

Eastern Regional Power Committee

MINUTES OF 53RD OCC MEETING HELD AT ERPC, KOLKATA ON 13.08.10

List of participants is at Annexure-I.

Sh. A. K. Rampal, Member Secretary, ERPC welcomed all the participants to the 53rd OCC meeting. He also welcomed special invitee Sh. G. Banerjee, Chief Engineer Electrical Distribution, Eastern Railway. He shared that DGPC, Bhutan for the first time has proposed agenda item for discussion in the OCC and looked forward to a fruitful discussion on this issue. Thereafter he requested Sh. A. K. Bandyopadhyaya, Superintending Engineer (Operation), ERPC to take up the agenda items.

Sh. A. K. Bandyopadhyaya took up the items one by one.

ITEM NO. 1(A): CONFIRMATION OF MINUTES OF 52ND OCC MEETING OF ERPC HELD ON 16.07.2010

The minutes were circulated vide letter no. ERPC/SE(OPRN)/OPERATION/2010/2372-2415 dated 29.07.2010 to all the constituents and no observation was received.

Members may confirm the minutes.

Deliberation in the meeting

Members confirmed.

ITEM NO. 1 (B): CONFIRMATION OF DRAFT MINUTES OF IEGC MEETING HELD AT ERPC ON 15.07.2010

The draft minutes were circulated vide letter no. ERPC/SE(OPRN)/OPERATION/2010/2437-65 dated 30.07.2010 to all the constituents and no observation was received.

Members may discuss and finalize the modalities for discharging various responsibilities assigned to ERPC by IEGC.

Deliberation in the meeting

Members confirmed.

ITEM NO. 2: FOLLOW-UP OF DECISIONS OF EARLIER OCC MEETING(S)

2.1 MOCK BLACKSTART EXERCISES IN EASTERN REGION

In pursuance of decisions taken in OCC forum, black start exercises of Teesta HEP and Maithon HEP were carried on 22.04.10 and 27.07.10 respectively.

- In line with decision taken in the 52nd OCC meeting,

- DVC may share its experience of Maithon black start exercise.
 - OHPC/ERLDC may share any development on utilizing Meenakshi HEP as start-up power (required for Black start exercise) for Balimela and Upper Kolab HEP.
 - OHPC and JSEB may furnish programme for mock black start exercises for their respective projects i.e. Indravati (OHPC), Rengali(OHPC) and Subarnarekha (JSEB) HEP.
- Besides, ERLDC has informed that ERLDC is exploring to get start up power from SR through HVDC, Gajuwaka bypass. ERLDC may share the latest development in this regard.
 - Results of test run of DG Sets meant for black start for the month of July'10 may be shared by the utilities.

Deliberation in the meeting

DVC informed that Maithon HEP conducted mock black start exercise for unit#1 and unit#2 in presence of representatives from ERLDC and ERPC on 27.07.10. Auxiliary power for unit#3 was used as start-up power for the exercise. Another mock start exercise along with islanded operation of the units would be conducted later on.

OHPC/ERLDC was requested to share the status on utilizing Meenakshi HEP as start-up power (required for Black start exercise) for Balimela and Upper Kolab HEP. ERLDC informed that OHPC was requested to furnish information vide its letter dated 22.07.10. However the same is yet to be received. OHPC was requested to submit the above information by 20.08.10.

OHPC was requested to explore conducting mock black start for at least one unit of Indravati/Rengali HEP by end of September 2010 and communicate the same by 27.08.10.

JSEB informed that due to less water availability, mock exercise could not be planned for Subarnarekha HEP. However, it confirmed its readiness to conduct the mock exercise, when satisfactory water level is available.

ERLDC expressed that during last grid disturbance in ER in April 2010, start up power could not be extended by ER generating stations with black start facilities and the same was made available from NER after considerable time gap. He requested members to think over consequential thermal generation loss during the delayed period. Keeping this in view, he impressed upon WBSETCL/WBSEDCL to conduct mock exercise for Purulia Pumped Storage Plant (PPSP). WBSETCL intimated that PPSP needs around 160 MW load immediately to black start and also manufacturer's consent for the exercise is required. ERLDC agreed to devise a scheme accordingly and communicate the same to WBSEDCL/WBSETCL. It was decided that ERLDC would communicate with appropriate authorities of PPSP to convince them to conduct mock exercise.

On a query from DGPC, Bhutan, it was clarified that mock exercises for Bhutan Power Stations are not mandatory.

ERLDC informed that getting start up power from SR through HVDC, Gajuwaka bypass is being explored.

It was felt that most of the constituents were conducting the test run of DG sets meant for black start but are communicating their outcome to ERLDC.

Constituents were requested to communicate the following in respect of DG sets of generating stations with black start facility by 31.08.10 to ERLDC.

- *If test runs were conducted during July'10, then the outcome.*
- *Otherwise, reason for not conducting the test run.*

2.2 CONSTITUTION OF A GROUP TO LOOK INTO CESC GRID DISTURBANCE ON 01.07.10

Power supply to major part of Kolkata was affected due to grid disturbance in CESC system on 01.07.10. OCC unanimously felt that a group of experts led by General Manager, ERLDC should analyze this incident from different aspects and come out with its analysis for benefit of all. This group was also empowered to set for itself the focus areas for study.

The group may share the latest status.

Deliberation in the meeting

The group informed that its first meeting would be held on 20.08.10 at ERLDC, Kolkata at 1100 hrs.

