

दूरभाष Tel.- 26967840,42,45,26967900,26868681

फैक्स Fax - 26865206

भारत सरकार

**उत्तर क्षेत्रीय विद्युत समिति**

18-ए, शहीद जीत सिंह मार्ग,  
कटवारिया सराय, नई दिल्ली-110016.

*Government of India*

**Northern Regional Power Committee**

18-A, Shaheed Jeet Singh Marg,  
Katwaria Sarai, New Delhi-110016

No. NRPC/SE(O)/Joint-RPC/2007/

Dated: 15. June, 2007

To

( As per list attached )

**Sub:- Joint meeting of WRPC and NRPC chaired by Member (GO)&D), CEA held on 17.05.2007 at New Delhi – Minutes**

Sir,

A joint meeting of WRPC and NRPC chaired by Member (GO&D), CEA was held on 17<sup>th</sup> May, 2007 at New Delhi to discuss over drawl and low frequency operation of combined grid. The minutes of the same have been issued and are available on NRPC website at <http://www.nrpc.gov.in> A copy of the minutes is enclosed for favour of information and necessary action.

Encl: As above

**-Sd-**

**( S.P.S.Gaharwar )  
Member Secretary**

**Copy for information to: SA to Member (GO&D), CEA**

## **Record note of Joint Meeting of NRPC and WRPC taken by Member (GO&D), CEA on 17<sup>th</sup> May 2007 at New Delhi**

List of Participants is enclosed at Annexure-I.

Member (GO&D), CEA welcomed Chairman WRPC, Chairman NRPC and the delegates. He stated that the meeting was important for proper co-ordination in real time situation after the synchronization of NR grid with central grid on 26.08.06. Significant improvement in frequency profile was observed in the first few months but, subsequently situation became bad and was worst in January, 07 when frequency remained below 49 Hz for more than 35% of time. He mentioned that Secretary (Power), MOP had also taken a meeting on 20.10.06. It was decided in the meeting that in case of frequency falling below 49.5 Hz., corrective actions would be taken by all states of WR and NR to curtail the over drawl immediately by 50% and continue to reduce over drawl till frequency was restored back to 49.5 Hz. In the event of frequency falling below 49.2Hz, it was decided that the RLDCs would disconnect the feeders of States / UTs who had not reduced their over drawl. Member (GO &D) expressed his concern stating that some states were not honouring their commitment and so frequency was touching the first level of safety net mechanism. He stated that no state could overdraw at the cost of grid security. The matter has been discussed regularly in various meetings, but the situation had not improved. He requested Chairman WRPC for his reaction on the issue.

Chairman WRPC and Chairman CSEB welcomed the delegates. Expressing his concern on low frequency operation of combined grid, he stated that constituents of WRPC find post synchronization period very difficult. Duration of low frequency regime has increased and UFR operation has become more frequent.

He opined following things on behalf of WRPC.

- 1 Corridor capacity for ER-WR to be restored to 1200 MW, which is presently 1000 MW only. Previously it was 1200 MW.
- 2 Existing units may be utilized at their maximum capacity. He stated that average PLF of generating plants of Chhattisgarh is now 83% , though plants are 25 years old. Other states may also improve upon their generation level.
- 3 Hydro generation level may be raised.
- 4 Bilateral and banking arrangements can be made by the states in advance so that over drawl would not be needed in real time operation.
- 5 Over drawl by 2 to 3% of schedule may be permitted so as to help in maintaining frequency above 49.5 Hz.

Chairman, WRPC requested CEA to operationalise NLDC (National Load Dispatch Centre) at the earliest so that the states would be able to share information and over drawl could be controlled in transparent manner. He also requested for arranging regular joint meeting of constituents of all the four regions.

Member (GO&D), CEA agreed that meeting of all four regions at least once a year may be called. It was also decided that a meeting of RPC may be attended by Chairman and MS of other three RPCs along with Head of RLDCs.

Chairperson NRPC and Managing Director HVPNL stated that with the synchronization of NR grid with ER / NER / WR grid, it has become a major system but assumption of unlimited UI possibility would be suicidal. Further, price of traded power has gone high due to rise in UI price vector. Therefore, some planning and discipline is to be devised for meeting the shortages. He stated that summer 2007-08 is likely to be difficult. He suggested that power may be procured from ER, NER on bilateral basis and arrangement may be made well in time. Resorting to liquid scheduling automatically at low frequency in proportion to over drawl may reduce over drawl to some extent.

MS, NRPC explained the background note and annexure to the delegates indicating the quantum of over drawl made by the constituent at frequency below 49 Hz and actions taken by NRLDC / WRLDC. He stated that both regions have UFRs functional as per records but desired relief is not forthcoming. He took up the agenda for the discussion by the house.

