



भारत सरकार  
Government of India  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
पश्चिम क्षेत्रीय विद्युत समिति



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**Western Regional Power Committee**  
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सं: पक्षेविस/प्रचा. / प्रसस-कार्यवृत्त /2010-11/ 10533

दिनांक 24.11.2010

सेवा में,

विषय:- प.क्षे.वि.समिति, मुंबई की प्रचालन एवं समन्वय समिति की 417 वीं बैठक का कार्य  
वृत्त।

महोदय,

पश्चिम क्षेत्रीय विद्युत समिति, मुंबई की प्रचालन एवं समन्वय समिति की दिनांक  
16.11.2010 को प क्षे वि समिति, मुंबई में सम्पन्न हुई 417 वीं बैठक का कार्यवृत्त आपकी  
सूचनार्थ संलग्न है।

धन्यवाद।

भवदीय,

संलग्न : उपरोक्तानुसार

अधीक्षण अभियंता (प्रचालन)

**MINUTES OF 417<sup>TH</sup> MEETING OF OPERATION & COORDINATION  
SUB-COMMITTEE OF WRPC HELD ON 16<sup>TH</sup> NOVEMBER 2010 AT WRPC  
OFFICE, MUMBAI,**

The 417<sup>th</sup> meeting of Operation & Co-ordination Sub-Committee of WRPC was held on 16<sup>th</sup> November 2010 at WRPC, office, Mumbai. The list of participants is enclosed at Annex-I.

Shri O.P. Singh, Superintending Engineer (Comml), WRPC chaired the meeting as Shri Manjit Singh, Member Secretary, WRPC was not in station on account of official work. He welcomed the members and participants to the 417<sup>th</sup> OCCM. Giving a brief overview on the performance of the grid for the month of October 2010 he stated that the frequency profile was better compared to last month due to increase of availability and decrease in drawal of 500 MUs by neighbouring regions. Frequency remained between 49.5 to 50.2 Hz for 93.49 % of the time during October 2010 compared with 85.89 % in the last month & remained below 49.2 & 49.5 Hz for 0.01 % & 0.95 % respectively. Frequency touched 48.8 Hz on nil occasions during the month.

Highlighting power situation in Western Region during October 2010, he stated that Regional demand met increased by 2158 MW as compared to the month of September 2010 and unrestricted demand increased by 4156 MW. Western Regional Grid registered maximum demand of 34339 MW during October 2010, which was about 4.95 % more than the registered demand of 32718 MW met during the same month last year. (In September 2010, it was 32181 MW). The unrestricted demand was 40179 MW as compared to 38624 MW during the last year. The increase in unrestricted demand is of the order of 4.03 %. (In September 2010, it was 36023 MW). The capacity shortage in the region was about 5840 MW (In September 2010 it was 3842 MW). Capacity shortage in GETCO was 839 MW, in MPPTCL 805 MW, in CSPTCL 105 MW, in MSETCL 3427 MW & in Goa, it was 31 MW.

Referring to energy requirement and availability he stated that as against the unrestricted requirement of 24539 MUs in the month of October 2010 availability was 21702 MUs. There was energy shortfall of 2837 MUs. Maximum Energy availability per day was 750.02 MUs during the month of October 2010. The net export by Western Region to the neighboring regions was of the order of 717.32 MUs against net scheduled export energy of 556.406 MUs.

Thereafter he requested Shri Satyanarayan S., SE (Opn), WRPC to take up the agenda items for discussion.

**ITEM No. 1: CONFIRMATION OF THE MINUTES**

The Minutes of 416<sup>th</sup> meeting of Operation & Coordination Sub-Committee of WRPC held on 14<sup>th</sup> October 2010 at WRPC Office, Mumbai were forwarded vide letter No. WRPC/OPN/OCC-Minutes/2010-11/9777 dated 26.10.2010. No comments have been received.

**The minutes of 416<sup>th</sup> meeting of Operation & Coordination were confirmed by the Committee.**

## ITEM NO.2: REVIEW OF SYSTEM OPERATION DURING THE MONTH OF OCTOBER 2010

### 2.1 Frequency Particulars

SE (Opn), WRPC stated that during October 2010 the system frequency was below 49.5 Hz for 0.95 % of time against 1.83 % of time during September 2010. The system frequency was within the permissible IEGC range of 49.5-50.2 Hz for 93.49 % of the time against 85.89 % of time during September 2010. The average monthly frequency was 49.94 Hz during the month of October 2010 against 49.85 % of time during September 2010. Regarding operation in high frequency range, the system operation frequency was above 50.20 Hz for 5.56 % of time against 12.28 % of time during September 2010. The detailed frequency particulars are enclosed at Annex- 2.1.

