	DC line fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Reffree	d to NLDC.Inter	r-regional line.		-			-	-		
Remedial- Measures						-									
NERLDC/TL/1 7/04/077	132 kV Badarpur - Khliehriat 1 Line	POWERGRID	POWERGRID	POWERGRID	19-04-2017 16:15:00	19-04-2017 16:35:00	DP, ZII, R-E	DP, ZI, R-E	Not operated	Not operated	No	No	No	No	No SPS
Root Cause	DR from Badarp				e between Vr & Ir a red at Vr peak and s							7 kA a	nd angl	e betwe	een Vr & Ir

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	ort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures		Vulnerable locat	ions to lightning	to be identified	by POWERGRID, (Checking of Tow	er footing resis	tances to be d	one. Installati	on of Line LA	are to l	oe exp	edicted.		
NERLDC/TL/1 7/04/078	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	19-04-2017 16:56:00	19-04-2017 17:17:00	DP, ZI, R-Y- B-E	DP, ZI, R-Y- B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Fault in Meghalaya	Line Line Careed at Khliehriat(PG). Zone-1 reach at Khliehriat(PG) for Khliehriat(MePTCL) set as 75 Kms (Line legnth~7 Kms) for faster clearance of fault in Meghalaya system due to absence of Numerical relays at Khliehriat(MePTCL) .													
Remedial- Measures			As	informed by PO	WERGRID, Zone -1	reach of Khlieł	riat(PG) reduc	ced (set at 80%	b) on 13th Ap	rl'17.					
NERLDC/TL/1 7/04/080	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	19-04-2017 18:08:00	19-04-2017 18:16:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Due to ill-coord	dination of relay	settings at AG	ТССРР							
Remedial- Measures	Subroup requested 1	NEEPCO to revie	0		nsulatation with PO TSECL may furnish			,	• 0		om 79 <i>'</i>	Filla :	and dow	vnstrea	m elements at

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation	
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/079	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	19-04-2017 17:54:00	19-04-2017 18:20:00	Not Furnished	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Due to ill-coordination of relay settings at AGTCCPP													
Remedial- Measures	Subroup requested 1	broup requested NEEPCO to review the settings at AGTCCPP in consulatation with POWERGRID. For proper realy cordination ,Relay settings of all feeders from 79 Tilla and downstream elements at 79 Tilla are required. TSECL may furnish these settings to POWERGRID/NERPC/NERLDC at the earliest.													
NERLDC/TL/1 7/04/081	132 kV Imphal - Silchar 2 Line	POWERGRID	POWERGRID	POWERGRID	19-04-2017 20:40:00	19-04-2017 20:58:00	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Not operated	No	No	No	No	No SPS
Root Cause	DR from Imphal	shows B-E fault	wirh slight involr	-	ses, fault current of Il due to 3-phase trij	0			0	ndicate high pr	obabili	ty of l	ightning	g fault l	out AR not
Remedial- Measures	3-phase tripping at \$	Sichar to be checl	ced by POWERG	GRID. Vulnerable	locations to lightnin	ng to be identifie to be install	•	GRID, Checki	ng of Tower f	ooting resistan	ces to l	be dor	ne. If neo	cessary	, Line LA are
NERLDC/GD/ 17/04/034	132 kV Lumshnong - Panchgram 1 Line	MePTCL & AEGCL	MePTCL	AEGCL	19-04-2017 21:20:00	19-04-2017 21:55:00	DP, ZI, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	² Auto Reclose	Prelin y rej subm withi Ho	port itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Fault in th	e line due to veg	etation infrigm	ent							
Remedial- Measures		Vegetation clearance to be done by MePTCL and AEGCL.													
NERLDC/TL/1 7/04/082	132 kV Badarpur - Kolasib 1 Line	POWERGRID	POWERGRID	P & ED Mizoram	19-04-2017 22:19:00	19-04-2017 22:42:00	DP, ZII, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	DR from Badarpur	indicates R-E fau	lt with fault curr		A and angle betwee ateristics of high res		0	-		5 seconds and	fault c	urrent	remain	ed unc	hanged. Not a
Remedial- Measures				Thorough patr	olling to be done by	POWERGRID	as same type of	fault repeated	d many times.						
NERLDC/TL/1 7/04/083	132 kV Aizawl - Jiribam 1 Line	POWERGRID	POWERGRID	POWERGRID	19-04-2017 22:58:00	19-04-2017 23:14:00	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	DR from Jir	ribam shows B-E	fault with fault c	urrent gradually	increasing up to 0.6	kA and angle b	etween Vb & Il	b around 10 to	38 degrees ir	dicate chances	of hig	h resis	tive veg	etation	fault.

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rej subm withi Ho	port iitted in 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures					Vegetation clo	earance to be do	ne by POWER	GRID.							
NERLDC/TL/1 7/04/084	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	POWERGRID	POWERGRID	20-04-2017 19:38:00	22-04-2017 12:23:00	DC line fault	DC line fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		HVDC Implement of the second													
Remedial- Measures						-									
NERLDC/GD/ 17/04/035	132 kV Aizawl - Zungtui 1 Line	POWERGRID	POWERGRID	P & ED, Mizoram	21-04-2017 03:37:00	21-04-2017 03:58:00	DP, ZI, R-E	Not Furnished	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause			Fault in the line	e. As informed by	y POWERGRID, the	ere no vegetation	n problem in en	tire line sectio	n.Likely due	to lightning fat	dt.				
Remedial- Measures	POWERGRID to su	ıbmit DR of Aizw	al end. Vulnerab	le locations to lig	htning to be identifi	ied by POWER	GRID, Checkin	ng of Tower fo	oting resistan	ces to be done.	If nece	essary,	, Line L	A are t	o be installed.

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data 10 Be Furnished by Event of restoration Relay indications Operation of Auto Reciose submitted within 24 Hours										DR & subm withi Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/085	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	21-04-2017 08:38:00	21-04-2017 12:28:00	No tripping	Pole Discrepancy Operated	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Br	eaker Maintenad	ee Problem								
Remedial- Measures		Rectified													
NERLDC/TL/1 7/04/086	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	21-04-2017 18:55:00	21-04-2017 19:04:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/086	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	21-04-2017 18:55:00	21-04-2017 19:05:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/087	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	21-04-2017 19:59:00	21-04-2017 20:06:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/087	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	21-04-2017 19:59:00	21-04-2017 20:07:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	ort itted n 24	DR & subm withi Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Due to ill-coore	dination of relay	settings at AG	ТССРР							
Remedial- Measures	Subroup requested l	NEEPCO to revie	0		nsulatation with PO TSECL may furnish			· · · · ·	• 0		om 79 1	Filla :	and dow	vnstrea	m elements at
NERLDC/GD/ 17/04/036	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	22-04-2017 09:01:00	22-04-2017 09:14:00	No tripping	DP, ZIII, R- Y-B-E	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/036	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	22-04-2017 09:01:00	22-04-2017 09:31:00	No tripping	DP, ZIII, R- E	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/036	132 kV Agartala - Rokhia 1 Line	TSECL	TSECL	TSECL	22-04-2017 09:01:00	23-04-2017 15:40:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/036	132 kV Agartala - Rokhia 2 Line	TSECL	TSECL	TSECL	22-04-2017 09:01:00	22-04-2017 09:11:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/036	132 kV Monarchak - Rokhia 1 Line	TSECL	NEEPCO	TSECL	22-04-2017 09:01:00	22-04-2017 13:05:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause			Tripping of	132 kV Agartala	- AGTPP D/C due to	o ill-coordinatio	n of relay settir	ngs at AGTCC	PP.Fault in T	'ripura system.					
Remedial- Measures	Subroup requested 1	roup requested NEEPCO to review the settings at AGTCCPP in consulatation with POWERGRID. For proper realy cordination ,Relay settings of all feeders from 79 Tilla and downstream elements at 79 Tilla are required. TSECL may furnish these settings to POWERGRID/NERPC/NERLDC at the earliest.													
NERLDC/TL/1 7/04/088	132 kV Khandong - Khliehriat 1 Line	POWERGRID	NEEPCO	POWERGRID	22-04-2017 11:46:00	22-04-2017 12:15:00	DP, O/C & E/F Optd, RYB, ZIII	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/088	132 kV Khandong - Khliehriat 2 Line	POWERGRID	NEEPCO	POWERGRID	22-04-2017 11:46:00	22-04-2017 12:25:00	Auto tripped Optd, RYB, ZIII	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Improper	relay co-ordina	tion at Khando	ng							
Remedial- Measures		R	elay settings at l	Khandong to be c	oordinated with to b	e Khliehriat(PG) & Khliehriat	(MePTCL) in	consultation	with POWERC	RID.				

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelir y rep subm withi Hot	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/089	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	22-04-2017 19:46:00	22-04-2017 19:55:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/089	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	22-04-2017 19:46:00	22-04-2017 19:58:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Tripping of 132 kV Agartala - AGTPP D/C Lines due to ill-coordination of relay settings at AGTCCPP.Fault in Tripura system.													
Remedial- Measures	Subroup requested 1	NEEPCO to revie	0		nsulatation with PO TSECL may furnish				. 0		om 79	Tilla	and dov	vnstrea	m elements at
NERLDC/UI/1 7/04/005	AGTPP Unit 3	NEEPCO	NEEPCO	-	19-04-2017 17:59:00	20-04-2017 06:35:00	Stator Earth Fault	-	Not appplicable	-	No	-	No	-	No SPS
Root Cause					Sator earth	fault due to wat	er entry in Bus	duct							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures						Rectified	I								
NERLDC/GI/1 7/04/007	PALATANA Unit GTG-2	OTPCL	OTPCL	-	19-04-2017 18:30:00	20-04-2017 02:38:00	GTG Exhaust Thermal Coupling Fault	-	Not applicable	-	No	-	Yes	-	Not operated
NERLDC/GI/1 7/04/007	PALATANA Unit STG-2	OTPCL	OTPCL	-	19-04-2017 18:30:00	20-04-2017 06:06:00	GTG Exhaust Thermal Coupling Fault	-	Not applicable	-	No	-	Yes	-	Not operated
Root Cause					Due to pro	blem in thermal	exhaust of GT	G-2							
Remedial- Measures						Rectified	l								
NERLDC/GI/1 7/04/008	PALATANA Unit GTG-1	OTPCL	OTPCL	-	21-04-2017 14:26:00	21-04-2017 16:59:00	Drum Level High	-	Not applicable	-	No	-	No	-	Not operated
NERLDC/GI/1 7/04/008	PALATANA Unit STG-1	OTPCL	OTPCL	-	21-04-2017 14:26:00	22-04-2017 04:06:00	Low forward power proection	-	Not applicable	-	No	•	No	-	Not operated

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rej subm withi Ho	port itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause						Due to high dru	m level								
Remedial- Measures						Rectified	l								
NERLDC/UI/1 7/04/006	PALATANA Unit GTG-1	OTPCL	OTPCL	-	21-04-2017 17:26:00	21-04-2017 20:58:00	Rotor Earth Fault	-	Not applicable	-	No	-	No	-	Not operated
Root Cause						Rotor earth	fault								
Remedial- Measures						Rectified	l								
NERLDC/UI/1 7/04/007	PALATANA Unit GTG-1	OTPCL	OTPCL	-	21-04-2017 21:03:00	22-04-2017 03:22:00	Rotor Earth Fault	-	Not applicable	-	No	-	No	-	Not operated
Root Cause						Rotor earth	fault								

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures						Rectified	I								
NERLDC/GI/1 7/04/009	KHANDONG Unit 2	NEEPCO	NEEPCO	-	22-04-2017 11:46:00	22-04-2017 12:40:00	Over current, Over frequency & Over voltage optd.	-	Not applicable	-	No	-	No	-	No SPS
NERLDC/GI/1 7/04/009	KOPILI ST2 Unit 1	NEEPCO	NEEPCO	-	22-04-2017 11:46:01	22-04-2017 12:30:00	Over current, Over frequency & Over voltage optd.	-	Not applicable	-	No	-	No	-	No SPS
Root Cause				Tripped o	on over current due	to tripping of 13	32 kV Khandon	g-Khliehriat I	D/C lines						
Remedial- Measures						-									
NERLDC/TL/1 7/ 04/091	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P & ED, Mizoram	24-04-2017 10:12:00	24-04-2017 10:50:00	DP, ZI, B-E	DP, Z-2,B- E, 58.5 KM.	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause			DR from both e	ends are not subn	itted by POWERG	RID. Root cause	could not be co	oncluded due (o unavailabil	ity of DR outp	ıts.				
Remedial- Measures	POWERGRID to provide software and other requirements for collecting DR & EL output at kolasib end for Badarpur & Aizwal feeder. POWERGRID to furfnish the DR from Badarpuur.														
NERLDC/GD/ 17/ 04/037	132 kV Aizawl- Zuangtui 1 Line	POWERGRID	POWERGRID	P &ED Mizoram	24-04-2017 10:06:00	24-04-2017 10:44:00	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause			Fault in the line	e. As informed by	POWERGRID, the	ere no vegetatior	ı problem in en	ntire line sectio	n.Likely due	to lightning fai	ılt.				
Remedial- Measures	POWERGRID to su	ıbmit DR of Aizw	al end. Vulnerab	le locations to lig	htning to be identifi	ed by POWER	GRID, Checkin	ng of Tower fo	oting resistan	ces to be done.	If nece	ssary,	Line L	A are t	o be installed.
NERLDC/TL/1 7/ 04/092	132 kV Aizawl - Kumarghat 1 Line	POWERGRID	POWERGRID	POWERGRID	24-04-2017 10:53:00	24-04-2017 11:05:00	DP, ZI, R-B	DP, ZI, R-B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Like	ly due to conduct	or touching duri	ng inclement wea	ther.DR indicates R	-B phase fault n	ot involving ne	utral current	with 1.2 kA at	Aizwal end ar	d 1 kA	at Ku	ımargha	at end	

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	² Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures					Sag of the conducto	ors also to be mo	nitored durnin	g patrolling.							
NERLDC/TL/1 7/ 04/093	132 kV Motonga - Rangia 1 Line	POWERGRID	BPC, Bhutan	AEGCL	24-04-2017 08:00:00	24-04-2017 09:35:00	Not Furnished	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Reffered to N	LDC								
Remedial- Measures						-									
NERLDC/TL/1 7/04/094	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	25-04-2017 01:58:00	25-04-2017 02:40:00	Earth Fault	DP, ZI, R-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
NERLDC/TL/1 7/04/095	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	25-04-2017 01:58:00	25-04-2017 02:40:00	Earth Fault	DP, ZI, R-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
Root Cause					Fault	t in the line due t	to infrigment								

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	² Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures					Vegetation cl	earance to be do	ne by POWER	GRID							
NERLDC/TL/1 7/04/096	400 kV Bongaigaon - Alipurduar 2 Line	ENICL	POWERGRID	POWERGRID	25-04-2017 10:42:00	25-04-2017 11:04:00	Direct Trip received	Mal-Trip due to HVDC Pole- IV testing, DT Send	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Reffered to N	LDC								
Remedial- Measures						-									
NERLDC/TL/1 7/04/097	132 kV Imphal - Silchar 2 Line	POWERGRID	POWERGRID	POWERGRID	25-04-2017 10:57:00	25-04-2017 11:20:00	Direct Trip received	DT Send	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Rela	y mal-opearatio	on at Silchar								

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	e Data To Be Furnished by Date & Time of Event Date & Time of restoration Relay indications Operation of Auto Reclose $virter virter vi$										DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures					Rectified	d as informed by	POWERGRII)							
NERLDC/TL/1 7/04/099	132 kV AGTPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	25-04-2017 12:13:00	25-04-2017 12:21:00	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Likely due to instatanous over current settings at AGTPP													
Remedial- Measures				Over Current S	ettings at AGTPP is	to be reviewed.	instantaneous	element to be	disabled if an	y					
NERLDC/TL/1 7/04/098	132 kV Dharmanagar- Dullavcherra 1 Line	AEGCL & TSECL	TSECL	AEGCL	25-04-2017 12:12:00	25-04-2017 16:05:00	Over current	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Likely due to instata	nous over curre	ent settings at D	harmanagar							
Remedial- Measures			0	ver Current Setti	ngs at DharamNaga	r is to be review	ed. instantaneo	ous element to	be disabled if	any					

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	² Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/100	132 kV AGTPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	25-04-2017 12:45:00	25-04-2017 12:51:00	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Likely due to ins	tatanous over cu	rrent settings a	at AGTPP							
Remedial- Measures				Over Current	Settings at AGTPP	to be reviewed. i	nstantaneous e	lement to be d	isabled if any						
NERLDC/GD/ 17/04/038	400 kV Palatana - Silchar 2 Line	NETCL	OTPCL	POWERGRID	25-04-2017 13:07:00	25-04-2017 13:20:00	DP, Z1, B-E	DP, ZI, Y-B- E	Not Applicable	Not Applicable	No	Yes	No	Yes	No SPS
NERLDC/GD/ 17/04/038	132 kV AGTPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	25-04-2017 13:07:00	25-04-2017 13:25:00	Over-current	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/038	132 kV Agartala- Dhalabil Line	TSECL	POWERGRID	TSECL	25-04-2017 13:07:00	25-04-2017 13:20:00	Not Furnished	Over- current	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/038	Palatana GTG-1	OTPCL	OTPCL	-	25-04-2017 13:07:01	26-04-2017 17:05:00	Turbine trip	-	Not Applicable	-	No		No		SPS-1 operated

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/038	Palatana STG-1	OTPCL	OTPCL	-	25-04-2017 13:07:00	26-04-2017 19:05:00	Tripped due to GTG-1 turbine trip	-	Not Applicable	-	No		No		SPS-1 operated
NERLDC/GD/ 17/04/038	Palatana GTG-2	OTPCL	OTPCL	-	25-04-2017 13:07:00	26-04-2017 22:20:00	Class C protection (L52GT trip) due to high system frequency	-	Not Applicable	-	No		No		SPS-1 operated
NERLDC/GD/ 17/04/038	Palatana STG-2	OTPCL	OTPCL	-	25-04-2017 13:07:00	27-04-2017 04:30:00	Tripped due to GTG-2 trip	-	Not Applicable	-	No		No		SPS-1 operated
NERLDC/GD/ 17/04/038	AGTPP Unit 1	NEEPCO	NEEPCO	-	25-04-2017 13:07:00	25-04-2017 15:27:00	Tripped due to voltage jerk	-	Not Applicable	-	No		No		No SPS
NERLDC/GD/ 17/04/038	AgTPP Unit 2	NEEPCO	NEEPCO	-	25-04-2017 13:07:00	25-04-2017 14:56:00	Tripped due to voltage jerk	-	Not Applicable	-	No		No		No SPS
NERLDC/GD/ 17/04/038	AGTPP Extn STG 1	NEEPCO	NEEPCO	-	25-04-2017 13:07:00	25-04-2017 20:17:00	Tripped due to voltage jerk	-	Not Applicable	-	No		No		No SPS
Root Cause		NERTS informed	the forum that t	the tripping of 40	0 kV Silchar – Palat	ana Line II is a	tributed to fall	ing of a tree a	t location 172	and 173 (i.e. T	eliamu	ra for	est area)).	

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation o	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures	Patrolling has been o	done by NERTS a	and some more p		t may encroach the one by POWERGR					this matter wit	h Fore	st Dep	oartmen	t. Mocl	k test of SPS-2
NERLDC/GD/ 17/04/039	132 kV Lekhi - Nirjuli 1 Line	DoP, AP & POWERGRID	DoP, AP	POWERGRID	25-04-2017 16:00:00	25-04-2017 16:17:00	Earth Fault	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Nirjuit I Line FOWERGRID 10:00:00 10:17:00 Furnished Applicable Applicable Tripped due to infringement in the LILO section.													
Remedial- Measures					Vegetation in	fringement to b	e cleared by Do	oP, AP							
NERLDC/TL/1 7/04/101	132 kV Badarpur - Silchar 2 Line	POWERGRID	POWERGRID	POWERGRID	25-04-2017 16:28:00	25-04-2017 16:52:00	DP, ZI, B-E	DP, ZI, B-E	Not furnished	Not furnished	No	No	No	No	No SPS
Root Cause					Earth w	rire snapped at I	LOC. NO 41-42	2.							
Remedial- Measures					Already rec	tified as informe	d by POWER(GRID							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	ort itted n 24	DR & submi within Hou	tted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/102	132 kV Badarpur - Silchar 2 Line	POWERGRID	POWERGRID	POWERGRID	25-04-2017 17:47:00	25-04-2017 18:06:00	DP, ZI, B-E	DP, ZII, B-E	Not furnished	Not furnished	No	No	No	No	No SPS
Root Cause					Earth w	ire snapped at I	.OC. NO 41-42								
Remedial- Measures		Already rectified as informed by POWERGRID													
NERLDC/TL/1 7/04/103	132 kV Badarpur - Silchar 1 Line	POWERGRID	POWERGRID	POWERGRID	25-04-2017 18:01:00	25-04-2017 18:14:00	DP, ZI, R-E	DP, ZI, R-E	Not furnished	Not furnished	No	Yes	No	Yes	No SPS
Root Cause					Earth w	ire snapped at I	.OC. NO 41-42								
Remedial- Measures					Already rect	ified as informe	d by POWERC	GRID							
NERLDC/TL/1 7/04/104	132 kV Badarpur - Silchar 2 Line	POWERGRID	POWERGRID	POWERGRID	25-04-2017 18:14:00	25-04-2017 18:47:00	86A, 86B trip relay operated	No tripping	Not Applicable	Not Applicable	No	Yes	No	Yes	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rej subm withi Ho	port iitted in 24	DR & subm withi Ho	itted in 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Earth w	ire snapped at I	LOC. NO 41-42								
Remedial- Measures		Already rectified as informed by POWERGRID													
NERLDC/TL/1 7/04/105	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	POWERGRID	POWERGRID	25-04-2017 14:52:00	26-04-2017 09:33:00	DC line fault	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Reffered to N	LDC								
Remedial- Measures						-									
NERLDC/TL/1 7/04/106	400 kV Azara - Bongaigaon 1 Line	NETC & AEGCL	AEGCL	POWERGRID	25-04-2017 19:55:00	25-04-2017 20:35:00	3 ph tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Fault	in the line due	to infrigment								

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation o	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures					Vegetatio	on clearance to b	e done by NET	°C							
NERLDC/TL/1 7/04/107	220 kV Samaguri - Sarusajai 2 Line	AEGCL	AEGCL	AEGCL	25-04-2017 22:02:00	25-04-2017 22:30:00	No tripping	DP, ZI, R-E	Not Applicable	Not furnished	No	No	No	No	No SPS
Root Cause		Mal-operation of DPR at sarusajai. DR from AEGCL is not being furnished.													
Remedial- Measures			•	• 0	t Azara,Samaguri, S ipping only at one er	0				•					
NERLDC/TL/1 7/04/108	220 kV Azara - Sarusajai 1 Line	AEGCL	AEGCL	AEGCL	25-04-2017 21:46:00	25-04-2017 22:29:00	No tripping	DP, ZI, B-E	Not Applicable	Not furnished	No	No	No	No	No SPS
Root Cause		·		Mal-o	peration of DPR at s	arusajai. DR fro	om AEGCL is 1	not being furn	ished.						
Remedial- Measures			•	• 0	t Azara,Samaguri, S ipping only at one ei	0				•					

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation o	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/109	132 kV Haflong - Jiribam 1 Line	POWERGRID	POWERGRID	POWERGRID	26-04-2017 07:12:00	26-04-2017 07:45:00	DP, ZI, B-E	DP, ZI, R-E	Not furnished	Not furnished	No	No	No	No	No SPS
Root Cause		Fault in the line													
Remedial- Measures				POWI	ERGRID may subm	it DR outputs fro	om Both ends f	or further ana	lysis.						
NERLDC/TL/1 7/04/110	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	POWERGRID	POWERGRID	26-04-2017 09:33:00	27-04-2017 07:25:00	DP, ZI, R-Y	DP, ZIII, R- Y	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Reffered to N	LDC								
Remedial- Measures						-									

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & subm withi Ho	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/040	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	26-04-2017 10:23:00	26-04-2017 10:47:00	No tripping	DP, ZIII, R- Y-B	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/040	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	26-04-2017 10:23:00	26-04-2017 10:49:00	No tripping	DP, ZIII, R- Y-B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Due to inclement w	eather condition,	132 kV Khliehri		pped on DP,R-Y-B, iehriat(MePTCL) of				,	-Y-B, Z1 - 13.3	7 km .l	Due to	proble	m in tri	pping coil of
Remedial- Measures	Already rectified as informed by MePTCL														
NERLDC/TL/1 7/04/111	400 kV Palatana - Silchar 2 Line	NETCL	OTPCL	POWERGRID	26-04-2017 12:51:00	26-04-2017 13:05:00	Over voltage	Direct Trip received	Not Applicable	Not Applicable	No	Yes	No	Yes	SPS not operated

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rej subm withi Ho	port itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/041	132 kV AGTPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	26-04-2017 12:51:00	26-04-2017 13:14:00	Over-current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/041	132 kV Agartala- Dhalabil Line	POWERGRID	TSECL	TSECL	26-04-2017 12:51:00	26-04-2017 13:02:00	Not Furnished	Over- current	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/041	AGTPP Unit 2	NEEPCO	NEEPCO	-	26-04-2017 12:51:00	26-04-2017 13:20:00	Tripped due to voltage jerk	-	Not Applicable	-	No	-	No	-	No SPS
NERLDC/GD/ 17/04/041	AGTPP Extn STG 1	NEEPCO	NEEPCO	-	26-04-2017 12:51:00	26-04-2017 16:41:00	Tripped due to voltage jerk	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause		High resistive fault in 400 kV Palatana - Silchar 2 Line due to vegetation.													
Remedial- Measures				Thorough	patrolling to be don	e by NETC as s	ame type of fau	lt repeated ma	any times.						