DTL stated that during monsoon, southern and western region become surplus. Only NR has shortage during that period and bilateral arrangements can help. PowerGrid can make the data available to the states as they have made available to MOP. DTL advocated for incentivising the use of CFL, electronic chokes and solar heaters. He informed that Delhi is using them in educational institutes and hospitals also besides govt. buildings

Chairman, MPPTCL opined that the states may obtain a clear picture of surplus / shortage position in other states and this information can be used for bilateral arrangement or banking / load shedding planning etc. He stated that collective overdrawl by WR is meager. WRPC was deprived of their legitimate share at some occasions. Due to high load shedding there had been acute law & order problem and so over drawl beyond a limit must be stopped.

PSEB stated that decision taken at Secretary (Power), MOP meeting on 20.10.06 should be implemented without any exception to control over drawl. Scheduling of liquid fuel for overdrawing states may be extended to inter regional basis so that untapped capacity of one region can be availed by the constituents of other region also.

PSEB opined that role of traders needs to be reviewed as they are considering power as profit making commodity and every state is paying up to his nose. So bilateral / banking arrangements should be encouraged.

PTCUL opined that data provided by RLDC would help in finding banking potential. Distribution Companies may also be advised for demand side management. Generation project may be expedited for early commissioning. Till then bilateral arrangements made after transparent process directly among states, may be adopted.

Maharashtra SETCL opined that data may be collected in advance and analyzed. Likely addition of generation capacity for each state may also be collected. Accordingly each state may plan their drawl, bilateral / banking arrangement and load shedding. People may also be informed about the resulting scenario in advance.

Member (GO&D), CEA stated that each RPC prepares month wise power supply position for whole year. Based on this input from RPCs, Annual load generation balance report is prepared by CEA. This is also reviewed quarterly by the RPCs. This can be utilized for planning purpose as suggested by Maharashtra.

ED, NRLDC stated that LGBR has become a serious matter. Every month its review is needed and may be posted on website and this will be helpful in managing the market as well as planning bilateral arrangements etc. By all India simulation, possibility of higher transfer capability can be explored. Each RLDC tries to maintain grid demand and it is very unpleasant action on part of RLDC to open feeders. He suggested to empower SLDC more to take action on their own. He stated that a number of feeders have been opened in the past but it should be the last resort. SLDC should also not switch off the feeders without informing discoms.

HPSEB informed that last year there was steep fall in hydro generation and they resorted to heavy cut in Jan 07. This year HP has started giving power to MP in advance and they will get it back in coming winter.

GM, WRLDC stated that many a times costlier URS (Un-requisitioned liquid fuel Surplus) power is being scheduled to the constituents of one region, the constituents of other region overdraw at cheaper rate of UI. By raising UI price, higher priced untapped energy would come to grid. He suggested that penalty can be introduced for over drawl. He also opined that 1<sup>st</sup> stage UFR should be raised to 49 Hz to reduce over drawl.

PSEB opposed the revising of UFR setting and stated that it should be used only for grid security and not for load control.

Haryana stated that raising of UFR setting will improve stability only at the cost of disciplined state and in-disciplined state would continue to over draw. Financial impediments would not act as deterrent for over drawl.

UPPCL opined that generation has to be increased to overcome the problem of shortages. He also informed that UFRs are working properly in UPPCL system.

In regard to open access on Inter-Regional links particularly during the winter months, which was affecting tie-up of bilateral arrangements, Member (GO&D), CEA stated that the procedure being adopted by NRLDC in calculating transfer capability required transparency.

ED, NRLDC stated that for last winter they had done simulation by considering N-1 contingency. The procedures had been explained to the states. By releasing corridor by

100-200 MW extra, grid can not be put into trouble. Further, the situation in real time scenario is different. In January this year NRLDC was forced to give less transfer capability because of simultaneous outage of a number of transmission lines.

Member (GO&D), CEA stated that states need to be convinced about how the restrictions on corridor have been imposed. He suggested that NRLDC may discuss the matter 3 months in advance clearly expressing the adopted criteria & limitations so that the States can plan accordingly and may go for bilateral arrangements. He was of the view that NRLDC should not consider extreme contingencies. NRLDC could impose additional restrictions, if required, in real time operation. This discussion may be held by RLDCs before summer, rainy & winter season.

It was agreed that RLDCs would hold discussions with the constituents on open access for inter-regional power before summer, monsoon and winter seasons.

### **Special. Protection Scheme**

Member (GO&D), CEA stated that special protection scheme for inter-regional lines should be finalized at the earliest and progress in this regard may be reported in the next RPC meeting.

After discussion following consensus decisions were taken.

- i. Decision taken at Secretary (Power), MOP in meeting held on 20.10.2006 should be implemented in letter and spirit in order to curtail low frequency operation and maintain the operational discipline for security and reliability of combined grid.
- ii. RLDC would issue two warnings to the states for curtailing over drawl in the event of frequency falling to 49.2 Hz. If desired results are not forthcoming, RLDC is empowered to open the feeders of important towns.
- iii. RLDC would call special meetings before each season and would explain Transfer Capability, adopted procedure for calculation and contingency level considered to the constituents well before the start of each season (Summer, rainy and Winter), so that they may plan for bilateral / banking arrangements and load shedding etc. well in advance.
- iv. A meeting of all the regions will be convened once a year to discuss and resolve inter-regional issues.