2.3 DECLARATION OF EVACUATION LINES OF TENUGHAT POWER STATION AS ASSOCIATED TRANSMISSION SYSTEM (ATS)

The evacuation system of Tenughat power station comprises of 400 kV Tenughat-Biharshariff and 400 kV Tenughat-Patratu (both circuits charged at 220 kV) lines. Historically, Tenughat power station along with its evacuation system was under purview of undivided BSEB. Both these lines were constructed long back by undivided BSEB. After state division w.e.f. 14.11.2000, Tenughat-Patratu and Tenughat -Biharshariff (location no. 1 to 300) line now falls under JSEB, whereas Tenughat -Biharshariff (location no. 300 to 500) line comes under BSEB. Because of this historical background, these lines were never designated as ATS.

Both BSEB and JSEB are doing their bits in O&M of the evacuation lines of Tenughat power station. However, if the onus of O&M is given to TVNL by declaring these lines as ATS, then it will provide flexibility to TVNL for getting them maintained by JSEB, BSEB, Powergrid or any other competitive party and thus explore competition for maintenance charges. Incidentally, it will also enhance co-ordination between maintenance contractor and TVNL for optimising shutdown of line(s) and unit(s).

Considering the above, Member Secretary, ERPC in the 51st OCC meeting requested BSEB, JSEB and TVNL to consider the possibility of declaring the lines as ATS of Tenughat TPS. In the 52nd OCC meeting, it was decided that the

proposal would be communicated to higher authorities of BSEB, JSEB and TVNL.

Since then, the proposal has been communicated to Chairman, BSEB, Chairman, JSEB and MD, TVNL.

BSEB, JSEB and TVNL may share the latest status.

Deliberation in the meeting

BSEB and JSEB were consulted and D.O. letter has been addressed to their Chairperson(s).

2.4: OPERATION OF AUTO RECLOSE FACILITIES ON TRANSMISSION LINES

In the 51st OCC meeting, non-operation of auto-reclose relay was extensively discussed and following data were sought from constituent in case of non-operation of Auto-reclose facilities:-

- a. Line length
- b. Availability of line reactor (with or without NGR), Reactor capacity & NGR capacity.
- c. Auto reclose dead time.
- d. DRs & ELs of the events in which auto reclose failed.

In 52nd OCC meeting, it was decided that in case of failure of auto-reclose facilities, constituents would submit requisite information along with details mentioned above to ERLDC by 31st July 2010. Information is yet to be received except ER-II, Powergrid and WBSETCL.

Members may discuss.

Deliberation in the meeting

The issue was discussed in details during the 7th Protection sub-Committee meeting held on 12.08.10. It was learnt that NTPC, Farakka had also submitted the information. ERLDC impressed upon the importance of auto-reclose facilities on transmission lines and requested constituents to ensure proper operation of auto-reclose during transient faults.

It was decided that constituents would submit the requisite information before 31st August 2010 to help ERLDC to analyze the auto-reclose facilities of the region.

2.5 CONSTITUTION OF A COMMITTEE TO LOOK INTO ISSUES PERTAINING TO GENERATION FROM TALCHER STPS STAGE I & II

In the 12th ERPC meeting held on 04.12.09, constituent members had expressed their apprehensions that Talcher STPS stage II was allocated more coal than stage-I and stage I coal was diverted by NTPC to stage-II with an intent to earn higher revenue. To remove their doubts, it was decided that a Committee will be constituted comprising of Director (Commercial), GRIDCO, Member Secretary, ERPC, Executive Director (TSTPS), NTPC and one officer of Talcher STPS.

As a follow up, ERPC constituted the Committee vide its letter dated 01.01.10.

The matter was also discussed in 47th OCC meeting. The first meeting of the committee was held on 4th March 2010.

ERPC Secretariat collected information on coal linkages from CEA and CIL and the same was forwarded to NTPC for preparation of the report. Subsequently, NTPC circulated the report.

NTPC may inform the latest status on finalization of the report.

Deliberation in the meeting

The report is being finalized.

ITEM NO. 3: OPERATIONAL ISSUES BETWEEN BHUTAN AND INDIAN GRID

PTC vide its letter had raised concern of DGPC & BPC regarding lack of proper co-ordination between DGPC & BPC and PGCIL in the areas of inter co-ordination and tasking of Indo-Bhutan grid system. DGPC had pointed out that in the past DGPC had to back down generation and spill water due to transmission maintenance schedules on the Indian side which could have normally addressed during the winter months when the generation in Bhutan power system is low.

DGPC may share the instances of backing down and members may discuss.

Deliberation in the meeting

DGPC, Bhutan submitted following instances of backing down:

Sl	Outage	Date	Loss (MU)	Remarks
1	Upon request from ERLDC	28.06.10	5.76	Generation back down of 360 MW due to tripping of 400 kV Siliguri-Purnea line for 19 hours from 05 hrs to 24 hrs
2	-do-	29.06.10	0.25	Same reason as above for 2:25 hrs from 00hrs to 2:25hrs
3	Upon request from TMD, BPC	28.06.10	1.13	Generation back down of 250 MW for replacement of damaged disc insulator string and bundle spacer for 400 kV feeder no. III and IV at TPS-78 by TMD, BPC from 1250 hrs to 1910 hrs
4	Upon request from ERLDC	11.07.10	0.14	Generation back down to 1068 MW for 5:52 hrs for carrying out jumpering connection of feeder-I at Binaguri end
5	-do-	21.07.10	0.90	Generation back down to 1070 MW due to shut down of feeder-IV by PGCIL for 07:55 hrs and further generation back down to 800 MW for 3 hours to carry out additional support to ERS dead end tower location 370 of 400 kV Binaguri-Purnea feeder-IV as requested by ERLDC from 07:55 hrs to 18:25 hrs
6	-do-	22.07.10	0.20	Generation back down to 1078 MW due to shutdown of feeder-IV by PGCIL from 08:12 hrs from 08:50hrs to 17:02hrs