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation o	f Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/112	132 kV Imphal - Silchar 1 Line	POWERGRID	POWERGRID	POWERGRID	26-04-2017 14:47:00	26-04-2017 15:00:00	DP, ZII, B-E	DP, ZI, B-E	Not furnished	Not furnished	No	No	No	No	No SPS
Root Cause	DR from Imphal shows B-E fault with fault current of 7.6 kA and angle between Vb and Ib around 71 degrees indicate high probability of lightning fault.														
Remedial- Measures	DR from Imphal shows B-E fault with fault current of 7.6 kA and angle between Vb and Ib around 71 degrees indicate high probability of lightning fault. AR at both ends to be checked by POWERGRID. Vulnerable locations to lightning to be identified by POWERGRID, Checking of Tower footing resistances to be done. If necessary, Line LA are to be installed.														
NERLDC/TL/1 7/04/113	132 kV Imphal - Silchar 2 Line	POWERGRID	POWERGRID	POWERGRID	26-04-2017 14:41:00	26-04-2017 14:56:00	DP, ZI, R-E	DP, ZI, R-E	Not furnished	Not furnished	No	No	No	No	No SPS
Root Cause	-			, 0	tween Vr and Ir aro npted. These indicate	0	-		-						.2 kA , angle
Remedial- Measures	3-phase tripping at I	mphal to be chec	ked by POWER(GRID. Vulnerable	e locations to lightni	ng to be identifi to be instal	•	GRID, Check	ing of Tower	footing resistan	ices to	be doi	ne. If ne	cessary	r, Line LA are
NERLDC/TL/1 7/04/114	132 kV Badarpur - Khliehriat 1 Line	POWERGRID	POWERGRID	POWERGRID	27-04-2017 21:33:00	27-04-2017 21:50:00	DP, ZII, B-E	DP, ZI, B-E	Not furnished	Not furnished	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & subm withi Ho	itted in 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause	DR from Badarpur			, 0	e between Vb & Ib a nd sudden dip in vol	0					-			gle bet	ween Vb & Ib
Remedial- Measures		Vulnerable locations to lightning to be identified by POWERGRID, Checking of Tower footing resistances to be done. Installation of Line LA are to be expedicted.													
NERLDC/GD/ 17/04/042	132 kV Lekhi - Nirjuli 1 Line	DoP,AP & POWERGRID	DoP A P POW/FPC PID									No	No	No	No SPS
Root Cause					Tripped due	to infringement	in the LILO se	ction.							
Remedial- Measures					Vegetation in	fringement to b	e cleared by Do	P, AP							
NERLDC/GD/ 17/04/043	132 kV Lekhi - Nirjuli 1 Line	DoP,AP & POWERGRID	DoP ,AP	POWERGRID	27-04-2017 20:58:00	27-04-2017 21:07:00	No tripping	Tripped	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Tripped due	to infringement	in the LILO se	ction.							

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures					Vegetation in	fringement to be	e cleared by Do	P, AP							
NERLDC/GD/ 17/04/044	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	28-04-2017 03:51:00	28-04-2017 04:13:00	No tripping	DP, ZIII, R- B-E	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/044	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	28-04-2017 03:51:00	28-04-2017 04:15:00	No tripping	DP, ZIII, R- B-E	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Due to inclement	t weather conditio	on, 132 kV Khlie	hriat - Leshka-I	line tripped. Due to	problem in tripp	ing coil of CB	at Khliehriat()	MePTCL) of]	Leshka-I feede	r, fault	was c	leared a	t Khlie	hriat(PG).
Remedial- Measures					Already r	ectified as inform	med by MePT(CL							
NERLDC/GD/ 17/04/045	132 kV Loktak - Rengpang 1 Line	MSPCL	NHPC	MSPCL	28-04-2017 09:38:00	28-04-2017 10:06:00	DP, Z1	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rej subm withi Ho	port itted n 24	DR & subm withi Ho	itted in 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Fault	t in the line due	to infrigment								
Remedial- Measures		Vegetation clearance to be done by MSPCL.													
NERLDC/TL/1 7/04/115	132 kV AGTPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	28-04-2017 16:55:00	28-04-2017 17:04:00	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Likely due to inst	tatanous over cu	rrent settings a	at AGTPP	-			_			
Remedial- Measures				Over Current S	ettings at AGTPP is	to be reviewed.	instantaneous	element to be	disabled if an	y					
NERLDC/TL/1 7/04/116	400 kV Azara - Silchar 1 Line	NETC & AEGCL	AEGCL	POWERGRID	28-04-2017 18:42:00	28-04-2017 19:17:00	DP, ZI, B-E, Main-II operated	Tripped	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					High ro	esistive fault du	e to vegetation								

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures				Thorough	patrolling to be don	e by NETC as s	ame type of fau	lt repeated ma	any times.						
NERLDC/TL/1 7/04/117	400 kV Bongaigaon - Killing (Byrnihat) 1 Line	NETC & MePTCL	POWERGRID	MePTCL	28-04-2017 18:58:00	28-04-2017 19:48:00	DP, ZII, Y-E	Not Furnished	Not furnished	Not Applicable	No	No	No	No	No SPS
Root Cause		DR from	m Bongaigaon ine	dicates Y-E fault	with fault current o	f 1.7 kA with an	gle between Vy	* & Iy around	81 degrees. Li	ikely due to ligl	htning	fault.			
Remedial- Measures					Installation	of TLSA by NE	TC to be exped	icted.							
NERLDC/GD/ 17/04/046	400 kV Silchar- Byrnihat Line	NETCL & MePTCL	POWERGRID	MePTCL	28-04-2017 19:10:00	28-04-2017 20:07:00	DP, B-N, Z2, DT Received	Directional Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/046	220 kV Killing (Byrnihat) - Misa 1 Line	MePTCL	MePTCL	POWERGRID	28-04-2017 19:10:00	28-04-2017 20:11:00	DP, YB ph	DP, Z2, RYB ph	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/046	220 kV Killing (Byrnihat) - Misa 2 Line	MePTCL	MePTCL	POWERGRID	28-04-2017 19:11:00	28-04-2017 20:15:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/046	132 kV Haflong- Jiribam Line	POWERGRID	POWERGRID	POWERGRID	28-04-2017 19:11:00	28-04-2017 20:06:00	No tripping	Overcurrent	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/046	132 kV Badarpur- Khliehriat Line	POWERGRID	POWERGRID	POWERGRID	28-04-2017 19:11:00	28-04-2017 19:38:00	No tripping	Overcurrent	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/046	132 kV Dimapur- Imphal Line	POWERGRID	POWERGRID	POWERGRID	28-04-2017 19:10:00	28-04-2017 19:35:00	No tripping	Overcurrent	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/046	220 kV Misa- Dimapur I Line	POWERGRID	POWERGRID	POWERGRID	28-04-2017 19:10:00	28-04-2017 19:36:00	86Z, 186 A & B	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/046	220 kV Misa- Dimapur II Line	POWERGRID	POWERGRID	POWERGRID	28-04-2017 19:10:00	28-04-2017 19:52:00	86Z, 186 A & B	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/046	220 kV Misa-Kopili I Line	POWERGRID	POWERGRID	POWERGRID	28-04-2017 19:10:00	28-04-2017 19:53:00	86Z, 186 A & B	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GD/ 17/04/046	220 kV Misa-Kopili II Line	POWERGRID	POWERGRID	POWERGRID	28-04-2017 19:10:00	28-04-2017 20:18:00	86Z, 186 A & B	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/046	220 kV Misa- Samaguri I Line	POWERGRID	POWERGRID	POWERGRID	28-04-2017 19:10:00	28-04-2017 19:50:00	86Z, 186 A & B	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/046	220 kV Misa- Samaguri II Line	POWERGRID	POWERGRID	POWERGRID	28-04-2017 19:10:00	28-04-2017 19:50:00	86Z, 186 A & B	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/046	400/220 kV Misa ICT-2	POWERGRID	POWERGRID	POWERGRID	28-04-2017 19:10:00	28-04-2017 19:51:00	Tripped LV side, Busbar protection optd.	-	Not Applicable	-	No	-	No	-	No SPS
NERLDC/GD/ 17/04/046	400 kV Silchar- Palatana I Line	NETCL	POWERGRID	OTPCL	28-04-2017 19:18:00	28-04-2017 20:13:00	SPS-3 operated	Handtripped	Not Applicable	Not Applicable	No	No	No	No	SPS-3 operated
NERLDC/GD/ 17/04/046	400 kV Silchar- Palatana II Line	NETCL	POWERGRID	OTPCL	28-04-2017 19:18:00	28-04-2017 19:39:00	SPS-3 operated	Handtripped	Not Applicable	Not Applicable	No	No	No	No	SPS-3 operated
Root Cause	Lightning fault. Aut	to recloser at Byr		0	nand is being sent to 3-Phase circuit brea				-	•	OWER	GRII	D, there	is a sta	age-2 low SF6

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation of	f Auto Reclose	Prelin y rep submi within Hou	ort tted 1 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures	Circuit breaker l	Low SF-6 pressur	re issue at Byrnih	at is to be rectifie	d by MePTCL at th substation	e earliest. Instal to be furnished		•	be expedicted.	Reason for LI	BB oper	ation	at 220 I	xV Bus	-1 at Misa
NERLDC/TL/1 7/04/118	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	POWERGRID	POWERGRID	28-04-2017 19:42:00	21-04-2017 20:50:00	Fire fighting system maloperated	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		HVDC Imaloperated Furthistical Applicable Applicable Reffered to NLDC													
Remedial- Measures						-									
NERLDC/TL/1 7/04/119	400 kV Killing (Byrnihat) - Silchar 1 Line	NETC & MePTCL	MePTCL	POWERGRID	28-04-2017 22:14:00	28-04-2017 23:13:00	DP, ZI	DP, ZI, R-Y- E	Not Applicable	Not Applicable	No	Yes	No	Yes	No SPS
Root Cause	Lightning fault. Aut	to recloser at Byr		0	nand is being sent to 3-Phase circuit brea				· -	•	OWER	GRII), there	is a sta	age-2 low SF6
Remedial- Measures		Circuit	breaker Low SF	-6 pressure issue	at Byrnihat is to be	rectified by Mel	PTCL at the ea	rliest. Installat	tion of TLSA	by NETC to be	expedi	cted.			

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operation o	f Auto Reclose	Prelin y rep submi within Hou	ort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/120	132 kV Khandong - Khliehriat 2 Line	POWERGRID	NEEPCO	POWERGRID	28-04-2017 23:22:00	28-04-2017 23:35:00	DP, ZI, R-Y- B-E	DP, ZII, R- Y-E	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Conductor snap at Loc 115-116 due to falling of tree													
Remedial- Measures		Rectified as informed by POWERGRID													
NERLDC/TL/1 7/04/121	132 kV Badarpur - Khliehriat 1 Line	POWERGRID	POWERGRID	POWERGRID	28-04-2017 23:32:00	28-04-2017 23:48:00	DP, ZII, R-E	DP, ZI, R-E	Not furnished	Not furnished	No	No	No	No	No SPS
Root Cause	DR from Badarp	ur shows R-E fau		,	formation in voltage for Vr peak and sude	0		0			s R-E fa	ault w	ith fault	t curre	nt up to 1.9
Remedial- Measures		Vulnerable loca	tions to lightning	to be identified	by POWERGRID, C	Checking of Tow	er footing resis	stances to be d	one. Installati	on of Line LA	are to t	oe exp	edicted.		
NERLDC/TL/1 7/04/122	132 kV Badarpur - Silchar 2 Line	POWERGRID	POWERGRID	POWERGRID	28-04-2017 22:15:00	28-04-2017 22:37:00	DP, ZIII, R- Y-E	No tripping	Not Applicable	Not Applicable	No	Yes	No	Yes	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation of	² Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause				Mal-op	eration of DPR at B	adarpur.Fault w	vas in 400 kV S	ichar-Byrniha	ıt line.						
Remedial- Measures					DPR settings at Ba	ndarpur to be re	viewed by POV	VERGRID.							
NERLDC/TL/1 7/04/123	220 kV Azara - Boko 1 Line	LARGEL LARGEL LARGEL LARGEL LARGEL LARGEN AND NO LNO LNO LNO LNO LNO LNO LNO LNO LNO													
Root Cause					DR & Relay inc	lications are not	furnished by 2	AEGCL.							
Remedial- Measures			•	• 0	t Azara,Samaguri, S ipping only at one er	•	,	,		•					
NERLDC/TL/1 7/04/124	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	29-04-2017 20:31:00	29-04-2017 20:38:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause			Tripping of 132	kV Agartala - A	AGTPP D/C Lines du	ıe to ill-coordina	ntion of relay se	ettings at AGT	CCPP.Fault	in Tripura syst	em.	-			

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be Furnished by Event of restoration Relay indications Operation of Auto Recio										DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures	Subroup requested I	NEEPCO to revie	0		nsulatation with PO TSECL may furnish			,	• 0		om 79 1	Filla	and dov	vnstrea	m elements at
NERLDC/TL/1 7/04/125	132 kV Silchar - Hailakandi 1 Line	I POWFRCRID I POWFRCRID I AFCCI I I I I I I I I I I I I I I I I I I													
Root Cause		akandi I Line 23:20:00 23:55:00 And the second seco													
Remedial- Measures					Downstream R	elay cordination	to be done by	AEGCL							
NERLDC/TL/1 7/04/126	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	29-04-2017 20:31:00	29-04-2017 20:37:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause			Tripping of 132	kV Agartala - A	AGTPP D/C Lines d	ue to ill-coordina	ation of relay so	ettings at AGT	CCPP.Fault	in Tripura syst	em.				
Remedial- Measures	Subroup requested 1	NEEPCO to revie	0		nsulatation with PO TSECL may furnish			,	• 0		om 79 1	Filla	and dov	vnstrea	m elements at

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/TL/1 7/04/127	132 kV Dimapur - Doyang 1 Line	POWERGRID	POWERGRID	NEEPCO	30-04-2017 01:35:00	30-04-2017 01:44:00	DP, ZI, R-E	Not Furnished	Not Furnished	Not Applicable	No	No	No	No	No SPS
NERLDC/TL/1 7/04/128	132 kV Dimapur - Doyang 2 Line	POWERGRID	POWERGRID	NEEPCO	30-04-2017 01:35:00	30-04-2017 07:27:00	DP, ZI, R-E	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Fault due to vegetation infringment.													
Remedial- Measures		Relay set	tings at Dimapur	& Doyang end f	or 132 kV Dimapur-	Doyang D/C line	es to be checked	d & coordinat	ed by POWEI	RGRID & DHI	EP, NE	EPCO).		
NERLDC/GD/ 17/04/047	132 kV Imphal (Manipur) - Imphal (PG) 1 Line	POWERGRID	MSPCL	POWERGRID	30-04-2017 02:37:00	30-04-2017 02:46:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/047	132 kV Imphal (Manipur) - Imphal (PG) 2 Line	MSPCL & POWERGRID	MSPCL	POWERGRID	30-04-2017 02:37:00	30-04-2017 13:53:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Downstream	fault								

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be Furnished by Event of restoration Relay indications Operation of Auto Reclose								Prelin y rep submi withi Hou	oort itted n 24	DR & subm withi Ho	iitted in 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures		Di	rectionality feat	ure of EF relay at	: Imphal(MSPCL) to) be checked by	MSPCL. Down	stream Relay	cordination t	o be done by M	SPCL				
NERLDC/GD/ 17/04/048	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	30-04-2017 23:50:00	01-05-2017 00:25:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/048	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	30-04-2017 23:50:00	01-05-2017 00:18:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/GD/ 17/04/048	132 kV AGTPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	30-04-2017 23:50:00	01-05-2017 00:19:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		ill coordination of relay settings at AGTCCPP													
Remedial- Measures		DR to be furnis	hed by AGTCC	PP. Relay settings	at AGTCCPP,Kun	arghat,Agartala	a to be reviewed	d by NEEPCO) in consultati	on with POWE	CRGRI	D & T	SECL.		

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep submi withi Hou	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GI/1 7/04/010	AGTPP Unit 3	P Unit 3 NEEPCO NEEPCO - 24-04-2017 24-04-2017 Temperature high - Not Applicable - No - No - No SPS													
Root Cause		Cooling tower fan tripped													
Remedial- Measures						Rectified	I								
NERLDC/GI/1 7/04/011	AGTPP Unit 3	NEEPCO	NEEPCO	-	25-04-2017 02:05:00	29-04-2017 17:02:00	Generator stator E/F	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause		02:05:00 17:02:00 stator E/F Applicable Water entered in bus duct													
Remedial- Measures						Rectified	I								

Event ID	element Owner Event of restoration										Prelin y rep submi withi Hou	oort itted n 24	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GI/1 7/04/012	H/I AGTPP Unit 1 NEEPCO NEEPCO - 25-04-2017 17:37:00 25-04-2017 18:01:00 Low Voltage - Not Applicable							-	No	-	No	-	No SPS		
Root Cause		Desynchrinized due to low voltage													
Remedial- Measures		Issue in Tripura system. TSECL may identify the low voltage nodes in their system and installation of Capacitor banks to be expedicted.													
NERLDC/GI/1 7/04/013	AGTPP Uni	1 NEEPCO	NEEPCO	-	26-04-2017 20:40:00	27-04-2017 10:12:00	Due to lube oil high temp.	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause					Tr	ipping of cooling	g tower fan								
Remedial- Measures						Rectified									
NERLDC/GI/1 7/04/014	AGTPP Uni	1 NEEPCO	NEEPCO	-	28-04-2017 16:53:00	28-04-2017 16:55:00	27-Under voltage relay, 59 relay	-	Not Applicable	-	No	-	No	-	No SPS

Event ID	ट्रिपिंग तत्वका नाम / Name of tripping element	मालिक / Line Owner	Data To Be l	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation of	f Auto Reclose	Prelin y rep subm withi Hot	oort itted n 24	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/GI/1 7/04/014	AGTPP Unit 4	16:53:00 16:57:00 ; 51G- Overcurrent Applicable								-	No	-	No	-	No SPS
Root Cause		Unit desysnchronized due to low voltage													
Remedial- Measures		Iss	ue in Tripura sys	stem. TSECL ma	y identify the low vo	ltage nodes in tl	neir system and	installation o	f Capacitor ba	anks to be expe	dicted.				
NERLDC/GI/1 7/04/015	AGTPP EXTN Unit STG-2	NEEPCO	NEEPCO	-	28-04-2017 17:23:00	29-04-2017 11:03:00	Tripped due to main steam pressure low	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause						Due to tripping	of GTG								
Remedial- Measures						-									

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subm withi	ort nitted	with	nitted	Details of SPS operatio n
	А-Епа б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 01	132 kV Khandong - Khliehriat 1 Line	POWERGRID	NEEPCO	POWERGRID 01-05-2017 00:12:00 01-05-2017 00:25:00 Earth Fail Vegetation fault		Earth Fault	DP, ZI, R-B- E	Not Applicable	Not Applicable	No	No	No	No	No SPS	
Root Cause	Vegetation fault														
Remedial- Measures		Vegetation clearance to be done by POWERGRID													
NERLDC/ TL/17/05/0 02	132 kV Khandong - Kopili 1 Line	POWERGRID	NEEPCO	NEEPCO	01-05-2017 00:12:00	01-05-2017 00:32:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Mal	-operation of rel	ay at Khando	ong							
Remedial- Measures			:	Earth Fault Setti	ings at Khandon	ng to be reviewed	l. instantaneo	us element to	be disabled i	f any					
NERLDC/ TL/17/05/0 03	132 kV Imphal - Silchar 1 Line	POWERGRID	POWERGRID	POWERGRID	01-05-2017 00:42:00	01-05-2017 00:47:00	No tripping	DP, ZI, R-E	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	on of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ella D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause						Tripped due to	Lightning								
Remedial- Measures	v	Vulnerable locations to lightning to be identified by POWERGRID, Checking of Tower footing resistances to be done. If required, Line LA are to be installed.													
NERLDC/ TL/17/05/0 04	01.05.2017 $01.05.2017$ Not												No SPS		
Root Cause						Tripped due to	Lightning								
Remedial- Measures	Vul	nerable location	s to lightning to	be identified by	POWERGRID), Checking of To	wer footing r	esistances to b	oe done. Inst	allation of Li	ne LA :	are to b	e exped	licted.	
NERLDC/ TL/17/05/0 05	400 kV Balipara - Misa 1 Line	POWERGRID	POWERGRID	POWERGRID	01-05-2017 00:55:00	01-05-2017 01:29:00	DP, ZI, Y-E	DP, ZI, Y-E	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Tripped due to	Lightning								

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ellu B)	End A End B End A End B End A										End B	End A	End B	END A
Remedial- Measures	v	Vulnerable locations to lightning to be identified by POWERGRID, Checking of Tower footing resistances to be done. If required, Line LA are to be installed.													
NERLDC/ GD/17/05/ 001	132 kV Lekhi - Nirjuli 1 Line														
Root Cause		Infringement in the LILO section													
Remedial- Measures					vegetation	infringement to	be cleared by	7 DoP,AP.							
NERLDC/ GD/17/05/ 002	132 kV Loktak - Rengpang 1 Line	MSPCL	NHPC	MSPCL	01-05-2017 03:20:00	02-05-2017 15:11:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Vegetation	n fault								
Remedial- Measures					Vegetat	ion clearance to	be done by M	ISPCL							

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-Епа Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 06	400 kV Bongaigaon - New Siliguri (Binaguri) 4 Line	POWERGRID	POWERGRID	POWERGRID	01-05-2017 16:59:00	01-05-2017 17:20:00	DP, ZII, Y-E	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Referred to NLDC													
Remedial- Measures	-														
NERLDC/ TL/17/05/0 07	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	01-05-2017 21:30:00	01-05-2017 21:41:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 08	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	TSECL	NEEPCO	01-05-2017 21:30:00	01-05-2017 22:00:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					ill coordi	ination of relay s	ettings at AG	ТССРР							
Remedial- Measures	DF	to be furnished	by AGTCCPP	. Relay settings a	nt AGTCCPP,K	umarghat,Agart	ala to be revie	ewed by NEEI	PCO in const	iltation with	POWE	RGRID) & TSI	ECL.	

