



भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee
मेघालया स्टेट हाउसिंग फिनांस को- आपरेटिव सोसायटी लि. बिल्डिंग
Meghalaya State Housing Finance Co-Operative Society Ltd.
Building
नांग्रिम हिल्स, शिल्लोंग – 793003
Nongrim Hills, Shillong – 793003.



(आई.एस.ओ.: 9001.2000)

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No. NERPC/AS/OCC/2010/ 3650-682

Date: 25th February, 2011

To,

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Director (Distribution), Me. ECL, Lumjingshai, Short Round Road, Shillong – 793 001
3. CGM, (LDC), SLDC Complex, AEGCL, Kahelipara, Guwahati-781 019
4. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
5. Chief Engineer (EE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
6. Engineer-in-Chief (P&E), Department of Power, Govt. of Mizoram, Aizawl – 796 001
7. Chief Engineer (P), Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
8. Chief Engineer (P), Department of Power, Govt. of Nagaland, Kohima – 797 001
9. General Manager, TSECL, Agartala – 799 001
10. ED (O&M), NERTS, PGCIL, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
11. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
12. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
13. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
14. ED (Commercial), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
15. AGM, NERLDC, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
16. Member Secretary, ERPC, 14 Golf Club Road, Tollygunge, Kolkata-700033
17. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066

Sub: Minutes of the 59th OCC Meeting held on 15th February, 2011 at Shillong.

The Minutes of the 59th OCC Meeting of NERPC held on 15.02.2011 at “NERTS Conference Hall”, Shillong is enclosed for favour of kind information and necessary action please.

The minutes is also available on the website of NERPC www.nerpc.nic.in

Encl: As above

भवदीय / Yours faithfully,

बी. लिंखोई 25/2/11

(बी. लिंखोई /B. Lyngkhoi)

सहायक सचिव / Assistant Secretary

Copy to:

1. Chief Engineer, AEGCL, Bijuli Bhavan, Guwahati - 781001
2. Chief Engineer, APGCL, Bijuli Bhavan, Guwahati - 781001
3. MD, CA DISCOM, Bijuli Bhavan, Guwahati - 781001
4. MD, UA DISCOM, Bijuli Bhavan, Guwahati - 781001
5. MD, LA DISCOM, Bijuli Bhavan, Guwahati - 781001
6. S.E. (Trans. & Dist), MeSEB Lumjingshai, Short Round Road, Shillong – 793 001
7. Head of SLDC, MeSEB, Lumjingshai, Short Round Road, Shillong – 793 001
8. Head of SLDC, Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
9. A.C.E. (Gen & Trans), Department of Power, Govt. of Nagaland, Kohima – 797 001
10. Head of SLDC, Department of Power, Dimapur, Nagaland
11. A.C.E. (Power-I), Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
12. Head of SLDC, Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
13. S.E. (Trans & Dist), Department of Power, Govt. of Mizoram, Aizawl – 796 001
14. Head of SLDC, Department of Power, Govt. of Mizoram, Aizawl – 796 001
15. Head of SLDC, TSECL, Agartala – 799 001
16. Chief Engineer(Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124

North Eastern Regional Power Committee

MINUTES OF THE 59th

OPERATION COORDINATION SUB-COMMITTEE MEETING OF NERPC

Date: 15/02/2011 (Tuesday)

Time: 10:30 hrs

Venue: "NERTS Conference Hall," Shillong.

The List of Participants in the 59th OCC Meeting is attached at **Annexure - I**

Shri B.K. Jain, Member Secretary, NERPC welcomed all the participants of the 59th OCC. He briefed about the grid performance during the month of January, 2011 and stated that the winter season has passed out successfully without major grid problems. He stated that during the 10th TCC & NERPC Meetings held on 8th & 9th February, 2011 many important issues have been taken. Further he stated that as per the decision of 10th NERPC meeting OCC meetings would be held preferably in Guwahati. He also expressed concern about the lack of participation in OCC meeting and hoped that with the venue of OCC meeting in Guwahati, more participants would be present for fruitful discussion in the meeting.