**The Sub-Committee noted the detailed frequency particulars.**

### 2.2 Operational Discipline

SE (Opn), WRPC stated that from data available with WRPC it is observed that the average drawal per day from WR grid was 5.510 MUs (Underdrawl), 0.172 MUs (Underdrawl) and 11.50 MUs (Overdrawl) respectively by NR, SR and ER. The maximum overdrawl by NR was 3.26 MUs on 7<sup>th</sup> October, 1.008 MUs by SR on 08<sup>th</sup> October and 23.165 MUs on 01<sup>st</sup> October by ER. There was a net inter-regional export of 717.32 MUs by WR against net export schedule of 556.406 MUs.

Instances of significant violations of IEGC during the month of October 2010 furnished by WRLDC are enclosed at Annex- 2.2 (A), shows no violation.

The details of recommended load shedding Vs actual load shedding carried out by WR constituents during October 2010 as furnished by WRLDC were as enclosed at Annex-2.2 (B).

S.E. (O), WRPC requested DGM, WRLDC to brief the committee on Grid Operation during October 2010.

DGM, WRLDC in the presentation indicated broadly the performance of the grid.

Advisory messages type A, B and C was issued to WR constituents during the month of October 2010 as below:-

Message type /Constituent	A	B	C	Total
GETCO	0	0	0	0
MPPTCL	2	0	0	2
CSPTCL	0	0	0	0
MSETCL	1	0	0	1
DNH	0	0	0	0
GOA	0	0	0	0
Total	3	0	0	3

DGM, WRLDC intimated that during September 2010, wind generation in Maharashtra and Gujarat States was 123.601.46 MUs and 121.950 MUs respectively. Ghatghar hydro power station in Maharashtra had operated for: 249 hrs in pumping mode. Koyna-IV Synchronous condenser mode is nil. SSP had operated for 10.77 Hrs in synchronous condenser mode.

There have been overdrawl/TTC violations by the other regions. Messages issued to NR/ER for over drawl & TTC violation during October, 2010 were as below:-

LINK	NR	ER	MPPTCL	MSETCL	CSPTCL	GETCO	TOTAL
No of O/D Messages	1	1	0	0	0	0	2
No of TTC Messages	0	1	1	1	1	1	5

Regarding operation of NTPC's gas based projects; WRLDC informed that Liquid fuel had not been furnished in the month of October, 2010. Kawas RLNG & Gandhar RLNG furnished and utilised for full month of maximum 83.44 % and 17.68 % respectively including URS. URS was in the order of 00 %– 100% for Gandhar RLNG and 16.66% to 77.57 % for KAWAS RLNG. (Variable cost about Rs.3.16 of Kawas RLNG and Gandhar RLNG.)

**The Sub-Committee noted as above.**

### 2.3 Voltage Profile

SE (Opn), WRPC stated that as per the data received from WRLDC, Voltage profile at some of 765/400 kV sub-stations during the month of October 2010 as furnished by WRLDC is enclosed at Annex-2.3. He stated that voltages beyond the stipulated limits in IEGC were observed at certain S/S, the deviations of voltages from the accepted limit on either side were recorded at the following locations in WR grid which were noted by Committee:-

S.No.	765/400kV Sub-station	Max. Voltage observed (kV)	Date of incidence	Min. voltage observed (kV)	Date of incidence
1	Indore	425	14.10.10	379	25.10.10
2	Itarsi	430	17.10.10	-	-
3	Karad	434	18.10.10	-	-
4	Dhule	432	10.10.10	-	-
5	Asoj	427	18.10.10	-	-
6	Kasor	432	12.10.10	-	-
7	Jetpur	428	14.10.10	358	05.10.10
8	Bina	431	17.10.10	-	-
9	Gwalior	428	17.10.10	-	-
10	Nagda	432	03.10.10	-	-
11	Khandwa	431	09,21.10.10	-	-

### 2.4 U/F Relay Operations

SE (Opn), WRPC stated that system frequency touched 48.8 Hz at nil occasions during October 2010; AUFLS relay operations at 48.8 Hz had taken place as per details placed at Annex-2.4.