7	-do-	25.07.10	1.45	Generation back down to 850 MW & 1000 MW for 7:30hrs from 09:10hrs to 16:40hrs
8	-do-	26.07.10	1.41	Generation back down to 850 MW for replacement of corona ring in B-phase of line isolator of Binaguri-Purnea feeder-IV at Purnea end for 7hrs from 16:30hrs to 23:30hrs

Member Secretary, ERPC requested concerned parties to analyze the above instances of backing down, which will be taken up in the next OCC meeting.

He shared that all hydro generating stations will be treated at par in the event of any disaster and consequential loss in transmission capability. It is fair for each party to share the burden of disaster. However, without going into the merits of each instance pointed out by DGPC, Bhutan, as a general rule he shared that Eastern Region should lose a single unit from hydro station due to avoidable maintenance of transmission lines. Because, it is a cheap source and it can not be conserved. In this regard, he advised PGCIL/ERLDC to abide by this guideline.

It was decided that the issue would be discussed again in the next OCC meeting along with analysis of above instances.

ITEM NO. 4: HIGH VOLTAGE PROBLEM AT 400/220 KV BIHARSHARIFF S/S OF PGCIL-BSEB

BSEB is facing high voltage problem at Biharshariff grid substation of PGCIL. In case of any shutdown or tripping of 220 kV Biharshariff-Bodhgaya D/c transmission line, when Bodhgaya tries to avail power from afore said line, it experiences a very high 220 kV voltage system at Bodhgaya of the order of 248 kV or so. So Bodhgaya becomes unable to charge its 3x150 MVA (220 /132 kV) power transformers on such a high voltage system. BSEB has to request time to time on regular basis to ERLDC to reduce the system voltage at 400/220 kV Biharshariff grid s/s of PGCIL. Due to this problem, newly commissioned 220/132/33 kV Begusarai Grid S/s also could not charge its 1x100 MVA 220/132 kV power transformer. It remains idle. No power is being taken from it.

BSEB may explain and members may discuss.

Deliberation in the meeting

BSEB pointed out that due to high voltage experienced at Biharshariff s/s, it was not able to charge ICT at Begusarai.

It was decided that ERLDC would investigate the matter and suggest suitable measures.

ITEM NO. 5: RESTRICTED GOVERNOR MODE OF OPERATION

As per clause no 5.2(f) of IEGC, thermal and hydro units of ER are expected to operate under Restricted Governor mode w.e.f 01.08.2010. ERLDC had analysed the performance of individual units during 01/08/10 to 04/08/10 with the data available from SCADA system.

It is observed that except Teesta units, no other unit is giving proper primary response to the frequency fluctuation. Further no other generating station except FSTPP, KHSTPP Stg - I&II, TSTPP stage - I&II and BKTPP have submitted self certification regarding implementation of RGMO.

Members may discuss.

Deliberation in the meeting

ERLDC made a detailed presentation on responses of various generating stations during the period. Response of generating station in the backdrop of tripping of one unit of TSTPP on 08.08.10 was analyzed. It was observed that except 2 units of Farakka and Teesta stations, primary responses of other stations were inconsistent and not satisfactory.

In this regard, Farakka STPS, NTPC also made a presentation on its performance in RGMO. Other generating stations were also encouraged to share their experience in future OCC meeting(s).

From the presentation of Farakka STPS, it emerged that capturing of only MW output and frequency might not reflect the participation of the units in RGMO. Capturing of control valve position is also an important parameter to conclude participation of generators in RGMO.

All generators were requested to self-certify regarding implementation of RGMO in their stations.

Farakka complained of machine problem while running in RGMO due to frequency excursion of the order of 0.3-0.4 Hz. ERLDC clarified that since all designated units are not participating in RGMO, frequency excursion is catered by limited machines resulting into problems. He urged all generating companies to bring their units in RGMO.

ITEM NO. 6: OPERATIONAL PLANNING

(A) ANTICIPATED POWER SUPPLY POSITION FOR THE MONTH OF SEPTEMBER'10

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the months of September'10 were prepared by ERPC Secretariat on the basis of finalized LGBR for 2010, keeping in view that the units are available for generation and expected load growth etc. The details are placed for discussion.

Members may confirm.

Deliberation in the meeting

Modified anticipated power supply position for the month of September'10 is given at Annexure-II.

