MINUTES OF DISCUSSION IN 56th POWER SYSTEM OPERATIONAL COORDINATION MEETING HELD AT 11.30 HRS. ON 22.04.2009 AT OPTCL POWER TRAINING CENTRE CHANDAKA, BHUBANESWAR

List of participants enclosed at Annexure-A

No representative from TTPS, OPGC, RSP, HINDALCO, VAL, Bhushan Steel and Machhakund PH has attended the meeting.

The meeting was chaired by Director (Engineering), OPTCL.

Director (Engineering), OPTCL welcomed all the participants to the 56th Power System Operational Coordination meeting.

Sr. G.M (PS) gave a brief overview of system performance such as Voltage & Frequency profile, State maximum & minimum system demand, important events and major incidents occurred in OPTCL system during the month of March 2009.

GM (SLDC) took the agenda items for discussion.

The review proceeded as follows:

Item No.1-Confirmation of the minutes of 54th PSOC meeting held on 28.02.2009 at PTC, Chandaka, Bhubaneswar.

Since Members have no comments for the minutes of 55th PSOC meeting, the minutes of the meeting was confirmed.

Item No. 2- Review of Grid performance for the month of February 2009.

Item No. 2 (A) – Frequency

The one-minute instantaneous System frequency for the month of March'09 was reviewed. It was noticed that 98.57% of times, the frequency remained in the band of 49.0Hz – 50.5Hz (IEGC band) during the month as compared to 97.34% during February'09. The maximum and minimum System frequency during the month of March'2009 was 50.66 Hz and 48.81 Hz respectively. The monthly frequency profile, FVI & Standard Deviation for the month of March' 2009 was reviewed. The frequency profile during the month of March'09 is noticed to be improved in comparison to the month of January'2009.

Item No. 2 (B) - Grid demand

Grid demand for the month of March' 2009 was reviewed. The maximum System demand of 3021 MW occurred on 09.03.09 at 20:00 Hrs and minimum demand of 1836 MW occurred on 26.03.09 at 04:00 Hrs. respectively. The hourly demand profile for the month of February'2009 was reviewed. It is observed that, the peak demand during the month was increased by 114 MW during the month of' March'2009 in comparison to February' 2009. The grid demand has increased by 247 MU comparing to February 2009 and 97 MU comparing to February 2008.

Item No. 2(C) – Voltage Profile of important Sub Stations in OPTCL System.

The Voltage profile at different 220 kV buses occurred during the month was reviewed.

It is noticed that Narendrapur 220 kV bus has experienced a maximum voltage of 254 kV and minimum Voltage of 188 kV & 190 kV has experienced by Bhdrak and Chandaka 220 kV

buses respectively.

Deliberation in the meeting

The maximum Voltage at Narendrapur S/S was due to under loading of transmission lines

during off-peak hours. The minimum Voltages at Bhadrak and Chandaka are due to growing

demand of these areas. However after connecting Mandhasal ICTs at 400 kV the Voltage level

at Chandaka is likely to be improved. A system study is being conducted and will be placed in

the next meeting.

Sr.G.M (PS) stated that the low Voltage at Duburi has been intimated to ERLDC and requested

to instruct NTPC, Kaniha for increase of excitation several times. However after establishing

of 400 kV S/S at Duburi, the low Voltage at Duburi, Balasore & Bhadrak S/Ss will be

improved.

He also stated that synchronizing of 200 kV bus-I bus-II at Meramunduli may be examined as

already suggested by ERLDC to improve Voltage profile at Duburi Grid.

Director (Engg) stated that the fault level at Meramunduli and Duburi has gone up due to

number of generating stations in the area, which may further increase by synchronizing the 220

kV buses at Meramunduli.

CGM (O&M) suggested to operate the tap changer at Meramunduli ICT and increase

excitation at NTPC station, Kaniha for improvement of Voltage profile at Duburi Grid.

Director (Engg) stated that since, Duburi is not connected radially, tap changing at

Meramunduli ICT may not have any impact on Voltage improvement

It was decided to record the Voltage profile at Meramunduli bus-II, Duburi (O), Duburi(N) and

Var drawal by JSL for 7 days during peak period for review and put up in the next meeting.

[Action : Sr.G.M(PS)]

CGM (O&M) suggested to isolate one ckt of 220 kV Indravati-Theruvali line arrest the high

Voltage at Narendrapur S/S during off peak period. Sr.G.M (PS) stated that isolating of one ckt

of 220 kV Theruvali and 220 kV Indravati-Theruvali is being done during off peak period. He

also suggested to examine for providing bus reactor at Narendrapur and Theruvali Grids.

It was decided to conduct a system study by PRDC to ascertain the capacity of reactors

required at Narendrapur and Theruvali Grid to address high Voltage problem in those S/Ss.