**The Committee noted the UFLS operations in October 2010 as indicated in Annexure-2.4**

### 2.5 Power Cuts / Load Restrictions

The committee noted the details of Power Cuts and Regulatory Measures during October 2010 as furnished by the state utilities as per the enclosed Annex. 2.5.

## **2.6 Details of Generating Units under Forced outages**

Details of generating units under forced outages during October 2010 were discussed. The details are given in Annex-2.6.

## **2.7 Details of Generating Units under Planned outages**

The details of generating units under Planned Outages during October 2010 are given in Annex-2.7

SE (COMML), WRPC suggested that outages of major hydro units approved in OCC may also be included for easy reference and Annexure may be updated accordingly.

**The Sub-Committee discussed and finalized the planned outages.**

## **ITEM NO.3: OPERATIONAL PLANNING**

### **3.1 Proposed outage programme of generating units.**

The maintenance programme of generating units for November 2010 & December 2010 was discussed. The Committee approved maintenance programme of the generating units for November 2010 & December 2010 as given in Annex 3.1.

Manager, Torrent Power, informed that outage of E station of TPL is planned from 05.11.2010 to 19.11.2010.

SE(LD), SLDC, MSETCL pointed out that as per information available with them Parli unit 5 is planned for maintenance from 17.11.2010 to 12.12.2010 and Nasik unit 2 from 24.11.2010 to 19.12.2010, the outages mentioned in the agenda notes are not being availed.

GM (OPN), DTSP, Reliance Infrastructure Ltd, stated that as approved in the last OCC Dahanu unit 1 will be under outage, as per plan, from 24.11.2010 to 16.12.2010.

SE (LD), CSPTCL stated that Korba (W) unit 2 is under planned from maintenance from 07.11.2010 till 22/11/2010.

AGM, NTPC (WRHQ) informed that outage of Jhanor GT-3 from 12.12.2010 to 03.01.2011 for C-Inspection is postponed due to non availability of foreign consultants during Christmas and New Year period. He also stated that Kawas GT 2B is scheduled for B Inspection from 20.12.2010 to 04.01.2011. Jhanor GT2 which was scheduled for A Inspection from 25.11.2010 to 01.12.2010 has been proposed to 09.11.2010 to 20.11.2010 due to low demand scenario. Further VSTPS unit 3 which was scheduled for maintenance from 01.12.2010 to 20.12.2010 has been slightly proposed from 21/11/2010 to 10.12.2010 due to site requirements.

SE (OPN), WRPC stated that as per item 3.4, details of deviation in outage plan are to be mentioned in their report to WRPC as per IEGC clause 5.7.4.

**The Sub-Committee finalized the outage schedule of generating units for the above period and is placed at Annex 3.1.**

### **3.2 Outage Programme of Transmission Lines/elements**

The Committee discussed and approved the maintenance programme for transmission lines/elements for the months of November 2010 & December 2010 the details are given in Annex 3.2

EE (SLDC), GETCO pointed out that outage of 400 kV Vapi-Sugen and 400 kV Vapi-Boisar has to be linked depending on the flow on these lines. MSETCL was requested to increase the flow on 500 kV HVDC Chandrapur-Padghe lines so as to reduce the flow from 400 kV Vapi-Boisar towards Maharashtra. SE (LD), MSETCL agreed to do the needful. DGM (GM), POSOCO, WRLDC, stated that depending on real time conditions these outages may require to be re-scheduled, if required.

The sub-committee modified the dates of the outages mentioned at Annex 3.2 Sr Nos A9 to A12, E 1, E6-7. It was clarified by Manager, WRTS-II that E7 is two outages one for 220 kV Jhanor-Haldarwa Ckt I and other Ckt II. Outage of 400 kV Bina-Gwalior Ckt II was requested on 20.11.2010 from 0800 to 1600 hrs for maintenance work and agreed by the sub committee.