(B) PROLONGED OUTAGE OF POWER SYSTEM ELEMENTS IN ER

<i>Name</i> <i>(1)</i>	<i>Date of Outage</i> <i>(2)</i>	<i>Reason</i> <i>(3)</i>	<i>Restoration Status</i> <i>(4)</i>
DPL#7 (300 MW)	30/05/10	Rotor problem	Likely to be restored by November'10
CTPS#7(250 MW)	24/04/10	C & I problem	Minor damage in LP rotor and taken to Haridwar, BHEL. Likely to be restored by August'10
400 kV Malda-Purnea D/C	24/07/09	Tower collapse at Loc.71	Likely to be restored by November'10
400 kV Tala - Binaguri - II	29/05/10	XLPE Cable problem at TALA	Referred the matter to manufacturer. Likely to be restored by September'10
400 kV Binaguri-Purnea-II	13/04/10	Tower Collapse	Likely to be restored by August'10
220 kV Purnea-Dalkhola D/c	13/04/10	Tower Collapse	Likely to be restored by October'10
220 kV Ara - Khagol D/C	30/05/10	Tower Collapse	Three towers in Sone river crossing damaged at location no 46, 47 & 48. Circuit -I of this line is restored by PGCIL on 10.06.10. Restoration on normal towers expected by Sept'10
132 kV Dehri - Dumraon D/C	07/05/10	3 Tower Collapse	Out of the three towers, two tower erections have been completed except it V cross arms. Now V cross arm erection is in process. 3 rd tower erection will be taken up followed by stringing of the line. The line is likely to be restored by 20.08.10.
132 kV Biharsariff/Rajgir - Barhi D/C	07/05/10	26 Tower Collapse	Out of the 26 towers collapse, erection 16 towers have been completed. Work is in progress. Considering the huge volume of work involved, tentative date would communicated later on.
50 MVAR Line Reactor of 400KV KhSTPP-Maithon- II at Maithon end	August,2009	Winding flashover	Likely to be restored by June'11
Circuit Breaker in 400 kV bus reactor bay at Jeerat S/s	10.04.10	CB failure	Likely to be restored by July'10

Concerned constituents may share the latest status on outage of above elements.

Deliberation in the meeting

Updated status is reproduced in column (4) of the above table.

(C) SHUTDOWN PROPOSAL OF TRANSMISSION LINES AND GENERATING UNITS FOR THE MONTH OF SEPTEMBER'10.

Shutdown proposals of the generating stations for the month of September 2010 as agreed during preparation of LGBR for the year 2010-11 are placed for discussion. Shutdown proposals of transmission elements as received are also

given in the annexure.

Deviations, if required, may please be intimated along with reasons and Members may please discuss.

Deliberation in the meeting

Member Secretary cited reference to s/d of unit#4 of Mejia TPS (DVC), which was planned in the month of April 2010, but did not avail s/d till July 2010. He expressed that OCC should monitor the follow-up action on shutdowns approved by it. Therefore, he requested all constituents to submit respective feedback.

Approved s/d programme in the month of September is given at Annexure-III.

(D) STATUS OF COMMISSIONING OF NEW UNITS IN EASTERN REGION DURING 2010-11 AND 2011-12

Name of the Power Project	State (Agency)	Unit no	Capacity MW	Schedule Year Commissioning	Expected Commissioning
(1)	(2)	(3)	(4)	(5)	(6)
Mejia Phase-II TPS	WB (DVC)	Unit#1 Unit#2	500 500	2010-11 2010-11	Sept-10 Nov-10
Teesta Low Dam-III HEP	WB (NHPC)	4 units	4x33	2010-11	Feb-11
Teesta Low Dam-IV HEP	WB (NHPC)	4 units	4x40	2011-12	---
Teesta -III	Sikkim (Teesta Urja)	3 units	3x200	2011-12	
Farakka Stage-III TPS	WB (NTPC)	Unit#6	500	2010-11	Feb-11
Kodarma TPS	Jhar (DVC)	2 units	2x500	2010-12	
Durgapur Steel TPS	WB (DVC)	2 units	2x500	2010-11	Mar-11
Raghunathpur TPS	WB (DVC)	2 units	2x600	2011-12	
Santalalih TPS	WB (WBPDCCL)	Unit#6	250	2010-11	Dec-10
Chujachen HEP	Sikkim (GATI)	2 units	99	2010-11	Oct-10
Maithon RBC JV TPS	Jhar (IPP)	2 units	2x525	2010-12	
Sterlite TPP	Orissa (Sterlite Energy)	4 units	4x600	2010-11	1 st unit synchronised on 10 th July 2010

Members may like to add/update the present status of generating stations and associated transmission system.

Deliberation in the meeting

Concerned utilities were requested to apprise the status in the next OCC meeting.

ITEM NO. 7: ISSUES RAISED BY ERLDC

7.1 NON RECEIPT OF GRID INCIDENT REPORTS

Non submission of report of Grid incident was discussed threadbare in 51st OCC meeting. Since then, WBSETCL started sending preliminary reports of incidents. However detailed reports are yet to be furnished. Reports from other constituents are yet to be received. Since non submission of report is violation of IEGC, It is once again reiterated to submit Report as per IEGC.

Members may deliberate.

Deliberation in the meeting

ERLDC impressed upon the constituents to submit the “Flash Report” immediately and subsequently “Detailed Report” (format given in ERLDC website) for grid incident(s) in respect of all important network elements defined in “Operating Procedure” developed by ERLDC (also available in ERLDC website).

7.2 ANALOG TRIGGERING OF DISTURBANCE RECORDERS

GM, ERLDC has written a letter to all constituents on this subject on 03/06/10 and deliberation on the subject was made in the 51st OCC meeting for implementation of the same. As per M.O.M of 52nd OCC, all utilities were to convey their action plan regarding the same by 31st July, 2010 to ERLDC. But utilities are yet to send their action plans.

Utilities may inform the initiatives taken in this regard.

Deliberation in the meeting

The issue was discussed in details during the 7th Protection sub-Committee meeting held on 12.08.10.

