

PROPOSED LOAD SHEDDING PLAN OF UPCL

Sl. No.	Areas of Load Shedding	Time Period	Approximately relief in MW
1.	Rural area of Jwalapur, Sultanpur- Bhattipur, Roorkee, Manglore, Landhora, Bhagwanpur, Laksar, Khanpur, Narsan., Khatima, Kichha, Jaspur, Bazpur, Kela Khera, Pipalia, ND Nagar, Ghari Nagi and Sarwarkhera.	05.00 A.M. to 07.00 A.M.	100 MW
2.	Dehradun, Haridwar and Jwalapur town except Hari Ki Pauri and Dehradun Water Works.	07.00 A.M. to 08.00 A.M.	95 MW
3.	Kashipur, Rudrapur, Haldwani Town & Roorkee Town except Haldwani Water Works	08.00 A.M. to 11.00 A.M.	100 MW
4.	All Hill areas, Kotdwar Town (except water works feeders & 66 KV Srinagar Joshimath Line) & Rishikesh Town	11.00 A.M. to 01.00 P.M.	95 MW
5.	Rural area of Jwalapur, Sultanpur Bhattipur, Roorkee, Mangalore, Landhora, Bhagwanpur, Laksar, Khanpur, Narsan., Khatima, Kichha, Jaspur, Bazpur, Kela Khera, Pipalia, ND Nagar, Ghari Nagi and Sarwarkhera.	01.00 P.M. to 04.00 P.M.	115 MW
6.	Laksar town, Landhora town, Jaspur town, Khatima town, Gadarpur town, Bazpur town, Kichha town, Sitarganj town, Bahadrabad town, Manglore Town, Doiwala, Dhakrani, Vikasnagar, Selaqui & Sahaspur	04.00 P.M. to 07.00 P.M.	80 MW
7.	All Induction Furnaces & Rolling Mills	00.00 Hrs. to 01.00 A.M. 07.00 P.M. to 12.00 P.M.	60 MW
8.	All 132, 33 KV and 11 KV Industrial & Independent feeders emanating from Primary & Secondary Sub-stations including SIDCUL Hardwar, SIDCUL Pantnagar except the industrial consumers who have opted for supply during restricted hours at higher tariff	07.15 P.M. to 09.15 P.M.	60 MW

Annexure - 2

MONTHLY GENERATION REPORTS FOR LAST THREE MONTHS
DOWNLOADED FROM THE WEBSITE OF CENTRAL ELECTRICITY AUTHORITY

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE

PERIOD: MAR-2009 VIS-A-VIS MAR-2008 AND APR-MAR-2009 VIS-A-VIS APR-MAR-2008

SECTOR WISE DETAILS - STATE SECTOR (HYDRO)

Category / Sectors / Utility	Monitored Capacity (MW)	Target Apr 2008 to Mar 2009	GENERATION (GWH)									
			MAR-2009					APRIL 2008 - MAR-2009				
			PROGRAM	ACTUAL *	ACTUAL SAME MONTH 2007 - 08	% OF PRO- GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL *	ACTUAL SAME PERIOD 2007 - 08	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)
	1	2	3	4	5	6	7	8	9	10	11	12
STATE SECTOR HYDRO												
HPGC	62.40	275.00	19.00	11.04	18.11	58.11	68.53	275.00	282.31	269.50	102.66	104.75
HPSEB	450.45	1778.00	79.00	66.82	103.30	84.58	64.69	1778.00	2023.61	1806.27	113.81	112.03
J&KPDC	760.85	2366.00	170.00	218.37	78.10	128.45	279.60	2366.00	1611.81	883.26	68.12	182.48
PSEB	1142.35	4070.00	223.00	272.53	285.55	122.21	95.44	4070.00	4227.43	4602.52	103.87	91.85
RRVUNL	430.00	1235.00	81.00	4.69	124.79	5.79	3.76	1235.00	670.12	1399.63	54.26	47.88
UJVNL	1281.85	4963.00	306.00	223.12	320.51	72.92	69.61	4963.00	4576.13	3556.35	92.20	128.67
UPJVNL	526.20	1470.00	110.00	71.75	51.22	65.23	140.08	1470.00	1099.31	922.94	74.78	119.11
CSEB	137.00	354.00	19.00	26.03	12.72	137.00	204.64	354.00	294.16	262.65	83.10	112.00
GSECL	545.00	1114.00	89.00	48.26	77.24	54.22	62.48	1114.00	547.83	1237.77	49.18	44.26
MAHAGENCO	2591.80	4430.00	432.00	409.05	302.47	94.69	135.24	4430.00	3991.40	4627.47	90.10	86.25
MPPGCL	895.00	2617.00	92.00	141.42	164.83	153.72	85.80	2617.00	2456.82	2744.06	93.88	89.53
NVDA	10.00	18.00	1.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00
SSNNL	1450.00	4730.00	192.00	140.45	133.05	73.15	105.56	4730.00	2344.63	4434.72	49.57	52.87
APGENCO	3706.75	8861.00	671.00	645.31	565.89	96.17	114.03	8861.00	8158.78	9872.45	92.08	82.64
KSEB	1815.70	7008.00	612.00	457.33	631.74	74.73	72.39	7008.00	5841.78	8322.75	83.36	70.19
TNEB	2170.45	4604.00	357.00	309.79	318.59	86.78	97.24	4604.00	5376.53	6432.83	116.78	83.58
VVNL	3590.80	11479.00	837.00	1079.29	1203.76	128.95	89.66	11479.00	12911.58	14496.61	112.48	89.07
A&N ADM	5.25	7.00	0.00	0.31	0.88	0.00	35.23	7.00	9.77	8.37	139.57	116.73
BSHPC	44.90	71.00	7.00	1.55	5.93	22.14	26.14	71.00	49.46	57.83	69.66	85.53
JSEB	130.00	151.00	5.00	2.86	5.66	57.20	50.53	151.00	237.71	210.83	157.42	112.75
OHPC	2011.50	6060.00	427.00	336.87	464.69	78.89	72.49	6060.00	5662.35	7874.84	93.44	71.90
SIKKIM	32.00	50.00	4.00	4.65	3.21	116.25	144.86	50.00	47.85	48.33	95.70	99.01
WBSEB	1056.50	1302.00	97.00	62.15	60.79	64.07	102.24	1302.00	943.72	755.96	72.48	124.84
APGPCL	100.00	450.00	9.00	5.68	16.25	63.11	34.95	450.00	416.32	495.21	92.52	84.07
ARUNACHAL	18.50	40.00	2.00	1.50	1.64	75.00	91.46	40.00	21.92	12.31	54.80	178.07
MEGEB	185.20	568.00	31.00	33.18	27.18	107.03	122.08	568.00	555.37	665.46	97.78	83.46
NAGALAND	24.00	100.00	4.00	0.00	4.95	0.00	0.00	100.00	71.00	93.55	71.00	75.90
TRIPURA	15.00	50.00	4.00	1.20	2.95	30.00	40.68	50.00	50.35	36.02	100.70	139.78
TOTAL STATE	25189.25	70221.00	4880.00	4575.20	4984.00	93.75	91.80	70221.00	64480.05	76130.49	91.82	84.70

* PROVISIONAL BASED ON ACTUAL-CUM-ASSESSMENT

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE

PERIOD: APR-2009 VIS-A-VIS APR-2008 AND APR-APR-2009 VIS-A-VIS APR-APR-2008

SECTOR WISE DETAILS - STATE SECTOR (HYDRO)