He then requested Shri P.D. Siwal, S.E (O) NERPC to take up the agenda for discussion.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 58th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

SE, NERPC mentioned that the minutes of the 58th meeting of the OCC held on 10th January, 2011 at Shillong were circulated to all the concerned, vide letter no. NERPC/AS/OCC/2010/3178 – 210, dated 18th January, 2011.

As no comments were received from any of the constituents, the minutes of the 58th OCC Meeting was confirmed.

SE, NERPC requested NERLDC to give their presentation about the grid performance during the month of January, 2011.

I T E M S F O R D I S C U S S I O N

B. 10 OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING Jan' 10

The grid performance parameters for the month of January, 2011 as presented by NERLDC during the meeting are given below:

- i) **Average frequency** during January, 2011 was 49.86 Hz, as compared to 49.92 Hz in December, 2010.
- ii) **Minimum frequency** in January, 2011 was 48.89 Hz (06.01.11 at 18:29 hrs) compared to 48.94 Hz in the previous month.
- iii) **Maximum frequency** was 50.61 Hz (14.01.11 at 23:51 hrs), as compared to 50.68 Hz in December, 2010.
- iv) **System frequency** remained within permissible range of 49.5 Hz to 50.2 Hz for 89.29 % of the time, below 49.5 Hz for 5.58 % and above 50.2 Hz for 5.13 % of the time as compared to 88.63 %, 1.93 % and 9.44 % of the time respectively in the previous month.
- v) **Regional peak** demand in January, 2011 was 1667 MW as compared to 1676 MW in December, 2010 a decrease of 0.54 % over the previous month.
- vi) **Energy requirement** was 851.16 MUs in January, 2011 compared to 812.78 MUs in December, 2010 an increase of 4.72 % over the previous month.
- vii) **Regional energy availability** in January, 2011 was 805.22 MUs compared to 767.84 MUs in the previous month, an increase of 4.87 % over the previous month.
- viii) **Rise in demand met** was recorded in Manipur (10.58%), Meghalaya (8.44%) & Assam (3.38%) over the previous month.
- ix) **Drop in demand met** was recorded in Tripura (7.30%), Mizoram (7.14%), Nagaland (5.45%) & Ar. Pradesh (4.71%) over the previous month viz. December, 2010.
- x) **Over Voltages** at 400 kV substations were observed at Misa, Bongaigaon and Balipara where maximum voltage observed were 432 kV, 424 kV and 428 kV respectively.
- xi) **No over Voltages** were observed at 220 kV S/S and 132 kV S/S.

xii) **No Under Voltages** were observed at 400 kV, 220 kV & 132 kV S/S.

xiii) **Regional Generation & Inter-regional Exchanges:** During the month of January, 2011 compared to December, 2010 are given below:

SN	Parameter	January, 2011	December, 2010
REGIONAL GENERATION & INTER - REGIONAL EXCHANGES (in MU)			
1	Total Generation in NER (Gross)	647.533	600.448
2	Total Central Sector Generation in NER (Gross)	405.874	362.380
3	Inter-Regional Energy Exchanges		
	(a) NER - ER	0.00	0.00
	(b) ER - NER	172.00	168.73
	(c) Net import	172.00	168.73

The Sub-committee noted as above.

FOLLOW UP ACTION

C. 1. Non-functioning of SCADA in Arunachal Pradesh state

Since no representative from Ar. Pradesh was present during the meeting the status could not be updated.

However, Member Secretary enquired from POWERGRID about the current status.

GM, NERTS stated that POWERGRID has already indicated the no. of modems to be procured by Ar. Pradesh, now they should pursue the matter with BSNL to restore the link at the earliest after procurement of two additional new modem. Further he stated that any assistance required by Ar. Pradesh in this regard would be extended to them.

The Sub-committee noted as above.

C. 2 Status of 132 KV Kopili – Khandong 2nd Ckt.

Member Secretary stated that the matter has just been discussed in the 10th NERPC meeting, the status would be discussed in the next OCC meeting.