7.3 UNDER FREQUENCY RELAY OPERATION-STATUS

As per present UFR scheme of ER, following are the UF relay settings and load relief expected:

SYSTEM	STAGE-I(48.5 HZ INSTANTANEOUS)	STAGE-II(48.2 HZ INSTANTANEOUS)	STAGE-I(48.0 HZ INSTANTANEOUS)
BSEB	30 MW	36 MW	43 MW
JSEB	17 MW	12 MW	22 MW
DVC	56 MW	55 MW	76 MW
OPTCL	77 MW	77 MW	105 MW
WBPDCI(INCL CESC)	120 MW	120 MW	164 MW
TOTAL	300 MW	300 MW	410 MW

As per details submitted by WBSETCL during 52nd OCC meeting, following is the quantum of load connected to UFR in their system:

48.5 HZ-----81 MW against Scheme of 120 MW
48.2 HZ-----95 MW against Scheme of 120 MW
48.0 HZ-----106 MW against Scheme of 164 MW
In addition to above, WBSETCL connected 760 MW at Frequency of 47.6 HZ.

As per details submitted by OPTCL during 52nd OCC meeting, following is the quantum of load connected to UFR in their system:

48.5 HZ-----77 MW against Scheme of 77 MW
48.2 HZ-----77 MW against Scheme of 77MW
48.0 HZ-----105 MW against Scheme of 105 MW

From the above, it may be noted that in WBSETCL system, the quantum of UFR connected load is at variance with the scheme and the UFR connected load is less than the scheme.

It is felt that when required, the actual quantum of load to be shed through UFR would be further less as it is expected that load declared by OPTCL and WBSETCL in feeders mentioned are maximum loading of those feeders.

Under the circumstances mentioned above, to connect at least double the load as mentioned in the scheme to get actual relief in terms of MW as per scheme at least during real time is essential for maintaining security of the grid.

Further as per clause no 5.2(n) of IEGC, all constituents are to furnish the details of UFR operations as and when called upon to operate and monthly consolidated report on UFR operation to ERLDC and RPC for onward transmission to CERC.

In view of above, BSEB, JSEB and DVC are to confirm that all UFR are in service and submit feeder-wise UFR connected load.

All SLDCS and Constituents are to

- (1) take decision to connect double the load as mentioned in the scheme
- (2) send report on UFR operations as and when called upon and a monthly consolidated report. If condition for UFR operation did not arise i.e Frequency did not touch 48.5 HZ during the preceding month, then 'Nil' report may be sent.

Deliberation in the meeting

The issue was discussed in details during the 7th Protection sub-Committee meeting held on 12.08.10.

7.4 DEMAND MANAGEMENT MEASURES

As per 5.4.2(e) of Demand Management clause of IEGC, to maintain the system frequency within permissible band all constituents are identify following four categories of interruptible loads

1. loads for scheduled power cuts/loadshedding
2. loads for unscheduled load shedding
3. loads for UFR actuated shedding
4. loads for SPS(special protection scheme) actuated shedding

The clause also mentions that there will be no overlapping between different groups of loads to be shed as mentioned above. ER at present does not have any SPS actuated load shedding scheme.

A presentation on the subject was made by ERLDC in 51st and 52nd OCC meeting and constituents were requested to furnish the details of first three categories of identified load. However, details are still awaited.

Members may discuss.

Deliberation in the meeting

The issue was discussed in details during the 7th Protection sub-Committee meeting held on 12.08.10.

7.5 NON-COMPLIANCE OF DIRECTIONS ISSUED BY SLDC

Vide clause no 5.5.1.c (h) of IEGC, non-compliance of SLDC direction by SEB/Distribution licenses/bulk consumers to curtail overdrawal is to be reported to ERLDC for incorporating the same in weekly report to be prepared and published by ERLDC.

All SLDCs are to inform ERLDC the instances of non-compliance of SLDC directions by SEB/Distribution licenses/bulk consumers to curtail overdrawal, within two days of the incident.

No report of violation of SLDC direction by any of the SEB/Distribution License/Generating station for the month of July 2010 was received by ERLDC. Hence ERLDC considers 'Nil' report for the month of July 2010.

Members may note.

Deliberation in the meeting

ERLDC informed that Orissa started submitting the report, whereas rest are yet to follow. In this respect, it was felt to standardize the format for submission of non-compliance of SLDC direction. ERLDC agreed to do the same.

7.6 ISSUE RELATED TO RTU PROBLEM AND SPEECH CONNECTIVITY PROBLEM UNDER CENTRAL SECTOR S/S AND SLDC

The issue was discussed in detail in 52nd OCC meeting and ERLDC impressed upon the constituents to ensure optimum utilization of SCADA system and remove discrepancies in data and voice telemetry. The discrepancies in regard to RTU and Speech connectivity under central sector s/s and SLDC are given at Annexure-IV.

Members may discuss.

Deliberation in the meeting

ERLDC pointed out that RTUs of some substations are not reporting,

whereas some substations do not have RTUs. Due to these limitations, SCADA system could not be utilized optimally. ERLDC informed that ER is spending Rs. 2 lacs/day on account of AMC of SCADA system, but still our system is beset with RTU problems.

ERLDC impressed upon the constituents to remove above problems in data and voice telemetry at the earliest. It was agreed that action plan of the constituents in this regard would be discussed in next OCC meeting.

In this regard, ERLDC recollected the decision of last SCADA Committee meeting, wherein constituents were requested to submit list of coordinator at each RTU/site. But the same was yet to be received. ERLDC was requested to directly communicate with STU to get the nomination at the earliest.

ITEM NO. 8: REVIEW OF GRID PERFORMANCE DURING JULY, 2010

Frequency, hydro reservoir levels, important events, grid disturbances etc are given at Annexure-V(a).