Meeting ended with a vote of thanks to the chair.

**List of participants of first meeting of NRPC and WRPC on 17.05.07**

	<b>Sh. Santosh Kumar</b>	<b>Member (GO&amp;D), CEA</b>	<b>In Chair</b>
<b>WRPC</b>			
1.	Rajib Ranjan	Chairman WRPC and CSEB	0771-2242345
2	S.D. Taksande	M S, In-Charge, WRPC	9833550968
3	A Roy	GM, WRLDC POWERGRID	9869453456
4	S.G. Tempe	S. E (Comm), WRPC	9820588747
5	P. Penjayya,	DGM (OS), WRLDC, POWERGRID	022-28314609 9869450206
6	R.K Dutta,	DGM(GM) WRLDC, POWERGRID,	022-28203887 9869450210
7	Shiv Raj Singh	Advisor, C.S.E.B	0771-4066427 9827216858
8	R.B. Brahmbhatt,	CE, SLDC, GETCO, Gujarat	9879200669 0265-2353171
9	R.K. Verma	CMD, MP Power Transmission Co. Ltd. Jabalpur	0761-2661234 04253-24301
10	N.J. Patil	CE, MSLDC, Maha Mumbai	9820101198 022-27601762
11	Subrat Ratho	MD, .MSETCL	9820702700
12	B. Viswanathan	R.M., MSEB HCL NEW DELHI	9810120094
13	S.T. Bhangri,	SE, GOA Electricity Dept.	9422444777
14	A.R. Marathe,	Ex.En.Electricity Dept. Govt. of Goa	9422444003
<b>NRPC</b>			
15	Pranab K. Das	MD, HVPNL and Chairman NRPC	098142-13797
16	SP Singh Gaharwar	MS, NRPC	9868225760
17	S.K. Soonee	ED (SO & NRLDC)	9899091115
18	R.P. Aggarwal	SE (O), NRPC	26513265
19	R.P Singh	Chief Engineer (TW), UP Transco	9412749801
20	Ashok Kumar	Chief Engineer (Trans.) UP Transco.	9415115009
21	V.K. Aggarwal	SE(T&C) , UPPCL Meerut	9412749817
22	S.R. Sethi	Dir (O), DTL	
23	A.k Kaul	GM (SLDC) , DTL	9810299692
24	J.S. Sekhon	Member/Dist. PSEB	0175-2212069 098725-00014
25	N.K. Arora,	Member(Power), PSEB	94172-16041
26	Padamjit Singh	Advisor , PSEB	9870518702
27	V.K. Gupta	Consultant , PSEB	0141-2213553
28	T.P.S. Bawa	OSD, PSEB	9811264080
29	Raghubir Shuvan	HVPN	09356273742
30	A.K. Tandon,	C.E/ Plg & Comm., HVPN	9356273747
31	Kanwar Shamsher Singh	Chairman , HPSEB	0177-2803600
32	V.D. Sharma,	Dy, Chief Engr, SLDC HPSEB	0177-2837649

33	S.Mohan Ram	MD, PTCUL	9927322501
34	A.R. Tak,	Chief Engr., J&K PDD	09419091504
35	R.N. Sharma	Asst. Ex. Engr, J&K POD	09419140758
36	Venkat .Tata	AGM , NRLDC	9910160028
37	A. Mani,	DGM , NRLDC	9873088797
38	S.R. Narasimhan ,	Chief Mgr (TS), NRLDC	011-26854585
39	Alok Kumar	Dy. Mgr , NRLDC	9910261899
40	P. Mukhopadhyay	DGM (OS), ERLDC	033-24126950
41	V.V Sharma	AGM(SO), POWERGRID	26560182 9873549069
42	S.R.Yadav	ED, NCR-HQ, NTPC	
43	S.N. Goel	GM (Comm.) NTPC	9868390199
44	TR Sohal	GM (Comm.) NCR-HQ NTPC	989130469
45	Sunit Kumar	NTPC	
46	Kanwal Jit Singh	NTPC	9868395397
47	Ajay K. Mathur	AGM (Comm.), THDC	0135-2431945
48	B.K Jain,	Director , CEA	26109187
49	Joydeb Bandyopadhyay	SA to M(GO), CEA	
50	H.K. Pandey	Dy.Director, CEA	26732636
51	Rajinder Kumar	AS, NRPC	26519394
52	A.K. Singh	Sr. Mgr. NRPC	9868390356
53	Mangal Hembram	EE NRPC	26868681-250
54	Vijay Menghani	EE NRPC	26868681
55	Sukhwinder Kumar	PSEB/NRPC	9810239848
56	Vikram Singh	AEE, NRPC	26868081