



केन्द्रीय विद्युत विनियामक आयोग
CENTRAL ELECTRICITY REGULATORY COMMISSION



PANKAJ BATRA
CHIEF (ENGINEERING)

No. Engg/Tr. Pricing/Validation/L-1/44/2013/CERC/2436

Dated 13th Feb 2013

To,

The Members of the Validation Committee
& Generating Companies
(As per list attached)

Subject: Minutes of the Second Meeting of the Validation Committee for the year 2013-14, (First Quarter April 2013-June 2013), for the implementation of CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010.

Sir,

Please find enclosed herewith the minutes of the Second Meeting of the Validation Committee for the **year 2013-14, (First Quarter April 2013-June 2013)**, for the implementation of CERC (Sharing of Inter State Transmission Charges and Losses) Regulations, 2010, held on 8th Feb 2013 in the NI DC Conference Room at New Delhi, for information and necessary action.

Soft copies of presentation and data considered during the meeting will be sent by email

P. Batra
Pankaj Batra
Chief (Engg)

Encl: As above.

Copy to: Secretary, CERC

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Validation Committee Members

Sl. No.	Name of the Organisations	Name of the nominated persons	Address
1.	CERC	Shri Pankaj Batra, Chief (Engg.)/ alternate member Shri Vijay Menghani, Joint Chief (Engg.)	Central Electricity Regulatory Commission, 3 rd & 4 th Floor, Chanderlok Building, 36-Janpath, New Delhi -110001
2.		Shri P.K. Awasthi, Joint Chief (Fin.)	Central Electricity Regulatory Commission 3 rd & 4 th Floor, Chanderlok Building, 36-Janpath, New Delhi -110001
3.	CEA	Shri Ravinder Gupta Director, SP&PA Division	Central Electricity Authority 3 rd Floor, N-Wing Sewa Bhawan, R.K. Puram, New Delhi - 110 066
4.		Shri C. Shanmugam Director, GM Division	Central Electricity Authority 6 th Floor, N-Wing Sewa Bhawan , R.K.Puram, New Delhi-110066
5.	CTU/ Powergrid	Shri N.K.Jain, GM (Comm.)/ alternate member Shri Prashant Sharma, GM (Comm.)	Power Grid Corporation of India Ltd Plot No. 2, Sector-29, Near IFFCO Chowk, Gurgaon-122001
6.		Shri Dilip Rozekar, DGM (SEF)/ alternate member Shri RVMM Rao, Chief. Design Engineer (SEF)	Power Grid Corporation of India Ltd Plot No. 2, Sector-29, Near IFFCO Chowk, Gurgaon-122001
7.	POSOCO	Shri V.V. Sharma, General Manager	Northern Regional Load Despatch Centre,et Singh Marg, Katwaria Sarai, New Delhi-110016
8.		Shri P.R. Raghuram, General Manager	Southern Regional Load Despatch Centre 29, Race Course Cross Road, Bangalore, Karnataka-560009
9.		Shri V.K. Agarwal, Executive Director	National Load Despatch Centre 18-A Shaheed Jeet Singh, Marg,Katwaria Sarai, New Delhi-110016
10.		Shri U.K. Verma, General Manager	Eastern Regional Load Despatch Center 14, Golf Club Road, Tollygunge, Kolkata-700 033 (W.B.)
11.	NRPC	Shri P.K. Pahwa, Member Secretary	Northern Regional Power Committee 18-A Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-11
12.	WRPC	Shri S.D. Taksande, Member Secretary (I/C)	Western Regional Power Committee Plot No. F-3, MIDC Area, Marol, Opp : SEEPZ, Andheri (East), Mumbai-400093