ERLDC may kindly present the salient features of grid during JULY 2010.

Deliberation in the meeting

The presentation made by ERLDC is given at Annexure-V(b).

ITEM NO. 9: ANY OTHER POINTS

9.1: ISSUE RAISED BY BSEB

BSEB informed that while U#3 and U#4 of Kahalgaon Stage-I STPS were put under shutdown due to shortage of coal, all the three units of Kahalgaon Stage-II including recently commissioned U#7 were running. As Bihar has no share from Kahalgaon Stage-II, it is being adversely affected.

ERLDC confirmed BSEB's observation.

Member Secretary, ERPC took critical note of the incident and pointed out that the coal allocation for U#7 was specifically flagged in last ERPC meeting, where NTPC had assured to make adequate additional coal arrangement for running U#7. In spite of NTPC's assurance, it seems that units of Stage-II were running at the expense of coal allocated from units of Stage-I. This incident assumes more significance as coal diversion from one stage to another was already flagged for Talcher STPS.

Members agreed with the observation of Member Secretary, ERPC. NTPC were asked to ensure that coal of stage-I was not diverted to stage-II. They were also asked to revert back with their sides of this incident. NTPC assured to put older units first at bar. Members desired to refer the issue to ERPC, if required.

9.2: ISSUE RAISED BY EASTERN RAILWAY

Eastern Railway informed that there were frequent power interruptions at Sankarpur and Jamtara substation of JSEB simultaneously causing disruptions in train service between Chittaranjan and Jha-Jha station of Eastern Railway (list of interruptions given at Annexure-VI). This has been further aggravated as 132 kV power supply has not been provided by BSEB to Jha-Jha TSS, which is commission since long.

BSEB and JSEB were requested to investigate interruptions given in the annexure and the same would be again discussed in next OCC meeting.

The constituents also agreed to extend all possible helps to Railways for reliable power supply.

9.3: ISSUE RAISED BY DGPC, BHUTAN

PROVISION OF ISD FAX FACILITY AT BINAGURI S/S AND CONTROL OF ERLDC

Since commissioning of Tala HEP in July 2006, the messages for operation of power plant and its 400 kV Tala- New Siliguri feeders are collecting from above station at our cost. It is requested to recommend for providing ISD facility for them in order to avoid delay in operation of plant due to non-availability of such facility. Such facility will enhance the better coordination fro maintaining the system stability and reliability.

PGCIL and ERLDC may comment.

Deliberation in the meeting

In light of the discussion of item (3), DGPC, Bhutan agreed to reconsider its requirement and take up in the next OCC.

9.4: ISSUE RAISED BY WBSEDCL

ALLOCATION OF SHARE IN RESPECT OF DVC MEJIA U#5

In earlier occasions, each and every allotment of share in respect of DVC Mejia #5 was made by ERLDC following the allocation sheet of DVC duly concurred by SLDC/WBSETCL and ALDC/WBSEDC. But for 02.08.10, 25 round the clock power has been allotted by ERLDC in rev-01, without following the above procedure. Upon enquiry, ERLDC expressed their view that it was made as per LTOA and no concurrent is required in this regard.

ERLDC may comment upon the procedure to be followed for allocation of share i.r.o. Mejia#5 and members may discuss.

Deliberation in the meeting

The issue of scheduling of Mejia U#5 is between WBSETCL/WBSEDCL and DVC and ERLDC has no role in it. Therefore, DVC and WBSETCL were requested to sort out the issue bilaterally.

It was learnt that PPA for Mejia U#5 is yet to be signed by WBSETCL/WBSEDCL. In this regard, Member Secretary, ERPC suggested that if required, a separate meeting could be arranged among WBSETCL/WBSEDCL, DVC and ERPC Sectt.

The meeting ended with thanks to the Chair.

REVISED ANTICIPATED POWER SUPPLY POSITION OF ER DURING SEPTEMBER '10

SL.NO	PARTICULARS	Peak demand (MW)	Energy (MU)
1	BIHAR		
	i) NET MAX DEMAND	1960	1060
	ii) NET POWER AVAILABILITY- Own Source	120	54
	- Central Sector	1511	997
	iii) SURPLUS(+)/DEFICIT(-)	-329	-10
2	JHARKHAND		
	i) NET MAX DEMAND	1040	580
	ii) NET POWER AVAILABILITY- Own Source	675	420
	- Central Sector	514	287
	iii) SURPLUS(+)/DEFICIT(-)	149	128
3	DVC		
	i) NET MAX DEMAND (OWN)	2375	1400
	ii) NET POWER AVAILABILITY- Own Source	2200	1167
	- Central Sector	184	120
	Long term Bi-lateral(200 MW MP+230(DTL)	430	310
	iii) SURPLUS(+)/DEFICIT(-)	-421	-422
4	ORISSA		
	i) NET MAX DEMAND	3560	2000
	ii) NET POWER AVAILABILITY- Own Source	2952	1689
	- Central Sector	963	661
	iii) SURPLUS(+)/DEFICIT(-)	356	350
5	WEST BENGAL		
5.1	WBSEDCL		
	i) NET MAX DEMAND (OWN)	4140	2120
	ii) CESC's DRAWAL	490	111
	iii) TOTAL WBSEDCL's DEMAND	4630	2230
	iv) NET POWER AVAILABILITY- Own Source	3150	1768
	- Import from DPL	54	116
	- Central Sector	1217	782
	v) SURPLUS(+)/DEFICIT(-)	-209	436
5.2	DPL		
	i) NET MAX DEMAND	333	203
	ii) NET POWER AVAILABILITY	387	320
	iii) SURPLUS(+)/DEFICIT(-)	54	116
5.3	CESC		
	i) NET MAX DEMAND	1640	882
	ii) NET POWER AVAILABILITY - OWN SOURCE	1100	764
	FROM WBSEDCL	490	111
	iii) TOTAL AVAILABILITY	1590	875
	iv) SURPLUS(+)/DEFICIT(-)	-50	-7
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
	i) NET MAX DEMAND	6112	3205
	ii) NET POWER AVAILABILITY- Own Source	4637	2852
	- Central Sector	1217	782
	iii) SURPLUS(+)/DEFICIT(-)	-259	429
7	SIKKIM		
	i) NET MAX DEMAND	95	45
	ii) NET POWER AVAILABILITY- Own Source	16	5
	- Central Sector	141	95
	iii) SURPLUS(+)/DEFICIT(-)	62	55
8	EASTERN REGION At 1.03 AS DIVERSITY FACTOR		
	i) NET MAX DEMAND	15119	8289
	Long term Bi-lateral(200 MW MP+230(DTL)	430	310
	ii) NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	15130	9128
	iii) PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	-419	530