**The Sub-Committee finalised the maintenance programme which is given at Annex 3.2.**

### 3.3 Anticipated Power Supply Position for the months – November 2010 & December 2010

Anticipated Power Supply Position for the months of November 2010 & December 2010 were discussed. The details of anticipated regional deficit are given below:

*(All figures in MW)*

State/ Region	November 2010			December 2010		
	Anticipated Availability	Anticipated Peak Demand	Shortage	Anticipated Availability	Anticipated Peak Demand	Shortage
GETCO	9285	10040	755	9160	9840	680
MPPTCL	7095	8470	1375	7380	8800	1420
CSEB	2650	2700	50	2620	2700	80
MSETCL	15930	18600	2670	16170	18700	2530
GOA	440	485	45	425	495	70
DD	260	310	50	260	320	60
DNH	515	530	15	515	540	25
WR	35580	39075	3495	36080	39800	3720

Details of anticipated restricted & un-restricted demands for the months of November 2010 & December 2010 are given in Annex 3.3 (A).

The hourly schedule load shedding programme proposed by WRLDC for the months of November 2010 & December 2010 as furnished by WRLDC is given at Annex. 3.3 (C). The details for anticipated station wise Availability & Energy for the months of November 2010 & December 2010 as furnished by the constituents is given at Annex. 3.3(B).

### 3.4 Review of Planned Maintenance Outages of generating units

**In pursuance of IEGC clause 5.7.4 “RPC shall submit quarterly, half yearly reports to commission indicating deviation in outages from the plan along with reasons. These reports shall also be put up on the RPC website.” Accordingly details of planned maintenance of thermal generating units available in this office during the First & Second quarter of the year 2010-11 is already enclosed in the Agenda & Minutes of the last i.e. 416<sup>th</sup> OCCM at Annex- 3.4.**

SE (OPN) WRPC stated that the above report has not been received from utilities of WR except Gujarat and NTPC System. He once again reiterated that the reasons of deviation may be furnished by the other utilities in the region.

The matter was discussed by the sub-committee and it was agreed that all utilities shall arrange to furnish the information by 20.11.2010. Based on the data received WRPC would do the needful.

**The Sub-Committee noted as above.**

#### **ITEM NO. 4: OPERATIONAL STATISTICS FOR THE MONTH OF OCTOBER 2010**

**4.1** The details of schedule Vs actual generation, demand, drawl of power from grid; exchanges etc. are given in the following Annexure:

Annex 4.1 - Schedule Vs Actual Generation and Requirement for October 2010

Annex 4.2 - Peak Demand: Schedule Vs Actual for October 2010

Annex 4.3 - Integrated Operation of the System for October 2010

Annex 4.4 - Operation of Inter State Tie lines during October 2010

Annex 4.5- Details of Declared Capacity, Schedules and Injections from Central sector Stations, Drawl Schedules and Entitlements of constituents during October 2010

Annex 4.6 - Inter System Exchanges for October 2010

Annex 4.7 – Details of level of Major Reservoirs in Western Region for October 2010

Annex 4.8a– Month-wise loss of generation due to non-utilization of high cost of Naphtha fuel.

Annex 4.8b –Month-wise loss of generation due to shortage of coal and gas fuels.

**The sub-Committee noted as above**

#### **ITEM NO. 5: SYSTEM DISTURBANCE IN WESTERN REGION**

WRLDC intimated that there was no major grid disturbance in the Western Region during October 2010.

**The Sub-Committee noted as above.**

#### **ITEM NO. 6: IMPLEMENTATION OF RECOMMENDATIONS OF VARIOUS ENQUIRY COMMITTEES ON GRID DISTURBANCES IN WR**

The updated status of implementation of recommendations of the Enquiry Committees on grid disturbances in WR is enclosed at Annex- 6.

SE (OPN), WRPC clarified that at present only two recommendations remain to be implemented and are under the process of implementation and the same pertain to PCM forum. The other recommendations are already implemented.

**The Sub-Committee noted as above.**

#### **6.1 Confirmation of Healthiness status of SERs/DRs equipment in the system.**

Constituents have furnished the status of healthiness of SER/DRs in their systems on the dates below.

SI No.	Name of constituents	Date of Receipt
1	WRTS-I	03.11.2010
2	WRTS-II	04.11.2010
3	MPPTCL	12.11.2010
4	NTPC	03.11.2010
5	CSPTCL	03.11.2010
6	GETCO	16.11.2010
7	MSETCL	16.11.2010

Constituents of WR were requested to continue sending the information as per the recommendation of enquiry committee of Grid disturbances on 25.02.2007 and 28.02.2007.