Category / Sectors / Utility	Monitored Capacity (MW)	Target Apr 2009 to Mar 2010	GENERATION (GWH)									
			APR-2009					APRIL 2009 - APR-2009				
			PROGRAM	ACTUAL *	ACTUAL SAME MONTH 2008 - 09	% OF PRO- GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL *	ACTUAL SAME PERIOD 2008 - 09	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)
	1	2	3	4	5	6	7	8	9	10	11	12
STATE SECTOR HYDRO												
HPC	62.40			14.57	17.78		81.95		14.57	17.78		81.95
HPSEB	450.45	1612.00	117.00	111.14	121.53	94.99	91.45	117.00	111.14	121.53	94.99	91.45
J&K PDC	760.65	3346.00	371.00	214.50	92.29	57.82	232.42	371.00	214.50	92.29	57.82	232.42
PSEB	1142.35	3752.00	250.00	215.37	108.58	86.15	198.35	250.00	215.37	108.58	86.15	198.35
RRVUNL	430.00	898.00	8.00	1.16	41.65	14.50	2.79	8.00	1.16	41.65	14.50	2.79
UJVNL	1281.85	4570.00	339.00	240.57	359.75	70.96	66.87	339.00	240.57	359.75	70.96	66.87
UPJVNL	526.20	1380.00	70.00	82.90	62.07	118.43	133.56	70.00	82.90	62.07	118.43	133.56
CSPGCL	137.00	310.00	15.00	31.07	11.13	207.13	279.16	15.00	31.07	11.13	207.13	279.16
GSECL	545.00	979.00	64.00	60.02	69.37	93.78	86.52	64.00	60.02	69.37	93.78	86.52
MAHAGENCO	2591.80	3848.00	385.00	668.01	519.92	173.51	128.48	385.00	668.01	519.92	173.51	128.48
MPPGCL	895.00	2500.00	77.00	185.81	111.72	241.31	166.32	77.00	185.81	111.72	241.31	166.32
NVDA	10.00			0.00	0.00		0.00		0.00	0.00		0.00
SSNNL	1450.00	3483.00	112.00	129.88	126.34	115.96	102.80	112.00	129.88	126.34	115.96	102.80
APGENCO	3706.75	9012.00	429.00	207.51	564.24	48.37	36.78	429.00	207.51	564.24	48.37	36.78
KPCL	3590.80	11843.00	843.00	969.95	1368.62	115.06	70.87	843.00	969.95	1368.62	115.06	70.87
KSEB	1840.70	6769.00	597.00	460.90	735.80	77.20	62.64	597.00	460.90	735.80	77.20	62.64
TNEB	2170.45	4700.00	272.00	288.05	434.86	105.90	66.24	272.00	288.05	434.86	105.90	66.24
A&N ADM	5.25			0.30	0.88		44.12		0.30	0.68		44.12
BSHPC	44.90			1.50	3.43		43.73		1.50	3.43		43.73
JSEB	130.00	152.00	0.00	4.35	1.12	0.00	388.39	0.00	4.35	1.12	0.00	388.39
OHPC	2011.50	6041.00	468.00	379.06	406.84	81.00	93.17	468.00	379.06	406.84	81.00	93.17
SIKKIM	32.00			4.50	3.14		143.31		4.50	3.14		143.31
WBSEDCL	1056.50	948.00	70.00	77.01	49.45	110.01	155.73	70.00	77.01	49.45	110.01	155.73
APGPC	100.00	450.00	22.00	11.58	4.31	52.64	268.68	22.00	11.58	4.31	52.64	268.68
DOHPD	18.50			1.50	1.99		75.38		1.50	1.99		75.38
MEGEB	185.20	530.00	17.00	30.11	20.53	177.12	146.66	17.00	30.11	20.53	177.12	146.66
NAGALAND	24.00			0.00	0.00		0.00		0.00	0.00		0.00
TRIPURA	15.00			0.35	4.12		8.50		0.35	4.12		8.50
TOTAL STATE	25214.25	67123.00	4526.00	4391.67	5241.26	97.03	83.79	4526.00	4391.67	5241.26	97.03	83.79

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE
 PERIOD: MAY-2009 VIS-A-VIS MAY-2008 AND APR-MAY-2009 VIS-A-VIS APR-MAY-2008

SECTOR WISE DETAILS - STATE SECTOR (HYDRO)

SECTOR WISE DETAILS - STATE SECTOR (HYDRO)													
Category / Sectors / Utility	Monitored Capacity (MW)	Target Apr 2009 to Mar 2010	GENERATION (GWH)										P
			MAY-2009					APRIL 2009 - MAY-2009					
			PROGRAM	ACTUAL *	ACTUAL SAME MONTH	% OF PRO- GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL *	ACTUAL SAME PERIOD	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	
					2008 - 09					2008 - 09			
	1	2	3	4	5	6	7	8	9	10	11	12	
STATE SECTOR HYDRO													
HPGC	62.40			17.81	21.52		82.76		31.98	39.30		81.37	
HPSEB	450.45	1612.00	164.00	177.33	218.14	108.13	81.29	281.00	287.37	339.67	102.27	84.60	
J&KPDC	760.85	3346.00	420.00	348.44	102.24	82.96	340.81	791.00	690.26	194.53	87.26	354.83	
PSEB	1142.35	3752.00	440.00	404.24	347.31	91.87	116.39	690.00	618.95	455.89	89.70	135.77	
RRVUNL	430.00	898.00	5.00	2.71	16.87	54.20	16.06	13.00	3.60	58.52	27.69	6.15	
UJVNL	1281.85	4570.00	439.00	391.09	487.61	89.09	80.21	778.00	632.16	847.36	81.25	74.60	
UPJVNL	526.20	1380.00	80.00	96.28	54.47	120.35	176.76	150.00	181.45	116.54	120.97	155.70	
CSPGCL	137.00	310.00	10.00	14.28	10.14	142.80	140.83	25.00	47.50	21.27	190.00	223.32	
GSECL	545.00	979.00	75.00	38.40	60.95	51.20	63.00	139.00	94.47	130.32	67.96	72.49	
MAHAGENCO	2591.80	3848.00	377.00	343.90	364.98	91.22	94.22	762.00	1071.56	884.90	140.62	121.09	
MPPGCL	895.00	2500.00	52.00	170.67	91.57	328.21	186.38	129.00	365.02	203.29	282.96	179.56	
NVDA	10.00			0.00	0.00		0.00		0.00	0.00		0.00	
SSNNL	1450.00	3483.00	106.00	107.88	188.00	101.77	57.38	218.00	222.30	314.34	101.97	70.72	
APGENCO	3708.75	9012.00	271.00	107.62	457.81	39.71	23.51	700.00	315.28	1022.05	45.04	30.85	
KPCL	3590.80	11843.00	852.00	587.68	1413.14	68.98	41.59	1695.00	1614.35	2781.76	95.24	58.03	
KSEB	1840.70	6769.00	612.00	493.17	650.55	80.58	75.81	1209.00	973.23	1386.35	80.50	70.20	
TNEB	2170.45	4700.00	253.00	199.26	340.52	78.76	58.52	525.00	476.97	775.38	90.85	61.51	
A&N ADM	5.25			0.31	0.83		37.35		0.92	1.51		60.93	
BSHPC	44.90			1.55	1.68		92.26		1.55	5.11		30.33	
JSEB	130.00	152.00	0.00	1.97	3.38	0.00	58.28	0.00	6.50	4.50	0.00	144.44	
OHPC	2011.50	6041.00	407.00	231.68	324.47	56.92	71.40	875.00	685.18	731.31	76.02	90.96	
SIKKIM	32.00			4.65	3.73		124.66		7.88	6.87		114.70	
WBSEDCL	1056.50	948.00	76.00	56.30	56.80	74.08	99.12	146.00	132.81	106.25	90.97	125.00	
APGPCL	100.00	450.00	29.00	23.23	27.36	80.10	84.90	51.00	38.92	31.67	76.31	122.89	
DOHPD	18.50			1.55	1.68		92.26		2.91	3.67		79.29	
MEGEB	185.20	530.00	21.00	37.02	26.01	176.29	142.33	38.00	69.55	46.54	183.03	149.44	
NAGALAND	24.00			0.00	2.60		0.00		2.75	2.60		105.77	
TRIPURA	15.00			0.99	5.70		17.37		1.98	9.82		20.16	
TOTAL STATE	25214.25	67123.00	4689.00	3860.01	5280.06	82.32	73.11	9215.00	8557.40	10521.32	92.86	81.33	