13.	SRPC	Shri S.R. Bhat, Member Secretary(I/C)	CEA,Southern Regional Power Committee 29, Race Course Cross Road, Bangalore-560009, Karnataka
14.	ERPC	Shri A.K. Bandyopadhyay, Member Secretary (I/C)	Eastern Regional Power Committee 14, Golf Club Road, Tollygunge, Kolkata-700 033 (W.B.)
15.		Shri T.T. Jha, Member (Transmission),	Bihar State Electricity Board 1 st Floor, Vidyut Bhawan, Bailey Road, Patna-21, Bihar
16.	NERPC	Shri A.K. Mishra, Member Secretary (I/C)	North Eastern Regional Power Committee Meghalaya State Housing Finance Co-Operative Society Ltd.BLDG., Nongrim Hills, Shillong-793003
17.		Shri Jatin Baishya, Senior Manager	State Load Despatch Centre Complex,Kahelipara,Guwahati
18.	SLDC	Shri P.A.R. Bende Chief Engineer, SLDC	Chief Engineer Madhya Pradesh Power Transmission Company Ltd., Nayagaon,Rampur, Jabalpur- 482008
19.	KPTCL	S.Pratap Kumar Director(Transmission), KPTCL	Karnataka Power Transmission Corp.Ltd., Kauvery Bhavan, K.G. Road, Bangalore - 560009
20.	UPPTCL	Shri A.K. Singh, Director(Operation) Uttar Pradesh Power Transmission Corporation Ltd.	Uttar Pradesh Power Transmission Corporation Ltd , 7th Floor, Shakti Bhavan, Ashok Marg, Lucknow - 226001

LIST OF GENERATING COMPANIES

Sl. No.	Name of the Statutory Bodies	Name of the persons and Designation	Address
1.	NTPC	Shri Inderjit Kapoor, Director (Commercial)	NTPC Bhawan, Core 7, Scope Complex, Institutional Area, Load Road, New Delhi – 110003
2.	NHPC	Shri S.K. Agarwal, Executive Director (O&M)	NHPC office Complex, Sector-33, Faridabad – 121003 (Haryana)
3.	NEEPCO	Shri N.K. Chakraborty, Executive Director	Brookland Compound, Lower New Colony, Shillong - 793003
4.	NLC	Shri Sekar K, Director (Commercial)	No.135, Periyar E.V.R. High Road, Kilpauk, Chennai - 600 010. Tamil Nadu, India.
5.	SJVNL	Shri R.K. Agrarwal, General Manager (Commercial)	SJVN, IRCON Building, Ground Floor, Saket, New Delhi-110017

Minutes of the Second Meeting of the Validation Committee for the year 2013-14, (First Quarter April 2013-June 2013), held on 8th Feb.2013 at NLDC, New Delhi.

1. The Chairman of the Validation Committee, Shri Pankaj Batra, Chief (Engg.), CERC welcomed the participants present in NLDC Conference Room and also the other participants of RPCs, RLDCs and STUs and Generating Companies present at the Conference Room of WRLDC, SRLDC, ERLDC and NERLDC through video conferencing. List of the participants is enclosed at **Annexure-I**.
2. Chief (Engg.), CERC stated that the second meeting of the validation committee for year 2013-2014 (First Quarter April 2013-June 2013) has been called to review the data received after 1st meeting of Validation Committee, which was held on 15th Jan, 2013. He stated that the data received so far would be treated as final. After this Load flow studies would be carried out and the rates for POC charges would be issued.
3. Chief (Engg.), CERC also requested States to carry out load flow studies by themselves on latest PSSE software recently provided to them by POWERGRID. In case, any help is required, they may take help of RLDCs or CERC officials. He stated that in the meeting it was proposed that NLDC would show the deviation for H2 case of 2012-13 of projected DIC- wise generation and demand data vs actual figures. The deviation on the Commissioning of generating station & transmission lines had already been sent to all participants in advance, as discussed in the last meeting and reasons on the same could be discussed in the meeting. He said that it is hoped that POWERGRID and other ISTS transmission licensee should have filed all their petitions for lines to be considered during the period April-June 2013.
4. ED, NLDC stated the Node wise data as per Form III (B) from most of the states has not been received so far. SRPC representative stated that Node-wise data of transmission systems of 110 kV and above have been considered for Andhra state in Load flow studies in SR GRID case. Karnataka, Tamil Nadu and Pondicherry have yet to furnish network of 110 kV.
5. Joint Chief (Engg.) requested that all the DICs should submit the node wise data as per Form III (B) i.e. details of forecast injection/ withdrawal data of all nodes, for carrying out the correct Load Flow studies. He requested RPCs to play a proactive role and ensure that in future node data is available.
6. Chief (Engg.) stated that states may gear up for providing this data and the basic data for the POC calculation of the next application period may be furnished within a month by all the Regions , so that it may be considered in the next POC calculation (July-Sept2013 case).
7. NLDC made a presentation based upon the inputs and data received for POC computation for H2 case (Oct,12-March 2013) giving details of comparison of