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	subn with	ort nitted	DR & subn with Ho	nitted	Details of SPS operatio n
	A-Enu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 09	132 kV AGTCCPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	01-05-2017 23:43:00	01-05-2017 23:47:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	ill coordination of relay settings at AGTCCPP														
Remedial- Measures	DF	to be furnished	by AGTCCPP	. Relay settings a	t AGTCCPP,Kı	umarghat,Agart	ala to be revie	ewed by NEEF	PCO in consu	ultation with	POWE	RGRID	& TSI	ECL.	
NERLDC/ TL/17/05/0 10	132 kV Aizawl - Kumarghat 1 Line	POWERGRID	POWERGRID	POWERGRID	01-05-2017 23:39:00	01-05-2017 23:57:00	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause						Tripped due to	Lightning								
Remedial- Measures				Lin	e LA are alread	y installed. AR f	acility at bot	h is to be chec	ked.						
NERLDC/ GD/17/05/ 003	132 kV Aizawl - Zungtui 1 Line	POWERGRID	POWERGRID	P & ED Mizoram	02-05-2017 00:18:00	02-05-2017 00:35:00	DP, ZI, Y-E	Not Furnished	Not Furnished	Not Furnished	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	1	on of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ella D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause	Tripped due to Lightning														
Remedial- Measures	v	Vulnerable locations to lightning to be identified by POWERGRID, Checking of Tower footing resistances to be done. If required, Line LA are to be installed.													
NERLDC/ TL/17/05/0 11	132 kV Haflong - Umranshu 1 Line	POWERGRID & AEGCL	POWERGRID	AEGCL	02-05-2017 02:10:00	02-05-2017 02:45:00	DP, ZI, R-E	Not Furnished	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause						Tripped due to	Lightning								
Remedial- Measures	v	ulnerable locati	ons to lightning	to be identified	by POWERGR	ID, Checking of	Tower footing	g resistances t	o be done. If	f required, Li	ne LA	are to b	e instal	led.	
NERLDC/ TL/17/05/0 12	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	02-05-2017 10:55:00	02-05-2017 10:59:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					ill coordi	nation of relay s	ettings at AG	ТССРР							

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	oort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Enu D)		End A End B End A End A								End A	End B	End A	End B	END A
Remedial- Measures	DR to be furnished by AGTCCPP. Relay settings at AGTCCPP. Kumarghat Agartala to be reviewed by NEEPCO in consultation with POWERGRID & TS) & TSI	ECL.			
NERLDC/ TL/17/05/0 13	132 kV South Comilla - Surajmani Nagar 2 Line	POWERGRID Company of Bangladesh	Bangladesh	TSECL	02-05-2017 13:13:00	02-05-2017 13:43:00	No tripping	Tripped	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Tripped on O/C at Surjamaninagar probably due to over loading													
Remedial- Measures						Referred to	NLDC								
NERLDC/ TL/17/05/0 14	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	03-05-2017 09:55:00	03-05-2017 10:02:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 15	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	TSECL	NEEPCO	03-05-2017 09:55:00	03-05-2017 10:04:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					ill coordi	ination of relay s	ettings at AG	ТССРР							

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications		on of Auto close	rep subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Enu B)		End A	End B	End B	End A	End B	End A	End B	End A	End B	END A			
Remedial- Measures	DR to be furnished by AGTCCPP. Relay settings at AGTCCPP. Kumarghat Agartala to be reviewed by NEEPCO in consultation with PC										POWE	ERGRID) & TSI	ECL.	
NERLDC/ GD/17/05/ 004	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	03-05-2017 10:20:00	03-05-2017 17:32:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 004	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	TSECL	NEEPCO	03-05-2017 10:20:00	03-05-2017 12:45:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					ill coordi	nation of relay s	ettings at AG	ТССРР							
Remedial- Measures	DF	R to be furnished	by AGTCCPP	. Relay settings a	it AGTCCPP,Ki	umarghat,Agart	ala to be revie	ewed by NEEI	PCO in cons	ultation with	POWE	CRGRID) & TS]	ECL.	
NERLDC/ TL/17/05/0 16	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	POWERGRID	POWERGRID	03-05-2017 20:25:00	03-05-2017 22:01:00	Not Furnished	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					DC Ha	rmonic protectio	on operated at	t BNC							

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	subn with	ort nitted	DR & subr with Ho	nitted	Details of SPS operatio n
	A-Enu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures						Referred to	NLDC								
NERLDC/ TL/17/05/0 17	400 kV Balipara - Bongaigaon 2 Line	POWERGRID	POWERGRID	POWERGRID	05-05-2017 03:11:00	05-05-2017 03:28:00	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause		Vegetation fault													
Remedial- Measures					Vegetation	clearance to be	done by POW	/ERGRID							
NERLDC/ TL/17/05/0 18	132 kV Haflong - Umranshu 1 Line	POWERGRID & AEGCL	POWERGRID & AEGCL	AEGCL	05-05-2017 05:13:00	05-05-2017 16:42:00	Earth Fault	DP, ZI, R-E, 8.7 Kms	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause															
Remedial- Measures				N	egetation clear	ance to be done	by POWERG	RID & AEGC	L						

Event ID	Name of tripping element (End	bripping nent (End A-End B) Data To Be Furnished Data To Be Furnished			Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	subn with	ort nitted	DR & subr with Ho	itted	Details of SPS operatio n
	A-Ellu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 19	132 kV Badarpur - Khliehriat 1 Line	POWERGRID	POWERGRID	POWERGRID	05-05-2017 07:30:00	05-05-2017 07:54:00	DP, ZI, Y-E	DP, ZI, Y-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	Tripped due to Lightning														
Remedial- Measures	Auto recloser	not attempted a	t both ends to b	e checked by PO	WERGRID. TL	SA already insta POWER(•	'ERGRID at s	elected locat	ions. 100% w	vill be c	overed s	shortly	as infor	med by
NERLDC/ TL/17/05/0 20	400 kV Killing (Byrnihat) - Silchar 1 Line	NETC ; MePTCL	MePTCL	POWERGRID	05-05-2017 09:46:00	05-05-2017 10:51:00	DP, ZI, R-E	DP, ZII, Y-B- E	Not Furnished	Not Furnished	No	Yes	No	Yes	No SPS
Root Cause	Lightning fault.	Auto recloser at		t working and D' F6 pressure issue								ned by F	POWEI	RGRID,	there is a
Remedial- Measures		Circuit breaker Low SF-6 pressure issue at Byrnihat is to be rectified by MePTCL at the earliest. Installation of TLSA by NETC to be expedicted.													
NERLDC/ TL/17/05/0 21	220 kV Mariani (PG) - Mokokchung (PG) 2 Line	POWERGRID	POWERGRID	POWERGRID	05-05-2017 10:50:00	05-05-2017 16:07:00	DP, ZII, R- Y-E	DP, ZI, R-Y- E	Not Furnished	Not Furnished	No	No	No	No	No SPS

Event ID	Name of tripping element (End	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	1	on of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-End B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause	Vegetation fault														
Remedial- Measures		Vegetation clearance to be done by POWERGRID													
NERLDC/ TL/17/05/0 22	132 kV Khandong - Khliehriat 1 Line	POWERGRID	NEEPCO	POWERGRID	05-05-2017 13:00:00	05-05-2017 13:21:00	DP, ZI, R-Y- B	Earth Fault	Not Furnished	Not Applicable	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 23	132 kV Khandong - Khliehriat 2 Line	POWERGRID	NEEPCO	POWERGRID	05-05-2017 13:00:00	05-05-2017 13:19:00	DP, ZIII, R- Y-B	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause			Tripped due	to Lightning. Tri	ipping of 132 kV	/ Khandong - Kl	nliehriat 2 Lir	ne at Khandon	g to be revie	ewed by NEE	PCO.				
Remedial- Measures	Auto recloser	Auto recloser not attempted at both ends to be checked by POWERGRID. TLSA already installed by POWERGRID at selected locations. 100% will be covered shortly as informed by POWERGRID.													
NERLDC/ GD/17/05/ 005	132 kV Balipara - Khupi 1 Line	NEEPCO & DoP, AP	POWERGRID	DoP, Arunachal Pradesh	05-05-2017 16:02:00	05-05-2017 16:30:00	DP, ZI, R-B	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-ЕПЦ В)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause						Vegetation	n fault								
Remedial- Measures		Vegetation clearance to be done by NEEPCO & DoP,AP													
NERLDC/ TL/17/05/0 24	Badarpur = 0.5-0.5-7017 Not Not										No SPS				
Root Cause															
Remedial- Measures	Auto recloser	not attempted a	t both ends to b	e checked by PO	WERGRID. TL	SA already insta POWER(•	'ERGRID at s	elected locat	ions. 100% w	vill be c	overed	shortly	as infor	med by
NERLDC/ TL/17/04/0 25	132 kV AGTCCPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	05-05-2017 22:46:00	05-05-2017 22:53:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Likely due to i	instatanous Eart	h Fault settin	gs at AGTPP							

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	ndications		n of Auto close	subn with	ninary oort nitted in 24 ours	subr with	& EL nitted iin 24 ours	Details of SPS operatio n
	A-End B) End A End B End A End B										End A	End B	End A	End B	END A
Remedial- Measures				Earth fault Set	tings at AGTPP	to be reviewed.	instantaneou	s element to be	e disabled if	any					
NERLDC/ TL/17/05/0 26	400 kV Palatana - Silchar 2 Line	NETCL	NETCE OTPOT POWERGRIDE DP ZEREEDP ZERE											SPS not operated	
Root Cause		Lightning fault.													
Remedial- Measures		Circuit bre	aker Low SF-6	pressure issue at	Byrnihat is to l	oe rectified by M	ePTCL at the	e earliest. Insta	allation of T	LSA by NET	C to be	expedio	cted.		
NERLDC/ GD/17/05/ 005	132 kV Dimapur (PG) - Kohima 1 Line	DoP, Nagaland	POWERGRID	DoP, Nagaland	06-05-2017 12:54:00	06-05-2017 13:01:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Vegetation fault													
Remedial- Measures					Vegetation	clearance to be o	done by DoP,	Nagaland.							

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	subm withi	ort nitted	DR & subm with Ho	nitted	Details of SPS operatio n
	А-ЕПО Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 27	400 kV Bongaigaon - Alipurduar 2 Line	ENICL	POWERGRID	POWERGRID	06-05-2017 16:39:00	06-05-2017 16:54:00	DP, ZII, Y-E	Not Furnished	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause	Referred to NLDC														
Remedial- Measures						-									
NERLDC/ TL/17/05/0 28	400 kV Balipara - Bongaigaon 1 Line	POWERGRID	POWERGRID	POWERGRID	06-05-2017 18:08:00	06-05-2017 18:13:00	DP, ZII, R-E	DP, ZI, R-E	Successful operation	Not Furnished	No	No	No	No	No SPS
Root Cause						Tripped due to	Lightning								
Remedial- Measures	Auto recloser no	ot attempted at b	palipara end to l	be checked by PC		ulnerable locatio f required, Line			ied by POW	/ERGRID, C	heckinş	g of Tov	ver foot	ing resis	stances to
NERLDC/ TL/17/05/0 29	132 kV Badarpur - Khliehriat 1 Line	POWERGRID	POWERGRID	POWERGRID	06-05-2017 22:25:00	06-05-2017 23:05:00	DP, ZI, Y-E	DP, ZII, Y-E	Not Furnished	Not Furnished	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	1	n of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Eliu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause	Tripped due to Lightning														
Remedial- Measures	Auto recloser	Auto recloser not attempted at both ends to be checked by POWERGRID. TLSA already installed by POWERGRID at selected locations. 100% will be covered shortly as informed by POWERGRID.													
NERLDC/ TL/17/05/0 30	132 kV Badarpur - Kumarghat 1 Line	POWERGRID	POWERGRID	POWERGRID	06-05-2017 22:25:00	06-05-2017 22:45:00	No tripping	DP, ZII, Y-E	Not Applicable	Not applicable	No	No	No	No	No SPS
Root Cause						Tripped due to	Lightning								
Remedial- Measures	Auto reclo	ser not attempte	d at Kumargha	t end to be check r	-	GRID. Vulnerab done. If required				by POWER	GRID,	Checkii	ng of To	ower foo	ting
NERLDC/ TL/17/05/0 31	400 kV Killing (Byrnihat) - Silchar 1 Line	NETC & MePTCL	MePTCL	POWERGRID	06-05-2017 22:44:00	06-05-2017 22:59:00	DP, ZI, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	Lightning fault.	Auto recloser at		t working and D' F6 pressure issue								ned by I	POWEI	RGRID,	there is a

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications		n of Auto close	reț subn with	ninary oort nitted in 24 ours	with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ellu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures		Circuit brea	aker Low SF-6	pressure issue at	t Byrnihat is to l	pe rectified by M	ePTCL at the	e earliest. Inst	allation of T	LSA by NET	C to be	expedio	cted.		
NERLDC/ GD/17/05/ 007	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	07-05-2017 15:21:00	06-05-2017 15:27:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 007	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	TSECL	NEEPCO	07-05-2017 15:21:00	07-05-2017 15:28:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	ill coordination of relay settings at AGTCCPP														
Remedial- Measures	DF	X to be furnished	by AGTCCPP	. Relay settings a	nt AGTCCPP,K	umarghat,Agart	ala to be revio	ewed by NEEI	PCO in const	ıltation with	POWE	ERGRIE) & TSI	ECL.	

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ellu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 32	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	07-05-2017 15:51:00	07-05-2017 15:56:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	ill coordination of relay settings at AGTCCPP														
Remedial- Measures	DF	t to be furnished	by AGTCCPP	. Relay settings a	nt AGTCCPP,Ki	umarghat,Agart	ala to be revie	ewed by NEEI	PCO in const	iltation with	POWE	RGRID) & TSI	ECL.	
NERLDC/ TL/17/05/0 33	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	TSECL	NEEPCO	07-05-2017 15:51:00	07-05-2017 15:56:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					ill coordi	nation of relay s	ettings at AG	ТССРР							
Remedial- Measures	DF	α to be furnished	by AGTCCPP	. Relay settings a	nt AGTCCPP,Ki	umarghat,Agart	ala to be revio	ewed by NEEI	PCO in consu	ultation with	POWE	RGRID) & TSI	ECL.	

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications		n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-Епа Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ GD/17/05/ 007	132 kV Palatana - Udaipur 1 Line	TSECL	TSECL	TSECL	07-05-2017 15:21:00	07-05-2017 15:35:00	No tripping	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 007	132 kV Monarchak - Rokhia 1 Line	TSECL	NEEPCO	TSECL	07-05-2017 15:21:00	07-05-2017 15:40:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	TSECL may furnish root cause														
Remedial- Measures					_	-									
NERLDC/ TL/17/05/0 34	132 kV Monarchak - Rokhia 1 Line	TSECL	NEEPCO	TSECL	07-05-2017 15:45:00	07-05-2017 16:08:00	No tripping	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Т	'SECL may furn	ish root cause								
Remedial- Measures						-									

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operation Rec	n of Auto lose	rej subi with	minary port nitted nin 24 ours	with	nitted	Details of SPS operatio n					
	A-Eliu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A					
NERLDC/ UI/17/05/0 01	KHANDONG Unit 1	NEEPCO	NEE	EPCO	01-05-2017 00:12:00	01-05-2017 00:53:00	frequency, 60 AVR fuse fa protection rel 1, Class AE	il, Generator ay GR1 Main BC generator	Ν	0	-	No	Ν	10	No SPS					
NERLDC/ UI/17/05/0 02	KHANDONG Unit 2	NEEPCO	NEE	EPCO	01-05-2017 00:12:00	01-05-2017 1:10:00	Overcurrent, over frequency, 60% overspe AVR fuse fail, Generat protection relay GR1 M 1, Class ABC generation		Ν	0		No	Ν	ło	No SPS					
NERLDC/ UI/17/05/0 03	KOPILI ST2 Unit 1	NEEPCO	NEF	EPCO	01-05-2017 00:12:00	01-05-2017 01:28:00	operated, el	lectrical trip	Ν	ίο		No	Ν	lo	No SPS					
Root Cause						Tripping of eva	cuation lines													
Remedial- Measures						-														
NERLDC/ GI/17/05/0 01	AGBPP Unit 2	NEEPCO	NEE	EPCO	01-05-2017 00:03:00	01-05-2017 01:55:00	Gas compres	ssor 2 tripped	Ν	ίο		No	Ν	lo	No SPS					
Root Cause					Due	to ignition fault	n fault & speed hunting													
Remedial- Measures					Spark plug, G	Gas admisssion v	alve & nox se	Spark plug, Gas admisssion valve & nox sensor cleaned												

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications		n of Auto close	Preliminary report submitted within 24 Hours	DR & EL submitted within 24 Hours	Details of SPS operatio n
	А-ЕПО Б)		End A	End B			End A	End B	End A	End B	End A End B	End A End B	END A
NERLDC/ GI/17/05/0 02	PALATANA Unit GTG-1	OTPCL	ΓΟ	PCL	03-05-2017 06:42:00	03-05-2017 09:07:00	High e spread/Statio breaker 0		٦	lo	No	No	SPS not operated
NERLDC/ GI/17/05/0 02	PALATANA Unit STG-1	OTPCL	го	PCL	03-05-2017 06:42:00	03-05-2017 11:04:00	Generation Trij	protection	Ν	lo	No	No	SPS not operated
NERLDC/ GI/17/05/0 02	PALATANA Unit GTG-2	OTPCL	го	PCL	03-05-2017 06:42:00	03-05-2017 10:42:00	Generation Trij	protection oped	No		No	No	SPS not operated
NERLDC/ GI/17/05/0 02	PALATANA Unit STG-2	OTPCL	ΓΟ	PCL	03-05-2017 06:42:00	03-05-2017 13:16:00	Generation Trij	protection pped	И	lo	No	No	SPS not operated
Root Cause					Due to s	station transform	ier breaker pi	roblem					
Remedial- Measures						Rectifi	ed						
NERLDC/ GI/17/05/0 03	PALATANA Unit GTG-1	OTPCL	Ю	PCL	03-05-2017 00:04:00	03-05-2017 15:16:00	Generator	r Prot. trip	Ν	10	No	No	SPS not operated
NERLDC/ GI/17/05/0 03	PALATANA Unit STG-1	OTPCL	го	PCL	03-05-2017 00:05:00	03-05-2017 16:38:00	Generator	r Prot. trip	1	lo	No	No	SPS not operated

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-ЕПА Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause					Due to s	station transform	ner breaker p	roblem							
Remedial- Measures	Keenned														
NERLDC/ GI/17/05/0 04	KHANDONG Unit 1	NEEPCO	NEI	EPCO	05-05-2017 13:00:00	05-05-2017 21:51:00	frequency, 60	gen O/C, Over- 9% overspeed, en		ło	١	чо	Ν	чо	No SPS
NERLDC/ GI/17/05/0 04	KHANDONG Unit 2	NEEPCO	NEI	EPCO	05-05-2017 13:00:00	05-05-2017 13:51:00	frequency, 60	gen O/C, Over- 9% overspeed, en		ίo	١	Чo	Ν	No	No SPS
NERLDC/ GI/17/05/0 04	KOPILI ST2 Unit 1	NEEPCO	NEI	EPCO	05-05-2017 13:00:00	05-05-2017 13:56:00	-	en trip relay rated	Ν	10	Ν	ło	Ν	Чo	No SPS
Root Cause						Tripping of eva	cuation lines								
Remedial- Measures						-									
NERLDC/ TL/17/05/0 35	220 kV BTPS - Salakati 1 Line	POWERGRID	AEGCL	POWERGRID	09-05-2017 10:20:00	09-05-2017 10:50:00	Earth Fault	Tripped, Master Trip relay opearted	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted iin 24 ours	Details of SPS operatio n
	А-Епи Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause					Trip	ped only at BTP	S on earth Fa	ult.							
Remedial- Measures		AEGCL may review the settings at BTPS as this line tripped many times.													
NERLDC/ TL/17/05/0 36	132 kV Gelyphu - Salakati 1 Line	POWERGRID	BPC, Bhutan	POWERGRID	GRID09-05-2017 10:25:0009-05-2017 11:11:00No trippingDP, ZIII, R-B-ENot ApplicableNot ApplicableNoNoNoNoNo										No SPS
Root Cause	10^{2} Bhutan 10^{2} 10^{2} 10^{1} 10^{1} 10^{1} 10^{1} 10^{1} 10^{1} 10^{1} 10^{1} 10^{1}														
Remedial- Measures						-									
NERLDC/ TL/17/05/0 37	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	09-05-2017 12:14:00	09-05-2017 12:19:00	Earth Fault	DP, ZI, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 37	132 kV Agartala - AGTPP 2 Line	00.05.2017 00.05.2017 Not Not												No SPS	
Root Cause					ill coordi	nation of relay s	ettings at AG	ТССРР							

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	rep subn with	ninary port nitted in 24 purs	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-ЕПА Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures	DR	to be furnished	by AGTCCPP.	Relay settings a	t AGTCCPP, K	umarghat, Agart	ala to be revi	ewed by NEE	PCO in cons	ultation with	POW	ERGRII) & TS	ECL.	
NERLDC/ GD/17/05/ 008	132 kV Palatana - Udaipur 1 Line	TSECL	OTPCL	TSECL	09-05-2017 12:14:00	09-05-2017 12:23:00	No tripping	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 008	132 kV Rokhia- Monarchak	TSECL	TSECL	TSECL	09-05-2017 12:14:00	09-05-2017 12:23:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Monarchak Ibbel Ibbel														
Remedial- Measures						-									
NERLDC/ TL/17/05/0 38	132 kV PKBari - Silchar 1 Line	POWERGRID	TSECL	POWERGRID	09-05-2017 12:31:00	09-05-2017 13:01:00	DP, ZI, R-E	DP, ZI, R-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
Root Cause		Silchar 1 Line TOWEKOKID 12:31:00 13:01:00 DT, ZI, K-E DT, ZI, K-E Applicable Furnished No No No No STS													
Remedial- Measures	AR facility a	t both ends to be	checked by re	spective utility. N		ions to lightning iired, Line LA aı		•	RGRID, Che	ecking of Tov	ver foot	ting resi	stances	to be do	one. If