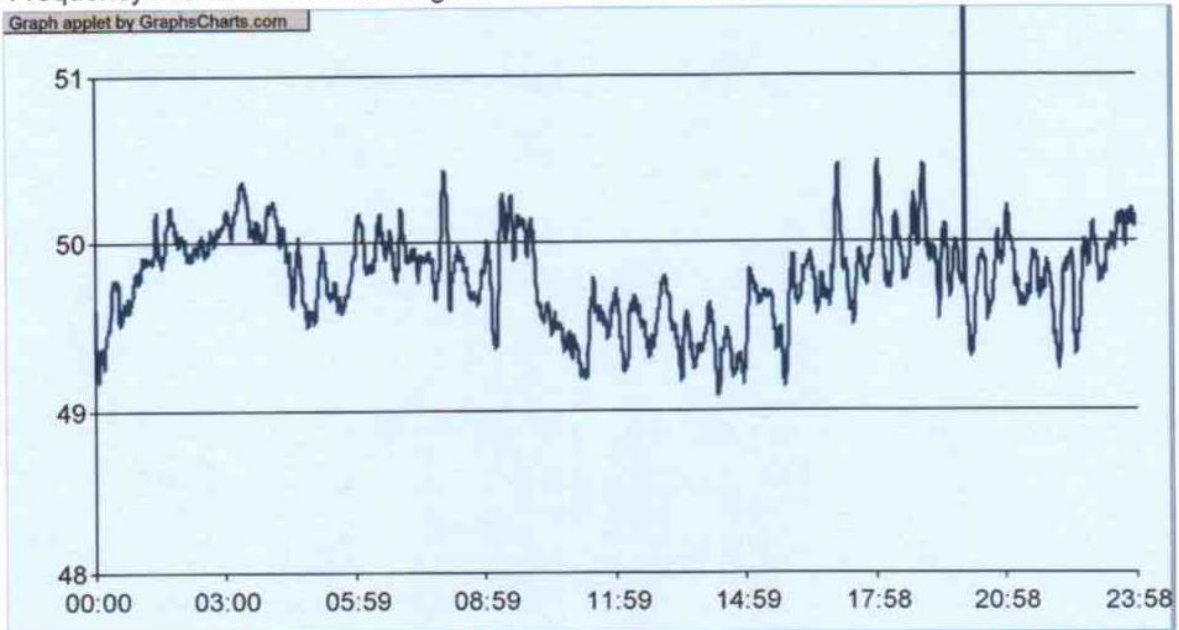
* PROVISIONAL BASED ON ACTUAL-CUM-ASSESSMENT

GRAPHS DOWNLOADED FROM NRLDC WEBSITE SHOWING OVERDRAWS
AND FREQUENCY

Frequency Graph...

Frequency Profile In Northern Region For : 15-06-2009

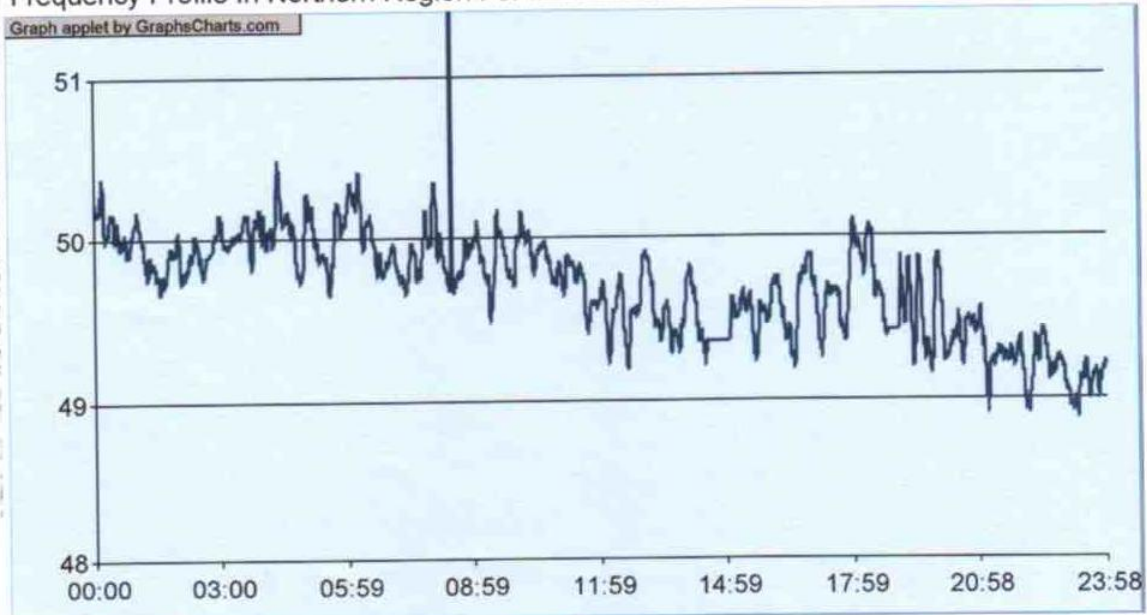
Graph applet by GraphsCharts.com



Frequency Graph...