**The Sub-Committee noted as above.**

**ITEM NO. 7: STATUS OF COMPLETION OF ONGOING SCHEMES FOR COMMISSIONING OF REACTORS, TRANSMISSION LINES AND GENERATING UNITS IN WR.**

**7.1 Status of completion of ongoing Schemes for Commissioning of reactors.**

As discussed in 417<sup>th</sup> OCCM and as per the present status available on the work for providing additional reactors at the various locations in WR.

- 1) 1 x 125 MVAR reactor at Dehgam was commissioned by WRTS II on 29.10.2010
- 2) EE, SLDC, GETCO informed that 1 x 125 MVAR reactor at Kasor is scheduled to be commissioned in December 2010 and 1 x 80 MVAR reactor at Soja is scheduled to be commissioned by December 2010.

Accordingly the information regarding the commissioning schedule is as below: -

S.No.	400 kV Substation	Size (MVAR)	Implementing agency	Expected commissioning date
1.	Khandwa	1x125	PGCIL	Commissioned on 30 <sup>th</sup> Sep. 2010
2.	Dhule	2x50	MSETCL	1x50 MVAR is already commissioned. 2 <sup>nd</sup> reactor is expected in December 2010 end.
3.	Dehgam	1x125	PGCIL	Commissioned on 29 <sup>th</sup> October 2010
4.	Kasor	1x125	GETCO	December 2010
5	Soja	1x80	GETCO	December 2010
6	Rajgarh	1x125	PGCIL	September 2011

The concerned utilities are requested that the reactors are installed and commissioned as per the above schedule.

**The respective utilities were requested that the reactors are installed and commissioned according to the schedule agreed as above.**

**7.2(a) Status of completion of on going Transmission Schemes being executed/implemented by POWERGRID/ Other Agencies**

SE(COMML), WRPC informed that 400 kV Vapi(PG)-Navi Mumbai line at sl no 11 is likely to be commissioned by December 2011 as per the latest review of Transmission system Projects.

The updated status on various ongoing transmission schemes for the current year as per the current information available is as follows: -

S. No.	Name of the Line	Target Completion Date	Remarks
<b>POWERGRID</b>			
1	400 kV Rourkela-Raigarh D/C	December 2010	
2	400 kV Ranchi-Rourkela D/C	December 2010	
3	400 kV Raigarh –Raipur D/C	Commissioned on 1 <sup>st</sup> October 2010	
4	400 kV D/C Korba(NTPC)-Birsinghpur(MPGENCO)	December-2010	
5	400 kV D/C Birsinghpur (MPGENCO)-Damoh (PG)	November -2010	
6	765 kV 2nd S/C Seoni (PG)-Wardha(PG) (initially to be operated at 400kV)	March 2011	
7	400 kV Wardha(PG)-Parli (PG) (Quad) D/C	March 2011	
8	400 kV Raipur(PG)-Wardha(PG) D/C	Dec 2010	
9	400 kV Bhadrawati(PG)-Parli (PG) D/C	Nov 2010	
10	400 kV Parli(MSETCL)-Parli(PG) D/C	March 2011	
11	400 kV Vapi(PG)-Navi Mumbai D/C Line	December-2011	
12	400 kV D/C Dehgam-Pirana line	November 2010	
13	LILO of 400 kV D/C Bina-Nagda line at Sujalpur	January 2011	
14	400 kV D/C Mundra- Limbdi	December-2011	
15	400 kV D/C Mundra- Bachchau-Ranchodpur	February-2011	
<b>CSPTCL</b>			
1	LILO of 400 kV Korba (W)-Bhilai at Raipur DCDS	December-2010	
2	400 kV Korba (W)-Khedamara DCDS Ckt I &II	Oct-2011	
3	400 kV Korba STPS- Raipur	June 2011	
<b>MAHARASHTRA (IPTC route) by WRTransmission (Mah) Pvt. Ltd</b>			
1	400 kV Parli(PG)-Pune D/C	June 2011	
2	400 kV Pune (PG)-Aurangabad (MSETCL) D/C	April 2011	
3	400 kV Parli(PG)-Pandharpur/Solapur D/C	May 2011	
4	400 kV Pandharpur/Solapur(PG) –Kolhapur (MSETCL)D/C	May 2011	
5	LILO of 400 kV Lonikhand (MSETCL) –Kalwa (MSETCL) D/C at Pune (PG)	Feb 2011	
6	LILO of Solapur (MSETCL)-Karad (MSETCL) 400 kV D/C at Pandharpur/Solapur (PG)	May 2011	
<b>GUJARAT (IPTC route) by WR Transmission (Guj) Pvt. Ltd</b>			
1	400 kV Rajgarh(PG)-Karamsad (GETCO) D/C	March 2011	
2	400 kV Limdi (Chorania) (GETCO) –Ranchodpura (Vadavi) (Gujarat) D/C	December-2010	
3	400 kV Ranchodpura (Vadavi)(GETCO)-Zerda (Kansari) (GETCO) D/C	December-2010	