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-ЕПА Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 39	132 kV Dimapur (PG) - Kohima 1 Line	DoP, Nagaland	POWERGRID	DoP, Nagaland	09-05-2017 14:32:00	09-05-2017 14:48:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Vegetation fault														
Remedial- Measures	Vegetation clearance to be done by DoP, Nagaland.														
NERLDC/ TL/17/05/0 40	400 kV Balipara - Biswanath Chariali 2 Line	POWERGRID	POWERGRID	POWERGRID	09-05-2017 14:45:00	09-05-2017 15:15:00	DP, ZII, B-E	DP, ZI, B-E	Not Furnished	Successful operation	No	No	No	No	No SPS
Root Cause						Vegetation	n fault								
Remedial- Measures				Ve	getation clearar	nce to be done by	POWERGR	ID at the earli	est.						
NERLDC/ TL/17/05/0 41	220 kV Samaguri - Sarusajai 2 Line	AEGCL	AEGCL	AEGCL	09-05-2017 13:41:00	09-05-2017 17:35:00	DP, ZI, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	subn with	& EL nitted iin 24 ours	Details of SPS operatio n
	A-Ellu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause						Vegetation	n fault								
Remedial- Measures		400 kV Vegetation clearance to be done by AEGCL at the earliest.													
NERLDC/ TL/17/05/0 42	400 kV Biswanath Chariali - Ranganadi 2 Line	15:08:00 15:38:00 received Eurnished Applicable											No SPS		
Root Cause						Vegetation	n fault								
Remedial- Measures				Ve	egetation clearar	nce to be done by	POWERGR	ID at the earli	est.						
NERLDC/ TL/17/05/0 43	132 kV Dimapur - Doyang 2 Line	POWERGRID	POWERGRID	NEEPCO	09-05-2017 15:58:00	09-05-2017 16:16:00	DP, ZI, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause		Photographs & Patrolling report indicate bamboo branch in bottom cross arm													
Remedial- Measures						Rectif	ied								

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-Епа Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 44	132 kV Dimapur - Doyang 2 Line	POWERGRID	POWERGRID	NEEPCO	09-05-2017 17:05:00	09-05-2017 17:26:00	DP, ZI, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	Photographs & Patrolling report indicate bamboo branch in bottom cross arm														
Remedial- Measures	Rectified														
NERLDC/ TL/17/05/0 45	132 kV Dimapur - Doyang 2 Line	POWERGRID	POWERGRID	NEEPCO	09-05-2017 17:39:00	10-05-2017 00:12:00	DP, ZI, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause				Photogra	phs & Patrollin	g report indicate	bamboo brai	nch in bottom	cross arm						
Remedial- Measures						Rectifi	ed								
NERLDC/ GD/17/05/ 009	132 kV Ranganadi - Ziro 1 Line	POWERGRID	NEEPCO	POWERGRID	09-05-2017 16:48:00	09-05-2017 23:32:00	DP, ZI, R-E	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Tree fell on co	nductor during	storm betwee	n Loc 23 - 24							

Event ID	Name of tripping element (End A-End B) Line Owner Data To Be Furnished by Date & Time of Event Date & Time of Event Date & Time of restoration Relay indications Operation of Auto Reclose											ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-End B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures						Rectifi	ed								
NERLDC/ TL/17/05/0 46	400 kV Biswanath Chariali - Ranganadi 2 Line	POWERGRID	POWERGRID	NEEPCO	09-05-2017 17:53:00	09-05-2017 18:12:00	DP, ZI, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	Line Vegetation fault														
Remedial- Measures					Vegetation	clearance to be	done by POW	ÆRGRID							
NERLDC/ TL/17/05/0 47	132 kV Dimapur - Doyang 2 Line	POWERGRID	POWERGRID	NEEPCO	10-05-2017 07:54:00	10-05-2017 13:29:00	DP, ZI, R-E	DP, ZI, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause		(1/(54)) $(3/(24))$ Hurnished Hurnished													
Remedial- Measures						Rectifi	ed								
NERLDC/ TL/17/05/0 48	132 kV Dimapur (PG) - Kohima 1 Line	DoP, Nagaland	POWERGRID	DoP, Nagaland	10-05-2017 12:52:00	10-05-2017 13:00:00	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS

Event ID	element (End A-End B)										rep subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-ЕЛА В)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause						Vegetation	n fault								
Remedial- Measures		Vegetation clearance to be done by DoP, Nagaland.													
NERLDC/ GD/17/05/ 010	132 kV Balipara - Khupi 1 Line	NEEPCO & DoP, AP	POWERGRID	DoP, AP	10-05-2017 13:27:00	10-05-2017 14:02:00	DP, ZI, R-B- E	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Veg	etation fault (32.	54 Kms,Loc 1	14)							
Remedial- Measures					Vegetation clea	arance to be don	e by DoP, AP	& NEEPCO.							
NERLDC/ TL/17/05/0 49	132 kV Khandong - Khliehriat 1 Line	POWERGRID	NEEPCO	POWERGRID	11-05-2017 12:17:00	11-05-2017 12:38:00	DP, ZI, R-Y- B	DP, ZII, R-E	Not Applicable	Successful operation	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 49	132 kV Khandong - Kopili 1 Line	POWERGRID	NEEPCO	NEEPCO	11-05-2017 12:17:00	11-05-2017 12:36:00	No tripping	DP, ZIII, B-E	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 49	132 kV Khandong - Kopili 2 Line	POWERGRID	NEEPCO	NEEPCO	11-05-2017 12:17:00	11-05-2017 12:50:00	DP, ZI, R-E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Eliu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause	132 Khandong - Khliebriat - I frinned on a susnected vegetation fault. Trinning of Khandong - Konili - 1 & 2 were unwanted.														
Remedial- Measures		Relay settings at Khandong & Kopili to be checked by NEEPCO.													
NERLDC/ TL/17/04/0 50	220 kV Mariani (PG) - Mokokchung (PG) 1 Line	POWERGRID	POWERGRID	POWERGRID	ERGRID12-05-2017 10:40:0012-05-2017 10:56:00Direct Trip receivedEarth FaultNot ApplicableNot ApplicableNoNo										No SPS
Root Cause	()ver Voltage rela	ay at Mariani n	nal-operated. Ov	er Voltage Stage	e-1 initiated & tr	ipped instant	aneously. 5 se	cond delay f	or Over Volta	age Sta	ge-1 not	t follow	ed.	
Remedial- Measures	POW	VERGRID may	review the Over	· Volatge Setting	s at Mariani. Ma	any trippings we	ere occurred i	n the past mor	nths due to in	mproper over	· volatg	ge settin	gs at M	ariani.	
NERLDC/ GD/17/05/ 011	132 kV Monarchak - Udaipur 1 Line	TSECL	NEEPCO	TSECL	12-05-2017 11:08:00	12-05-2017 11:24:00	Over current	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 011	132 kV Monarchak - Rokhia 1 Line	TSECL	NEEPCO	TSECL	12-05-2017 11:08:00	12-05-2017 11:24:00	Over current	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause				Fa	ult in the Tripur	a System. Tripu	ra may intim:	ate the root ca	use.						

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ellu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures						-									
NERLDC/ TL/17/05/0 51	132 kV Agartala - AGTPP 1 Line	POWERGRID	TSECL	NEEPCO	13-05-2017 07:54:00	13-05-2017 08:06:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 51	132 kV Agartala - AGTPP 2 Line	POWERGRID	TSECL	NEEPCO	13-05-2017 07:54:00	13-05-2017 08:08:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					ill coordi	nation of relay s	ettings at AG	ТССРР							
Remedial- Measures	DR	to be furnished	by AGTCCPP.	Relay settings a	t AGTCCPP, K	umarghat, Agart	tala to be revi	ewed by NEE	PCO in cons	ultation with	POWI	ERGRII) & TS	ECL.	
NERLDC/ GD/17/05/ 012	132 kV Jiribam - Loktak 2 Line	POWERGRID	POWERGRID	NHPC	13-05-2017 10:13:00	13-05-2017 10:32:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	Yes	No	No SPS
NERLDC/ GD/17/05/ 012	Loktak Unit 1	NHPC	NHPC	-	13-05-2017 10:13:00	13-05-2017 11:11:00	Over- frequency	-	Not Applicable	-	No	-	No	-	No SPS
NERLDC/ GD/17/05/ 012	Loktak Unit 2	NHPC	NHPC	-	13-05-2017 10:13:00	13-05-2017 10:57:00	Over- frequency	-	Not Applicable	-	No	-	No	-	No SPS
NERLDC/ GD/17/05/ 012	Loktak Unit 3	NHPC	NHPC	-	13-05-2017 10:13:00	13-05-2017 11:24:00	Over- frequency	-	Not Applicable	-	No	-	No	-	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications		n of Auto close	reț subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ellu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause	Tripped for fault beyond protected section. Line hand tripped at Loktak.														
Remedial- Measures		Downstream relay coordination at Jiribam by MSPCL in consultation with POWERGRID													
NERLDC/ TL/17/05/0 52	132 kV Khandong - Khliehriat 1 Line	POWERGRID	NEEPCO	POWERGRID	13-05-2017 13:00:00	13-05-2017 13:06:00	DP, ZI, R-Y- B-E	DP, ZI, B-E	Not Applicable	Successful operation	No	No	No	No	No SPS
Root Cause						Tripped due to	Lightning								
Remedial- Measures	Auto recloser	not attempted at	both ends to b	e checked by PO	WERGRID. TL	SA already insta POWER(ERGRID at s	elected locat	ions. 100% w	vill be c	covered s	shortly	as infor	med by
NERLDC/ TL/17/05/0 53	132 kV Khandong - Khliehriat 2 Line	POWERGRID	NEEPCO	POWERGRID	13-05-2017 13:20:00	13-05-2017 13:28:00	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Successful operation	No	No	No	No	No SPS
Root Cause						Tripped due to	Lightning								
Remedial- Measures	Auto recloser	not attempted at	both ends to b	e checked by PO	WERGRID. TL	SA already insta POWER(•	ERGRID at s	elected locat	ions. 100% w	vill be c	covered s	shortly	as infor	med by

Event ID	element (End of Event of restoration A-End B)										subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
										End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 54	220 kV BTPS - Salakati 1 Line	POWERGRID	POWERGRID	AEGCL	13-05-2017 22:22:00	13-05-2017 23:25:00	AR unsuccessful and tripped	DP, ZII, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 54	220 kV BTPS- Salakati 2 Line	POWERGRID	POWERGRID	AEGCL	13-05-2017 22:22:00	13-05-2017 23:25:00	Y-E, Z1, E/F Y ph CT burst	DP, ZII, Y-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	Y phase CT burst														
Remedial- Measures						Rectifi	ed								
NERLDC/ TL/17/05/0 55	220 kV BTPS - Salakati 1 Line	POWERGRID	POWERGRID	AEGCL	14-05-2017 00:18:00	14-05-2017 01:09:00	AR unsuccessful and tripped	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Tripped due to fault beyond line													
Remedial- Measures					Installation	of differential p	rotection to be	e expedicted							
NERLDC/ TL/17/05/0 56	132 kV AGTPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	14-05-2017 06:14:00	14-05-2017 06:23:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	reț subn with	ninary oort nitted in 24 ours			Details of SPS operatio n
	A-Ellu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause					Likely due to in	istantaneous Ear	th Fault setti	ngs at AGTPP							
Remedial- Measures		400 kV													
NERLDC/ TL/17/05/0 57	400 kV Palatana - Silchar 2 Line	NETCL	OTPCL	POWERGRID	14-05-2017 09:33:00	14-05-2017 10:04:00	DP, ZI, R-B	DP, ZI, R-B	Not Applicable		Yes	No	Yes	No	SPS not operated
Root Cause	Temporarily	(19:33:00 10:04:00 Applicable Applicable Operated													
Remedial- Measures					Extra c	are to be taken v	vhile OPGW	works.							
NERLDC/ TL/17/05/0 58	220 kV BTPS - Salakati 1 Line	POWERGRID	POWERGRID	AEGCL	14-05-2017 18:03:00	#######################################	B-E, Over- current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					T	ripped due to fat	llt beyond lin	e							
Remedial- Measures		DPR set	tings at BTPS t	to be reviewd by	AEGCL in cons	ultation with PC	WERGRID.	Installation o	f differentia	l protection t	o be ex	pedicted	1		

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	subn with	ort	with	nitted	Details of SPS operatio n
	А-Епа Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ GI/17/05/0 05	AGTCCPP Unit 2	NEEPCO	NEEPCO	-	14-05-2017 02:59:00	14-05-2017 10:38:00	Gas Detection Level High	-	Not Applicable	-	No	-	No	-	No SPS
NERLDC/ GI/17/05/0 05	AGTCCPP EXTN STG-1	NEEPCO	NEEPCO		14-05-2017 02:59:00	14-05-2017 12:16:00	Gas Detection Level High	-	Not Applicable	-	No	-	No	-	No SPS
Root Cause	Gas leackage detected														
Remedial- Measures		Rectified													
NERLDC/ TL/17/05/0 59	132 kV Aizawl - Kumarghat 1 Line	POWERGRID	POWERGRID	POWERGRID	15-05-2017 05:22:00	15-05-2017 05:37:00	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Not Furnished	Yes	Yes	No	No	No SPS
Root Cause						Tripped due to	Lightning								
Remedial- Measures			Auto reclose	er not attempted	at both ends to b	be checked by P	OWERGRID.	TLSA alread	y installed b	y POWERG	RID.				
NERLDC/ TL/17/05/0 60	400 kV Balipara - Biswanath Chariali 1 Line	POWERGRID	POWERGRID	POWERGRID	15-05-2017 14:57:00	15-05-2017 15:37:00	DP, ZI, R-B	DP, ZI, R-B	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	on of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
										End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 60	400 kV Balipara - Biswanath Chariali 3 Line	POWERGRID	POWERGRID	POWERGRID	15-05-2017 14:57:00	15-05-2017 15:09:00	DP, ZI, R-B	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Tripped during stringing of OPGW.														
Remedial- Measures		Extra care to be taken while OPGW works.													
NERLDC/ TL/17/05/0 61	800 kV Biswanath Chariali - Agra 1 HVDC	POWERGRID	POWERGRID	POWERGRID	15-05-2017 23:59:00	16-05-2017 02:12:00	DC earth Fault	DC earth Fault	Not Applicable	Not Applicable	No	No	No	No	Select
Root Cause					Tripped due	to clearance pro	blem. Yet to l	be attended.							
Remedial- Measures					POWERG	RID may attend	the issue at th	ne earliest.							
NERLDC/ TL/17/05/0 62	220 kV Balipara - Sonabil 1 Line	POWERGRID & AEGCL	POWERGRID	AEGCL	16-05-2017 00:43:00	16-05-2017 00:52:00	DP, ZI, R-E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause		Due t	o fault in idle cl	narged circuit of	220 kV Sonabil	-Samaguri from	Sonabil. As ir	nformed by Al	EGCL, prote	ection at Sona	bil ope	erated.			

Event ID	Name of tripping element (End A-End B)	ing (End Line Owner Data To Be Furnished by Date & Time of Event of restoration Relay indications						-	on of Auto close	rej subn with	ninary port nitted in 24 purs	subn with	& EL nitted in 24 ours	Details of SPS operatio n	
	А-ЕПА Б)		End A	End B	nd B End A End B End A					End B	End A	End B	End A	End B	END A
Remedial- Measures	Relay setting	s at Sonabil for 2	20 kV Sonabil-	Samaguri D/C ai	nd Balipara for	220 kV Balipara attend		e to be reviewe	ed. Fault in i	dle charged 2	20 kV	Sonabil	-Samag	uri need	s to be
NERLDC/ GD/17/05/ 013	400 kV Palatana - Silchar 2 Line	NETCL	OTPCL	POWERGRID	16-05-2017 08:27:00	16-05-2017 08:48:00	DP, ZI, R-Y- B	DP, DEF	Not Applicable	Not Applicable	Yes	Yes	Yes	Yes	SPS II not operated
NERLDC/ GD/17/05/ 013	132 kV AGTCCPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	16-05-2017 08:27:00	16-05-2017 08:49:00	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 013	132 kV Agartala - Dhalabil 1 Line	TSECL	TSECL	TSECL	16-05-2017 08:27:00	16-05-2017 08:40:00	Direct Trip received	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 013	132 kV Comilla - Surajmani Nagar 2 Line	POWERGRID	PGCB	TSECL	16-05-2017 08:27:00	16-05-2017 09:28:00	Not Furnished	Direct Trip received	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 013	PALATANA Unit GTG-1	OTPCL	ſŎ	PCL	16-05-2017 08:27:00	16-05-2017 13:26:00	Due to Ove	er Frequency	Not Ap	oplicable	Yes	Yes	Yes	Yes	SPS 1 operated
NERLDC/ GD/17/05/ 013	PALATANA Unit STG-1	OTPCL	ſŎ	PCL	16-05-2017 08:27:00	16-05-2017 14:39:00	Due to tripp	ing of GTG-1	Not Ap	oplicable	Yes	Yes	Yes	Yes	SPS 1 operated
NERLDC/ GD/17/05/ 013	PALATANA Unit GTG-2	OTPCL	Ю	TPCL	16-05-2017 08:27:00	16-05-2017 15:23:00	finally trippin	frequency and ng on Low gas uel	Not Ap	oplicable	Yes	Yes	Yes	Yes	SPS 1 operated
NERLDC/ GD/17/05/ 013	PALATANA Unit STG-2	OTPCL	ГО	PCL	16-05-2017 08:27:00	16-05-2017 16:35:00	Due to tripp	ing of GTG-2	Not Ap	oplicable	Yes	Yes	Yes	Yes	SPS 1 operated

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	oort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Enu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ GD/17/05/ 013	AGTCCPP Unit 2	NEEPCO	NEI	EPCO	16-05-2017 08:27:00	16-05-2017 16:35:00	Under	Voltage	Not Ap	plicable	Yes	Yes	Yes	Yes	No SPS
NERLDC/ GD/17/05/ 013	AGTCCPP Unit 3	NEEPCO	NEI	EPCO	16-05-2017 08:27:00	16-05-2017 10:41:00	Under	Voltage	Not Ap	plicable	Yes	Yes	No	No	No SPS
NERLDC/ GD/17/05/ 013	AGTCCPP Unit 4	NEEPCO	NEI	EPCO	16-05-2017 08:27:00	5/16/2017 8:28	Desync	hronized	Not Ap	plicable	Yes	Yes	No	No	No SPS
NERLDC/ GD/17/05/ 013	AGTCCPP EXTN Unit STG-1	NEEPCO	NEI	EPCO	16-05-2017 08:27:00	5/18/2017 4:40	Under	Voltage	Not Ap	plicable	Yes	Yes	No	No	No SPS
NERLDC/ GD/17/05/ 013	AGTCCPP EXTN Unit STG-2	NEEPCO	NEI	EPCO	16-05-2017 08:27:00	16-05-2017 16:15:00	Under	Voltage	Not Ap	plicable	Yes	Yes	No	No	No SPS
Root Cause		I	Fault in differer	ntial protection z	cone of Bus react	tor at Silchar du	ring OPGW v	vork. Zone-1 o	of DPR at Pa	latana over-)	reached	1.			
Remedial- Measures				Settin	gs has been chai	nged by OTPC a	s per reccome	endation of su	bgroup						
NERLDC/ GD/17/05/ 014	132 kV Loktak - Ningthoukhong 1 Line	MSPCL	NHPC	MSPCL	16-05-2017 20:58:00	16-05-2017 21:12:00	Over current	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Vegetation fault														

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ellu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures			Vegetatio	on clearance to b	oe done. Relay c	oordination of d	ownstream of	Ningthoukho	ng to be don	e by MSPCL	•				
NERLDC/ TL/17/05/0 63	220 kV Misa - Samaguri 1 Line	POWERGRID	POWERGRID	AEGCL	17-05-2017 11:09:00	17-05-2017 11:18:00	DP, ZII, R-E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 63	220 kV Misa - Samaguri 2 Line	POWERGRID	POWERGRID	AEGCL	17-05-2017 11:09:00	17-05-2017 11:20:00	DP, ZII, R-E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 63	220 kV Jawaharnaga - Sarusajai 1 Line	AEGCL	AEGCL	AEGCL	17-05-2017 11:09:00	17-05-2017 11:28:00	DP, ZIII, R- E	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ TL/17/05/6 3	220 kV Samaguri - Sonabil 1 Line	AEGCL	AEGCL	AEGCL	17-05-2017 11:09:00	#######################################	Not Furnished	DP,ZII,R-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
Root Cause					Ro	ot cause could n	ot be conclude	ed.							
Remedial- Measures		DR to be submitted by AEGCL.													
NERLDC/ GD/17/05/ 015	132 kV Loktak - Ningthoukhong 1 Line	MSPDCL	NHPC	MSPCL	17-05-2017 15:10:00	17-05-2017 15:26:00	Over current	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications		n of Auto close	subn with	ort	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Enu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause	Vegetation tault														
Remedial- Measures			Vegetati	on clearance to b	be done. Relay co	oordination of de	ownstream of	Ningthoukho	ng to be don	e by MSPCI	J.				
NERLDC/ GI/17/05/0 06	AGTCCPP Unit 2	NEEPCO	NEF	EPCO	#######################################	No	No	No	No	No SPS					
Root Cause															
Remedial- Measures						Rectifi	ed								
NERLDC/ UI/17/05/0 04	AGTCCPP EXTN Unit STG-1	NEEPCO	NEF	EPCO	5/18/2017 5:01	18-05-2017 05:59:00	-	aust steam ssure	No	No	No	No	No	No SPS	
Root Cause					Т	`ripped during st	aring process								
Remedial- Measures						-									

Event ID	Name of tripping element (End	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	DR a subn with Ho	nitted	Details of SPS operatio n
	A-End B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ GI/17/05/0 07	AGTCCPP EXTN Unit STG-1	NEEPCO	NEF	EPCO	5/18/2017 6:12	18-05-2017 06:59:00	0	aust steam ssure	No	No	No	No	No	No	No SPS
Root Cause					Т	`ripped during st	aring process	5							
Remedial- Measures						-	10.05.2017								
NERLDC/ TL/17/05/0 64	132 kV PKBari - Silchar 1 Line	POWERGRID	TSECL	POWERGRID	19-05-2017 04:47:00	19-05-2017 05:18:00	DP, ZI, Y-E	DP, ZI, Y-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause						Tripped due to) lightning								
Remedial- Measures	V	ulnerable locatio	ons to lightning	to be identified	by POWERGR	ID, Checking of	Tower footin	g resistances t	o be done. If	'required, Li	ne LA a	are to b	e install	led.	
NERLDC/ GI/17/05/0 08	AGTCCPP Unit 3	NEEPCO	NEI	EPCO	5/20/2017 1:16	20-05-2017 05:37:00	Cooling sy	vstem failure	No	No	No	No	No	No	No SPS
NERLDC/ GI/17/05/0 08	AGTCCPP Unit 4	NEEPCO	NEF	EPCO	5/20/2017 1:16	20-05-2017 03:40:00	Cooling sy	vstem failure	No	No	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	n of Auto close	subn with	ort	subn with	& EL nitted iin 24 ours	Details of SPS operatio n	
	А-Епа Б)		End A	End B			End A	End B	End A	End B	End A	End B	END A		
NERLDC/ GI/17/05/0 08	AGTCCPP EXTN Unit STG-2	NEEPCO	NE	EPCO	5/20/2017 1:16	20-05-2017 10:03:00	Cooling sy	vstem failure	No	No	No	No	No	No	No SPS
Root Cause			Cooling fan tripped												
Remedial- Measures		Rectified													
NERLDC/ GI/17/05/0 09	AGTCCPP EXTN Unit STG-2	NEEPCO	NEI	EEPCO ####################################							No	No	No	No	No SPS
Root Cause					:	High exhaust ste	am pressure								
Remedial- Measures						Rectifi	ed								
NERLDC/ TL/17/05/0 65	400 kV Byrnihat - Silchar 1 Line	NETC & MePTCL	MePTCL	POWERGRID 20-05-2017 12:33:00 20-05-2017 12:49:00 DP, ZI, R-E DP, ZI, R-E Not Furnished Not Furnished Not No No No No									No	No	No SPS
Root Cause															

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-ЕЛОВ)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures		Vegetation clearance to be done by MePTCL at the earliest.													
NERLDC/ GD/17/05/ 016	132 kV Loktak - Rengpang 1 Line	Rengpang 1 MSPCL NHPC MSPCL ####################################													
Root Cause		Humpshed Applicable													
Remedial- Measures	Directio	onality of Over C	Current relay at	t Renpang to be a	reviewed by MS	PPCL. Downstro	eam relay coo	rdination at R	engpeng by	MSPCL in c	onsulta	tion wit	h Lokt	ak,NHP	С
NERLDC/ TL/17/05/0 66	132 kV Doyang - Mokokchung (Nagaland) 1 Line	DoP, Nagaland	NEEPCO	DoP, Nagaland	21-05-2017 18:32:00	21-05-2017 18:46:00	DP, ZI, R-E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause						Vegetation	n fault								
Remedial- Measures					Vegetation	clearance to be o	done by DoP,	Nagaland.							