Frequency Profile In Northern Region For : 16-06-2009

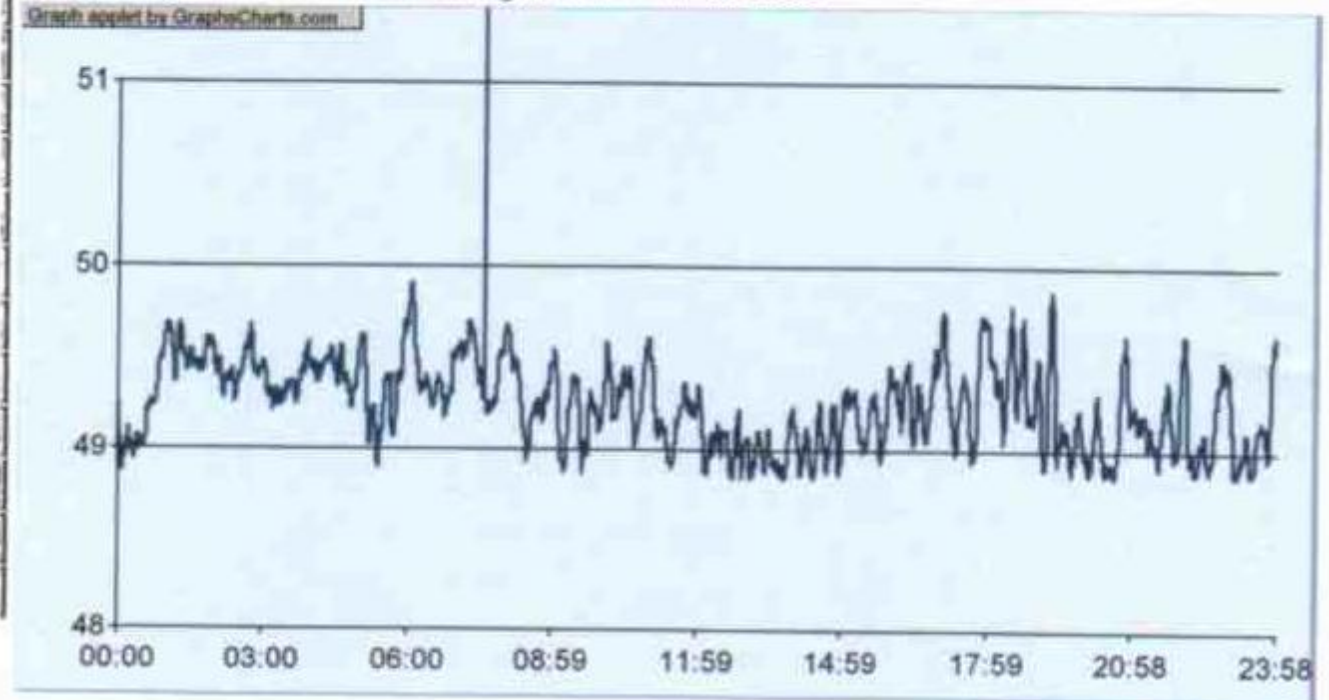
Graph applet by GraphsCharts.com



Frequency Graph...

Frequency Profile In Northern Region For : 17-06-2009

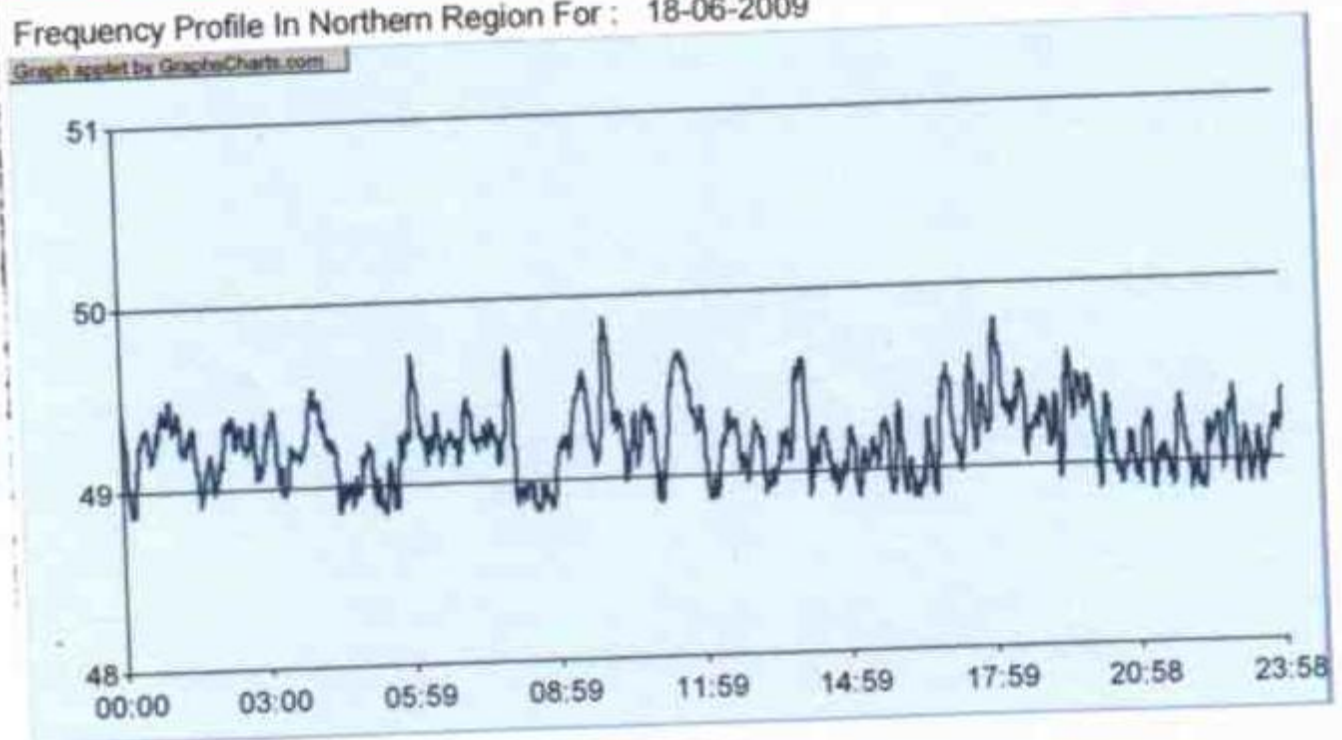
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Frequency Graph...

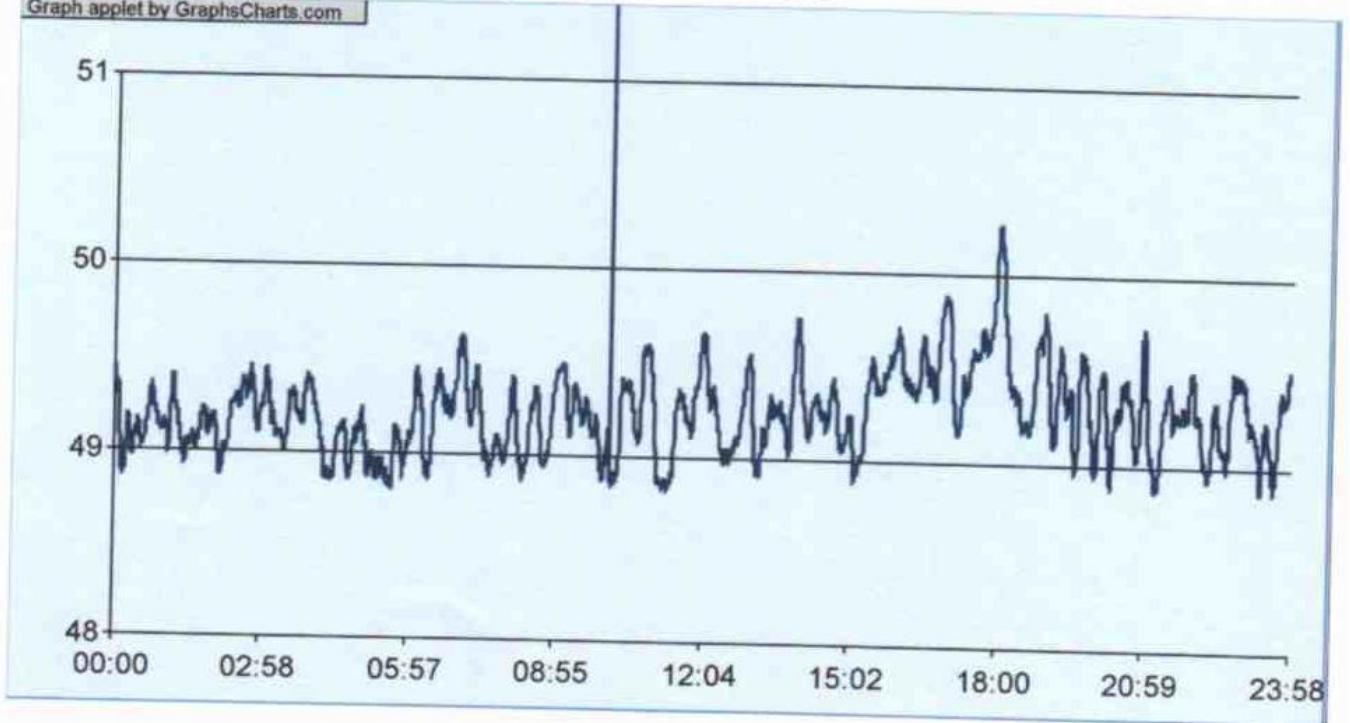
Frequency Profile In Northern Region For : 18-06-2009

Graph applet by GraphsCharts.com



Frequency Profile In Northern Region For : 19-06-2009

Graph applet by GraphsCharts.com



Schedule Vs Actual Drawal...