**The Sub-Committee noted as above.**

### 7.2(b) Other Operational Important Events

- On 04/10/10, 220/66 kV ICT-II at Khadoli charged
- On 21/10/10, 400/220 kV ICT-III at Aurangabad charged
- On 21/10/10, 765 kV Sipat-Seoni ckt-II, which was out since 27/08/10, was taken into service at 12:40 hrs. Both 765 kV ckts were in service up to 22:32 hrs.
- On 29/10/10, 125 MVar B/R at Dehgam(PG) charged at 11:07hrs
  
- On 30/10/10: 400/220 kV ICT-I at Bina (PG) charged at 10:00hrs.
- Gujarat catered demand of 10,299 MW on 04-oct-10, the maximum up to date.
- Wardha- Warora TPP # 2(135 MW) commissioned (I.e. Achieved full Load) on 10.10.2010 successfully.

### 7.3 Commissioning of new Generating units in Western Region and the capacity expected to be commissioned during the current year 2010-2011

- 1) VP, APL informed that unit 4 of 330 MW at APL Mundra was commissioned on 18.11.2010
- 2) EE (LD), SLDC, GETCO informed that commissioning of Hazira CCPP (GSEG) of 350 MW is likely to be commissioned by March 2011 and not November 2010.

The status regarding Generating units, commissioned /expected to be commissioned during the current year 2010-11 according the available information is as below:

Name of the Power Projects	Unit No.	Capacity (MW)	Date of Commissioning /Schedule Date
<b>GUJARAT</b>			
(i) Surat Lignite expansion-GIPCL	3	125	12.04.10
	4	125	23.04.10
(ii) Mundra (Adani)	3	330	02.08.2010
	4	330	18 <sup>th</sup> Nov. 2010
(iii) Hazira CCPP (GSEG)	GT+ST	350	March. - 2011
<b>CHHATTISGARH</b>			
	Nil		
<b>MAHARASHTRA</b>			
Khaperkheda Ext.		500	March-2011
Bhusawal Ext.	4	500	March-2011
JSW Energy, Ratnagiri	1	300	24.08.10
<b>CENTRAL SECTOR – NTPC</b>			
(i) Sipat TPS Stage-I	1	660	December 2010
	2	660	May-2011
	3	660	November 2011
(ii) Korba STPS	7	500	November 2010

**The Sub-Committee noted as above.**

**ITEM NO. 8: ANY OTHER ITEM****8.1) Measures to avoid energy loss at SSP-Reg**

S.E., EMC, SSP vide his letter No.2/8/Power/EMC/ dated 30.09.2010 intimated the following:

The Sardar Sarovar Dam was full and water was overflowing for the period of 09.09.10 to 27.09.10. During this period 24 hrs generation was planned from all the six RBPH machines (200 MW each) of SSP complex, in coordination with WRLDC to utilize the power house to full capacity. On dated 23.09.10 for attending severe oil leakage problem in CVT of B - phase, an outage on 400 KV SSP – Kasor line was required. As per instruction of WRLDC the SSP-Kasor line could be taken under outage for attending above problem, only after backing down two RBPH machines, namely unit No.5 from 14:30 to 16:35 & unit No. 6 from, 14:35 to 17:30 which resulted in to considerable energy loss, as the dam was spilling.

In this context it is to submit that SSP 400 kV transmission system is having six circuits, two each for SSP beneficiary states viz. SSP-Rajgarh-I & II for GoMP, SSP-Asoj, SSP-Kasor for GoG & SSP-Dhule-I & II for GoM. Two circuits for each state are provided to facilitate redundancy feature for power evacuation. Even after having six 400 kV transmission circuits, two RBPH machines were required to be backed down for attending SSP-Kasor CVT oil leakage problem, which resulted in to considerable water loss and energy generation loss of approximately 1 MU, due to system power flow condition. Though this outage was not for a longer period, but under dam spilling conditions, had it been for a longer period, it would have resulted in to much bigger energy loss.