[Action: CGM (O&M)]

Item No. 2 (D) – Energy Generation/ import during the month of February'09

Energy generated by the State generating stations such as OHPC stations, IbTPS, TTPS (NTPC) and CGP support and import from ISGS station during the month was reviewed.

Deliberation in the meeting

CGM (O&M) suggested to furnish the energy generation in the same month of previous year for reference and review.

It was recorded for future.

Item No. 2 (E) – DISCO Drawal during the month of February'09

The quantum of energy drawan by Discos during the month was reviewed. It is noticed that the cumulative drawal by the Discos up to the month ending March'09 except NESCO have increased substantially in comparison to the ARR approved quantum

Deliberation in the meeting

Director (Engg.) suggested for changing the sign of difference in drawals for a better understanding.

It was recorded for future.

G.M (SLDC) stated that the extra energy drawn by the Discos have been met from hydro resources, which caused increase in average drawal from hydro stations.

CGM(O&M) suggested to record the 15 minute energy drawal data instead of 30 minute recording at present in the Apex meters provided at the interconnection points as well as OHPC stations for future requirement of Intra State ABT implementation. Accordingly the programming may be done.

It was decided to convene a meeting by CGM (O&M) between Gridco, OHPC, IT, Telecom, O&M and SLDC to discuss the issue and finalize before next meeting.

[Action: CGM (O&M)]

Item No. 2 (F) – Major Events in the month of February' 2009

There are three number of major event recorded during the month.

Item No. 2 (G) – UFR Operation in OPTCL System in the month of February' 2009

There was no UF Relay operation occurred during the month of February'09.

The locations for installation of df/dt Relay in OPTCL system is yet to be finalized.

Deliberation in the meeting

C.G.M.(O&M) stated that a meeting to decide the location for installation of df/dt relays has already been held with SLDC. The locations will be finalized soon.

[Action- C.G.M. (O&M), Sr. G.M (PS)]

Item No. 2 (H) – Important Grid incidents

Major grid incidents for the month of February' 2009 were reviewed.

Item No. 2 (I) – Major Transmission Lines/ Elements Outage during the month of February'09.

Outage of major Transmission Lines/ Elements during the month of February' 2009 was

reviewed. It was noticed that most of the tripping are due to failure of insulators and jumper

snapping

Deliberation in the meeting

C.G.M.(O&M) stated that it is proposed to replace all the insulator of the 132 kV Balasore-

Jaleswar line. A meeting will be held with NESCO for deciding the shutdown proposal.

[Action : CGM (O&M)]

Item No. 3 – Drawal of Machhakund Power.

Power drawal from Macchakund PH during the month of February' 2009 was reviewed. It was

noticed that the Machhkund authority are not following the decision, although agreed in the

meeting held on 17.02.2009 between APGENCO, OHPC, OPTCL, SLDC and Gridco Ltd.

Deliberations in the meeting

CGM (O&M) stated that drawal of 50% Machhakund generation by matching load on real time

basis is not feasible. It may be ascertained whether the agreement has made for 50 % energy

drawal on daily/monthly/yearly basis. Machhakund authority may be asked to ensure the

quantum by allowing extra drawal during the period as per the agreement.

It was decided that Gridco may take up the issue with APGENCO. In case they fail to fulfill

their commitment, the issue may be taken up with CERC.

G.M(GO), SLDC stated that due to injection by Minakshi hydro power station Machhakund

drawal is reduced some times due to matching load problem. Minakshi feeder may be

connected to BTH system.

Director (Engg) stated that Minakshi have already agreed to shift their connectivity to BTH bus

of Jajanagar S/S at their own cost.

[Action : Sr.G.M. (PP), Gridco]

Display of Machhakund drawal – Accessing of PT secondary terminal of Machhkund feeder

at Jayanagar grid.

Deliberations in the meeting

G.M.(Telecom) stated that PT connection at Jayanagar for Machhakund feeder data has already been done. At present Machhakund drawal is displaying at SLDC

Installation of new RTU at Machhakund PH:

Deliberations in the meeting

GM (Telecom) stated that offer for supply of RTU has been received and will be forwarded to OHPC for taking procurement action.

[Action: GM (Telecom)]

Item No. 4 – Review of Outage Programme of State Generators / Transmission elements for the month of March & April'09.

Outage programme of EHT lines and S/S for the year 2008-09 is being implemented.