Schedule Vs Actual Drawal For Uttaranchal For : 15-06-2009



LEGEND: — Schedule — Actual

Schedule Vs Actual Drawal...

Schedule Vs Actual Drawal For Uttaranchal For : 16-06-2009

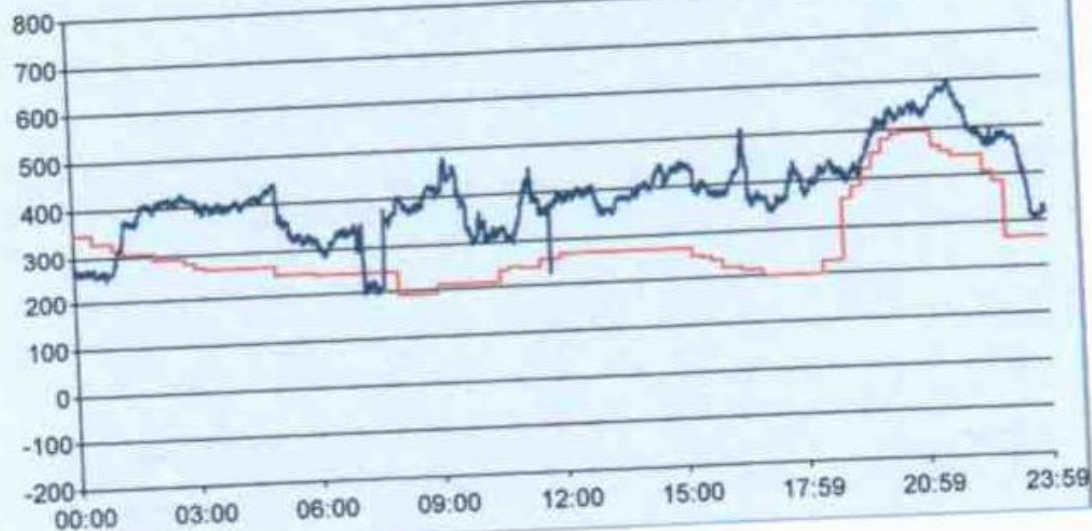


LEGEND: — Schedule — Actual

Schedule Vs Actual Drawal...

Schedule Vs Actual Drawal For Uttaranchal For : 17-06-2009

Graph applied by GraphsCharts.com

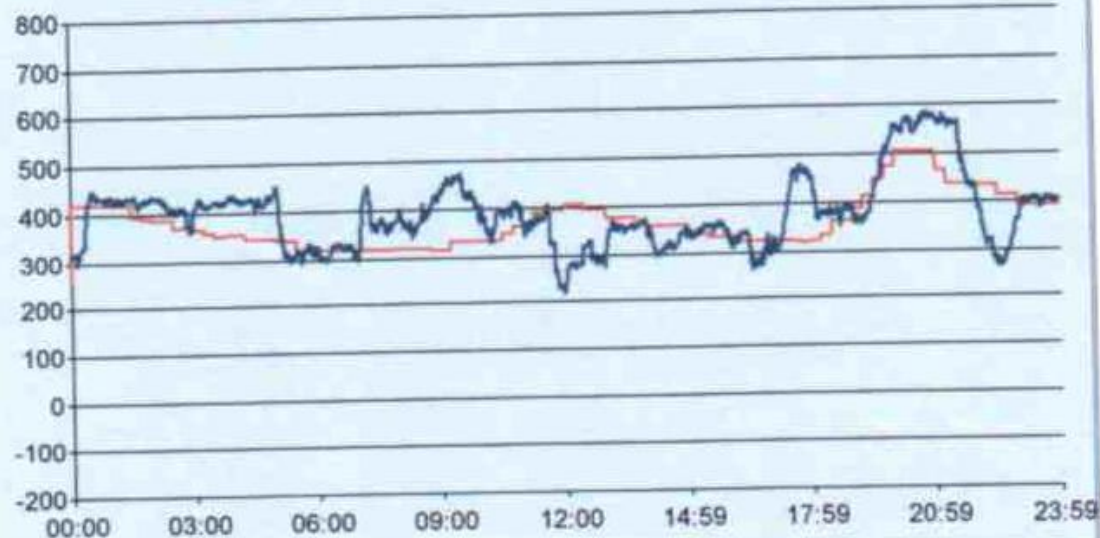


LEGEND: — Schedule — Actual

Schedule Vs Actual Drawal...

Schedule Vs Actual Drawal For Uttaranchal For : 18-06-2009

Graph applied by GraphsCharts.com



LEGEND: — Schedule — Actual

Annexure - 4

THE DETAILS OF THE OVERDRAWS BY THE STATE UNDER LOW FREQUENCY
(<49.20 Hz) DURING 01-MAY-2009 TO 31-MAY-2009

Details of over draws by utilities under low frequency (<49.20 Hz) in Northern Region during 01-May-2009 to 31-May-2009

Date	Block No.	Fig. in Average MW										
		CHANDIGARH	DELHI	H.P.	HARYANA	J & K	PUNJAB	RAILWAYS	RAJASTHAN	U.P.	UTTARAKHAND	NEPAL
01-May-2009	1	26	42	72		60	0			1283	16	
01-May-2009	2	22		81	18	39	3		88	1192	8	
01-May-2009	3	20		98		32	49		109	911	38	
02-May-2009	3		164		388		197	1		873	45	
02-May-2009	46	24		36	2		204	18	579	458		
02-May-2009	60	47		59	114		144	11	222	502	99	
02-May-2009	61	53	48	87	24		219	8	215	697	126	
02-May-2009	62	57	24	104			241	1	147	685	139	
04-May-2009	48	22		247				7	258	1130	8	
04-May-2009	49	25		190	52			8	246	1154	42	
04-May-2009	50	31		175	98			9	323	1189	98	
04-May-2009	52	35		210				6	273	1172	106	
04-May-2009	54	49		235	135	6		12	253	1426	135	
04-May-2009	55	42	10	213	180			10	151	1351	135	
04-May-2009	56	41	85	179	186			13	167	1110	108	
04-May-2009	59	39	64	150	39	4		8	241	993	150	
04-May-2009	61	50	118	97				8	286	989	88	
04-May-2009	63	55	125	143	122			7	95	893	66	
04-May-2009	64	58	144	155	131	7		11	191	864	111	
05-May-2009	56	2		57	101		52	25	35	796	53	1
05-May-2009	59			83			219	49		210	40	3
05-May-2009	66	15		217		44	18	47	174	229	122	
05-May-2009	67	16		152		61	67	37	108	346	137	
06-May-2009	54	33		177	56	39	97	25	343	738	110	0
06-May-2009	58	30		190		46	177	27	225	469	140	
06-May-2009	59	25		88		31	182	46	217	317	177	
06-May-2009	60	26		62		36	218	33	86	99	198	0
06-May-2009	61	28		22		31	205	29	22	36	222	
06-May-2009	62	33	47	2		52	239	31	127	161	243	
06-May-2009	63	30	73	17		79	249	23	121	312	245	
06-May-2009	82			151	75		74	49	539	558	125	
06-May-2009	88			165			99	37	248	964	47	
06-May-2009	90			118		5	10	32	427	971	61	
06-May-2009	93			38		54	78	32	226	332	37	
06-May-2009	94					24	92	29	516	410	39	
06-May-2009	96			82				25	581	437	1	
07-May-2009	1			23		57		24	175	412	23	
07-May-2009	3			110		29		24	289	234	52	
07-May-2009	4			83		18		20	240	324	41	
07-May-2009	18			264	85	45	300	9	92	220	263	
07-May-2009	19			267	69	66	324	15	59	245	287	
07-May-2009	20			230	97	118	423	10	33	264	268	1
07-May-2009	22	1		317	278	192	499	0	267	299	276	
07-May-2009	23			263	331	228	403	13	214	290	269	
07-May-2009	67	50		208	199	89	9	14		600	361	
07-May-2009	81			181	278	10	319	27	103	57	136	
07-May-2009	86			94	51	69	213	25		829	103	