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-Епа Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 67	I S / V V PK Bart	TSECL	POWERGRID	22/05/17 03:06	22/05/17 03:15	General Trip	No tripping	Not Applicable	Not Applicable	No	No	No	No	SPS not operated	
Root Cause	Tripped due to lightning														
Remedial- Measures	V	Vulnerable locations to lightning to be identified by POWERGRID, Checking of Tower footing resistances to be done. If required, Line LA are to be installed.													
NERLDC/ TL/17/05/0 68	220 kV BTPS - Salakati 1 Line	POWERGRID	AEGCL	POWERGRID	22/05/17 22:50	22/05/17 23:35	DP, ZI, R-B- E	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					T	ripped due to fa	ılt beyond lin	e							
Remedial- Measures		DPR set	ttings at BTPS t	to be reviewd by	AEGCL in cons	sultation with PC	WERGRID.	Installation o	f differentia	l protection t	o be ex	pedicted	1		
NERLDC/ TL/17/05/0 69	400 kV Bongaigaon - Alipurduar 2 Line	ENICL	POWERGRID	POWERGRID	23/05/17 22:53	23/05/17 23:35	DP, ZII, Y-E	DP, ZI, Y-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause						Referred to	NLDC								

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort	with	nitted	Details of SPS operatio n
	А-ЕЛА В)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures						-									
NERLDC/ TL/17/05/0 70	400 kV Balipara - Bongaigaon 4 Line	POWERGRID	POWERGRID	POWERGRID	24/05/17 18:30	24/05/17 18:52	DP, ZII, B-E	DP, ZI, B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	Tripped due to lightning														
Remedial- Measures	V	ulnerable locati	ons to lightning	to be identified	by POWERGR	ID, Checking of	Tower footing	g resistances t	o be done. If	required, Li	ne LA :	are to b	e install	led.	
NERLDC/ TL/17/05/0 71	220 kV BTPS - Salakati 1 Line	POWERGRID	AEGCL	POWERGRID	24/05/17 18:15	24/05/17 19:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					T	ripped due to fau	ılt beyond lin	e							
Remedial- Measures		DPR set	ttings at BTPS t	o be reviewd by	AEGCL in cons	ultation with PC	WERGRID.	Installation o	f differentia	l protection t	o be ex	pedicted	1		
NERLDC/ TL/17/05/0 72	400 kV Balipara - Bongaigaon 4 Line	POWERGRID	POWERGRID	POWERGRID	25/05/17 00:38	25/05/17 00:45	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Successful operation	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Eliu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause						Tripped due te) lightning								
Remedial- Measures	v	Vulnerable locations to lightning to be identified by POWERGRID, Checking of Tower footing resistances to be done. If required, Line LA are to be installed.													
NERLDC/ TL/17/05/0 73	400 kV Byrnihat - Silchar 1 Line	NETC & MePTCL	MePTCL	POWERGRID	25/05/17 04:13	25/05/17 04:28	DP, ZI, B-E	DP, ZI, B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	Lightning fault.	yrnihat - NETC & MePTCL POWERGRID 25/05/17 04:13 25/05/17 04:28 DP, ZI, B-E DP, ZI, B-E Not Not No No No No No No No No SPS													
Remedial- Measures		Circuit bre	aker Low SF-6	pressure issue at	t Byrnihat is to l	oe rectified by M	ePTCL at the	e earliest. Insta	allation of T	LSA by NET	C to be	expedio	cted.		
NERLDC/ TL/17/05/0 74	132 kV Gelyphu - Salakati 1 Line	POWERGRID	BPCL, Bhutan	POWERGRID	25/05/17 19:57	26/05/17 20:57	No tripping	DP, ZII, R-B- E	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Referred to	NLDC								
Remedial- Measures						-									

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	rep subn with	ninary oort nitted in 24 ours	with	nitted	Details of SPS operatio n
	A-Ellu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ TL/17/05/0 75	800 kV Biswanath Chariali - Agra 1 HVDC	POWERGRID	POWERGRID	POWERGRID	25/05/17 23:28	27/05/17 10:02	DC line fault	DC line fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Tripped due to clearance problem. Yet to be attended.													
Remedial- Measures		POWERGRID may attend the issue at the earliest.													
	220 kV AGBPP - Mariani (PG) 1 Line	POWERGRID	NEEPCO	POWERGRID	26/05/17 19:58	26/05/17 20:34	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Tripp	ed for fault beyo	ond protected	line.							
Remedial- Measures				Re	elay setting at M	ariani needs to l	e reviewed b	y POWERGR	ID.						
NERLDC/ TL/17/05/0 77	132 kV Dimapur (PG) - Kohima 1 Line	DoP, Nagaland	POWERGRID	DoP, Nagaland	27/05/17 11:48	27/05/17 11:54	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	ndications	-	n of Auto close	subn with	oort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ellu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause		Vegetation fault													
Remedial- Measures		Vegetation clearance to be done by DoP Nagaland													
NERLDC/ TL/17/05/0 78	132 kV Dimapur (PG) - Kohima 1 Line	DoP, Nagaland	POWERGRID	DoP, Nagaland	27/05/17 11:58	28/05/17 10:40	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					-	Vegetation	n fault				_				
Remedial- Measures					Vegetation	clearance to be	done by DoP	Nagaland							
NERLDC/ TL/17/05/0 79	800 kV Biswanath Chariali - Agra 1 HVDC	POWERGRID	POWERGRID	POWERGRID	27/05/17 12:44	27/05/17 13:02	Metallic return ground fault	Metallic return ground fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Tripped due	to clearance pro	blem. Yet to	be attended.							

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	reț subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ellu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures					POWERG	RID may attend	the issue at th	ne earliest.							
NERLDC/ TL/17/05/0 80	132 kV Jiribam - Loktak 2 Line	POWERGRID	POWERGRID	NHPC	27/05/17 16:56	28/05/17 17:39	DP, ZII, B-E	DP, ZI, B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause		Vegetation fault													
Remedial- Measures					Vegetation	clearance to be	done by POW	/ERGRID							
NERLDC/ GD/17/05/ 016	132 kV Loktak - Rengpang 1 Line	MSPCL	NHPC	MSPCL	27/05/17 17:18	27/05/17 19:21	DP, ZII, R- Y-B	DP, ZI, R-Y- B	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					-	Vegetation	n fault								
Remedial- Measures					Vegetat	tion clearance to	be done by M	ISPCL							

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	Prelin rep subm with Ho	ort nitted	with	nitted	Details of SPS operatio n
	А-ЕПЦ Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ GD/17/05/ 017	132 kV Loktak - Ningthoukhong 1 Line	MSPCL	NHPC	MSPCL	28/05/17 14:36	28/05/17 15:15	Over current	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Vegetation fault													
Remedial- Measures		Vegetation clearance to be done by MSPCL.													
NERLDC/ TL/17/05/0 81	132 kV Dimapur - Doyang 1 Line	POWERGRID	POWERGRID	NEEPCO	28/05/17 18:35	28/05/17 18:40	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Malope	ration of Earth f	ault relay at I	Doyang							
Remedial- Measures		Relay settings at Doyang to be reviewed													
NERLDC/ GI/17/05/0 10	AGTCCPP Unit 4	NEEPCO	NEF	EPCO	23/05/17 04:37	23/05/17 15:21	Due to hi temp	gh lub oil rature	il No No No						

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	Prelin rep subm withi Ho	ort iitted in 24	DR & subr with Ho	itted	Details of SPS operatio n
	A-Ella D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ GI/17/05/0 10	AGTCCPP EXTN Unit STG-2	NEEPCO	NEF	EPCO	23/05/17 04:37	24/05/17 00:18		gh lub oil rature	Ν	lo	N	10	Ν	lo	No SPS
Root Cause						Cooling fan	tripped								
Remedial- Measures						Rectifi	ed								
NERLDC/ GI/17/05/0 11	KHANDONG Unit 2	NEEPCO	NEE	EPCO	28/05/17 13:36	28/05/17 17:03	Rotor Ea	arth Fault	Ν	lo	N	ło	Ν	lo	No SPS
Root Cause					Ca	arbon dust depos	its on slip rin	g							
Remedial- Measures						Rectifi	ed								
NERLDC/ TL/17/05/0 82	220 kV Balipara - Sonabil 1 Line	POWERGRID & AEGCL	POWERGRID	AEGCL	29/05/17 10:11	29/05/17 10:29	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-End B)		End A	End B			End A	End B	End A	End B	E J	End B	End A	End B	END A
Root Cause	Due to fault in idle charged circuit of 220 kV Sonabil-Samaguri from Sonabil. As informed by AEGCL, protection at Sonabi											erated.			
Remedial- Measures	Relay settings at Sonabil for 220 kV Sonabil-Samaguri D/C and Balipara for 220 kV Balipara - Sonabil are to be reviewed. Fault in idle charged 220 kV Sonabil-Samaguri needs to be attended.														
NERLDC/ TL/17/05/0 83	132 kV Motonga - Rangia 1 Line	BPC, Bhutan	BPC, Bhutan	AEGCL	29/05/17 12:51	29/05/17 14:35	Not Furnished	No tripping	Not Applicable	Not furnished	No	No	No	No	No SPS
Root Cause						Referred to	NLDC								
Remedial- Measures						-					-				
NERLDC/ TL/17/05/0 84	132 kV Dimapur - Imphal 1 Line	POWERGRID	POWERGRID	POWERGRID	29/05/17 15:29	29/05/17 16:44	DP, ZI, R-Y- E	DP, ZI, R-Y- E	Not furnished	Not furnished	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ellu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause	Trinned due to vegetation fault														
Remedial- Measures		Vegetation clearance to be done by POWERGRID													
NERLDC/ TL/17/05/0 85	132 kV Imphal - Silchar 2 Line	POWERGRID	POWERGRID	POWERGRID	30/05/17 08:59	30/05/17 09:16	Not Furnished	DP, ZI, B-E	Not Applicable	Not furnished	No	No	No	No	No SPS
Root Cause					-	Tripped due to	Lightning								
Remedial- Measures	AR facility :	at both ends to b	oe checked by P	OWERGRID. V		ons to lightning t iired, Line LA ar			GRID, Cheo	king of Tow	er footi	ng resis	tances	to be do	ne. If
NERLDC/ TL/17/05/0 86	132 kV Imphal - Silchar 2 Line	POWERGRID	POWERGRID	POWERGRID	30/05/17 09:20	30/05/17 09:36	DP, ZI, B-E	DP, ZI, B-E	Not furnished	Not furnished	No	No	No	No	No SPS

Event ID	Name of tripping element (End	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	rep subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-End B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause	Trinned due to Lightning														
Remedial- Measures	AR facility	AR facility at both ends to be checked by POWERGRID. Vulnerable locations to lightning to be identified by POWERGRID, Checking of Tower footing resistances to be done. If required, Line LA are to be installed.													
	132 kV Loktak - Ningthoukhong 1 Line	MSPCL	NHPC	MSPCL	30/05/17 12:04	30/05/17 12:46	DP, ZI, R-Y- B-E	DP, Z1, R-E	Not furnished	Not Applicable	No	No	No	No	No SPS
Root Cause						Vegetation	ı fault								
Remedial- Measures					Vegetat	ion clearance to	be done by M	SPCL.							
NERLDC/ TL/17/05/0 89	132 kV Jiribam - Loktak 2 Line	POWERGRID	POWERGRID	NHPC	30/05/17 13:06	30/05/17 13:17	No tripping	DP, ZI, R-E	Not Applicable	Not Furnished	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ella D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause						Tripped due to	Lightning								
Remedial- Measures		Auto recloser not attempted at both ends to be checked by POWERGRID. Installation of TLSAs will be done shortly as informed by POWERGRID.													
NERLDC/ TL/17/05/0 90	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	30/05/17 14:54	30/05/17 15:30	DP, ZI, R-E	Not Furnished	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause			А	tree from uphill	side fell in the li	ine corridor betv	veen Loc 197	- 198 causing	clearance pr	oblem.		•			
Remedial- Measures		The same has been cleared.													
NERLDC/ GD/17/05/ 019	132 kV Aizawl - Zungtui 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	30/05/17 15:11	30/05/17 15:35	DP, ZI, Y-E	Earth Fault	Not Furnished	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications		n of Auto close	subn with	oort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ella D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause						Tripped due to le	oose OPGW.								
Remedial- Measures		The same has been corrected													
NERLDC/ GD/17/05/ 020	132 kV Aizawl - Zungtui 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	30/05/17 16:00	30/05/17 16:15	DP, ZI, Y-E	Earth Fault	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause					-	Tripped due to le	oose OPGW.				-				
Remedial- Measures	The same has been corrected														
NERLDC/ TL/17/05/0 91	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	30/05/17 15:46	30/05/17 16:37	DP, ZI, R-E	Not Furnished	Not Furnished	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-ЕПА Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause			А	tree from uphill	side fell in the l	ine corridor betv	veen Loc 197	- 198 causing	clearance pr	oblem.					
Remedial- Measures		The same has been cleared.													
NERLDC/ GD/17/05/ 021	132 kV Loktak - Rengpang 1 Line	MSPCL	NHPC	MSPCL	30/05/17 14:39	01/06/17 09:56	DP, ZI, R-E	Not Furnished	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause						Vegetation	ı fault								
Remedial- Measures					Vegetat	ion clearance to	be done by M	ISPCL							
NERLDC/ GD/17/05/ 022	132 kV Dimapur (PG) - Dimapur (Nagaland) 2 Line	DoP, Nagaland & POWERGRID	POWERGRID	DoP, Nagaland	30/05/17 17:44	30/05/17 17:58	Over current	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subm withi	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Enu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause	Downstream fault														
Remedial- Measures		Downstream relay coordination at Dimapur to be done by DoP Nagaland in consultation with POWERGRID													
NERLDC/ TL/17/05/0 92	132 kV Doyang - Mokokchung (Nagaland) 1 Line	DoP, Nagaland	NEEPCO	DoP, Nagaland	30/05/17 19:20	30/05/17 19:50	No tripping	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		-			Vegetation	fault. Relay indi	cation is to b	e checked.							
Remedial- Measures		Vegetation clearance to be done by DoP Nagaland													
NERLDC/ GD/17/05/ 023	132 kV Dimapur (PG) - Dimapur (Nagaland) 2 Line	DoP, Nagaland & POWERGRID	POWERGRID	DoP, Nagaland	30/05/17 19:28	30/05/17 19:46	Over current	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-End B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Downstream fault															
Remedial- Measures			Downst	ream relay coord	lination at Dima	pur to be done b	y DoP Nagala	and in consult	ation with P	OWERGRID	1				
NERLDC/ GD/17/05/ 024	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	31-05-2017 09:40:00	02-06-2017 22:33:00	No tripping	Directional Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 24	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	POWERGRID	MePTCL	POWERGRID	31/05/17 09:40	02/06/17 12:31	No tripping	DP, ZI, B-E	Not Applicable	Not furnished	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 024	132 kV Khandong - Khliehriat 1 Line	POWERGRID	NEEPCO	POWERGRID	31/05/17 09:40	31/05/17 10:07	Directional Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ellu B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ GD/17/05/ 024	132 kV Khandong - Khliehriat 2 Line	POWERGRID	NEEPCO	POWERGRID	31/05/17 09:40	31/05/17 10:07	Directional Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Fault was probably in 132 kV Khliehriat - Khliehriat -2 which was not cleared from Khliehriat (MePTCL) end.													
Remedial- Measures				F	arth fault Settir	ngs at Khandong	to be review	ed by NEEPC	0.						
NERLDC/ TL/17/05/0 93	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	31/05/17 20:26	31/05/17 20:39	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 93	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	TSECL	NEEPCO	31/05/17 20:26	31/05/17 20:43	No tripping	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					ill coordi	nation of relay s	ettings at AG	ТССРР							

Event ID elem	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	rep subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Enu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures	I DR	to be furnished	by AGTCCPP	. Relay settings a	nt AGTCCPP,K	umarghat,Agarta	lla to be revie	ewed by NEEP	PCO in consu	ultation with	POWE	CRGRIE) & TSI	ECL.	

Event ID	Name of tripping element (End	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	reț subn with	ninary oort nitted in 24 ours	subn with	& EL nitted iin 24 ours	Details of SPS operatio n
	A-End B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures					Vegetation	clearance to be	done by POW	VERGRID							
NERLDC/ TL/17/05/0 85	132 kV Imphal - Silchar 2 Line	POWERGRID	POWERGRID	POWERGRID	30/05/17 08:59	30/05/17 09:16	Not Furnished	DP, ZI, B-E	Not Applicable	Not furnished	No	No	No	No	No SPS
Root Cause		Tripped due to Lightning													
Remedial- Measures	AR facility	at both ends to b	oe checked by P	OWERGRID. V		ons to lightning t iired, Line LA ar			GRID, Cheo	king of Tow	er footi	ing resis	tances	to be do	ne. If
NERLDC/ TL/17/05/0 86	132 kV Imphal - Silchar 2 Line	POWERGRID	POWERGRID	POWERGRID	30/05/17 09:20	30/05/17 09:36	DP, ZI, B-E	DP, ZI, B-E	Not furnished	Not furnished	No	No	No	No	No SPS
Root Cause						Tripped due to	Lightning								

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	on of Auto close	rep subn with	ninary oort nitted in 24 ours	with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ella D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures	AR facility	at both ends to k	e checked by P	OWERGRID. V		ons to lightning t iired, Line LA ar			GRID, Che	cking of Tow	er footi	ng resis	tances	to be doi	ne. If
NERLDC/ GD/17/05/ 018	132 kV Loktak - Ningthoukhong 1 Line	MSPCL	NHPC	MSPCL	30/05/17 12:04	30/05/17 12:46	DP, ZI, R-Y- B-E	DP, Z1, R-E	Not furnished	Not Applicable	No	No	No	No	No SPS
Root Cause	Vegetation fault														
Remedial- Measures					Vegetat	ion clearance to	be done by M	SPCL.							
NERLDC/ TL/17/05/0 89	132 kV Jiribam - Loktak 2 Line	POWERGRID	POWERGRID	NHPC	30/05/17 13:06	30/05/17 13:17	No tripping	DP, ZI, R-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
Root Cause						Tripped due to	Lightning								

Event ID	Name of tripping element (End	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-End B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures		Auto reclose	er not attempted	l at both ends to	be checked by F	OWERGRID. L	nstallation of	TLSAs will be	e done shortl	y as informed	l by PC	WERG	RID.		
NERLDC/ TL/17/05/0 90	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	30/05/17 14:54	30/05/17 15:30	DP, ZI, R-E	Not Furnished	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause		A tree from uphill side fell in the line corridor between Loc 197 - 198 causing clearance problem.													
Remedial- Measures						The same has be	een cleared.								
NERLDC/ GD/17/05/ 019	132 kV Aizawl - Zungtui 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	30/05/17 15:11	30/05/17 15:35	DP, ZI, Y-E	Earth Fault	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause						Tripped due to le	oose OPGW.								

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications		on of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-ЕПЦ В)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures						The same has be	en corrected								
NERLDC/ GD/17/05/ 020	132 kV Aizawl - Zungtui 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	30/05/17 16:00	30/05/17 16:15	DP, ZI, Y-E	Earth Fault	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause		Tripped due to loose OPGW.													
Remedial- Measures						The same has be	en corrected								
NERLDC/ TL/17/05/0 91	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	30/05/17 15:46	30/05/17 16:37	DP, ZI, R-E	Not Furnished	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause			Α	tree from uphill	side fell in the l	ine corridor betv	veen Loc 197	- 198 causing	clearance pr	oblem.					

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	on of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ella D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures						The same has b	een cleared.								
NERLDC/ GD/17/05/ 021	132 kV Loktak - Rengpang 1 Line	MSPCL	NHPC	MSPCL	30/05/17 14:39	01/06/17 09:56	DP, ZI, R-E	Not Furnished	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause	Vegetation fault														
Remedial- Measures					Vegetat	ion clearance to	be done by M	ISPCL							
NERLDC/ GD/17/05/ 022	132 kV Dimapur (PG) - Dimapur (Nagaland) 2 Line	DoP, Nagaland & POWERGRID	POWERGRID	DoP, Nagaland	30/05/17 17:44	30/05/17 17:58	Over current	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Downstrea	m fault								

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications		n of Auto close	subn with	oort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Ellu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures			Downstr	ream relay coord	ination at Dima	pur to be done b	y DoP Nagala	and in consult	ation with P	OWERGRID	1				
NERLDC/ TL/17/05/0 92	132 kV Doyang - Mokokchung (Nagaland) 1 Line	DoP, Nagaland	NEEPCO	DoP, Nagaland	30/05/17 19:20	30/05/17 19:50	No tripping	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Vegetation fault. Relay indication is to be checked.													
Remedial- Measures					Vegetation	clearance to be	done by DoP	Nagaland							
NERLDC/ GD/17/05/ 023	132 kV Dimapur (PG) - Dimapur (Nagaland) 2 Line	DoP, Nagaland & POWERGRID	POWERGRID	DoP, Nagaland	30/05/17 19:28	30/05/17 19:46	Over current	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Downstrea	m fault								

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ninary oort nitted in 24 ours	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	A-Enu D)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Remedial- Measures			Downst	ream relay coord	lination at Dima	pur to be done b	y DoP Nagala	and in consult	ation with P	OWERGRID)				
NERLDC/ GD/17/05/ 024	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	31-05-2017 09:40:00	02-06-2017 22:33:00	No tripping	Directional Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 24	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	POWERGRID	MePTCL	POWERGRID	31/05/17 09:40	02/06/17 12:31	No tripping	DP, ZI, B-E	Not Applicable	Not furnished	No	No	No	No	No SPS
NERLDC/ GD/17/05/ 024	132 kV Khandong - Khliehriat 1 Line	POWERGRID	NEEPCO	POWERGRID	31/05/17 09:40	31/05/17 10:07	Directional Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	subn with	& EL nitted in 24 ours	Details of SPS operatio n
	А-Епа Б)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
NERLDC/ GD/17/05/ 024	132 kV Khandong - Khliehriat 2 Line	POWERGRID	NEEPCO	POWERGRID	31/05/17 09:40	31/05/17 10:07	Directional Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Fault was probably in 132 kV Khliehriat - Khliehriat -2 which was not cleared from Khliehriat (MePTCL) end.													
Remedial- Measures				E	Carth fault Settin	ngs at Khandong	to be review	ed by NEEPC	0.						
NERLDC/ TL/17/05/0 93	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	31/05/17 20:26	31/05/17 20:39	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/ TL/17/05/0 93	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	TSECL	NEEPCO	31/05/17 20:26	31/05/17 20:43	No tripping	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A-End B)	Line Owner	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	-	n of Auto close	subn with	ort nitted	DR & subm with Ho	itted	Details of SPS operatio n
	A-End B)		End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	END A
Root Cause	End A End B End A End B END A ill coordination of relay settings at AGTCCPP														
Remedial- Measures	DR to be furnished by AGTCCPP. Relay settings at AGTCCPP. Kumarghat Agartala to be reviewed by NEEPCO in consultation with POWERGRID & INFCL.														