Generation and Demand for H2 case, projected vs Actual. ED, NLDC intimated that the data available on CEA website has been considered for comparison.

8. Chief (Engg.) requested all the entities of to submit the reasons where the %age change in generation was more than 10%. The following details were submitted. An important factor that was brought out by the members of the committee was, that since the actual MW generation based on 3 months average (i.e. Oct to Dec 2012) was being compared to average anticipated MW generation of 6 months (i.e. Oct'12 to March '13), some variations due to seasonal generation like hydro and wind are anticipated.

i) Southern Region:

Generation data:-

State	Considered in H2 case	Actual	difference	% change	Reasons for higher % change
Andhra Pradesh	6778	5463	-1315	-19.40	Non-availability of Gas
karnataka	5711	4391	-1320	-23.11	Due to non inclusion of wind generation
Kerala	1060	752	-308	-29.06	Predominantly Hydro; substantial reduction in monsoons
Tamil Nadu	5791	4114	-1677	-28.95	This data Does not include Wind generation
Neyveli TPS-II	113	13	-100	-88.64	Due to non-commissioning. Expected in July, 2013
MAPS	270	339	69	25.76	Due to fuel anticipated Constraints. However actually higher fuel was received
KAIGA	522	628	105	20.20	
Lanco Kondapalli	201	55	-146	-72.81	Non-availability of Gas
Vallur	234	86	-147	-63.09	Delay in commissioning, Expected by June 2013
Simhapuri	221	163	-58	-26.17	Due to teething problem unit was not stabilized
Meenakshi	110	0	-110	-100	Unit-I was not commissioned, as anticipated.

Kudankulam	447	0	-447	-100	Generation could not be Commissioned as anticipated is expected by 3 rd week of March
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SRPC forwarded a letter dated 17.1.2013 of NPCIL confirming that from April,2013 anticipated generation would be 1000 MW.

ii) Northern Region:

9. Rajasthan explained that reduction of 13.72% in generation in Rajasthan was due to non-materialization of generation of about 481 MW of Rajwest (#7), Chhabra-II, and Ramgarh GT.
10. NHPC intimated that there was variation in hydro generation due to seasonal variation of inflows.
11. It was also intimated that there was shortage of gas in Dadri CCP, Anta and Auriaya. NTPC representative was not present in the meeting.

iii) Eastern Region:

12. In the Eastern Region, -29.83% and -32.33 % change in generation in Orissa and Jharkhand was observed. Chief (Engg.) CERC requested Orissa representative to submit the reasons for this higher deviation. NLDC stated that after considering reduced import from Sterlite/Nalco IPP, the change in generation would decrease. Representative from Jharkhand was requested to study the higher %age difference and inform the reasons to NLDC/CERC.