ANNEXURE- III

Approved Programme of Maintenance Of Transmission Lines and Generating Units for September' 10

(A) GENERATING UNITS :

Agency	Station	Unit no.	Capacity (MW)	Approved Programme in LGBR	Reason of S/d	Remarks
JSEB	PTPS	Unit No 1	40	25.09.2010 to 15.10.2010	Boiler overhauling	Deferred.
DVC**	BTPS-B	Unit No 1	210	01.09.2010 to 25.09.2010	Annual Overhauling	Agreed w.e.f. 20.08.10 to 23.09.10
WBPDC	BkTTP	Unit No 3	210		Boiler Turbine Generator overhauling	Continuing from 29.07.10 to 10.09.10
WBPDC	BkTTP	Unit No 4	210		Boiler overhauling	Agreed w.e.f. 11.09.10 to 25.09.10
WBPDC	STPS	Unit No 1	120	21.09.2010 to 30.09.2010	Short shut down	The unit under decommissioning
WBPDC	KTPS	Unit No 1	210	21.06.2010 to 30.07.2010	BTG Overhauling	Due to delayed receipt of material, s/d taken w.e.f 03.08.10 to 12.09.10
WBPDC	KTPS	Unit No 4	210	16.09.2010 to 25.09.2010	Short shut down	Deferred
NTPC	FSTPP	Unit No 2	200	16.08.2010 to 09.09.2010	Boiler overhauling	Agreed w.e.f. 11.09.10 to 30.09.10
NTPC	KhSTPP	Unit No 4	210	01.09.2010 to 25.09.2010	Boiler Overhauling	Agreed w.e.f 01.09.10 to 20.09.10
NTPC	TSTPP	Unit No 1	500	07.06.2010 to 11.07.2010	Boiler Maintenance	Agreed 01.09.10 to 30.09.10

** In addition, DVC's proposal to avail s/d of MTPS #4 (210 MW) w.e.f. 05.08.10 to 04.09.10, which was approved in 48th OCC meeting but not availed, was post-facto approved with advice to DVC to inform the such deviation to ERPC. The proposal of s/d of DTPS U#4 (210 MW) w.e.f. 01.11.2010 to 30.12.2010 would be discussed in next OCC meeting.

(B) TRANSMISSION ELEMENTS:

Organization	Name of the Element	From		To		Remarks
		Date	Time hrs	Date	Time hrs	
Farakka, NTPC						
	400 kV Farakka-Kahalgaon line-1 *		ODB 0930		ODB 1630	Relay Testing
Kahalgaon, NTPC						
	400 kV Kahalgaon-Biharshariff line-4	08.09.10	ODB	15.09.10	ODB	Preventive maintenance
	400 kV Kahalgaon-Biharshariff line-3	22.09.10	ODB	22.09.10	ODB	,,
	132 kV Kahalgaon-Kahalgaon line	11.09.10	ODB	11.09.10	ODB	,,
TSTPP, NTPC						
	400 kV TSTPP-HVDC#1	07.09.10	OCB	08.09.10	OCB	Preventive maintenance
	400 kV TSTPP-HVDC#2	10.09.10	OCB	11.09.10	OCB	
	400 kV TSTPP-HVDC#3	14.09.10	OCB	15.09.10	OCB	
	400 kV TSTPP-HVDC#4	17.09.10	OCB	18.09.10	OCB	
PGCIL						
	400 kV bus-I at Maithon s/s including 400 kV Kahalgaon-Maithon-II **	25.08.10	OCB	26.08.10	OCB	Testing, commissioning and connection of isolators
	400 kV bus-II at Maithon S/s **	26.08.10	OCB	26.08.10	OCB	-do-
	315 MVA ICT-II	20.08.10	OCB	19.09.10	OCB	Connection of bus pipe between main and tie bay
	315 MVA ICT-I	23.08.10	OCB	31.08.10	OCB	Erection of ICT isolator with pipe modification
	400 kV Maithon-Jamshedpur	13.08.10	OCB	14.08.10	OCB	Erection of LM
	50 MVAR bus reactor at Maithon	20.08.10	OCB	15.08.10	OCB	Erection, testing and commissioning of CB and Bay eqpts

220 kV Pusauli-Ara D/c	17.08.10	ODB	18.08.10	ODB	Facilitate stringing work of 765 kV S/c Gaya-Balia line
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Note:

- 1) * S/d of 400 kV Farakka-Kahalgaon line-1 was agreed subject to restoration of 400 kV Malda-Purnea circuit.
- 2) ** Shutdown on 26.08.10 agreed in principle; however prior approval needs to be taken from DVC and ERLDC before availing the shutdown.
- 3) PGCIL also asked for shutdown of Binaguri-Purnea D/C for restoration on normal towers. However, considering criticality of the grid, they were asked to postpone this maintenance at least upto (beyond) 15th October 2010.
- 4) Actual shutdown needs to be taken in consultation with ERLDC.