Details of over draws by utilities under low frequency (<49.20 Hz) in Northern Region during 01-May-2009 to 31-May-2009

Date	Block No.	Fig. in Average MW										
		CHANDIGARH	DELHI	H.P.	HARYANA	J & K	PUNJAB	RAILWAYS	RAJASTHAN	U.P.	UTTARAKHAND	NEPAL
07-May-2009	87			79	48	71	145	16		908	120	
07-May-2009	88			98	83	82	90	22		655	103	
07-May-2009	90			187		53		17		543	149	1
07-May-2009	91			149		44		22		597	129	
07-May-2009	92			129		8	29	20		599	121	
07-May-2009	93	4		145		92		13		603	136	
07-May-2009	94	5		130		9		14	58	600	115	
07-May-2009	95	2		112		20		7	129	506	114	
08-May-2009	2				111			11		511	170	
08-May-2009	3				96			25		465	170	
08-May-2009	4			5	60			26		488	193	
08-May-2009	19			117	176		156	10		494	228	
08-May-2009	38	46		241	52		71	27	208		235	2
08-May-2009	41	37		185				26	103		226	1
08-May-2009	42	33		124				28	27		207	1
08-May-2009	44	36		65			43	34	104		174	1
08-May-2009	45	38		51				25	166	186	119	1
08-May-2009	46	28		18				15	6	261	112	1
08-May-2009	57	31	85	142				18			247	3
08-May-2009	63	44	33	207			46	16		19	340	
08-May-2009	65	45	171	265		1	66	13			357	
08-May-2009	67	52	100	244	7	72	132	19	38	210	218	
08-May-2009	70	54	106	201			94	11	25	201	289	
08-May-2009	84				328	7	416	23		346	99	
08-May-2009	86			45	155	35	366	22		499	88	
08-May-2009	90			36		11	267	24		522	73	
08-May-2009	91			4			422	32		568	72	
08-May-2009	93	7	77	32		28		32		826	58	
08-May-2009	94	3		6		4		24		613	75	
08-May-2009	95							20		569	57	
08-May-2009	96						26	18		647	83	
09-May-2009	1				166			12		635	87	
09-May-2009	2			5	90		10	11		511	107	
09-May-2009	3			24			87	11		452	135	
09-May-2009	4			42			88	11		388	124	
09-May-2009	5			64			227	12		391	118	
09-May-2009	7			97			103	10	77	666	167	
09-May-2009	11			146	37		92	9	59	804	182	
09-May-2009	12			140	38		103	12	23	695	205	
09-May-2009	13	3		177	16		66	15		838	211	
09-May-2009	14	17		168	27		149	20	28	904	226	
09-May-2009	39	30		111	271		164	41	38		242	3
09-May-2009	43	10		87	100		112	16	216	387	65	1
09-May-2009	60	19		112			191	14	2	615	126	1
09-May-2009	63	36		132		55	251	5		459	108	
09-May-2009	66	46	9	111	37	74	179	9		237	133	
09-May-2009	91	16		78	345	7	25	15		877	108	

Details of over draws by utilities under low frequency (<49.20 Hz) in Northern Region during 01-May-2009 to 31-May-2009

Date	Block No.	Fig. in Average MW										
		CHANDIGARH	DELHI	H.P.	HARYANA	J & K	PUNJAB	RAILWAYS	RAJASTHAN	U.P.	UTTARAKHAND	NEPAL
09-May-2009	93	19	7	13	11	51	35	21	122	583	78	
10-May-2009	1	11	29	25	197			8		815	92	
10-May-2009	12	8		58	306		80	13	48	909	258	
10-May-2009	59			187	81		66	15	58	938	331	3
11-May-2009	58	41		261	51		531	20	122	1003	108	5
11-May-2009	59	37		218		6	514	10		977	108	5
11-May-2009	62	47		240	153	12	170	8	62	543	119	2
13-May-2009	59				288	63	85	16		639	19	3
13-May-2009	85			13	444	92		34		504		1
13-May-2009	93	18	15		354	44	33	32		363		7
14-May-2009	54	37		40			147	29	50	596	0	2
14-May-2009	55	41		50	20		104	28		453	7	2
14-May-2009	56	40		52	8		166	28		435	36	2
14-May-2009	64	57		85	59		40	33	22	466	127	
14-May-2009	66	61	6	56	35	43	59	37	82	354	129	
14-May-2009	89	31			159	2	113	38	32	296	21	3
14-May-2009	93	45			192	2	207	42	37	282	30	
14-May-2009	94	42			128		277	42		651	14	
15-May-2009	1	22			110		364	31		608	27	
15-May-2009	18	23			16		326	35	21	820	69	
15-May-2009	20	20			30	73	231	41	1	1038	79	0
15-May-2009	63	49			31		111	26		246	2	
16-May-2009	55	29		125	60		346	32	44	619		3
18-May-2009	54	45	14		34		397	27		411		
18-May-2009	58	49	42				305	14	1	492		
19-May-2009	55	49	70	42	81		114	27		801		
19-May-2009	58	60	52				141	25	9	353		
19-May-2009	59	42		1			215	36		424		
19-May-2009	60	62		18			126	32		552		
27-May-2009	79			44	335			49		795	80	
28-May-2009	37	30		53	67		192	29	0	832	173	
28-May-2009	46	25		21	80		40	28	11	153	136	
28-May-2009	57	49	22	59			104	36		423	99	
28-May-2009	58	51	2	36			136	33		437	116	
28-May-2009	59	56	59	54	68		145	39		490	96	
28-May-2009	61	56	99	22	43		265	34		412	53	
28-May-2009	64	59	1	53	65			22		709	36	
Violation in No. of Blocks	131	87	32	111	73	57	95	128	76	124	121	29
Total MWh		734.421	486.251	3132	2216	658.38	4007	700	2835	18262	3815	14.949