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	-	n of Auto close	Preli ry re subm wit 24]	port nitted	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/001	132 kV Aizawl - Kumarghat 1 Line	POWERGRID	POWERGRID	WERGRID POWERGRID 01/06/17 00:30 02/06/17 12:40 DP, ZI, R- E DP, ZI, R- E Not Furnished Not										No	No SPS
Root Cause		Fault in line due to Vegetation problem. Trees fell on the line from up hill side due to landslide between Loc 189 - 102.													
Remedial- Measures					Tree cl	earance already doi	ne.								
NERLDC/G D/17/06/001	132 kV Khandong - Umranshu 1 Line	POWERGRID & AEGCL	NEEPCO	AEGCL	01/06/17 16:19	01/06/17 17:06	DP, ZI, R- E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause					Tripping c	lue to down stream	fault.								
Remedial- Measures			Zone-1 reach at	Khandong end &	relay settings of do	wnstream of Umrai	nshu are to l	be reviewed	l by NEEPC	CO & AEGO	CL.				

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	-	n of Auto close	Prelir ry re subm wit 24 l	port iitted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/003	132 kV Doyang - Wokha 1 Line	DoP, Nagaland	NEEPCO	DoP, Nagaland	02/06/17 15:18	02/06/17 15:44	DP, ZI, Y- E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause		Vegetation fault													
Remedial- Measures					Vegetation cleara	nce to be done by De	oP, Nagalan	d							
NERLDC/T L/17/06/004	132 kV Doyang - Wokha 1 Line	DoP, Nagaland	NEEPCO	DoP, Nagaland	02/06/17 16:43	02/06/17 18:30	DP, ZI, Y- E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause		Vegetation fault													
Remedial- Measures					Vegetation cleara	nce to be done by D	oP, Nagalan	d							

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay in	dications	Operatio Rec	n of Auto close	Preli ry re subm wit 24]	itted hin	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/002	132 kV Balipara - Khupi 1 Line	NEEPCO & DoP, AP	POWERGRID	DoP, Arunachal Pradesh	02/06/17 16:19	03/06/17 10:11	DP, ZI, R- Y-E	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Vegetation fault													
Remedial- Measures				Ve	egetation clearance	to be done by NEE	PCO & Dol	P, AP							
NERLDC/G D/17/06/002	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	02/06/17 20:17	02/06/17 20:48	DP, ZI, B- E	DP, ZI, R- Y-B	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause]	Lightning fault									
Remedial- Measures	Vulnerab	le locations to li	ghtning to be ide	ntified by MePT(CL & POWERGRI	D, Checking of Tow	ver footing r	esistances t	o be done. I	s required,	Line I	.As ai	re to b	e insta	ılled.

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	-	n of Auto close	Preli ry re subm wit 24]	port litted hin	DR & submi withir Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/005	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	02/06/17 21:29	02/06/17 21:36	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/T L/17/06/005	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	TSECL	NEEPCO	02/06/17 21:29	02/06/17 21:38	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause				J	Due to ill-coordinat	ion of relay settings	s at AGTCC	PP							
Remedial- Measures	Subroup requ					with POWERGRID furnish these settir							rs fron	1 79 T	'illa and
NERLDC/G D/17/06/003	132 kV Monarchak - Udaipur 1 Line	TSECL	NEEPCO	TSECL	02/06/17 21:29	02/06/17 21:36	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/003	132 kV Monarchak - Rokhia 1 Line	TSECL	NEEPCO	TSECL	02/06/17 21:29	03/06/17 21:51	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	-	n of Auto close	Prelir ry re subm wit 24 l	port nitted hin	DR & submi withi Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause	e Fault in Tripura System. TSECL may intimate the root cause.														
Remedial- Measures						-									
NERLDC/G D/17/06/004	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	02/06/17 21:55	02/06/17 21:59	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/004	0	POWERGRID	TSECL	NEEPCO	02/06/17 21:55	02/06/17 22:03	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	SPS not operated
Root Cause		Due to ill-coordination of relay settings at AGTCCPP													
Remedial- Measures	Subroup requ	Subroup requested NEEPCO to review the settings at AGTCCPP in consulatation with POWERGRID. For proper realy cordination ,Relay settings of all feeders from 79 Tilla and downstream elements at 79 Tilla are required. TSECL may furnish these settings to POWERGRID/NERPC/NERLDC at the earliest.													

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	-	n of Auto close	Preli ry re subm wit 24]	port itted	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/005	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	03/06/17 14:10	03/06/17 14:14	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/005	U	POWERGRID	TSECL	NEEPCO	03/06/17 14:10	03/06/17 14:14	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/005	132 kV Monarchak - Rokhia 1 Line	TSECL	NEEPCO	TSECL	03/06/17 14:10	03/06/17 14:20	General Trip	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/005	132 kV Monarchak - Udaipur 1 Line	TSECL	NEEPCO	TSECL	03/06/17 14:10	03/06/17 14:21	General Trip	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	t Cause Due to ill-coordination of relay settings at AGTCCPP.Fault in Tripura System.														
Remedial- Measures	Subroup requ			0		with POWERGRID furnish these settir		•		•			rs fron	n 79 T	illa and

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto lose	Preli ry re subm wit 24]	port nitted hin	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/007	132 kV Dimapur - Doyang 1 Line	POWERGRID	POWERGRID	NEEPCO	04/06/17 00:15	04/06/17 00:35	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/T L/17/06/007	132 kV Dimapur - Doyang 2 Line	POWERGRID	POWERGRID	NEEPCO	04/06/17 00:15	04/06/17 00:35	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause				No fault in	the line. Power Sw	ing was detected at	Doyang bu	t not trippe	d.						
Remedial- Measures			F	Relay Settings at D	oyang,Dimapur(PC	G) are to be reviewe	d by NEEP	CO & POV	VERGRID						
NERLDC/T L/17/06/008	132 kV AGTCCPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	04/06/17 07:34	04/06/17 07:42	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause				Li	ikely due to instata	nous Earth fault set	tings at AG	TPP							

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operatio Rec	n of Auto close	Prelin ry rej subm with 24 I	port itted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures			Over Curi	rent/Earth Fault S	ettings at AGTPP a	re to be reviewed. i	instantaneou	ıs element	to be disable	ed if any					
NERLDC/T L/17/06/009	132 kV Palatana - Surajmaninagar 1 Line	POWERGRID	OTPCL	TSECL	04/06/17 08:10	04/06/17 10:11	DP, Z-I, R- Y-E	-	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause				Tripped due 1	to lightening .charg	ing was delayed due	e to bad wea	ther preva	iling.						
Remedial- Measures	Auto reclose no					ting resistance at liance at liance value goes beyon							leasure	es to b	e taken to
NERLDC/T L/17/06/010	132 kV Doyang - Mokokchung (Nagaland) 1 Line	DoP, Nagaland	NEEPCO	DoP, Nagaland	04/06/17 00:18	04/06/17 09:27	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Mal-operat	ion of E/F at Mokol	kchung								
Remedial- Measures				Directio	onality of Earth fau	lt relay at Mokokcl	hung is to be	e reviewed							

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be]	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications		n of Auto lose	Prelimina ry report submitted within 24 Hrs	DR & El	Dotails of
			End A	End B			End A	End B	End A	End B	End End A B	End En A B	
NERLDC/G I/17/05/012	AGBPP Unit 2	NEEPCO	NEE	PCO	29/05/17 15:30	29/05/17 20:15	Cooling air prob		Ν	lo	No	No	No SPS
Root Cause					Coolin	g fan motor proble	roblem						
Remedial- Measures					Rectified a	ns informed by NEF	EPCO						
NERLDC/U I/17/05/005	Kopili st2 Unit 1	NEEPCO	NEE	PCO	31/05/17 09:40	31/05/17 10:20	Electrical o	ver speed	Ν	lo	No	No	No SPS
Root Cause	Due to tripping of evacuation lines												
Remedial- Measures	-												

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelim ry repo submit withi 24 Hi	ort ted n	DR & EL submitted within 24 Hours	Details of SPS operation
			End A	End B			End A	End B	End A	End B		nd B	End End A B	
NERLDC/G I/17/05/013	Khandong Unit 2	NEEPCO	NEF	EPCO	31/05/17 12:29	31/05/17 17:43	Transf differential oper	protection	Ν	ło	No		No	No SPS
Root Cause			Operation of overall differential protection due to failure of 11 kV support insulator of Bus duct					ct						
Remedial- Measures					Rectified a	as informed by NEF								
NERLDC/G D/17/06/003		NEEPCO	NEF	EPCO	02/06/17 21:29	02/06/17 22:59	Due to tripp kV Mon Udaip Monarchak-	archak- ur &	Ν	λo	No		No	SPS not operated
NERLDC/U I/17/06/001	Rokhia Unit 7	TPGL	TF	PGL	02/06/17 21:59	02/06/17 22:29	Due to tripp kV Ro Monarchak Agarta	okhia- & Rokhia-	Ν	ło	No		No	SPS not operated
NERLDC/G D/17/06/004	Rokhia Unit 8	TPGL	TF	PGL	02/06/17 21:55	02/06/17 22:23	Over	Flux	N	10	No		No	SPS not operated

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelin ry re subm wit 24 1	port iitted hin	DR & submi within Hot	tted 1 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause				Due to trip	ping of 132 kV Mo	narchak-Udaipur 8	k Monarcha	k-Rokhia T	Ľ						
Remedial- Measures															
NERLDC/U I/17/06/002	Doyang Unit 2	NEEPCO	NEE	EPCO	03/06/17 16:45	03/06/17 16:58	Loss of e	xcitation	Ν	ło	N	ō	N)	No SPS
Root Cause					Due	to loss of excitation									
Remedial- Measures						-									
NERLDC/T L/17/06/011	132 kV Dimapur (PG) - Kohima 1 Line	POWERGRID & DoP, Nagaland	POWERGRID	DoP, Nagaland	6/6/2017 13:10	6/6/2017 13:16	Earth Fault	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be I	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelin ry rej subm with 24 I	port itted hin	DR & submi withir Hou	tted 1 24 urs	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					N.	Vegetation fault									
Remedial- Measures		Directionality of Over Current relay at Kohima to be checked. Vegetation clearance to be done													
NERLDC/G D/17/06/006	132 kV Loktak - Ningthoukhong 1 Line	MSPCL	NHPC	MSPCL	6/6/2017 14:06	6/6/2017 14:35 Earth Fault No tripping Not Applicable Applicable Yes Yes Yes							Yes	Yes	No SPS
Root Cause					T.	Vegetation fault									
Remedial- Measures			Vegetation	clearance to be do	one. Relay coordina	ntion of downstrean	n of Ningtho	ukhong to	be done by I	MSPCL.					
NERLDC/G D/17/06/007	132 kV Balipara - Khupi 1 Line	NEEPCO & DoP, AP	POWERGRID	NEEPCO	6/7/2017 10:20	6/7/2017 10:40	DP, ZI, B- E	No tripping	Not furnished	Not Applicable	No	No	No	No	No SPS
Root Cause	Ise Vegetation fault														
Remedial- Measures				Ve	egetation clearance	to be done by NEE	PCO & DoF	, AP							

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications		n of Auto close	ry re subn wit	mina port nitted hin Hrs	DR & submi withi Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/012	132 kV Dimapur (PG) - Kohima 1 Line	DoP, Nagaland	POWERGRID	DoP, Nagaland	6/7/2017 11:59	6/7/2017 12:12	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Vegetation fault													
Remedial- Measures					Vegetati	on clearance to be d	lone								
NERLDC/T L/17/06/013	132 kV Dimapur (PG) - Kohima 1 Line	DoP, Nagaland	POWERGRID	DoP, Nagaland	6/7/2017 12:24	6/7/2017 12:26	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Vegetation fault													
Remedial- Measures					Vegetati	on clearance to be d	lone								

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operatio Rec	n of Auto close	Prelin ry re subm wit 24 l	port iitted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/014	132 kV Dimapur - Imphal 1 Line	POWERGRID	POWERGRID	POWERGRID	6/7/2017 13:22	6/7/2017 13:33	DP, ZI, R- Y-E	DP, ZI, R- Y-E	Not furnished	Not furnished	No	No	No	No	No SPS
Root Cause				Tripped due to li	ghtening, thunder	storm prevailing at	Senapati ar	ea during t	ripping.						
Remedial- Measures	Auto reclose no	-		•		ting resistance at lignce value goes beyon				•			leasuro	es to b	e taken to
NERLDC/G D/17/06/008	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	6/7/2017 13:31	6/7/2017 14:14	No tripping	DP, ZII, R-Y-E	Not Applicable	Not furnished	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operatio Rec	n of Auto lose	Preli ry re subm wit 24]	port nitted hin	DR & submi within Hou	tted n 24 urs	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/008	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	6/7/2017 13:25	6/7/2017 14:14	No tripping	DP, ZI, Y- E	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause	Due	Due to inclement weather condition causing 132 kV Khliehriat-Lumshnong line to trip with Zone-I , 2.9KM from Khliehriat. DPR at Khliehriat(PG) over-reached.													
Remedial- Measures				Operation of the o	listance relays at K	hliehriat(PG) need	to be check	ed by POW	ERGRID.						
NERLDC/T L/17/06/015	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	6/7/2017 14:56	6/7/2017 15:18	No tripping	DP, ZI, B- E	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/T L/17/06/015	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	6/7/2017 15:06	6/7/2017 15:15	No tripping	DP, ZIII, Y-E	Not Furnished	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelin ry rej subm wit 24 I	port itted hin	DR & submi within Hot	itted n 24	Details of SPS operation				
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					DPR at Kh	liehriat(PG) over-re	eached.								
Remedial- Measures	Zone-1 operati	1 operation of the distance relays at Khliehriat(PG) need to be checked by POWERGRID.Defective CB trip coil at Khliehriat (MePTCL) of 132 kV Khliehriat-Leshka-1 line is to be replaced by MePTCL at the earliest.													
NERLDC/G D/17/06/009	132 kV Aizawl - Zungtui 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	6/7/2017 16:48	6/7/2017 17:08	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Fault in c	lownstream of Zun	gtui								
Remedial- Measures			1	Relay coordination	is to be done by P	& ED Mizoram in c	consultation	with POW	ERGRID.						
NERLDC/G D/17/06/010	132 kV BTPS - Dhaligaon 1 Line	AEGCL	AEGCL	AEGCL	6/7/2017 21:19	6/7/2017 23:15	DP, ZI, R- E	DP, ZI, R- E	Not Furnished	Not Furnished	No	No	No	No	No SPS
NERLDC/G D/17/06/010	132 kV BTPS - Dhaligaon 2 Line	AEGCL	AEGCL	AEGCL	6/7/2017 21:19	6/7/2017 23:15	DP, ZI, R- E	DP, ZI, R- E	Not Furnished	Not Furnished	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelin ry rej subm with 24 I	port litted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Vegetation fault	due to infringment	of Bamboo.								
Remedial- Measures			Vegetation cl	earance to be done	e by AEGCL. Vulne	erable tree branche	s/bamboos o	outside corr	idor also to	be cleared.					
NERLDC/G D/17/06/011	0	POWERGRID	TSECL	NEEPCO	6/8/2017 2:51	6/8/2017 4:02	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/011	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	TSECL	NEEPCO	6/8/2017 2:51	6/8/2017 4:02	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/011	132 kV AGTCCPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	6/8/2017 2:51	6/8/2017 3:40	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications		n of Auto lose	Prelin ry re subm wit 24 1	port itted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause				Li	kely due to instata	nous Earth fault set	tings at AG	TPP							
Remedial- Measures			Over Curr	rent/Earth Fault S	ettings at AGTPP a	re to be reviewed. i	instantaneou	ıs element t	to be disable	ed if any					
NERLDC/G D/17/06/012	132 kV Kumarghat - P K Bari 1 Line	TSECL	POWERGRID	TSECL	6/8/2017 2:51	6/8/2017 3:16	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/012	132 kV PKBari - Silchar 1 Line	POWERGRID	TSECL	POWERGRID	6/8/2017 3:05	6/8/2017 3:18	No tripping	DP, ZII, B-E	Not Applicable	Not Furnished	No	No	No	No	No SPS
NERLDC/G D/17/06/012	132 kV PK Bari- Ambasa 1 Line	TSECL	TSECL	TSECL	6/8/2017 2:51	6/8/2017 3:05	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/012	132 kV PK Bari-Kamalpur 1 Line	AEGCL & TSECL	TSECL	TSECL	6/8/2017 2:51	6/8/2017 3:17	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be 3	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto :lose	Prelin ry re subm wit 24 1	port iitted hin	DR & submi within Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause	The fault dista	nce shown at Sile	char for PK Bari	-1 line was 178 Kr	n against the line le	ngth of 127 Km. Th	iis indicates	, the fault v	vas in Tripu	ıra system.T	SECL	. may	inforn	n the r	root cause.
Remedial- Measures		Protection system at P K Bari needs to be checked													
NERLDC/T L/17/06/016	132 kV Gelyphu - Salakati 1 Line	POWERGRID	BPC, Bhutan	POWERGRID	6/8/2017 10:04	6/8/2017 10:48	DP, ZI, R- B-E	DP, ZI, R- B-E	Not furnished	Not furnished	No	No	No	No	No SPS
Root Cause				Tripped due to lig	htening related flag	shover between R a	nd B Phases	s. Reffered	to NLDC						
Remedial- Measures						-									
NERLDC/T L/17/06/017	220 kV Balipara - Sonabil 1 Line	POWERGRID & AEGCL	POWERGRID	AEGCL	6/8/2017 11:24	6/8/2017 11:38	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelin ry re subm wit 24 l	port iitted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause		Due to	fault in idle cha	rged circuit of 220	kV Sonabil-Samag	uri from Sonabil. A	s informed	by AEGCI	-, protectior	n at Sonabil	opera	ted.			
Remedial- Measures	Relay settings	at Sonabil for 22	20 kV Sonabil-Sa	maguri D/C and F	3alipara for 220 kV	Balipara - Sonabil attended.	are to be re	viewed. Fa	ult in idle cl	narged 220 l	xV Soi	nabil-S	Samag	guri ne	eds to be
NERLDC/G D/17/06/013	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	MePTCL	POWERGRID	6/8/2017 13:38	6/8/2017 13:55	No tripping	DP, ZIII, Y-E	Not furnished	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/013	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	6/8/2017 13:38	6/8/2017 13:56	No tripping	DP, ZIII, R-Y-B	Not Applicable	Not furnished	No	No	No	No	No SPS
NERLDC/G D/17/06/013	132 kV Khliehriat- MLHEP-I line	MePTCL	MePTCL	MePGCL	6/8/2017 13:38	6/8/2017 14:01	DP, ZIII, B-E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/013	132 kV Khliehriat- MLHEP-II line	MePTCL	MePTCL	MePGCL	6/8/2017 13:38	6/8/2017 14:01	DP, ZI, R- Y-B	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	tripping Owner of the ement (End element		Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	-	n of Auto close	Prelin ry rep submi with 24 H	ort tted in	DR & E submitt within 2 Hours	d Details of SPS
			End A	End B			End A	End B	End A	End B	End I A	End B	End E A	nd B
NERLDC/G D/17/06/013	Leshka Unit I	MePGCL	Mel	PGCL	6/8/2017 13:38	6/8/2017 14:32	Over Fre	equency	Not fu	rnished	No)	No	No SPS
NERLDC/G D/17/06/013	Leshka Unit II	MePGCL	Meł	PGCL	6/8/2017 13:38	6/8/2017 14:16	Over v	oltage	Not fu	rnished	No	,	No	No SPS
NERLDC/G D/17/06/013	Leshka Unit III	MePGCL	Meł	PGCL	6/8/2017 13:38	6/8/2017 14:25	Over Fre	equency	Not fu	rnished	No)	No	No SPS
Root Cause		Lightr	ning fault in 132	kV Khliehriat - Le	shka D/C line. Lin	e- I CB not operate	d at Khliehı	iat(MePT)	CL) due to tripping coil defective					
Remedial- Measures	The defective	coil has been rep	blaced with healt	hy one on the 8th .	June 2017 as inform	ned by MePTCL. F	'orum sugge	sted MePT	CL to insta	ll TLSAs in	132 kV	Khli	ehriat -	Leshka D/C.
NERLDC/G D/17/06/014	400 kV Azara - Silchar 1 Line	NETC & AEGCL	AEGCL	POWERGRID	6/8/2017 14:58	6/8/2017 15:20	DP, ZI, B- E	DP, ZI, B- E	Not Furnished	Successful operation	No	No	No 1	SPS I operated
NERLDC/G D/17/06/014	400 kV Killing (Byrnihat) - Silchar 1 Line	NETC & MePTCL	MePTCL	POWERGRID	6/8/2017 14:58	6/8/2017 15:22	DP, ZI, B- E	DP, ZI, B- E	Not Furnished	Successfull y not operated		No	No N	o SPS I operated

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operatio Rec	n of Auto Slose	Preli ry re subm wit 24]	port iitted hin	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/014	132 kV Badarpur - Khliehriat 1 Line	POWERGRID	POWERGRID	POWERGRID	6/8/2017 14:58	6/8/2017 15:14	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	SPS I operated
NERLDC/G D/17/06/014	132 kV Dimapur - Imphal 1 Line	POWERGRID	POWERGRID	POWERGRID	6/8/2017 14:58	6/8/2017 15:02	Power Swing	No tripping	Not Applicable	Not Applicable	No	No	No	No	SPS I operated
Root Cause]	Lightning fault.					-				
Remedial- Measures	CB SF6 press	SF6 pressure low (stage 2) at Byrnihat end resulting in sending of DT for Silchar- Byrnihat line is to be rectified by MePTCL. BCU issue at Azara to be checked which resulted in AR failure needs to be attended by AEGCL. Forum suggested NETC to install TLSAs in all NETC lines.													esulted in

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operatio Rec	n of Auto lose	ry re subn wit	mina port nitted hin Hrs	DR & submi withir Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/018	132 kV Dimapur - Doyang 1 Line	POWERGRID	POWERGRID	NEEPCO	6/9/2017 2:36	6/9/2017 2:50	DP, ZII, R- B-E	DP, ZI, R- E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause		Tripped due to lightening.													
Remedial- Measures		Insta	allation of TLAs	and replacement (of porcelain insulat	ors with polymer is	under plan	ning stage a	s informed	by POWER	RGRII).			
NERLDC/T L/17/06/019	132 kV Dimapur - Doyang 2 Line	POWERGRID	POWERGRID	NEEPCO	6/9/2017 2:20	6/9/2017 2:55	DP, ZI, Y- E	DP, ZI, Y- E		Not Furnished	No	No	No	No	No SPS
Root Cause					Tripp	ed due to lightening	J.								
Remedial- Measures		Inst	allation of TLAs	and replacement (of porcelain insulat	ors with polymer is	under plan	ning stage a	s informed	by POWER	RGRII).			