State	Considered in H2 case	Actual	difference	% change	Reasons for higher % change
Sterlite	1050	804	-246	-23.42	Due to corridor congestion
Corporate power	124	0	-124	-100	Due to non synchronization.
Adhunik Unit-I	124	12	-112	-90.14	Unit was injecting infirm power. COD in January 2013.

iv) Western Region:

State	Considered in H2 case	Actual	difference	% change	Reasons for higher % change
Goa	31	23	-8	-24.57	Goa has only 35 MW generations; therefore actual MW deviation is

					not substantial.
Kawas	444	355	-90	-20.19	Due to non availability of Gas.
Lanco	450	350	-100	-22.2	Due to w3 area restriction
CGPL	1197	1632	435	36.34	Units have not stabilized properly.
Ratnagiri Dabhol	1197	476	-721	-60.23	Under scheduling by Maharashtra since RLNG price is high.

v) North-Eastern Region:

13. In NER since most of the generation is Hydro based, variation is due to monthly change in the water flows.

State	Considered in H2 case	Actual	difference	% change	Reasons for higher % change
Palatana GBPP	158	0	-158	-100	Palatana GBPP Unit 1 was synchronized in Oct,12 , so the actual generation figures should not be zero, as infirm power was generated, it appeared that this was not captured in CEA report. Due to transmission constrains.
Assam	183	220	37	20.13	Waste heat turbine of Lakwa generating unit not considered in H2 case
Meghalaya	48	83	36	74.79	Reason not furnished, as Meghalaya representative was not present.

14. OTPC representative stated that the problem of evacuation of power from Palatana will improve after commissioning of NETCL 400 kV Silcher-Byrnihat transmission line within few days. Further commissioning of Palatana unit-II has been linked with 400 kV Brynihat - Bongaigaon line, which has been scheduled for Jan. 2014.

Comparison of projected vs actual demand

15. While going through the Comparison of projected vs actual demand figures for H2 case, it was found that there was variation of actual average demand for Oct to Dec 2012 as compared to anticipated average demand for Oct'12 to March'13. Few states had deviation beyond 10%. They are given below. Chief (Engg.)

CERC stated that action would be taken against the states, which gave to project higher demand.

Entity	Considered in H2case before scaling	Actual	Difference	% Change in demand	Reason for change
DVC	2400	1888	-512	-21.33	Release of contract demand not yet done.
Sikkim	52	45	-8	-14.66	Small variation in terms of absolute MW.
Gujarat	9248	11321	2073	22.41	Due to increased demand and supply to agriculture
M.P	5948	7059	1112	18.69	More power is being supplied to agriculture and other consumers.
Maharashtra	15098	13575	-1523	-10.09	Because of less rainfall and drought situation
D & D	211	277	66	31.17	Higher demand
Nagaland	53	67	13	24.96	Due to increased demand
Tami Nadu	10000	8136	-1864	-18.64	Due to Kundankulam and North Chennai not materializing, higher load shedding was carried out.
Karnataka	7285	6375	-910	-12.5	Due to lean period in Non-conventional energy sources, the demand was curtailed.

16. With respect to the scaling requirement for the period April-June 2013, NLDC intimated that Scaling of Load for SR grid would be carried out by 212 MW, keeping Import from Talcher as 2000 MW and Import from Bhadrawati as 800 MW. The scaling of load for NEWGRID by 3950 MW would be revised as Export through Gazuwaka during April-June, 2013 would be considered as 100 MW, instead of 0 MW taking into consideration the actual flows.

17. NLDC then gave a presentation of new generating units expected in April-June 2013. The following units with COD dates up to March 2013 would be considered for Q1 case.

Unit	COD
Vindhyachal St. IV, unit 1	March 2013
JP Bina unit 1	30 th Aug 2012
Ukai unit 1	Syn. On 1 st Oct 2012
Vidarbha Power Limited (unit 1&2)	March 2013
BALCO, unit 1&2	After March 2013
Adhunik, unit 1	Last week of Jan'13
GMR unit 1	Jan'13
GMR unit 2	Mar'13
Bellary unit 2	End of Mar'13
UPCL unit 2	Actual COD in Aug'12
Mettur stg III unit 1	Jan'13
North Chennai	Feb'13
Kudankulam	Mar'13; To be considered in Q1
Palatana Unit 1	Feb'13
Parbati III unit 1&2	Mar'13
Uri II	Mar'13
Sasan UMPP Unit 4 (660 MW)	Feb'13
TLDP (Teesta Low dam) 132 MW	Mar'13
Tista lower dam	Mar'13