Monthly (May 2009) details of under generation/Overdrawl by ISGS/State Utilities under low frequency (<49.2 Hz & 49.20 <= freq <49.5 Hz) in Northern Region										
[+/-Payable/Receivable]										
	Frequency < 49.2 Hz					Frequency >=49.2 & <49.5 Hz				
Utility	UI (MWh)	UI (Rs)	UI Capped Amount(Rs)	UI Surcharge (Rs)	Net UI Amount	UI (MWh)	UI (Rs)	UI Capped Amount(Rs)	UI Surcharge (Rs)	Net UI Amount
Singrauli STPS	-327	-1334587	-1069633.35	148611.99	-116341.7	-2015.318	-8144309	-3850958.91	0	-4293350
RIHAND STPS	-178.705	-729116	-584365.35	428.69	-144322	-800.224	-3257509	-1632626.79	0	-1624882
RIHAND-II STPS	-239.472	-977045	-783073.44	10001.68	-183969.9	-1157.168	-4721247	-2312533.43	0	-2408714
DADRI TPS	-236.961	-966796	-774862.47	6096.2	-185837.3	-1238.096	-5051418	-2461026.88	0	-2590391
UNCHAHAR-I TPS	-51.204	-208912	-167437.08	87684.22	46209.3	-453.223	-1824146	-933035.43	0	-891110.6
UNCHHR ST.2 & 3	-153.363	-625722	-501497.01	12088.08	-112136.9	-673.238	-2746813	-1391011.39	0	-1355802
ANTA GPP	-574.089	-4219559	0	120939.84	-4098619	-2841.374	-17127191	0	0	-17127191
AURAIYA GPP	20.159	148166	0	521747.1	669913.1	25.026	200617	0	0	200617
DADRI GPP	-176.776	-1299301	0	265317.36	-1033984	-879.175	-5300861	0	0	-5300861
CHANDIGARH	554.725	4076672	0	2159197.74	6235869.7	2785.27	16973006	0	0	16973006
DELHI	-2842.344	-20894644	0	1429577.94	-19465066	-16520.591	-99635271	0	0	-99635271
H.P.	2816.888	20703246	0	9207180.36	29910426	12486.12	76790151	0	0	76790151
HARYANA	738.536	5425813	0	6515172.3	11940985	16628.707	97695628	0	0	97695628
J & K	-833.202	-6126251	0	1935637.2	-4190614	-10472.67	-62093022	0	0	-62093022
PUNJAB	2493.573	18323894	0	11779315.8	30103210	17982.158	106289562	0	0	1.06E+08
RAILWAYS	697.659	5127800	0	2057703.06	7185503.1	4499.248	27039790	0	0	27039790
RAJASTHAN	1343.858	9873878	0	8334535.44	18208413	10950.407	65884317	0	0	65884317
U.P.	17967.879	132054294	0	53689177.5	185743472	76632.017	472788952	0	0	4.73E+08
UTTARAKHAND	3636.561	26727637	435	11217070.2	37944707	11868.589	73970480	6.23	0	73970480
NEPAL	-157.324	-1156334	0	43950.06	-1112384	-682.405	-4092254	0	0	-4092254

COMMUNICATION FROM NRLDC**NORTHERN REGIONAL LOAD DESPATCH CENTRE
POWER GRID CORPORATION OF INDIA LIMITED**

18- A, Shaheed Jeet Singh Sansanwal Marg, Katwarla Sarai New Delhi-110016
Tel.: 26519406/26523869, FAX: 26852747/26853082, WEB: www.nrl dc.org

MESSAGE B

Reference: NRLDC/OD/Message-B/646

Date: 17-Jun-2009 Time : 0920 Hrs

FROM: SHIFT INCHARGE
NRLDCTO: SHIFT INCHARGE, SLDC
UttarakhandCC: General Manager
UttarakhandCC: Member Secretary, NRPC
: ED(NLDC) POWERGRID
: ED(SO) POWERGRID

SUB: Intimation regarding violation of Clause 5.4.2 (a) and clause 6.4.7 of the IEGC and directions under clause 5.4.2 (b) of IEGC and 29(1) of the Electricity Act 2003 for immediate action for restriction of overdrawl in order to avert threat to system security.

This has reference to earlier correspondences on the subject. In spite of sustained low frequency operations and NRLDC's requests, the overdrawl by Uttarakhand state control area has not reduced and at present the overdrawl is as follows:

Quantum of overdrawl
225 MW

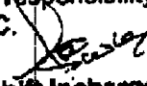
Frequency
49.12 Hz

In this regard please refer to the clauses 5.4.2 (a) and 6.4.7 of the IEGC which states that when the frequency falls below 49.20 Hz, requisite load shedding (manual) would be carried out by the concerned State(s) to curtail the overdrawl. It is therefore pointed out that continuous overdrawl at frequency below 49.20 Hz. is violation of the 5.4.2 (a) and 6.4.7 of the IEGC.

Further, it is a matter of serious concern that despite the low frequency conditions in the grid, the overdrawl by Uttarakhand state control area is continuing. You would agree that operation of grid at present level of frequency is a threat to system security and in order to ensure stability of the Grid, NRLDC is issuing directions under Clause 5.4.2(b) of IEGC and Section 29(1) of the Electricity Act 2003, to increase the generation and / or carry out manual load shedding in Uttarakhand state control area in order to restrict its drawl within schedule and also inform the details of the action taken. Please note that the non-compliance of these directions would be construed as violation of IEGC and the Electricity Act 2003 and would also be brought to the notice of the Hon'able Central Electricity Regulatory Commission (CERC)

It is also informed that under the present situation, NRLDC may be constrained to schedule power upto the entire entitlement of Uttarakhand state control area, in the different Inter-State Generating Stations (including liquid fuel), in case such a possibility exists and/or in the event of continued overdrawl by Uttarakhand state control area, NRLDC may be constrained to disconnect the feeders to Uttarakhand state control area which may result in the loss of load / network security in a particular area of Uttarakhand state system. The responsibility for the same would solely be on the the inadequate action form Uttarakhand SLDC.

Please treat this message as 'most urgent' and act immediately.


Shift Incharge
NRLDC

**NORTHERN REGIONAL LOAD DESPATCH CENTRE
POWER GRID CORPORATION OF INDIA LIMITED**
18- A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai New Delhi-110016
Tel.: 26519406/26523869, FAX: 26852747/26853082, <http://www.nrlc.org>

MESSAGE A

Reference: NRLDC/OD/Message-A/1898

Date: 20-Jun-2009 Time : 0858 Hrs

FROM: SHIFT INCHARGE
NRLDC

TO: SHIFT INCHARGE, SLDC
Uttarakhand

CC: Dy. General Manager (SO)
Uttarakhand

Sub: Low frequency Operation and Request to restrict the drawal within the schedule.

At present the system frequency is below 49.5 hz. the over drawal by Uttarakhand state control area is as follow:

Quantum of overdrawal

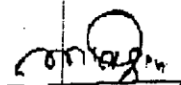
Frequency

82 MW

49.14 Hz

Your specific reference is invited to Clause 5.4.2 (a) and clause 6.4.7 of the IEGC which states that "the Constituents shall endeavour to restrict their net drawal from the Grid within their respective drawal schedules, whenever the system frequency is below 49.5 Hz. When the frequency falls below 49.20 Hz., requisite load shedding (manual) shall be carried out in the concerned State(s) to curtail the over drawal."

You are, therefore, requested to take necessary measures so that system frequency is maintained at 49.5 Hz. and above.


Shift Incharge
NRLDC

**NORTHERN REGIONAL LOAD DESPATCH CENTRE
POWER GRID CORPORATION OF INDIA LIMITED**
18- A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai New Delhi-110016
Tel.: 26519406/26523869, FAX: 26852747/26853082, <http://www.nrldc.org>

MESSAGE A

Reference: NRLDC/OD/Message-A/1894

Date: 20-Jun-2009 **Time :** 0432 Hrs

**FROM: SHIFT INCHARGE
NRLOC**

**TO: SHIFT INCHARGE, SLDC
Uttarakhand**

**CC: Dy. General Manager (SO)
Uttarakhand**

Sub: Low frequency Operation and Request to restrict the drawal within the schedule.