The sub-Committee noted as above.

C. 3 Installation of Line Reactor at Kathalguri end of Misa – Kathalguri line:

GM, POWERGRID informed that the revised cost estimate of the 20 MVA Reactor and bay equipment amounting to Rs. 4.444 Crores has already been submitted to NEEPCO.

Sr. Manager, NEEPCO requested POWERGRID to send the above estimate along with the Agreement to enable them to expedite the work at the earliest. POWERGRID agreed.

The Sub-committee noted as above.

C. 4 Revival of 132 KV P.K. Bari- Dullavcherra - Panchgram link between Assam & Tripura:

Since no representative from Tripura was present during the meeting the status could not be updated.

Member Secretary enquired from Assam about the status of the line pertaining to Assam.

CGM, Assam informed that the portion of this line pertaining to Assam has been completed in all respect.

The Sub-committee requested NERPC Secretariat to write to Tripura to intimate the current status of the line pertaining to Tripura and the status would be discussed in the next OCC meeting.

C. 5 Restoration of Carrier tripping relay at Ranganadi end:

Sr. Manager, NEEPCO informed that the internal wiring has already completed on 03.02.2011. The ckt – II of 400 KV Ranganadi – Balipara has been tested and checked and found to be in working condition. The Ckt – I of the line would be tested soon.

The Sub-committee noted as above.

C. 6 Special Protection Scheme for N.E. Region:

Member Secretary informed that the issue has been discussed in the 10th NERPC meeting and the decision was POWERGRID are required to test the existing

equipment and give the report within one month.

GM, POWERGRID informed that they have already deputed engineer to test the equipment and the status would be intimated in the next OCC meeting.

The Sub-committee noted as above.

C. 7 Transfer facility in Bus Bar arrangement:

CGM, LD&C, Assam informed that the work is in progress and the work would be completed by the end of February, 2011.

The Sub-committee noted as above.

C. 8 Multiple problems with new L&T meter & software (VINPLUS):

GM, POWERGRID informed that the engineer of L&T has already been requested to visit and resolve the software problem. Further he informed that L&T engineer have confirmed that they would attend to the problem by end of February, 2011. The status would be intimated in the next OCC meeting.

The Sub-committee noted as above.

D. NEW ITEMS

D. 1 Installation of two main numerical distance protection scheme:

POWERGRID informed that as per Notification No. 12/X/STD(CONN)/GM/CEA dated 21.02.2007 Part – III (3) **"Two main numerical distance protection schemes should be provided On all transmission lines of 220 KV and above for all new Sub-stations. For existing sub-stations, this shall be implemented in a reasonable time frame."**

Further, GM POWERGRID informed that they would install 2 (two) nos. of numerical distance relays in phases on transmission lines of voltage of 220 KV and above. He requested Assam & NEEPCO to install the same at Misa & Mariani end of Assam and at Ranganadi & Kopili end of NEEPCO.

Assam and NEEPCO informed that they would take up the matter with their Management and the same would be intimated in the next OCC meeting.

The Sub-committee noted as above.

D. 2 Transformation capacity at Nirjuli:

GM, POWERGRID informed that at Nirjuli S/S originally there were two nos. of 10 MVA, 132/33 KV transformers commissioned during the year 1991. One of the 10 MVA transformer failed completely in May, 2009 warranting new replacement. Accordingly, POWERGRID initiated procurement of one no. of new transformer and the same is expected to be dispatched by manufacturer by Feb' 2011.

However, following the failure of 10 MVA transformer at Nirjuli in 2008 there was severe power crisis in the capital city (Itanagar) of Arunachal Pradesh including the adjoining important towns like Nirjuli, Naharlagun etc. In order to overcome the power crisis situation DoP, Ar. Pradesh spared one of the two nos. of 16 MVA transformers of their 132/33 KV Deomali S/S. Accordingly, POWERGRID decommissioned the same at Nirjuli S/S in January, 2009.