DGM (GM), POSOCO, WRLDC clarified that vide letter dated 20.10.2010 WRLDC has intimated NCA and WRPC of the circumstances leading to the decision. While appreciating the concern expressed by NCA he stated that the above decision was taken keeping grid security in view. Power was injected at SSP on 400 kV SSP-Rajgarh D/c and evacuation towards Maharashtra system on 400 kV SSP-Dhule D/c was low, and the power flow to Gujarat system on 400 kV SSP-Kasor and 400 kV SSP-Asoj lines was substantial. 400 kV SSP-Kasor lines developed problems due to failure of B Phase CVT and was to be taken out. The loading on 400 kV SSP-Asoj was anticipated to rise severely and the same was curtailed due to backing down generation at SSP Complex. The system had to run safe in view of the n-1 contingency due to loss of 400 kV SSP-Kasor line.

SE(Comm1), WRPC stated that real time decisions are required to be taken by WRLDC keeping overall grid safety and secure system operation and has to be abided by all the constituents. He requested all utilities to cooperate with WRLDC in system operation.

The Sub-Committee suggested that WRLDC may conduct system studies for seeing the effect of line outages at SSP Complex and circulate the results for further guidance.

SE (Opn), WRPC stated that any additional transmission network required for evacuation of SSP Power may kindly be taken up with Standing Committee on Power System Planning which is the appropriate forum.

**The Sub-Committee noted as above.**

## 8.2) Power System Development Fund

SE (O), WRPC stated that as per the last WRPC decision a group was formed to examine the various proposals to be funded through PSDF. The PSDF group discussed the proposals and suggested that some of the proposals need to be recommended by OCC forum. These proposals were given at Annex 8.2

The sub-committee discussed the issue. The proposals would require recommendation from OCC, PSDF and TCC/WRPC forums and approval the Honorable Commission CERC. Once approved by the Commission, the same would be implemented in all concerned utilities of the region and funded from the PSDF. It was agreed to discuss the proposals in the next OCC meeting.

**The Sub-Committee noted as above.**

## 8.3) Discussion on Operating Procedure for WR (OPWR)

WRLDC has updated the existing Operating Procedure of WR and has sent the soft copy (draft) to all constituents. The changes in the proposed version and existing version may be highlighted by WRLDC for quick review. Any small changes that require to incorporate in the OPWR may be discussed in the OCC, so that the changes may be incorporated on the run, and the OPWR is continuously.

The Sub-Committee discussed the matter. Suggestions on the initial two chapters were suggested by the Committee. It was agreed that the draft OPWR would be reviewed in a meeting to be convened on 14.12.2010 one day before the next OCC.

**The Sub-Committee noted as above.**

8.4) **TTC for State Systems** EE (LD), SLDC GETCO pointed out that within the state the total transfer capacity is to be determined. The same has to be determined along the lines for TTC for the region, using similar methodology. During the discussions the Committee members requested WRLDC to give a presentation of the methodology utilized by the WRLDC for calculating TTC for WR.

DGM (GM), WRLDC agreed to share the information for benefit of the constituents in the next OCC.

**The Sub-Committee noted as above.**

## 8.5) Issues at APL Mundra:

(1) VP, APL stated that high voltage at Mundra bus exists and therefore there is a need to curtail the same. The Committee observed that APL, Mundra being a generating station has built in capability to adjust reactive power support from the machines such that the bus voltage is maintained within limits. Under high voltage conditions there is a need to absorb MVAR by the generators. The Committee further observed that generating stations like NTPC Sipat for example is absorbing MVAR to control the voltage and suggested that APL Mundra units may absorb MVAR to control the voltage.

(2) VP, APL stated that APL is making arrangements for data and speech transmission with NRLDC and queried whether similar requirement exists in WR so that they can plan both

simultaneously. The Committee opined that APL being under the Control area of GETCO, APL shall take the issue with GETCO. WRLDC gets data via SLDC GETCO in this case.