At present the system frequency is below 49.5 hz. the over drawal by Uttarakhand state control area is as follow:

Quantum of overdrawal

Frequency

80 MW

49.07 Hz

Your specific reference is invited to Clause 5.4.2 (a) and clause 6.4.7 of the IEGC which states that "the Constituents shall endeavour to restrict their net drawal from the Grid within their respective drawal schedules, whenever the system frequency is below 49.5 Hz. When the frequency falls below 49.20 Hz., requisite load shedding (manual) shall be carried out in the concerned State(s) to curtail the over drawal."

You are, therefore, requested to take necessary measures so that system frequency is maintained at 49.5 Hz. and above.

**Shift Incharge
NRLOC**

APPROVED SCHEDULE FOR RESTRICTION/LOAD SHEDDING
FOR PERIOD 22.06.09 TO 22.07.09

Sl. No.	Areas of Load Shedding	Time Period	Type of Restriction/ Load Shedding	Approximately relief in MW
1.	Rural area of Jwalapur, Sultanpur-Bhattipur, Roorkee, Manglore, Landhora, Bhagwanpur, Laksar, Khanpur, Narsan., Khatima, Kichha, Jaspur, Bazpur, Kela Khera, Pipalia, ND Nagar, Ghari Nagi and Sarwarkhera.	05.00 A.M. to 07.00 A.M.	Load shedding	100 MW
2.	Kashipur, Rudrapur, Haldwani Town & Roorkee Town except Haldwani Water Works	07.00 A.M. to 10.00 A.M.	Load shedding	100 MW
3.	Dehradun, Haridwar and Jwalapur town (except Hari Ki Pauri and Dehradun Water Works), Mussoorie town & Nainital town.	10.00 A.M. to 11.30 A.M.	Load shedding	95 MW
4.	All Hill areas, Kotdwar Town (except water wrks feeders & 66 KV Srinagar Joshimath Line) & Rishikesh Town	11.30 A.M. to 01.30 P.M.	Load shedding	95 MW
5.	Rural area of Jwalapur, Sultanpur Bhattipur, Roorkee, Mangalore, Landhora, Bhagwanpur, Laksar, Khanpur, Narsan., Khatima, Kichha, Jaspur, Bazpur, Kela Khera, Pipalia, ND Nagar, Ghari Nagi and Sarwarkhera.	01.00 P.M. to 04.00 P.M.	Load shedding	115 MW
6.	Laksar town, Landhora town, Jaspur town, Khatima town, Gadarpur town, Bazpur town, Kichha town, Sitarganj town, Bahadradabad town, Manglore Town, Doiwala, Dhakrani, Vikasnagar, Selaqui, Sahaspur & Ramnagar town	04.00 P.M. to 07.00 P.M.	Load shedding	80 MW
7.	All Induction Furnaces & Rolling Mills except the industrial consumers who have opted for supply during restricted hours at higher tariff	00.00 Hrs. to 01.00 A.M. 07.00 P.M. to 12.00 P.M.	Restriction in usage upto 15% of Contracted Load	60 MW
8.	All 132 KV, 33 KV and 11 KV Industrial & Independent feeders emanating from Primary & Secondary Sub-stations including SIDCUL Hardwar, SIDCUL Pantnagar except the industrial consumers who have opted for supply during restricted hours at higher tariff	07.00 P.M. to 11.00 P.M.	Restriction in usage upto 15% of Contracted Load	60 MW

6. Continuous and Non-continuous Supply

- (i) Consumers opting for continuous supply shall be exempted from load shedding during scheduled/unscheduled power cuts and during restricted hours of the period of restriction in usage approved by the Commission from time to time, except load shedding required due to emergency breakdown/shutdown. – For such consumers 20% increase in the Energy charge as given in Rate of Charge shall be applicable throughout the year. Demand charge and other charges remain same as per rate of charge given above. Industries who have already opted for continuous power will continue to pay 20% higher tariff as mentioned above.
- (ii) Consumers not opting for continuous supply (Non-continuous supply) shall not be allowed to use power in excess of 15% of their contracted demand during restricted hours of the period of restriction in usage approved by the Commission from time to time. For such consumers Energy charge, Demand charge and other charges as per rate of charge given above shall be applicable. However, any violation detected in usage of power during restricted hours (above 15% of contracted load) shall attract a penalty, continuous supply surcharge and other terms as specified below:
 - a) There shall be graded penalty for violation of load during restricted hours of each day beyond a limit of 15% of Contracted Demand (rounded off to next higher integer) based on the following two factors:
 - Quantum of load used beyond of 15% in each time slot (30 minutes duration) of restricted hours
 - No. of time slots during which violation occurred in restricted hours

- b) For each time slot of restricted hours penalty shall be zero for load upto 15% and shall be proportional to load beyond this limit.
- c) Rate of penalty for each time slot (Rs./kVA or kW of Contracted Load/slot) shall be proportionate to the percentage of usage and shall be equal to Rs. 0.10 for each percent. Rate of penalty for each time slot may vary from Rs 1.6 (for 16% usage) to Rs. 10 (for usage 100%) per kVA or kW of Contracted Load.

Illustration: Calculation of penalty for one day

Industry	Contracted Load (kVA)	Usage (%)	Rate of Penalty (Rs./kVA/slot) (0.10 x %Usage)	No. of time slot where usage is more than 15% (TS)	Penalty for each time slot (TS x Rate x Contracted Load)	Total Penalty
A	100	16% 20% 60%	1.60 2.00 6.00	1 3 1	1x1.60x100=160 3x2.00x100=600 1x6.00x100=600	1360
B	3000	25%	2.50	1	1x2.50x3000=7500	7500
C	1000	52%	5.20	10	10x5.20x1000=52000	52000
D	2000	100%	10.00	8	8x10.00x2000=160000	160000

Caution: Industrial consumers are cautioned that even under this moderated graded penalty, consumption of power beyond 15% would be prohibitively expensive and, hence, they are advised to restrict their consumption during the period of restriction within the said limit.

- d) The continuous supply charge of 20% on energy charges shall be in proportion to the number of days of violation in the month.

Illustration: Energy Charges for the month = Rs. 340000

No. of days of violation = 17

Continuous Supply Surcharge for 17 days = $0.2 \times 340000 \times 17 / 31$
= Rs. 37290.32

- e) Minimum Consumption Guarantee (MCG) Charge shall not be applicable for months during which the Commission approves

UPCL's proposal for restriction in usage by industry. This shall also apply to industries on those mixed feeders, which subjected to scheduled load shedding.

- f) Bill for Penalty shall be verified and signed by an officer of UPCL not below rank of General Manager.
 - g) Licensee shall also provide complete MRI load survey report along with the penalty bill.
 - h) The 15% ceiling on usage during restriction period and corresponding penalty mechanism as outlined above shall not be applicable for industrial consumers on those mixed feeders, which are subjected to rostering during other hours of the day.
- (iii) Industries who opt for continuous power after implementation of this order shall be levied above mentioned 20% higher tariff from 1st April 2008 or from the date of connection whichever is later. Consumers shall be allowed to change the option only once in the year subject to the condition that 20% higher charge shall be applicable for entire financial year irrespective of actual period of continuous supply."