The combination of 10 MVA and 16 MVA transformers could not be run in parallel due to mismatch of impedance. At present, the loading of the transformers at Nirjuli without paralleling is as below as per data logging at Nirjuli:

- 16MVA = 33 KV (AP1 + AP2) = 4 MW (max) + 9 MW (max) = 13 MW (max)
- 10MVA = 33 KV AP4 = 7 MW (max)

Note: Total maximum load is 20 MW.

In view of above, DoP, Ar. Pradesh has requested POWERGRID to deliver the new 10 MVA transformer at Deomali S/S and retain their 16 MVA transformer at Nirjuli where they are having load growth. POWERGRID is reviewing the issue in commercial aspect and revert back to DoP, Ar. Pradesh soon. However, with the existing arrangement at Nirjuli S/S following issues are prevailing:

- There is no more transformation capacity available for further load growth
- Isolated operation of transformers is undesirable.
- POWERGRID has already proposed to procure spare transformers for NER to

meet exigencies and in the event of any failure POWERGRID will not be in a position to overcome power crisis situation without spare transformer.

GM, POWERGRID further informed that considering the load growth in Ar. Pradesh capital and adjoining areas, it would have been better to install 2 x 16 MVA transformers at Nirjuli.

Member Secretary requested POWERGRID to take up the matter with CEA for increasing the transformer capacity to 2 x 16 MVA at Nirjuli. Further action in the matter may be taken after receipt of comments from CEA. POWERGRID agreed.

The Sub-committee noted as above.

D. 3 Fibre Optic Communication System in lieu of existing ULDC Microwave links of North Eastern Region. Vacation of frequency band to DoT.

NERLDC informed that they have received a letter from NLDC requesting for vacating microwave frequency band by 2011 as directed by Dept. of Telecommunication. It is therefore, necessary that all concerned in the power sector synergize their activities to ensure implementation of DoT directive and availability of alternate communication links in NER in time.

GM, POWERGRID informed that the concerned state in NER is Assam only, and informed that Assam has been in touch with POWERGRID and alternate arrangement by laying OPGW has been initiated to vacate the microwave frequency band within time.

The Sub-committee noted as above.

D. 4 State-wise anticipated peak demand/requirement, shortage for February, March & April, 2011.

The sub-Committee reviewed the anticipated "peak demand availability" and finalized the same for the months of February, March & April, 2011.

February, 2011

March, 2011

April, 2011

Sl. No.	State	Peak Demand (MW)	Peak Availability (MW)	Peak Demand (MW)	Peak Availability (MW)	Peak Demand (MW)	Peak Availability (MW)
1	Ar. Pradesh	90	80	95	70	95	90
2	Assam	900	800	925	750	950	800
3	Manipur	95	85	100	80	100	80
4	Meghalaya	230	200	240	190	260	215
5	Mizoram	65	50	70	50	70	60
6	Nagaland	95	85	100	80	100	85
7	Tripura	170	140	175	140	175	150
	Region	1645	1440	1705	1360	1750	1480

*The availability of above States is subjected to the instruction of NERLDC.

The Sub-committee noted as above.

D. 5 Generation Planning (ongoing and planned outages)

DGM, NERLDC informed that following generating units were under shutdown:

- i). Loktak Unit#1 : under shutdown from 01.12.2010
- ii). Kopili Unit# 1 : under shutdown from 10.01.2010

CGM, Assam intimated that they would take complete shutdown of Karbi Langpi HEP from 06.03.2011 to 17.03.2011 for maintenance work.

The Sub-committee noted as above.

D. 6 Outage Planning Transmission elements

The Sub-committee **discussed and approved** the programme of transmission line outages for February, 2011 as proposed by PGCIL, NEEPCO & AEGCL. The same is enclosed at **Annexure D. 6.**

The Sub-committee decided that shutdown should be taken on monthly basis. No shutdown beyond the 8th day of the next month would be planned as the same would be considered in next OCC meeting. All the shutdown proposal should be given one week in advance to NERPC/NERLDC for proper planning.

