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Government of India

Northern Regional Power Committee

(An ISO 9001:2000 Certified Organisation)

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

No. NRPC/SE (O)/CMG/2009

Dated: 03 .06. 09

To

(As per list)

Sub: Minutes of 3rd meeting of Crisis Management Group (CMG) held on 28.05.2009

The third meeting of Crisis Management Group (CMG) of NR was held on 28th May, 09 at NRPC New Delhi to discuss the situation arising out of weakening of transmission system in Northern and Western Regions. The transmission system is experiencing a critical / alert situation due to collapse of towers of 400 kV and 220 kV transmission lines because of dust storm in May, 2009.

The minutes of the meeting are enclosed herewith and are also placed on NRPC's Website at <http://nrpc.gov.in>. It is requested that the decisions taken by CMG may be implemented under intimation to this office.

-sd/-

(Ashok Kumar Aggarwal)

Member Secretary

To

All members of the Crisis Management Group (CMG)

- | | |
|-------------------------------------------------|------------------|
| 1. Sh. S.M Dhiman, Member (GO&D), CEA | -Chairman |
| 2. Sh. R.N Nayak, Director (O) POWERGRID | -Member |
| 3. Sh. S.K Soonee, ED (SO), POWERGRID | -Member |
| 4. Sh. V K Aggarwal, GM, NRLDC | -Member |
| 5. Sh. A K Kaul, Director (O), DTL | -Member |
| 6. Sh. Niraj Gulati, Chief Engineer (SO), HVPNL | -Member |
| 7. Sh. Ashok Kumar, Chief Engineer (TR), UPPTCL | -Member |
| 8. Sh. A K Aggarwal, Member Secretary, NRPC | -Member Convener |

Copy to :

1. Chairman, NRPC and Development commissioner and Secretary Power, Govt. of J&K, Srinagar Fax 0194-2452352

2. Chairman & Managing Director, DTL & Secretary (Power), GNCTD. This is w.r. to his letter No. dt. 26th May, 2009, addressed to Chairman, NRPC

3. Sh. Lokesh Chandra, Director (Transmission) MoP

4. Sh. A K Saxena, Director (O&M) MoP

Summary Record of 3rd meeting of Crisis Management Group Held at NRPC, New Delhi on 28th May, 2009

List of participants is enclosed at Annex-I.

1. Member Secretary, NRPC, intimated that the meeting of crisis management group (CMG) of NR had been called to discuss and review the situation arising out of weakening of transmission system in Northern and Western Regions. The transmission system was experiencing a critical / alert situation due to collapse of towers of important 400 kV and 220 kV transmission lines because of dust storm in May, 2009. This had adversely affected the transmission capability of the lines and Short term Open Access (STOA) was also curtailed.
2. MS, NRPC intimated that around twelve towers on PowerGrid lines were damaged. This had caused outage of six 400 kV circuits in the Northern Region (details given at annexure-II). Out of which, four circuits revived on ERS and now the situation had improved but in alert mode. In U.P system also, one 400 kV (Unnao-Bareilly-D/C) and five 220kV lines had been affected due to collapsing of seventeen towers. One line of 220 kV Wazirabad-Kashmiri gate-D/C of DTL was also out due to damage of three towers. One tower on 220 kV Bareilly-Pantnagar line was also got damaged, which had been revived by PTCUL.
3. Member (GO&D), CEA, stated that he had been informed that about twenty towers damage on 400 kV Jabalpur-Itarasi line and three on 400 kV Jabalpur - Vindhaychal line of Power Grid.
4. ED(SO) POWERGRID apprehended that with the outage of any line from Dadri generating station, the evacuation of power from Dadri would be affected and generation at Dadri complex would be backed down.
5. Crisis Management Group showed concern over reliability of Muradnagar substation of UPPTCL during the dust storm of 19th May 09. The substation had been reportedly hand tripped and 400kV Dadri-Muradnagar line remained out for a considerable period and around 600 MW was back down at Dadri complex due to transmission constraints.
6. DTL stated that even with the outage of 220 kV Wazirabad-Kashmiri gate D/C line, they immediately restored the supply to KashmiriGate & DMRC by making T-OFF connection in Wazirabad-Geeta Colony Ckt.-2. DTL intimated that on inspection of damage of tower of Wazirabad – K/gate line they found the stubs had got damaged, so foundation of this line would need repair and it would take time.
7. DTL apprehended that in case of another dust storm or cyclone, the situation would worsen and requested PowerGrid to take emergent steps to restore the system. Director (operation), DTL stated that with increase of load of Delhi to around 4000MW, the remaining three ICTs at Mandola

would be over loaded. DTL requested POWERGRID for an early revival of damaged ICT at Mandola.

8. ED (SO) PowerGrid advised DTL to shift Narela sub station load to Panipat side. DTL agreed to the suggestion but apprehended that there could be low voltage problem in Panipat and lines emanating from Panipat could also overload.
9. PowerGrid intimated that ICT at Mandola would be revived by end of Jun 2009.
10. NRLDC intimated that there were Total Transmission Capability (TTC) violations by the constituents and some STOA were also curtailed due to limitation on Available Transmission Capability (ATC), since second week of May 09. NRLDC intimated that with revival of lines the TTC had been increased to 2000MW with affect from 28th Jun 2009.
11. Regarding overdrawl by the constituents, NRLDC intimated that Punjab & U.P had been overdrawing heavily from the grid.
12. ED (SO), POWERGRID also showed concern about likely overdrawl by Punjab in ensuing paddy season which starts in 2nd week of June 09. CMG advised NRLDC to have a close monitoring on overdrawl by states during paddy season.
13. ED (SO) PowerGrid intimated that four 220 kV lines outages had also been reported by the constituents of NEW grid due to towers' collapse. The detail is given in Annexure –II.