18. The following generation units which were under consideration for April-June 2013, will not be considered in view of postponement of date of COD.
- i) Neyveli Exp II unit1
 - ii) Neyveli Exp II unit2
 - iii) Palatana Unit 2
 - iv) Parbati III unit 3&4
19. For Palatana Unit 1, 350 MW injections shall be considered. Assam Own generation will be considered as 200 MW as Lakwa Generation would come up, as informed by NERPC.
20. The Vallur unit may not come till June 2013 and hence not to be considered.
21. One unit of Essar Mahan would be considered in load flow. Although Mahan-Bilaspur line would come in July, 2013, WRLDC informed that one unit of Essar may be considered and output may be restricted till this line is commissioned.
22. NHPC stated that the injection for Teesta Lower Dam Power House (TLDPH-III) may be considered as 32 MW. For Parbati -III the injection should be revised to 100 MW. For Sewa 87 MW, Uri -II - 143 MW and for Chamera -

III, 176 MW should be considered. Nimbo-Bajio (J&K) is not connected with grid hence its generation of 27 MW shall be taken out of the base case.

Transmission Lines

23. G.M (Commercial), Power Grid stated that out of 37 lines as given under assets considered for H2 case, only 13 have not been commissioned. ED, NLDC suggested that if an asset is considered in two consecutive quarters and was not commissioned during those quarters then it should not be considered in the next quarter till it's commercial operation was actually declared. It was also intimated that 400 kV Rajgarh - Karamsad D/C line under RPTL has been scheduled by the end of May,2013. So this line may also be excluded.
24. It was informed that 400 kV D/C Silchar-Byrnihat line is expected in Feb 2013 and shall be considered in Q1.
25. Joint Chief (Engg.), CERC stated that LILO of 400 kV Barh-Balia line at Patna should not be included because of the decision of the Aptel for reconsideration of COD. Chief (Engg.) clarified that till the time CERC did not review its decision, it would be considered.
26. Representative from SRLDC stated that LILO of 400 kV Somanhalli-Hoody which has not come for the last 9 months may be excluded and LILO of 400 kV S/C line from Neelamagla-Hoody, which has RoW problems may also be excluded.
27. The list of the transmission line which were included in H2 case and are yet to be commissioned would be excluded for POC, if these were not expected to be completed in Q-I. The details of such assets submitted by PGCIL is given at Annexure-II.

Approved Demand Projection

Entity	Projection in 1st meeting (MW)	Suggested in the 2nd meeting(MW)
Delhi	3550	4990
Jharkhand	900	Demand increased due to augmentation of system
Sikkim	60	DIC to give reason
Arunachal Pradesh	72	DIC to give reason
Manipur	60	DIC to give reason
Tamilnadu	10000	With commissioning of new units; the demand will increase.
Nagaland	53	57
Gujrat	10841	10541
MP	4881	5832, due to elections and increased Agriculture supply

28. The above states which are revising their projection demand should give reason in writing by evening of 8th Feb 2013. Changes after that shall not be considered. No one from Delhi attended the meeting. It was found that the average demand for Delhi during last three years during April to June period was 3484 MW. NRLDC representative indicated that it may not be 4990 MW, as indicated by Delhi, but would be lesser.
29. Joint Chief (Engg), CERC stated that Maharashtra had requested to increase its demand during last period but actually its load did not increase. It was clarified that it happened because of fall in the water table and, therefore, agricultural pumps could not pump water. He requested all states to projects their realistic demand only.
30. Chief (Engg.) CERC again requested Nuclear Power Corporation and all other generating companies to attend all the validation committee meetings. Even after a special invitation sent to NPCIL, no one had attended the meeting.
31. POWERGRID was advised to submit details of LTA/ MTOA in advance. The same for the April- June 2013 is enclosed at Annexure-III and IV.
32. Chief (Engg), CERC clarified that Non ISTS lines, as taken in the last scenario shall be considered. As the details submitted by State Utilities for interstate lines physically connecting two states in response to Commission's Order dated 15.3.2012, is incomplete , these could not be included in this Quarter.