Tentative Outage programme for State Generators for April & May'09 are as follows:

Sl.	Station	Unit	April'09		May'09		
1	Chiplima	# 3	04.11.06 to	Abnormal	04.11.06 to	Abnormal sound	
		11 3	continue	sound in turbine	continue	in turbine	
2	Burla	# 1	16.03.09 to	Annual	-	-	
			Continue	Maintenance			
		# 5	09.04.09 to	Annual	09.04.09 to	Annual	
			Continue	Maintenance	Continue	Maintenance	
3	Rengali	# 1	18.08.08 to	Winding	18.08.08 to	Winding	
			Continue	Problem	Continue	Problem	
		#2	15.01.09 to	Annual	15.01.09 to	Annual	
		112	31.05.09	Maintenance	31.05.09	Maintenance	
4	U. Indravati	# 2	06.04.09 to	Annual	06.04.09 to	Annual	
			05.05.09	Maintenance	05.05.09	Maintenance	
		# 4	-	-	07.05.09 to	Annual	
		# 4			05.06.09	Maintenance	
5	Balimela	# 3	20.04.09 to	Annual	20.04.09 to	Annual	
		" 3	19.05.09	Maintenance	19.05.09	Maintenance	

Item No. 5 – Generation Programme for the month of February & March'08

Generation schedule for the month of April & May'09 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.03.09	Reservoir Level as on 01.04.09	MDDL	High Flood Reservoir Level
200001011	April'09	May'09	010000	0100100		230 / 61
HPS, Burla	15+10	15+10	612.67ft	607.50ft	590 ft.	630 ft.
U.Indravati	240	75	632.70mtr	629.86mtr	625mtr	642 mtr
Balimela	80	120	1455.60ft	1447.90ft	1440 ft.	1516 ft.
U.Kolab	60	80	850.03mtr	848.70mtr	844 mtr	858 mtr.
Rengali	25	40	116.09mtr	114.53mtr	109.2mtr	123.5 mtr.
MKD (O/D)	30	30	2732.65ft	2723.90ft	2685 ft.	2750 ft.
TOTAL	460	370				

Item No. 6 – Progress and Programme of completion of WB & ADB funding / Deposit work / Gridco's own funding Lines & sub-stations.

❖ 132kV Burla-Sambalpur LILO at Katapalli.

Deliberation in the meeting:

CGM (Const) stated that the work is in progress and the line is expected to be charged by June 2009.

❖ 220/132kV Bolangir Grid S/S and 220 kV Katapalli-Bolangir line.

Deliberation in the meeting:

CGM (Const) stated that the work is in progress and the line is expected to be charged by June/July 2009.

❖ 220/132kV Paradeep Grid S/S.

Deliberation in the meeting:

Director (Engg) stated that the inspection work is under progress. The S/S is expected to be commissioned during April 2009 with 1x100 MVA capacity. Foundation for another auto of 50 MVA has also been completed.

Item No. -7 Communication issues

(I) Integration of NALCO & RSP CGPs with OPTCL –Present status May be intimated. Deliberation in the meeting

NALCO:

GM (Telecom) stated that NALCO has already been intimated to install their own RTU.

NALCO representative stated that they have already taken procurement action for RTU and issued clearance to OPTCL for lifting their RTU.

Director(Engg) stated that on installation of the 1:1 transformer by M/S NALCO the data transfer may be interrupted.

G.M (Telecom) stated that the signal can be bypassed by providing two Nos of CVT on both sides.

He also stated that RSP has not yet procured the required hardware for interfacing.

It was decided to insist RSP for completion of the work soon.

[Action – RSP, G.M (Telecom)]

(II) Installation of communication equipment by CGPs/ Industries.

Deliberation in the meeting

G.M (Telecom) stated that in view of the market recession due to global meltdown, the CGPs are delaying for commissioning of SCADA/PLCC equipments. However the issue is being monitored and the CGPS are constantly insisted to complete the work soon.

(III) Non-displaying of data for transmission elements / generating units

The status of the transmission elements for which the data is not being displayed in the SLDC control room was reviewed.

Deliberation in the meeting

GM(Telecom) stated that as decided in the last meeting a letter has been made to PGCIL under the signature of Director(Engg) to rectify the problems.

A proposal has been made by PGCIL to integrate the remaining transmission elements in the SCADA system. A decision will be taken soon.

[Action- G.M (Telecom)]

(V) Display of DISCOM drawal data at SLDC Control Room

Deliberation in the meeting

G.M (Telecom) stated that IT wing of OPTCL has taken up the work for collecting the data from all the interconnection points through WAN.

Sr G.M (PS) stated that since major S/Ss are covered in the SCADA, Disco drawal may be displayed by summing the transformer primary drawals of the respective Discos. This will represent an indicative figure up to 80% accuracy. The above proposal may be examined.

[Action- G.M (Telecom)]

Item No. 8- IT Related issues

A. MIS Report for EBC data

Deliberation in the meeting

CGM (IT) stated that GM (Telecom) has agreed to provide 2 MBPS dedicated line from IT center to SLDC for providing IT server data to SLDC. However till such time he has agreed to provide the EBC data in excel format to SLDC.