D. 7 Estimated Transmission Availability Certificate (TAC) for the month of January, 2011.

The Final TAC certified by NERPC for the month of December, 2010 has been issued vide letter No: NERPC/OP/TAC/2010/3367 dated 02.02.2011 is **99.8844%**.

The Estimated Transmission/System Availability for the month of January, 2011 furnished by PGCIL is **99.9452 %** as per details at **Annexure D. 7** (Copy of the same is also available at NERPC website). NER constituents are requested to kindly give their comments and observations, if any, by 25th February, 2011 so that Final TAC for the month of January, 2011 can be issued.

The sub-Committee noted as above.

D. 8 Banking Transactions during 2010 – 11 and 2011 – 12 by the States/Power Utilities - NERPC

Member Secretary informed that Ministry of Power vide letter dated 13.01.2011 has requested that the following information in regard to month-wise banking transactions being affected by the power utilities/states may be furnished at the earliest to NERPC Secretariat for onward transmission to CEA.

- (i) Banking Transaction(s) for the year 2010 -11, month-wise
- (ii) Banking Transactions already committed for the year 2011 -12

The above information may please be updated regularly on monthly basis and a copy of the same may be sent to GM, Division, CEA directly with a copy to NERPC Secretariat. All constituents agreed to send the information to CEA.

D. 9 Major grid disturbances in the previous month (January, 2011)

There was no major grid disturbance during the month of January, 2011.

The Sub-Committee noted as above.

D. 10 Any other item

i). **Details of tap position of Transformers:** DGM, NERLDC informed that the details of tap position of transformers of respective organization have to be furnished to NLDC to monitor and control the voltage. The name of station, organization, and tap position to be furnished by respective organization in

prescribed format has already been circulated to all the constituents, but the same is yet to receive. He requested all the constituents to furnish the information at the earliest.

Member Secretary requested all the organizations to furnish the data at the earliest.

The sub-Committee noted as above.

ii). DGM, NERLDC informed that Updating of single line diagram of transmission network of constituents, under their control area is required for revising the restoration procedure of NER. He stated that based on the available records they have prepared the SLD's of the Constituents and the same has been circulated to all the constituents but the comments on the same are still awaited. He requested all the constituents to furnish the comments at the earliest.

Member Secretary requested all the constituents to give their comments on SLD in their respective states at the earliest.

The sub-Committee noted as above.

iii). **Restoration Procedure:** DGM, NERLDC informed that restoration procedure been prepared by NERLDC and the copy of the same has been circulated during the OCC meeting. He requested all the constituents to study the same and give their comments by end of February, 2011 before finalization of the procedure.

The sub-Committee noted as above.

D. 11 Date & Venue of next OCC meeting

It is proposed to hold the 60th OCC meeting of NERPC on 11th March, 2011 (Friday). The venue of meeting will be intimated in due course.

The meeting ended with a vote of thanks to the Chair.

Annexure-I**List of Participants in the 59th OCC meeting held on 15/02/2011**

Sl. No	Name & Designation	Organization	Contact No. /e-mail ID
1.	No Representative	Ar. Pradesh	
2.	Sh. G. K. Das, CGM, LD&C	Assam	09435085129
3.	Sh. K.K. Das, DGM, LD&C	Assam	09435182116
4.	Sh. A.K. Saikia Sr. Mgr, LD&C	Assam	09864116176
5.	Sh. T. Gidon, AEE, SLDC,	Meghalaya	
6.	Sh. K.W. Sohlang, AEE, SLDC,	Meghalaya	03642550020
7.	No Representative	Mizoram	
8.	No Representative	Manipur	
9.	No Representative	Nagaland	
10.	No Representative	Tripura	
11.	Sh. N.R. Paul, DGM	NERLDC	09436302723
12.	Sh Anupam Kumar, Sr. AE.	NERLDC	09436335379
13.	Sh M.P. Nath Engr.	NERLDC	09436335374
14.	Sh. D.K. Sarma, GM	NERTS	09436302811
15.	Sh. H. Talukdar, Mgr.	NERTS	09436335237
16.	Sh. Bhaskar Goswami, Sr. Mgr	NEEPCO	09436163983
17.	Sh. B.K. Jain, Member Secretary	NERPC	09436706436
18.	Sh. P.D. Siwal S.E (O)	NERPC	09436998378
19.	Sh. A.K. Mishra, S.E	NERPC	09402134275
20.	Sh.B. Lyngkhoi, AS	NERPC	09436163419
21.	Sh. D.K. Bawri, AEE	NERPC	09863317236

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Shutdown Programme for the month of February, 2011
as approved in the 59th OCCM held on 15.02.2011 at "NERTS
Conference Hall", Shillong.