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be i	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelin ry re subm wit 24 l	port iitted hin	DR & submi within Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
	220 kV BTPS - Salakati 1 Line	POWERGRID	AEGCL	POWERGRID	6/10/2017 7:15	6/10/2017 8:35	DP, ZII, R- Y-B	DP, ZI, R- Y-B	Not Furnished	Not Furnished	No	No	No	No	No SPS
	220 kV BTPS - Salakati 2 Line	POWERGRID	AEGCL	POWERGRID	6/10/2017 7:15	6/10/2017 9:05	DP, ZII, R- Y-B	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					CT f	ailure at BTPS end									
Remedial- Measures Already attended as informed by AEGCL. Forum requested A						o perform periodic	maintenanc	e activities	so that thes	e kind of ev	ents ca	an be	avoide	d.	
NERLDC/G D/17/06/015	132 kV Haflong - Umrangshu 1 Line	POWERGRID & AEGCL	POWERGRID	AEGCL	6/10/2017 15:40	6/10/2017 15:51	No tripping	DP, ZI, B- E, 8.9 Kms	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelin ry rej subm witl 24 I	port itted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Do	own stream fault									
Remedial- Measures				Zone-1 settings of	DPR at Umrangsh	u & Haflong are to	be reviewed	l by POWE	RGRID.						
NERLDC/G D/17/06/016											No SPS				
Root Cause					Do	own stream fault									
Remedial- Measures				Zone-1 settings of	DPR at Umrangsh	u & Haflong are to	be reviewed	l by POWE	CRGRID.						
NERLDC/G D/17/06/017	132 kV Silchar - Hailakandi 1 Line	POWERGRID	POWERGRID	AEGCL	6/10/2017 19:47	6/10/2017 20:17	DP, ZIII, Y-E	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Down stream fault													
Remedial- Measures			Relay coord	lination of downs	tream of Hailakand	i is to be done by A	EGCL in co	onsultation	with POWF	ERGRID.					

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Preli ry re subm wit 24]	port litted hin	DR & submi within Hou	tted 1 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/022	132 kV Panchgram - Silchar 1 Line	POWERGRID	AEGCL	POWERGRID	6/11/2017 15:34	6/11/2017 16:20	Auto- reclosure operated	DP, ZI, R- Y-B	Successful Opeartion	Not Furnished	No	No	No	No	No SPS
Root Cause		Vegetation fault due to infringment of Bamboo.													
Remedial- Measures			Vegetation cleara	ance to be done by	POWERGRID. Vi	ılnerable tree bran	ches/bambo	os outside c	corridor also	o to be clear	ed.				
NERLDC/T L/17/06/023	400 kV Killing (Byrnihat) - Silchar 1 Line	NETC & MePTCL	MePTCL	POWERGRID	6/11/2017 15:29	6/12/2017 11:27	DP, ZII, R- E	DP, ZI, Y- E		Not Furnished	No	No	No	No	No SPS
Root Cause		Tripped due to failure of LA at Silchar end.													
Remedial- Measures		LA replaced													

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	_	n of Auto close	Preli ry re subm wit 24]	port itted	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/018		NEEPCO & DoP, AP	POWERGRID	NEEPCO	6/11/2017 15:36	6/11/2017 18:20	DP, ZI, R- E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause		Vegetation fault													
Remedial- Measures	Vegetation clearance to be done by NEEPCO & DoP, AP														
NERLDC/T R/17/06/001	220/132 kV, 160 MVA Killing (Byrnihat) - Transformer 1	MePTCL	MePTCL	MePTCL	6/11/2017 16:35	6/12/2017 10:28	Oil Surg	CO & DoP, AP Oil Surge Relay Not Applicab		plicable	No	No	No	No	No SPS
Root Cause		PRD mal-opearted due to cable puncture													
Remedial- Measures						Rectified									

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	Operatio Rec	n of Auto close	ry re subn wit	mina port nitted hin Hrs	DR & submi withi Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/024	132 kV Aizawl - Kumarghat 1 Line	POWERGRID	POWERGRID	POWERGRID	6/11/2017 21:12	6/11/2017 21:24	DP, ZI, R- B-E	DP, ZI, R- B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause		Vegetation fault due to landslide between Loc 189 - 191.													
Remedial- Measures						-									
NERLDC/T L/17/06/025	132 kV Aizawl - Kumarghat 1 Line	POWERGRID	POWERGRID	POWERGRID	6/11/2017 21:40	6/11/2017 21:54	DP, ZI, R- B-E	DP, ZI, R- B-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause		Vegetation fault due to landslide between Loc 189 - 191.													
Remedial- Measures						-									

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be 1	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications		n of Auto close	ry re subn wit	itted	DR & submi withir Hou	ted 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/U I/17/06/03	Loktak Unit 1	NHPC	NF	IPC	6/7/2017 8:50	6/7/2017 9:10	Excitatior	ı problem	ſ	λo	N	0	No		No SPS
NERLDC/U I/17/06/04	Loktak Unit 1	NHPC	NHPC		6/7/2017 10:31	6/7/2017 10:46	Excitatior	ı problem	г	λo	N	0	No		No SPS
NERLDC/G I/17/06/017	Loktak Unit 1	NHPC	NHPC		6/7/2017 14:07	6/7/2017 16:29	Loss of e	xcitation	٢	λo	N	0	No		No SPS
Root Cause		Excitation fault													

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto lose	Prelim ry repo submit with 24 H	ort ted in	DR & E submitte within 2 Hours	d 4 Details of
			End A	End B			End A	End B	End A	End B		End B	End End A	ıd 3
Remedial- Measures						-								_
NERLDC/U I/17/06/005	Monarchak Unit 1	NEEPCO	NEEPCO		6/7/2017 21:39	6/8/2017 0:02	Over Fre	equency	N	ίο	No		No	No SPS
Root Cause					Due to trij	oping of evacuation	lines							
Remedial- Measures						-								
NERLDC/G D/17/06/011		NEEPCO	NEE	EPCO	6/8/2017 2:51	6/8/2017 5:11	Reverse Po opea	-	Ν	0	No		No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	-	n of Auto close	ry re subm wit		DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A		End A	End B	
NERLDC/G D/17/06/011	AGTCCPP Extn Unit STG- 1	NEEPCO	NEE	EPCO	6/8/2017 2:51	6/8/2017 9:20	Emergency due to tripp evacuati	oing of all	Ν	ło	N	lo	N	0	No SPS
NERLDC/G D/17/06/011	AGTCCPP Extn Unit STG- 2	NEEPCO	NEE	EPCO	6/8/2017 2:51	6/8/2017 9:46	Emergency due to tripp evacuati	oing of all	Ν	ło	N	Ιο	N	0	No SPS
Root Cause	ause Due to tripping of all evacuating lines														
Remedial- Measures	•														

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications		on of Auto close	ry re subn wit	mina port nitted chin Hrs	DR & submi withi Hot	tted 1 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/014	Palatana Unit GTG-1	OTPCL	от	`PCL	6/8/2017 14:58	6/8/2017 20:05	Over Fr	equency	ľ	٧о	Ν	lo	N)	SPS I operated
NERLDC/G D/17/06/014	Palatana Unit STG-1	OTPCL	ОТ	PCL	6/8/2017 14:58	6/8/2017 22:47	Over Fre	equency	1	No	Ν	lo	N)	SPS I operated
NERLDC/G D/17/06/014	Palatana Unit GTG-2	OTPCL	OTPCL		6/8/2017 14:58	6/8/2017 22:21	Over Fr	equency	1	No	N	lo	N)	SPS I operated
NERLDC/G D/17/06/014		OTPCL	ОТ	PCL	6/8/2017 14:58	6/9/2017 0:38	Over Fr	equency	1	No	N	lo	N)	SPS I operated
NERLDC/G D/17/06/014	Loktak Unit 1	NHPC	NI	HPC	6/8/2017 14:58	6/8/2017 15:57	Over Fee Oper	•	1	Чo	Ν	ło	N)	No SPS
NERLDC/G D/17/06/014	Loktak Unit 2	NHPC	NI	HPC	6/8/2017 14:58	6/8/2017 15:41	Over Fee Oper	-	1	No	Ν	lo	N)	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	-	n of Auto close	Prelimina ry report submitted within 24 Hrs	DR & EL submitted within 24 Hours	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End End A B	End End A B	
NERLDC/G D/17/06/014	Loktak Unit 3	NHPC	Nł	IPC	6/8/2017 14:59	6/8/2017 15:25	Over Fee Oper		Ν	Ло	No	No	No SPS
NERLDC/G D/17/06/014		NEEPCO	NEF	EPCO	6/8/2017 14:58	6/8/2017 15:13	Under Vo Reverse Po oper	wer Relay	М	νo	No	No	No SPS
NERLDC/G D/17/06/014	AGTCCPP Unit 2	NEEPCO	NEF	EPCO	6/8/2017 14:58	6/8/2017 16:08	Under Vo Reverse Po oper	wer Relay	Ν	νo	No	No	No SPS
NERLDC/G D/17/06/014	AGTCCPP Unit 4	NEEPCO	NEE	EPCO	6/8/2017 14:58	6/8/2017 14:59	Under Vo Reverse Po oper	wer Relay	Ν	Чo	No	No	No SPS
NERLDC/G D/17/06/014	AGTCCPP Extn Unit STG- 1	NEEPCO	NEE	EPCO	6/8/2017 14:58	6/10/2017 2:48	Emergency due to tripp evacuati	oing of all	Ν	ło	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operation Rec	n of Auto lose	Prelin ry rej subm with 24 F	port itted nin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/014	AGTCCPP Extn Unit STG- 2	NEEPCO	NEE	EPCO	6/8/2017 14:58	6/9/2017 5:55	Emergency due to tripp evacuati	oing of all	Ň	Ιο	N	C	No	C	No SPS
Root Cause				Grid Disturbance in Southern part of NER											
Remedial- Measures						-									
NERLDC/T L/17/06/026	132 kV Badarpur - Khliehriat 1 Line	POWERGRID	POWERGRID	POWERGRID	13-06-2017 07:39:00	14-06-2017 18:55:00	DP, ZI, R- E, 78 Kms		Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause				R - Ph conducto	r snapped due to fa	lling of a tree betwo	een Loc 148	- 149 in the	e storm.						
Remedial- Measures					Line	restored on 14.06.17	7								
NERLDC/T L/17/06/027	132 kV Badarpur - Kolasib1 Line	POWERGRID	POWERGRID	P & ED Mizoram	6/13/2017 11:59	6/14/2017 12:11	DP, ZII, R- Y-E, 103.5 Kms	Not Furnished	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause		Fault in downstream of Kolasib													

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	-	n of Auto close	Prelin ry re subm wit 24 1	port iitted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures			Relay coordi	nation of down str	ream stations is to b	e done by P & ED I	Mizoram in	consultatio	on with POV	VERGRID					
NERLDC/G D/17/06/019	132 kV Dimapur (PG) - Kohima 1 Line	DoP, Nagaland & POWERGRID	POWERGRID	DoP, Nagaland	14-06-2017 09:27:00	14-06-2017 20:21:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					,	Jegetation fault									
Remedial- Measures			Vegetatio	on clearance to be	done. Relay Coord	ination of downstre	eam stations	to be done	by DoP,Na	galand					
NERLDC/G D/17/06/020	132 kV Loktak - Ningthoukhong 1 Line	MSPCL	NHPC	MSPCL	14-06-2017 14:51:00	14-06-2017 15:02:00	DP, ZI, R- Y-B	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Vegeta	tion fault in the line	е.								
Remedial- Measures					Vegetation clea	rance to be done by	y MSPCL.								

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	-	n of Auto close	Prelin ry re subm wit 24 1	port itted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/028	132 kV Motonga - Rangia 1 Line	POWERGRID	BPC, Bhutan	AEGCL	17-06-2017 12:55:00	17-06-2017 13:25:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					R	effered to NLDC									
Remedial- Measures						-									
NERLDC/T L/17/06/029	132 kV Motonga - Rangia 1 Line	POWERGRID	BPC, Bhutan	AEGCL	6/18/2017 22:39	6/18/2017 23:33	Not Furnished	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Reffered to NLDC													
Remedial- Measures						-									

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be]	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operatio Rec	n of Auto close	Preli ry re subm wit 24]	port iitted hin	DR & submi withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/030	132 kV Motonga - Rangia 1 Line	POWERGRID	BPC, Bhutan	AEGCL	19-06-2017 00:51:00	19-06-2017 01:12:00	Not Furnished	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					R	effered to NLDC									
Remedial- Measures						-									
NERLDC/G D/17/06/021	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	19-06-2017 02:44:00	19-06-2017 03:00:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/021	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	TSECL	NEEPCO	19-06-2017 02:44:00	19-06-2017 03:07:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelin ry re subm wit 24 l	itted hin	DR & submi within Hot	tted 1 24 urs	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/021	132 kV Palatana - Surajmaninagar 1 Line	POWERGRID	OTPCL	TSECL	19-06-2017 02:44:00	19-06-2017 03:04:00	DP, ZIII, R-E	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Fault in Tripura System. TSECL may intimate the root cause. Unwanted tripping of 132 kV Agartala - AGTCCPP D/C due to ill-co-ordination.													
Remedial- Measures	Subroup requ					with POWERGRID furnish these settir							rs fron	n 79 T	illa and
NERLDC/T L/17/06/031	132 kV Khandong - Khliehriat 1 Line	POWERGRID	NEEPCO	POWERGRID	19-06-2017 02:41:00	19-06-2017 03:12:00	DP, ZII, R- Y-E	DP, ZI, R- Y-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	ot Cause Lightning fault.														
Remedial- Measures	TLSA already i	already installed by POWERGRID at selected locations. 100% will be covered shortly as informed by POWERGRID.Auto recoser not attempted at both ends.Needs to be checkd by POWERGRID.													

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be 2	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	-	n of Auto close	Preli ry re subm wit 24]	port itted	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/022	132 kV Dimapur (PG) - Kohima 1 Line	DoP, Nagaland & POWERGRID	POWERGRID	DoP, Nagaland	19-06-2017 12:00:00	19-06-2017 12:13:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Vegetation fault													
Remedial- Measures			Dir	ectionality of Ove	r Current relay at]	Kohima to be check	ed. Vegetati	on clearan	ce to be don	e					
NERLDC/G D/17/06/023	132 kV Loktak - Rengpang 1 Line	MSPCL	NHPC	MSPCL	20-06-2017 08:08:00	20-06-2017 08:47:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Vegetation fault									
Remedial- Measures					Vegetation clea	nrance to be done by	y MSPCL.								

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be 3	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelin ry re subm wit 24 1	port iitted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/032	220 kV Balipara - Sonabil 1 Line	POWERGRID & AEGCL	POWERGRID	AEGCL	22-06-2017 10:58:00	22-06-2017 11:10:00	DP, ZI, Y- E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause		Due to	fault in idle char	rged circuit of 220	kV Sonabil-Samag	guri from Sonabil. A	As informed	by AEGCI	, protectior	ı at Sonabil	operat	ted.			
Remedial- Measures	Relay settings	at Sonabil for 2	20 kV Sonabil-Sa	maguri D/C and I	3alipara for 220 kV	' Balipara - Sonabil attended.	are to be re	viewed. Fa	ult in idle cl	narged 220 I	xV Sor	nabil-	Samag	uri ne	eds to be:
NERLDC/T L/17/06/033	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	POWERGRID	POWERGRID	22-06-2017 09:12:00	22-06-2017 09:44:00	Not Furnished	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause				T	ripped due to mal-o	pperation of VESDA	system at I	BNC.							
Remedial- Measures						-									

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operatio Rec	n of Auto close	Preli ry re subm wit 24 1	itted hin	DR & submi withir Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/024	132 kV Imphal (MSPCL) - Imphal (PG) 1 Line	POWERGRID	MSPCL	POWERGRID	23-06-2017 11:04:00	23-06-2017 11:17:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/024	132 kV Imphal (MSPCL) - Imphal (PG) 2 Line	POWERGRID & MSPCL	MSPCL	POWERGRID	23-06-2017 11:04:00	23-06-2017 11:13:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					Tripped for fat	ılt in Imphal - Karo	ong feeder.								
Remedial- Measures			Relay coordin	ation of downstre	am of Imphal(MSP	CL) is to be done by	y MSPCL in	consultati	on with PO	WERGRID.					
NERLDC/G D/17/06/025	132 kV Imphal (MSPCL) - Imphal (PG) 1 Line	POWERGRID	MSPCL	POWERGRID	23-06-2017 13:04:00	23-06-2017 13:11:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/025	132 kV Imphal (MSPCL) - Imphal (PG) 2 Line	POWERGRID & MSPCL	MSPCL	POWERGRID	23-06-2017 13:04:00	23-06-2017 13:12:00	Earth Fault	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Tripped for fault in Imphal - Karong feeder.													

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay indications Operation of Auto Prelimina DR & EL Submitted S								
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures	Relay coordination of downstream of Imphal(MNPCL) is to be done by MNPCL in consultation with POWERCRID														
NERLDC/T L/17/06/034	220 kV Balipara - Sonabil 1 Line	POWERGRID & AEGCL	POWERGRID	AEGCL	23-06-2017 12:58:00	23-06-2017 13:20:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Due to	fault in idle cha	rged circuit of 220	kV Sonabil-Samag	guri from Sonabil. A	as informed	by AEGCI	2, protectior	n at Sonabil	operat	ted.			
Remedial- Measures	Relay settings	at Sonabil for 2.	20 kV Sonabil-Sa	maguri D/C and I	3alipara for 220 kV	' Balipara - Sonabil attended.	are to be re	viewed. Fa	ult in idle cl	narged 220 l	«V Son	abil-	Samag	uri ne	eds to be
NERLDC/G D/17/06/026	132 kV Along - Pasighat 1 Line	DoP, Arunachal Pradesh	DoP, Arunachal Pradesh	DoP, Arunachal Pradesh	23-06-2017 15:15:00	23-06-2017 16:00:00	Not Furnished	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					DoP AP ma	ay intimate the root	cause.								
Remedial- Measures						-									

Event ID ele	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto lose	Prelin ry rej subm with 24 I	port itted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/035	400 kV Balipara - Biswanath Chariali 1 Line	POWERGRID	POWERGRID	POWERGRID	24-06-2017 06:17:00	24-06-2017 06:23:00	No tripping	DP, ZII, Y-E	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/T L/17/06/035	400 kV Balipara - Biswanath Chariali 2 Line	POWERGRID	POWERGRID	POWERGRID	24-06-2017 06:17:00	24-06-2017 06:32:00	O/V (Stg-I)	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Y-N Lightenir	ng fault occurred	l in 400 kV Balip			t Balipara auto recl inted. Relay setting			nt BLP 0.7 K	am. Trippin	g of 4	00 kV	Balip	ara-B	iswanath
Remedial- Measures	Relay settings	at Balipara to b	e reviewed by PC			ty at both ends to b g of Tower footing		•		erable locat	ions to) light	tning t	o be id	lentified
NERLDC/T L/17/06/036	400 kV Balipara - Biswanath Chariali 4 Line	POWERGRID	POWERGRID	POWERGRID	24-06-2017 06:19:00	24-06-2017 06:44:00	DP, ZI, R- E	DP, ZII, R-E	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause															

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto lose	Prelin ry rej subm witl 24 I	port itted hin	DR & subm withi Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures	AR facility	at both ends to	be checked by P(OWERGRID.Vulı	nerable locations to	lightning to be ider	ntified by P	OWERGR	ID, Checkin	g of Tower	footin	g resi	stance	s to b	e done.
NERLDC/G D/17/06/027	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	24-06-2017 10:04:00	24-06-2017 10:11:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/027	132 kV Palatana - Udaipur 1 Line	TSECL	OTPCL	TSECL	24-06-2017 10:05:00	24-06-2017 10:27:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause]	Due to ill-coordinat	ion of relay settings	s at AGTCC	PP							
Remedial- Measures	Subroup requ					with POWERGRID furnish these settin							rs fron	n 79 T	illa and
NERLDC/T L/17/06/037	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	24-06-2017 13:45:00	24-06-2017 14:07:00	DP, ZI, R- E	Not Furnished	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	TI	he line tripped m	any times due to	a tree falling from	m up hill side due t	o land slide and con	ning in prox	imity to co	nductor at a	distance of	' 12 Kr	n fro	m Aiza	awl.	

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelir ry re subm wit 24 l	port iitted hin	DR & submi withir Hou	tted n 24 urs	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures			Vegetation clears	ance to be done by	POWERGRID. V	ulnerable tree brand	ches/bambo	os outside o	corridor also	o to be clear	ed.				
NERLDC/T L/17/06/038	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	24-06-2017 14:24:00	24-06-2017 14:36:00	DP, ZI, R- E	Not Furnished	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause															
Remedial- Measures			Vegetation clear	ance to be done by	POWERGRID. V	ulnerable tree bran	ches/bambo	os outside o	corridor also	o to be clear	ed.				
NERLDC/G D/17/06/028	132 kV Doyang - Wokha 1 Line	DoP, Nagaland	NEEPCO	DoP, Nagaland	24-06-2017 16:45:00	24-06-2017 17:45:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause					D	ownstream fault									
Remedial- Measures	Directionalility of E/F relay at Wokhia to be reviewed by DoP Nagaland														
NERLDC/T L/17/06/039	800 kV Biswanath Chariali - Agra Pole 2 HVDC	POWERGRID	POWERGRID	POWERGRID	25-06-2017 06:27:00	25-06-2017 12:13:00	Protective Z block order operated	Not Furnished	Not Applicable	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto :lose	Prelir ry re subm wit 24 l	port iitted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause		OSR relay of Converter Transformer mal-operated at Agra.													
Remedial- Measures						-									
NERLDC/T L/17/06/040	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	25-06-2017 14:01:00	25-06-2017 14:12:00	DP, ZI, R- E	Not Furnished	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	T	he line tripped m	any times due to	a tree falling from	m up hill side due t	o land slide and con	ning in prox	imity to co	nductor at a	a distance of	' 12 Kı	n froi	n Aiza	wl.	
Remedial- Measures			Vegetation clear	ance to be done by	POWERGRID. V	ulnerable tree brand	ches/bambo	os outside c	corridor also	o to be clear	ed.				
NERLDC/T L/17/06/041	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	25-06-2017 15:35:00	25-06-2017 15:50:00	DP, ZI, R- E	DP, ZII, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	T	he line tripped m	any times due to	a tree falling from	m up hill side due t	o land slide and con	ning in prox	imity to co	nductor at a	a distance of	12 Kı	n froi	n Aiza	wl.	
Remedial- Measures			Vegetation clear	ance to be done by	POWERGRID. V	ulnerable tree brane	ches/bambo	os outside c	corridor also	o to be clear	ed.				

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	-	n of Auto close	Prelin ry re subm wit 24 1	port itted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/042	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	25-06-2017 16:08:00	26-06-2017 16:15:00	DP, ZI, R- E	DP, ZII, R-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	e The line tripped many times due to a tree falling from up hill side due to land slide and coming in proximity to conductor at a distance of 12 Km from Aizawl.														
Remedial- Measures						Rectified.									
NERLDC/T L/17/06/043	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	MePTCL	POWERGRID	25-06-2017 23:46:00	26-06-2017 00:00:00	No tripping	DP, ZIII, R-E	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause				F	ault in Meghalaya	system cleared at K	Khliehriat (P	' G).							
Remedial- Measures	POWERGRID & MePTCL may review DPR settings at Khliehriat (PG) & Khliehriat (MePTCL).														
NERLDC/T L/17/06/044	132 kV Badarpur - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	25-06-2017 23:46:00	25-06-2017 23:59:00	DP, ZII, R- E		Not Furnished	Not Applicable	No	No	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operation Rec	n of Auto lose	Prelimina ry report submitted within 24 Hrs	DR & EL	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End End A B	End End	
Root Cause					Vegetation	fault due to infring	gment.						
Remedial- Measures			Vegetation cleara	ance to be done by	POWERGRID. Vi	ilnerable tree bran	ee branches/bamboos outside corridor also to be cleared.						
NERLDC/G D/17/06/021	Monarchak Unit 1	NEEPCO	NEI	EPCO	19-06-2017 02:44:00	19-06-2017 04:15:00	System Instab		Ň	lo	No	No	No SPS
NERLDC/G D/17/06/021	Rokhia Unit 7	TPGL	TI	PGL	19-06-2017 02:44:00	19-06-2017 03:19:00	Loss of	voltage	Ň	lo	No	No	No SPS
NERLDC/G D/17/06/021	Rokhia Unit 8	TPGL	TI	PGL	19-06-2017 02:44:00	19-06-2017 03:19:00	Earth Fault	2nd stage	N	lo	No	No	No SPS
NERLDC/G D/17/06/021	Rokhia Unit 9	TPGL	TI	PGL	19-06-2017 02:44:00	19-06-2017 03:19:00	Standby E	arth Fault	N	lo	No	No	No SPS
Root Cause					Due t	o Grid Disturbance	2				-		
Remedial- Measures						-							
NERLDC/G I/17/06/018	Khandong Unit 2	NEEPCO	NEI	EPCO	24-06-2017 03:28:00	24-06-2017 13:13:00	Generator F fat		Ň	Io	No	No	No SPS

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto lose	Prelin ry rep submi with 24 F	oort itted nin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause					Carbon o	lust deposit in slip 1	ring								
Remedial- Measures		Rectified													
NERLDC/G D/17/06/027	Monarchak Unit 1	NEEPCO	NEE	EPCO	24-06-2017 10:02:00	24-06-2017 13:03:00	Loss of voltage No No							0	No SPS
Root Cause					Sys	tem Disturbance									
Remedial- Measures						-									
NERLDC/T L/17/06/045	132 kV P K Bari - Silchar 1 Line	POWERGRID	TSECL	POWERGRID	26-06-2017 01:29:00	30-06-2017 20:05:00	DP, ZI, B- E	DP, ZI, B- E	Not Furnished	No	No SPS				
Root Cause					Due to snapping	of conductor in the	ERS tower.								