[Action: AGM (IT)]

B. Maintenance of SLDC website:

Deliberation in the meeting

CGM (IT) has agreed to amend the P.O for identifying SLDC executive as web coordinator for SLDC website so that, the real time data can be hosted in the site. Sr. G.M (PS) may intimate the name of the executive for SLDC web coordinator.

CGM(O&M) stated that OPTCL web site has to be updated in line with other Transcos like AP. A team of executives are required to be nominated for providing data to OPTCL site.

It was decided that CGM (O&M) shall convene a meeting for detail discussion in this regard.

[Action – Sr.G.M (PS), CGM (IT)]

Item No. 9: Issues relating to Discos:

CESU

Representative of CESU stated that, the capacity of Baligaon, Nuapatna, Dhenkanal and Angul

need to be upgraded to cater the growing load requirement of those areas.

CGM (O&M) stated that proposal has already been placed for commissioning of 3rd bay in the

grid S/Ss for up-gradation of S/S capacity.

Director (Engg) stated that up-gradation at Nuapatna and Balugaon S/Ss will be done on

receipt of repaired transformers. Inspection of one 40 MVA transformer for Dhenkanal Grid

has already been completed.

Regarding keeping of spares for Rly S/Ss as proposed by CESU, Director (Engg) stated that let

the Rly authority keep spare equipments for their own S/S.

Regarding low Voltage problem in CESU area, CGM (O&M) stated that OPTCL is responsible

for maintaining Voltage at the Grid S/Ss. CESU can maintain HT/LT Voltage by diversion of

loads and operating tap changers

ICCL Issues:

ICCL representatives stated that there are frequent black out experienced by ICCL substation

due to disturbances at Bidanasi and Choudwar grid S/Ss.

Deliberation in the meeting

Sr GM (PS) stated that number of CGPS have been connected between 132 kV Choudwar-

Chainpal DC line. As per the operational requirement ICCL and Maheswari are kept connected

with Choudwar S/S isolating from Dhenkanal end. Disturbances at Bidanasi and Choudwar are

being reflected to ICCL units. CGM (O& M) may review the matter.

[Action : CGM (O&M)]

Item No:11: The date and venue of 57th Operational Coordination meeting shall be intimated soon.

Item No: 12. Members expressed their gratitude to Er B.N.Mahapatra, Sr. G.M (Power System), Er.A.P.

Mohanty, Sr. G.M (T&D) and Er. C.R Mishra, Sr G.M (PP), who are going to retire from

service in the current month on superannuation, for their advice and guidance during their

tenure of service. It will take a long time for filling up the void created due to their retirement.

Sr.G.M. (Power System)

ANNEXURE-A

MEMBERS PRESENT

SL.NO.	NAME	DESIGNATION		
1	Sri K.K. Nath	Director (Engineering), OPTCL		
2	Sri A.C. Mallick	Director(Commercial), GRIDCO		
3	Sri J.P. Das	C.G.M.(O&M), OPTCL		
4	Sri N. Dash	C.G.M.(Construction), OPTCL		
5	Sri M. Anant Rao	C.G.M.(IT), OPTCL		
6	Sri B.N. Mahapatra	Sr.G.M (PS) SLDC, OPTCL.		
7	Sri S.C. Mudali	G.M., SLDC, OPTCL		
8	Sri R.K. Mahapatra	G.M.(Telecom), OPTCL		
9	Sri S.K. Rout	G.M.(Technical), CESU		
10	Sri P.K. Pradhan	G.M.(Operation), NESCO		
11	Sri A.C. Patra	D.G.M.(Telecom), OPTCL		
12	Sri B. R. Mishra	D.G.M.(SLDC), OPTCL		
13	Sri D. Das	D.G.M., CESU		
14	Sri Dibakar Behera	D.G.M., IMFA		
15	Sri B.R. Mishra	D.G.M., SLDC, OPTCL		
16	Sr. B. B. Nayak	D.G.M., NALCO		
17	Sri Santosh Kumar Das	A.G.M. (SS), SLDC, OPTCL.		
18	Sri P. Patra	A.G.M.(IT), OPTCL		
19	Sri S.D. Bhanja	A.G.M.(C&RA), NESCO		
20	Sri P. Arun Kumar	S.E.(Technical), SOUTHCO		
21	Sri P.K. Mishra	Manager, SLDC		
22	Sri B. P. Gantayat	Dy. Manager (Elect.), OHPC		
23	Sri S.K. Patra	Dy. Manager, WESCO		
24	Sri K.K. Mishra	A.M., OPTCL		
25	Miss. Banishree Pradhan	A.M., SLDC, OPTCL		
26	Mrs. S. Patajoshi	E.A. to Director (Comm.)		