S/D PROGRAM FOR POWERGRID TRANSMISSION LINES & ITS ASSOCIATED BAYS:					
S/N	Name of Tr. Lines	Date	Time	Purpose	Areas / Feeders Affected
1	220 kV Misa-Dimapur -I	25.02.11 to 01.03.11	08:30 Hrs to 16:30 Hrs	Phase-I: Installation of second numerical Distance protection Relay as per CEA notification dated 21.02.07.	220 kV Misa- Dimapur -I
2	220 kV Misa-Dimapur -II	03.03.11 to 07.03.11	08:30 Hrs to 16:30 Hrs		220 kV Misa- Dimapur - II
3	400 kV Ranganadi-Balipara- I	19.02.11 to 11.03.11	08:00 Hrs to 16:00 Hrs	Shifting of Loc. No. 43 to ERS	400 kV Ranganadi-Balipara- II
4	132 kV Khandong-Haflong	18.02.11 (In collaboration with NERLDC)	08:00 Hrs to 16:00 Hrs	Annual Maintenance	132 kV Khandong-Haflong
5	132 kV Jiribam-Loktak-II	21.02.11 to 23.02.11 (Subject to Dimapur-Imphal line restoration)	Continuous S/D	As permanent measure of repeated deposition of soil b/w locs. 95-96, hill side bottom X-arm will be shifted at top of other side for shifting the bottom conductor	132 kV Jiribam-Loktak-II
6	132 kV Aizwal-Kolasib	28.02.11	08:00 Hrs to 16:00 Hrs	Replacement of R-Phase conductor loc. 213-214/AMP	132 kV Aizwal- Kolashib
7	132 kV Khandong-Khliehriat-I	03.03.11	08:00 Hrs to 16:00 Hrs	Annual Maintenance	132 kV Khandong-Khelheriat-I
8	132 kV Dimapur-Dimapur	18.02.11 (Subject to DoP,Nagaland consent or LILO Completion)	08:00 Hrs to 16:00 Hrs	Annual Maintenance	132 kV Dimapur-Dimapur
9	132 kV Kopili – Khandong(old)	25.02.11	08:00 Hrs to 16:00 Hrs	Annual Maintenance	132 kV Kopili – Khandong(old)

* NOTE : All the associated bay maintenance would be done during the S/D of respective T/ L

S/D PROGRAM FOR POWERGRID SUB-STATIONS / BAYS / ICTS/ REACTORS					
S/N	Name of Elements	Date	Time	Purpose	Areas / Feeders Affected
Bongaigaon / Salakati S/S					
1	400/220 kV ICT	23.02.11 to 25.02.11	45 minutes each day	For interchanging the connection to standby 1-Phase transformer.	400/220 kV ICT
Khliehriat(MeECL) S/S					
2	132 kV Khliehriat(PG)-I	16.02.11	10:00 Hrs to 16:00 Hrs	Dismantling of MOCB under R&M Scheme	132 kV Khliehriat(PG)-Khliehriat-I

S/D PROGRAM FOR NEEPCO:				
Name of Generating Station	Date	Time	Purpose	Areas / Feeders Affected
Kopili-II, HEP	01.01.11	Continuous S/D	Forced S/D due to Stator fault	Kopili-II

S/D PROGRAM FOR AEGEL:				
Name of Generating Station	Date	Time	Purpose	Areas / Feeders Affected
Karbi, HEP	06.03.11 to 17.03.11	Continuous S/D	AMP	Karbi, HEP