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be]	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	dications	-	n of Auto close	Prelin ry re subm wit 24 l	port nitted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures						Rectified									
NERLDC/T L/17/06/046	132 kV Motonga - Rangia 1 Line	BPC, Bhutan	BPC, Bhutan	AEGCL	26-06-2017 10:50:00	26-06-2017 11:16:00	DP, ZIII, B-E	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Probably tripped for downstream fault of Rangia S/S.													
Remedial- Measures				AEGO	CL may coordinate	relay settings of dov	wnstream of	f Rangia.							
NERLDC/T L/17/06/047	132 kV Motonga - Rangia 1 Line	BPC, Bhutan	BPC, Bhutan	AEGCL	26-06-2017 12:10:00	26-06-2017 12:45:00	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Probably tripped for downstream fault of Rangia S/S.														
Remedial- Measures				AEGO	CL may coordinate	relay settings of dov	wnstream of	f Rangia.							

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Preli ry re subm wit 24]	port iitted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/048	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	26-06-2017 16:51:00	27-06-2017 16:24:00	DP, ZI, R- E	Not Furnished	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	The line tripped many times due to a tree falling from up hill side due to land slide and coming in proximity to conductor at a distance of 12 Km from Aizawl.														
Remedial- Measures			Vegetation cleara	ance to be done by	POWERGRID. Vi	ulnerable tree bran	ches/bambo	os outside c	corridor also	o to be clear	ed.				
NERLDC/T L/17/06/049	132 kV AGTCCPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	26-06-2017 17:17:00	26-06-2017 17:27:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Cause Likely due to instatanous Earth fault settings at AGTPP														
Remedial- Measures			Over Curi	rent/Earth Fault S	ettings at AGTPP a	are to be reviewed. i	instantaneou	ıs element (to be disable	ed if any					

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto lose	Preli ry re subm wit 24]	port iitted hin	DR & submi within Hou	tted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
	132 kV Aizawl - Jiribam 1 Line	POWERGRID	POWERGRID	POWERGRID	26-06-2017 17:28:00	26-06-2017 17:46:00	DP, ZI, R- Y-E	DP, ZI, R- Y-E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	Lightning fault.														
Remedial- Measures			Installa	ntion of Line LA a	re already installed	. AR facility at bot	h ends to be	checked by	POWERG	RID.					
NERLDC/T L/17/06/051	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	TSECL	NEEPCO	26-06-2017 17:37:00	26-06-2017 17:45:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Likely due to instatanous Earth fault settings at AGTPP													
Remedial- Measures			Over Curr	rent/Earth Fault S	lettings at AGTPP a	are to be reviewed. i	instantaneou	ıs element t	to be disable	ed if any					

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be]	Furnished by	Date & Time of Event	Date & Time of restoration	Relay ind	lications	Operatio Rec	n of Auto lose	Preli ry re subm wit 24]	port nitted	DR & submi within Hot	tted n 24 urs	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/052	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	TSECL	NEEPCO	26-06-2017 17:37:00	26-06-2017 17:46:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	e Likely due to instatanous Earth fault settings at AGTPP														
Remedial- Measures	Over Current/Earth Fault Settings at AGTPP are to be reviewed, instantaneous element to be disabled if any														
NERLDC/G D/17/06/029	132 kV Kumarghat - P K Bari 1 Line	TSECL	POWERGRID	TSECL	26-06-2017 17:15:00	26-06-2017 17:51:00	No tripping	Earth Fault	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause				Li	kely due to instata	nous Earth fault set	tings at AG	ГРР							
Remedial- Measures			Over Curr	ent/Earth Fault S	ettings at AGTPP a	re to be reviewed. i	nstantaneou	is element t	to be disable	ed if any					
NERLDC/T L/17/06/053	220 kV Balipara - Sonabil 1 Line	POWERGRID & AEGCL	POWERGRID	AEGCL	27-06-2017 02:53:00	27-06-2017 03:17:00	DP, ZI, B- E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause		Due to	fault in idle char	ged circuit of 220	kV Sonabil-Samag	uri from Sonabil. A	s informed	by AEGCI	2, protection	ı at Sonabil	opera	ted.			

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto :lose	Prelin ry re subm wit 24 l	port iitted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures	s attended.										eds to be				
NERLDC/G D/17/06/030	132 kV Dimapur (PG) - Kohima 1 Line	DoP Nagaland & POWERGRID	POWERGRID	DoP, Nagaland	28-06-2017 10:11:00	28-06-2017 10:20:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Konima I Line POWERGRID														
Remedial- Measures					Vegetation cleara	nce to be done by D	oP, Nagalan	d							
NERLDC/G D/17/06/031	132 kV Dimapur (PG) - Kohima 1 Line	DoP Nagaland & POWERGRID	POWERGRID	DoP, Nagaland	28-06-2017 11:37:00	28-06-2017 11:51:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause						Vegetation fault									
Remedial- Measures					Vegetation cleara	nce to be done by D	oP, Nagalan	d							

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be 3	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto lose	Prelin ry re subm wit 24 1	port litted hin	DR & submi within Hot	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/032	132 kV AGTCCPP - Kumarghat 1 Line	POWERGRID	NEEPCO	POWERGRID	28-06-2017 11:33:00	28-06-2017 11:43:00	Over current	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
NERLDC/G D/17/06/032	132 kV Kumarghat - P K Bari 1 Line	TSECL	POWERGRID	TSECL	28-06-2017 11:33:00	28-06-2017 11:46:00	No tripping	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause		Likely due to instatanous Over Current settings at AGTPP & P K Bari													
Remedial- Measures			Over Current/E	arth Fault Setting	s at AGTPP & PK	bari are to be revie	wed. instant	aneous ele	ment to be c	lisabled if a	ny				
NERLDC/T L/17/06/054	400 kV Palatana - Silchar 1 Line	NETCL	OTPCL	POWERGRID	28-06-2017 12:46:00	28-06-2017 13:21:00	Not Furnished	DP, ZI, B- E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause															
Remedial- Measures				Infrin	gement cleared on	18.07.17 as informe	ed by POWI	ERGRID							

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be	Furnished by	Date & Time of Event	Date & Time of restoration	Relay inc	lications	Operatio Rec	n of Auto close	Prelin ry re subm wit 24 l	port litted hin	DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/T L/17/06/055	132 kV Doyang - Mokokchung (Nagaland) 1 Line	DoP Nagaland	NEEPCO	DoP, Nagaland	28-06-2017 13:05:00	28-06-2017 14:05:00	DP, ZI, R- E	Over current	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause	Vegetation fault in the line.														
Remedial- Measures					Vegetation cleara	nce to be done by Do	oP, Nagalan	ıd							
NERLDC/T L/17/06/056	132 kV Aizawl - Kolasib 1 Line	POWERGRID	POWERGRID	P&ED, Mizoram	28-06-2017 13:45:00	29-06-2017 14:17:00	DP, ZI, R- E	DP, ZI, R- E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	T	The line tripped many times due to a tree falling from up hill side due to land slide and coming in proximity to conductor at a distance of 12 Km from Aizawl.													
Remedial- Measures			Vegetation clear	ance to be done by	POWERGRID. Vi	ulnerable tree brand	ches/bambo	os outside c	corridor also	o to be clear	ed.				

वृत्तांत सूचना रिपोर्ट की पेशकश / Furnishing of Event Information Report पूर्वोत्तर क्षेत्र में 01.06.17 से 30.06.17 तक की घटनाये / Events in NER Grid from 01.06.17 to 30.06.17

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be Furnished by		Date & Time of Event	Date & Time of restoration	Relay indications		Operation of Auto Reclose		submitted within			EL tted n 24 ırs	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
NERLDC/G D/17/06/033	132 kV Along - Pasighat 1 Line	DoP, Arunachal Pradesh	DoP, Arunachal Pradesh	DoP, Arunachal Pradesh	28-06-2017 17:07:00	28-06-2017 17:35:00	Details Awaited	Details Awaited	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	DoP AP may intimate the root cause.														
Remedial- Measures	-														
NERLDC/G D/17/06/034	132 kV Pasighat - Roing 1 Line	POWERGRID	DoP, Arunachal Pradesh	POWERGRID	29-06-2017 08:40:00	29-06-2017 10:11:00	Earth Fault	No tripping	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Tripped due to Isolator problem at Roing end.														
Remedial- Measures		Isolator problem to be immediately attended by POWERGRID													
NERLDC/G D/17/06/035	132 kV Lekhi - Nirjuli 1 Line	DoP, AP & POWERGRID	DoP, Arunachal Pradesh	POWERGRID	29-06-2017 12:09:00	29-06-2017 12:24:00	No tripping	Over current	Not Applicable	Not Applicable	No	No	No	No	No SPS

वृत्तांत सूचना रिपोर्ट की पेशकश / Furnishing of Event Information Report पूर्वोत्तर क्षेत्र में 01.06.17 से 30.06.17 तक की घटनाये / Events in NER Grid from 01.06.17 to 30.06.17

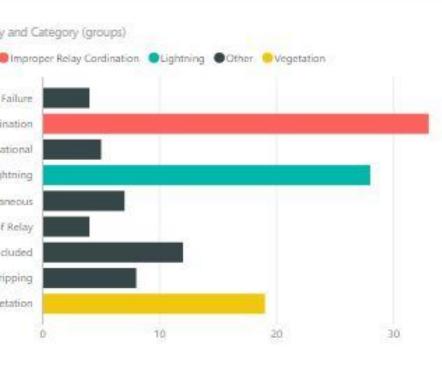
Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be Furnished by		Date & Time of Event	Date & Time of restoration	Relay indications		Operation of Auto Reclose		Prelimina ry report submitted within 24 Hrs			itted n 24 urs	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Root Cause	Tripped due to fault in Lekhi - Chimpu line.														
Remedial- Measures	Relay coordination to be done at Nirjuli & lekhi by POWERGRID & DoP,AP.														
NERLDC/T L/17/06/057	400 kV Bongaigaon - Alipurduar 1 Line	ENICL	POWERGRID	POWERGRID	29-06-2017 13:38:00	29-06-2017 13:58:00	No tripping	DT received while testing	Not Applicable	Not Applicable	No	No	No	No	No SPS
Root Cause	Human error.														
Remedial- Measures	Forum requested POWERGRID to take extreame care while testing of S/S equipments														
NERLDC/G D/17/06/036	132 kV Pasighat - Roing 1 Line	POWERGRID	DoP, Arunachal Pradesh	POWERGRID	29-06-2017 13:25:00	29-06-2017 14:59:00	DP, ZI, R- E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause	Tripped due to Isolator problem at Roing end.														

वृत्तांत सूचना रिपोर्ट की पेशकश / Furnishing of Event Information Report पूर्वोत्तर क्षेत्र में 01.06.17 से 30.06.17 तक की घटनाये / Events in NER Grid from 01.06.17 to 30.06.17

Event ID	Name of tripping element (End A - End B)	मालिक / Owner of the element	Data To Be Furnished by		Date & Time of Event	Date & Time of restoration	Relay indications		Operation of Auto Reclose		submitted within		DR & submi within Hou	itted n 24	Details of SPS operation
			End A	End B			End A	End B	End A	End B	End A	End B	End A	End B	
Remedial- Measures	Isolator problem to be immediately attended by POWERGRID														
NERLDC/T L/17/06/058	132 kV Aizawl - Jiribam 1 Line	POWERGRID	POWERGRID	POWERGRID	30-06-2017 11:36:00	30-06-2017 11:46:00	DP, ZI, B- E	DP, ZI, B- E	Not Furnished	Not Furnished	No	No	No	No	No SPS
Root Cause	Lightning fault.														
Remedial- Measures	Installation of Line LA are already installed. AR facility at both ends to be checked by POWERGRID.														
NERLDC/G D/17/06/037	132 kV Dimapur (PG) - Kohima 1 Line	DoP Nagaland & POWERGRID	POWERGRID	DoP, Nagaland	30-06-2017 13:18:00	30-06-2017 13:26:00	DP, ZI, B- E	No tripping	Not Furnished	Not Applicable	No	No	No	No	No SPS
Root Cause	Vegetation fault														
Remedial- Measures		Vegetation clearance to be done													

NER Grid Events

March 2017 to June 2017



y and Category (groups) 2



Equipment Failure 4 Mar-17

Improper Relay Cordination 33 Mar-17

Inter-Regional/National 5 Mar-17

Lightning 28 Mar-17

Miscellaneous 7 Mar-17

Mis-opearion of Relay 4 Mar-17

Root cause not concluded 12 Mar-17

Unit Tripping 8 Mar-17

Vegetation 19 Mar-17

50

Equipment Failure 2 Apr-17

Improper Relay Cordination 35 Apr-17

Inter-Regional/National 12 Apr-17

Lightning 46 Apr-17

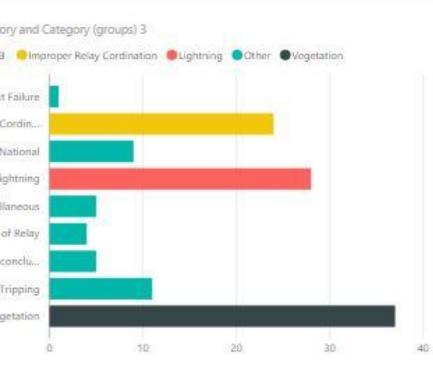
Miscellaneous 6 Apr-17

Mis-opearion of Relay 16 Apr-17

Root cause not concluded 6 Apr-17

Unit Tripping 21 Apr-17

Vegetation 38 Apr-17



y and Category (groups) 4



Equipment Failure	Equipment Failure
1	4
May-17	Jun-17
Improper Relay Cordination	Improper Relay Cordinatio
24	27
May-17	Jun-17
Inter-Regional/National	Inter-Regional/National
9	9
May-17	Jun-17
Lightning	Lightning
28	16
May-17	Jun-17
Miscellaneous	Miscellaneous
5	4
May-17	Jun-17
Mis-opearion of Relay	Mis-opearion of Relay
4	6
May-17	Jun-17
Root cause not concluded	Root cause not concluded
5	4
May-17	Jun-17
Unit Tripping	Unit Tripping
11	12
May-17	Jun-17
Vegetation	Vegetation
37	31
May-17	Jun-17

Major Events in March 2017

Tripping of 400 kV Palatana I & II lines on 20.03.17 at 13:54 Hrs

- Transient B-E fault occurred in 400 kV Palatana Silchar II line during stringing of OPGW
- DPR opened the **B-Ph at both ends** and auto reclosed at Silchar after dead time, but **auto-reclos at Palatana did not operate**
- Neutral current in 400 kV Palatana Silchar I line
- 400 kV Palatana Silchar I line tripped on directional earth fault at Palatana after 1.6 Se sending Direct Trip signal to Silchar.
- Later on, the 400 kV Palatana Silchar II tripped at both ends on PD

Recommendations of Subgroup

- Change PD Settings at Palatana
- Change Directional E/F relay settings at Palatana & Silchar

Key points discussed in Subgroup Meeting on 18th Apr'17

Extending DT signal from Silchar end for Implementation of SPS-2 at Palatana

DR Standardization at Palatana

Unavailability of DR downloading cable at AGTCCPP

Utilities to inform **root cause of the events** with suggested **remedial measures** along with **FIR** of any eve the grid

Utilities to submit **Patrolling report** to NERPC with a copy to NERLDC in case of repeated events.

Submission of Monthly Outage Report of +/- 800 kV HVDC, Biswanath Chariali-Agra

Installation of Numerical Relay at Doyang HEP- NEEPCO to take help from NERTS

Major Events in April 2017

Tripping of 400 kV Silchar-Palatana II line at 13:05 Hrs on 25.04.17 while 400 kV Silchar-Palatana line I under Shutdown.

Discussions in Subgroup Meeting on 5th May17:

- Root Cause: falling of a tree at location 172 and 173 (i.e. Teliamura forest area)
- POWERGRID to share the **photographs** of the affected part
- Encroachment of the ROW in forest areas-NERTS has decided to discuss this matter with Fores Department.
- Prior permission from NERLDC for doing live line works as this involves auto-reclose function of DPR in non-auto mode
- Failure of SPS-2 operation-It was decided by the forum to conduct mock testing of SP periodically
- Review of relay settings of Palatana, AGTCCPP, Silchar, and critical substations in Tripur system

. Tripping of **400 kV Silchar-Palatana II line** at 12:51 Hrs on 26.04.17 while **40 kV Silchar-Palatana line I under Shutdown.**

Discussions in Subgroup Meeting on 5th May17:

- Root Cause: High impedance fault due to vegetation.
- Silchar end of the line received DT- Palatana to submit the list of settings for which DT is sent to Silchar end
- NERTS suggested OTPC to check whether **priority scheme** is activated for Auto-recloser a Palatana end. If priority scheme is activated, then **Pole Discrepancy time** shall be a **Main=1.5s & Tie=2.5s else Main=1.5s & Tie=1.5s**

6. Disturbance in Southern part of NER at 19:10 Hrs on 28th Apr'17

• 400 kV Silchar - Azara line tripped at 18:42 Hrs and at 19:10 Hrs 400 kV Silchar - Byrnihat line tripped.

Discussion in Subgroup Meeting on 5th May'17

- Lightning fault resulted in tripping of 400 kV Silchar Byrnihat line
- Reason for LBB operation at Misa NERTS not submitted the detailed report
- Forum requested all constituents to **configure DR channels as per standar** already circulated.

Discussion in Subgroup Meeting on 17th Jul'17

SF6 Low alarm (2nd stage) of 400 kV Silchar – Byrnihat line at Byrnihat ends by sends DT signal during single pole tripping mainly in R and B phases

Other Points Discussed in Subgroup Meeting on 5th May'17

Frequent Tripping of AGTCCPP-Agartala D/C

- No of Tripping in Mar'17-Apr'17: **32**
- No of tripping in DPR, Zone-III at AGTCCPP: 1
- No of Tripping in DPR, Zone-I at AGTCCPP: 2
- E/F relay operated at AGTPP in rest of the events
- Protection Audit at AGTCCPP on 30th May'17
 - E/F & Over Current-Definite Time
 - Settings not as per recommendations of Ramakrishna task force

<u>viscussion in subgroup meeting on 5th May'17</u>

- Short Line-Installation of differential protection or implement permissive scheme suitable for short lines with proper zone coordination
- Line length of 132 kV Agartala- AGTPP is 8.4 km
- LDP criterion for Short line :<5 Km. for 132 kV lines
- Relay settings of Agartala, AGTCCPP and downstream substations of Agartala to be reviewed

Under-Voltage issue at Tripura system

- Generating stations in Tripura to change the Tap setting of the transformer and also to switch off line reactor at such time.
- High MVAR drawl by Bangladesh
- Installation of Capacitor Banks in Tripura System

Major Events in the month of May-Jun'17

400 kV Silchar – Palatana line II tripped on 16th May, 2017 at 08:27 Hr

Discussion in Subgroup Meeting on 17th Jul17

- Physical contact of foreign object with the conductor during OPGW work.
- Fault was in the line reactor differential protection zone and differential protection of line reactor operated at Silchar and cleared the fault instantaneously.
- Palatana end Distance relay over-reached and had seen the fault in Zone-1 trippin the B-phase line instantaneously at Palatana end due improper ground compensation factor at Palatana end.
- As informed by Palatana, the settings has been changed and the problem is resolved
- Subgroup requested Palatana to inform the revised settings at the earliest

Tripping of 400 kV Silchar -Byrnihat S/C and 400 kV Silchar -Azara S/C at 14:58 Hrs.

Discussion in Subgroup Meeting on 17th Jul'17

- Root Cause: Lightning
- **SF6 Low** (2nd stage) of 400 kV Silchar Byrnihat line at Byrnihat end sends DT signal during single pole tripping mainly in R and B phases.
- **BCU at Azara Substation restarts** after every tripping. Due to this, Auto reclose fails and the line trips. The matter is to be taken up with ABB and resolved at the earliest.
- SPS-3 not operated- CBs reclosed after 1 sec at Silchar End
- SPS-3 Modification to be done by POWERGRID, AEGCL, MePTCL & OTPC as per System Study meeting on 23rd Jun'17

Key Points discussed in Subgroup Meeting on 17th Jul'17

- **Approval from NERPC, prior to changing of protection settings**
- Root cause analysis of the events should be done by all utilities based on the weekly events reports sent by NERLDC on weekly basis for identifying the root cause and take the remedial measure immediately
- Subgroup members requested NERLDC to arrange Protection Subgroup Meeting on monthl basis.
- MePTCL & NETC may identify the lightning prone areas of all the lines owned by them t install polymer insulators and line arrestors at those lightning prone areas.
- NERLDC requested to all constituents to **submit DR and EL output within 24 hours** of trippin for root cause analysis and for taking remedial measures immediately and to **submit the list o Event Logger installed**.

Simultaneous tripping of 132 kV Dimapur – Doyang I and II line and 132 kV Doyang – Mokokchung line

Installation of TLSA in 132 kV Khandong – Khleihriat I feeder.

Issue related submission of DR & EL by Owner of Bay / Owner of Sub-station

Frequent tripping of **132 kV AGTCCPP – Agartala I and II lines** and 132 kV AGTCCPP – Kumarghat line

Tripping of **220 kV Balipara – Sonabil** line due to fault in idle charged 220 kV Samaguri – Sonabili line

ssues to be discussed

Relay settings at Azara, Samaguri, Sarusajai & Sonabil ect (220 kV substation) to be reviewed by AEGCL in consultation wi POWERGRID as lines connected to these stations tripped multiple times.

Frequent tripping of 220 kV BTPS - Salakati D/C only at BTPS end

Tripping of 132 kV Khliehriat(PG) - Khliehriat(MePTCL) I & II in **Zone-3** at Khliehriat(PG) – **Faulty Trip Coil** Khliehriat(MePTCL) of Leshka-1 feeder

Tripping of 400 kV Balipara - Biswanath Chariali 1&2 at 06:17 Hrs on 24th Jun'17:

Y-N Lightening fault occurred in 400 kV Balipara-Biswanath Chariali -1 line. Unnecessary tripping of 400 kV Balipara-Biswanath Chariali -2 line

Tripping of elements during testing/OPGW works

Multiple tripping at AGBPP on 9th Apr'17