OCB: On Continuous basis, ODB: On Daily Basis

S. N.	CONSTITUTE	RTU exist but not reporting	RTU not exist	REMARKS
1	DVC	Barhi	Mejia -B	
		Kolaghat	Burnapur	
			Manique	
2	OPTCL	Machkund (Burnt)	NALCO	
			RSP	
			ICCL	
			HINDALCO -HIRAKUND	
			BPSL -JHARSUGUDA	
			IFFCO	
3	BSEB	Khagul	Arrah	
		Karmanasha	Darbhaga	
		Sabour	Kisanganj	
		Purnea	Rajgir	
		Sultanganj		
		Dumraon		
		Sonnagar		
		Valmikinagar		
		Siwan		
		Samastipur		
4	JSEB	RAMCHANDRAPUR	Hatia (N)	
		JAMTARA		
		TENUGHAT		
		DEOGHAR		
		GARWAH		
		GOELKERA		
		JADUGODA		
		KENDPOSI		
		RAJKHARSWAN		
5	WBSETCL	Sagardighi(Generation data)	Bidhan Nagar -400	
		PPSP (Generation data)	Subhasgram - 220	
			Kalingpong	
6	CESC	ALL Generating Station .		
7	NTPC	Barh NTPC		
8	POWERGRID	Ranchi	Arrah	
		Gangtok		
		Purnea -400		
		Purnea -220		
9	Sikkim	Melli		
10	Bhutan	Tala	Chukha	

SPEECH CONNECTIVITY PROBLEM UNDER CENTRAL SECTOR S/s & SLDC

S.N	Substation	Control Room PUNCOM No.	STATUS	REMARKS
1	Patna			No Voice facilities are available
2	Teesta			No Voice facilities are available
3	Ranchi			No Voice facilities are available
4	Melli			No Voice facilities are available
5	Gangtok (PG)			No Voice facilities are available
6	Baripada (Kalabadia)	500428	not OK	
		528401	not OK	
7	Maithon	500437	* not OK	* Noisy
		525402	not OK	
8	Muzaffarpur	53627/28	not OK	Since last 1.5 year.
9	Purnea	500431	not OK	Down since 23/04/10
		529401	not OK	Down since 23/04/10
10	Purnea New	500436	not OK	down since last one year .
11	Maithon	500437	* not OK	* Noisy
		525402	not OK	
12	Muzaffarpur	53627/28	not OK	Since last 1.5 year.
13	Purnea	500431	not OK	Down since 23/04/10
		529401	not OK	Down since 23/04/10
14	Purnea New	500436	not OK	down since last one year .
		523402	not OK	
15	Chukha			No Voice facilities are available
SLDC				
1	SLDC ,BHUBANESWAR	500417	not OK	
2	SLDC ,PATNA	500421	not OK	down since last one year .
		500422	not OK	down since last one year .
		134 -500111* / 112	*NOT OK	
3	SLDC ,HOWRAH	500426	not OK	down since last one year .

REVIEW OF GRID PERFORMANCE DURING JULY'10

A) FREQUENCY:

The frequency profile of ER for last couple of months is tabulated below:

Month	% of time frequency remained between					
	<49.2 Hz	49.2-49.5 Hz	49.5-49.7 Hz	49.7-50.2 Hz	> 50.2 Hz	49.5-50.2 Hz
June'10	0.53	5.22	17.45	72.38	4.42	89.83
July'10	2.31	8.27	17.03	67.06	5.33	84.09

Maximum and minimum frequency observed during the month was as under:

Maximum Frequency			Minimum Frequency		
Frequency (Hz)	Date	Time (Hrs)	Frequency (Hz)	Date	Time (Hrs)
50.72	05.07.10	04:03	48.70	16.07.10	21:18

B) UFR OPERATION IN ER

As system frequency remained above 48.5 Hz, no UFR operation took place in ER grid during the month.

C) WATER LEVEL IN MAJOR HYDRO RESERVOIRS IN THE EASTERN REGION

Name of the Reservoirs	MDDL (m)	FRL (m)	Level in mtrs.	
			31.07.10	31.07.09
Balimela	438.91	462.08	447.02	444.03
Hirakud	179.83	192.02	187.50	184.96
Indravati	625.00	641.84	629.20	635.5
Rengali	109.72	123.44	110.88	115.18
Upper Kolab	843.78	857.78	849.17	848.48

D) COAL STOCK IN VARIOUS TPSs OF EASTERN REGION AS ON 31.07.10

Out of 23 TPS in ER

- 6 stations were "Super-critical" (less than 4 days coal stock)
- 9 stations were "Critical" (less than 7 days coal stock)

E) IMPORTANT EVENTS

- 220 kV Kalyaneswari-Maithon new tie line no#237, 238 put on service at 19:55 hrs and 20:00 hrs of 20.07.10 respectively.