**ITEM NO. 9: DATE AND VENUE OF NEXT OCC MEETING**

It is proposed to hold 418<sup>th</sup> meeting of Operation and Coordination Committee of WRPC on 15<sup>th</sup> December (Wednesday) 2010. The meeting for the annual LGBR and generation targets along with discussion on OPWR shall be held on 14<sup>th</sup> December (Tuesday) 2010 one day before. The meeting will be held at WRPC, Mumbai.

## प क्षे वि स की प्रचालन एवं समन्वय समिति की 417 वीं बैठक में उपस्थित सदस्यों के नाम

क .	नाम	पदनाम	संगठन
1	ओ पी सिंह	अधीक्षण अभियंता (वाणिज्य)	पश्चिम क्षेत्रीय विद्युत समिति
2	एम आर सिंह	अधीक्षण अभियंता (रक्षण)	पश्चिम क्षेत्रीय विद्युत समिति
3	सत्यनारायण एस	अधीक्षण अभियंता (प्रचालन)	पश्चिम क्षेत्रीय विद्युत समिति
4	वी के गुप्ता	कार्यपालक अभियंता (प्रचालन)	पश्चिम क्षेत्रीय विद्युत समिति
5	एल के एस राठौर	सहायक निदेशक (प्रचालन)	पश्चिम क्षेत्रीय विद्युत समिति
6	डी वी शंकरराव	सहायक निदेशक (प्रचालन)	पश्चिम क्षेत्रीय विद्युत समिति
7	आर के रामी	कार्यपालक अभियंता	गुजरात विपारेकं लिमिटेड
8	पी वी होटे	अधीक्षण अभियंता (भार प्रेषण)	महाराष्ट्र राज्य विपारेकं लिमिटेड
9	जी एक्का	अधीक्षण अभियंता	छत्तीसगढ़ राज्य विपारेकं लिमि
10	वी ए मुर्ति	उप महा प्रबंधक	पश्चिम क्षेत्रीय भार प्रेषण केंद्र
11	पी रवि कुमार	उप महा प्रबंधक	पश्चिम क्षेत्रीय भार प्रेषण केंद्र
12	पी आर वानखेडे	मुख्य प्रबंधक	पावर ग्रिड नागपुर
13	सी एस बोवडे	मुख्य प्रबंधक	पश्चिम क्षेत्रीय भार प्रेषण केंद्र
14	सचला मिश्रा	मुख्य प्रबंधक	पश्चिम क्षेत्रीय भार प्रेषण केंद्र
15	डी वृहनंदा	प्रबंधक	पावर ग्रिड बडोदरा
16	राज कुमार ए	अभियंता	पश्चिम क्षेत्रीय भार प्रेषण केंद्र
17	वी पी परीदा	अवर महा प्रबंधक	एन टी पी सी लिमिटेड
18	मृनल चक्रवर्ती	उप महा प्रबंधक	एन टी पी सी लिमिटेड
19	डी रॉय चौधरी	उप महा प्रबंधक	एन टी पी सी लिमिटेड
20	ओ मेनजेस	वरिष्ठ प्रबंधक (ओ एस), मुम्बई	एन टी पी सी लिमिटेड
21	बी के दास	उप महा प्रबंधक	आरजीपीपीएल
22	डी वी त्रिपाठी	वी पी	अदानी पावर लिमिटेड
23	एम आर राउत	महा प्रबंधक	अदानी पावर लिमिटेड
24	आर सी गुप्ता	महा प्रबंधक	जिंदल पावर लिमिटेड
25	शुहाष पाटील	महा प्रबंधक	रिलायंस इन्फ्रा लिमिटेड
26	टी के भाष्करन	अवर महा प्रबंधक	टाटा पावर कं लिमिटेड
27	तुषार शाह	प्रबंधक	टोरेन्ट पावर लिमिटेड
28	सी के गुप्ता	एस सी जी, तारापुर	परमाणु विद्युत निगम
29	यू विश्वास	एस सी एफ, तारापुर	परमाणु विद्युत निगम
30	नीलेश चिमुरकर	एस ओ डी सी ई , केप्स काकरापार	परमाणु विद्युत निगम
31	एन के भंडारी	सदस्य (विद्युत)	नर्मदा नियंत्रण प्राधिकरण
32	एम के जैतवाल	अधीक्षण अभियंता (इ एम सी)	नर्मदा नियंत्रण प्राधिकरण
33	हेमंत पांडे	सहायक कार्यपालक अभियंता	नर्मदा नियंत्रण प्राधिकरण