The meeting ended with the thanks to the Chair.

**List of participants in the Second meeting of the Validation Committee held on
8th February 2013 at NLDC, New Delhi**

CERC

1. Shri Pankaj Batra, Chief (Engg.) – In Chair
2. Shri P.K.Awasthi, Joint Chief (Finance)
3. Shri Vijay Menghani, Joint Chief (Engg.)
4. Shri Vikram Singh, Dy. Chief (Engg.)
5. Shri M.M.Chaudhari, Asst. Chief (Fin.)
6. Shri Satish Chander, Sr. Tech. officer

Central Electricity authority

7. C. Shanmugam, Chief Engineer I/C

NLDC, POSOCO

8. Shri V.K. Agrawal, ED
9. Shri S.S. Barpanda, DGM
10. Shri Mohit Chandra Joshi, Engineer
11. Ms. Vaishally Bhardwaj, Engineer
12. Shri Gaurav Verma, Engineer

POWERGRID

13. Shri R.V. Madan, Mohan. Rao , Chief Manager
14. Shri N.K.JAIN, GM (Commercial)
15. Shri V.Srinivas, DGM (Commercial)

NRLDC

16. Shri V.V. Sharma, GM
17. Shri Rajiv Porwal, Chief Manager

List of Participants (Generating Companies)

NHPC

18. Ms Tulika Sinha, Manager (E)
19. Shri Rajesh Joshi, Dy. Manager (E)

OTPC

20. Shri Arun Ch. Sarmah DGM (Comml.)
21. Shri Amit Dabas, AM (Comml.)

List of Participants (Through Video Conferencing with NLDC)

WRLDC, POSOCO

1. Shri P.Pentayya, GM
2. Smt. Pushpa Seshadri, Chief Manager (MO-I)
3. Ms S. Usha, CM (MO-I)
4. Shri Chandan kumar, Engineer

WRPC, Mumbai

5. Shri S.D. Taksande, Member Secretary
6. Shri L.K.S.Rathore, DD

STU-MSETCL

7. Shri Umesh S. Bhagat , Dy. Ex. Engineer
8. Shri B.N. Khasole, Exe. Engineer

SLDC, Gujarat

9. **Shri G.J. Mistry, J.E.**

SRPC

1. Shri S.R. Bhat, Member Secretary I/C
2. Shri Anil Thomas, EE

SRLDC

3. Shri V. Balaji, DGM
4. Shri Pramod Singh, Dy. Manager
5. Shri Madhukar G, Sr. Engineer

KPTCL

6. Shri G. Bhimsha, SE
7. Shri J. Ramakantha, EEE/SLDC
8. Shri D. Chethan,EE/PSS

TANTRANSCO

9. Shri P.Murugavelan, AEE/Grid

NLC

10. Shri T.J. Paul, DGM/TS-II

ERLDC

1. Shri P. Mukhopadhaya, G.M
2. Shri P.S.Das, Chief Manager
3. Shri D. K. Srivastava, AGM
4. Shri Manoj Thakur, Sr. Engineer
5. Shri B. B. Bhoi, Sr. Engineer
6. Shri Saurav.K.Sahay, Engineer

ERPC

7. Shri B. Sarkhel, SE(PS)
8. Shri Mohan Jha, EE

ADHUNIK POWER

9. Shri Ashish Guttani, DGM

DVC

10. Shri S. Ganguli, SE (E)

NERLDC

1. Shri Amaresh Mallick, Chief Manager
2. Shri R. Chakrabarti, Engineer

NERPC

3. Shri Lalrinsanga, AS
4. Shri S. M. Aimol , E. E

MePTCL

5. Shri F.E. Kharshiing , E.E. SLDC
6. Shri D.J. Lyngdoh, AEE,SLDC

NAGALAND

7. Shri A. Jakhalu , E.E (Trans.)