After the deliberations, the following decisions were taken by the Crisis Management Group: -

1. The revival of lines by PowerGrid and other constituents should be taken up on war footing and should be brought back before by 15th June, 2009. The status in regard would be closely monitored by NRPC Sectt. (Action - POWERGRID and UPPTCL, DTL, RVPNL, NRPC & WRPC)
2. Reliability of 400 kV Muradnagar sub station of UPPTCL should be ensured by UPPTCL. (Action - UPPTCL)
3. Narela substation of DTL should be fed from Panipat (BBMB) side till the revival of Mandola ICT. (Action - DTL)
4. The ICT at Mandola needs to be revived as early as possible, preferably before 30th June, 2009. (Action - POWERGRID).
5. Constituents might be requested to control overdrawl in view of system constraints. (Action - All constituents)
6. Voltage level at Panipat , Haryana system and Punjab system needs to be closely monitored by NRLDC (Action - BBMB, HVPNL, PSEB and NRLDC)

Meeting ended with thanks to the Chair

Annexure -I

**List of Participants in the Crisis Management Group meeting on 28th May 2009 at
NRPC New Delhi.**

In Chair: Shri SM Dhiman, Member, (GO&D), CEA

S.NO	Name of Participant & Designation (s/sh.)	Organization	Mobile	E-Mail Address
1	R.N.Nayak Dir (OP)	POWERGRID	9811422111	nayak@powergridindia.com
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3	V.K.Agarwal General Manager	NRLDC, POWERGRID	9818933799	VKA1996@gmail.com
4	S.K.Soonee ED (SO)	SO POWERGRID	9899091115	sksoonee@gmail.com
5	R.G.Yadav ED (Engg)	POWERGRID	9810647755	rgyadav@powergrid.com
6	B.Sharma G.M	NR-I POWERGRID		
7	A.Mani	AGM(SO), PowerGrid	9873088797	amanipg@gmail.com
8	Rajeev Porwal Ch.Mgr	NRLDC, POWERGRID	9871581133	rkporwal@powergridindia.com
9	B.C.Mathur	SLDC, Delhi	9818648217	mathurbc50@gmail.com
10	V.Venugopal	SLDC, Delhi	9871093902	DTLDATA@rediffmail.com
11	A K Aggarwal	MS, NRPC		
12	K.K.Arya SE (P&S)	NRPC	9810455760	kkaray2001@rediffmail.com
13	A K Rajput	SE(O), NRPC		nrebops@yahoo.com
14	Vikram Singh	EE(O), NRPC	9868893051	nrebops@yahoo.com

Annexure -II

Sub: Outage of transmission elements due to dust storm in Northern Region during May 2009
 Crisis management Group meeting on 28.05.09

S.No	Name of Line (ownership)	Number of towers collapse (location)	Date		Remark
			Outage	Revival	
	NR				
	POWERGRID				
1	400kV Ballabgarh-Noida (PGCIL)	6 (Loc 70-75)	10/05/09	Likely by 15 th June 09	
2	400 kV Maharanibagh-Ballabgarh (PGCIL)	6 (Loc 70-75)	10/05/09	19/05/09	On ERS
3	400 kV Allahabad-Mainpuri II/I(PGCIL)	4(Loc798-802)	11/05/09	19/05/09 and 23/5/09 respectively	On ERS
4	400 kV Dadri - Mandola(PGCIL) I/II	2(Loc-32-33)	19/05/09	Ckt-I revived 26.05.09 -II	On ERS
	Total	12			
	UPPTCL				
5	400 kV Unnao-Bareilly I/II(UPPTCL)	2(Loc-700-701)	10/05/09	Likely on 05.06.09 (pmt)	
6	220 kV Bareilly - Dohna (UPPTCL)	1 (Loc-15)	10/05/09	Likely on 30/05/09	
7	220 kV Shahjanpur-Sitapur(UPPTCL)	2	10/05/09	Likely on 31.05.09 (pmt)	
8	220 kV Orai-Bhauti (Kanpur) (UPPTCL)	9	10/05/09	Likely on 10.06.09 (pmt)	
9	220 kV Meerut Shatabdinagar (UPPTCL)	1	19/05/09	06.06.2009	
10	220 kV Matore-Shatabdinagar - Modipuram (UPPTCL)	2	19/05/09	28/05/09	
	UP	17			
	DTL				
11	220 kV Wazirabad -Kashmiri gate D/C (DTL)	3	22.05.09	Likely revival in one month time	

	PTCUL				
12	220 kV Bareilly- PantNagar (PTCUL)	1(Loc - 55)	10/05/09	16/05/09	
	WR				
1	400 kV Jabalpur – Itarsi D/C	20	14/05/09	Likely revival on 30/5/09 on ERS	
2	400 kV Jabalpur Vindhaychal	3	24/05/09		
	Other lines outages reported by ED(SO), POWERGRID				
1	220 kV Joda- Jamshedpur (DVC),		18.05.09	06.06.09	
2	220 kV Bakreshawer- Bidhannagar D/C		27.05.09	25.06.09	
3	220 kV Farka- Lalmathiya (NTPC)			31.05.09	
4	220 kV Bharatpur- Mandova (RPVNL)		21.05.09	Information not available	