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NORTHERN REGION GRID REPORT FOR THE MONTH OF AUGUST 2003

A) Summary Report

1. Grid Overview during the Month

During the month of August 2003 the average system frequency was 49.89 Hz and frequency remained in the normal range i.e. between 49.0 & 50.5 Hz for 91.35% of the time compared to 78.61% during the last year i.e. August 2002. The average frequency variation index during the month was 1.93. However, large gap between maximum and minimum frequencies and fluctuation in frequency from low to high and vice-versa reminds the need of implementation of free governor operation on all generating units in the region at the earliest.

Overall voltage profile in the grid during the month has been better on most of the 400 kV buses compared to last year. For example, the minimum voltages at 400 kV Dadri and 220 kV BTPS were 377 kV and 187 kV compared to last year i.e. 356 kV and 180 kV respectively. There was no major transmission outage during August 2003.

During August 2003 there was no major grid incident. However there were some minor incident which are reported at annexure-6

2. Commissioning of New Units/Lines/Transformers During the Month :

-----NIL-----

3. Frequency Profile :

Maximum frequency	51.31	Hz	at	08.04	hours on	04.08.2003
Minimum frequency	48.31	Hz	at	19.06	hours on	30.08.2003
Average frequency	49.89	Hz				

Frequency distribution in %

Hz	< 48.5	<49.0	49.0-50.5	> 50.5
% of time	0.03	1.99	91.35	6.66

Frequency Variation Index

Monthly Average	1.93
Maximum	4.92
Minimum	0.90

4. Power Supply Position :

a. Average Energy/day (Net)

State / U.T.	Demand met MU/Day	Requirement MU/Day	Shortage MU/Day	Shortage %
Punjab	110.47	114.81	4.34	3.78
Haryana	61.03	62.28	1.25	2.01
Rajasthan	60.13	60.13	0.00	0.00
U.P.	104.12	128.88	24.76	19.21
Uttranchal	11.34	11.50	0.16	1.39
Delhi	61.40	62.30	0.90	1.44
H.P.	9.50	9.50	0.00	0.00
J & K *	17.44	18.94	1.50	7.92
Chandigarh	3.46	3.46	0.00	0.00
N.F.F./Rail	1.46	1.46	0.00	0.00
Total	440.35	473.26	32.91	6.95

b. Peak MW

State / U.T.	MAX. Demand met MW	MAX. Requirement MW	Shortage MW	Shortage %
	A	B	C	(C/B)*100
Punjab	5449	5674	225	3.97
Haryana	3268	3368	100	2.97
Rajasthan	3179	3179	0	0.00
U.P.	5429	6672	1243	18.63
Uttranchal	688	728	40	5.49
Delhi	3098	3172	74	2.33
H.P.	553	553	0	0.00
J & K *	1058	1116	58	5.20
Chandigarh	194	194	0	0.00
N.F.F./Rail	70	70	0	0.00
Region	21707	23373	1666	7.13
Diversity Factor = 1.11				

* Approximate and Estimated

5. **Schedule Vs Drawal By the Constituents :**

(All figs in M.U)

State / U.T.	Schedule	Actual Drawal	OD/UD
Punjab	1519.21	1585.63	66.42
Haryana	1020.33	1150.73	130.40
Rajasthan	896.23	776.69	-119.54
U.P.	1340.37	1632.04	291.67
Uttranchal	41.51	-3.06	-44.57
Delhi	1260.98	1085.15	-175.83
H.P.	-63.37	-131.28	-67.91
J & K	395.16	431.81	36.65
Chandigarh	124.44	117.10	-7.34
N.F.F./Rail	55.11	50.05	-5.06

6. **Inter Regional Exchanges**Energy
M.U.Peak
MW**Import**

a)	From WR over HVDC Vindhyachal B/B	58.13	500
b)	From WR to over 220 kV Ujjain-Kota	0	0
c)	From ER over HVDC Sasaram B/B	181.17	500
d)	From ER over 220 kV Dehri-Sahupuri	0	0

Export

d)	To WR over HVDC Vindhyachal B/B	3.74	250
e)	To WR (MP) over 220 kV Auraiya-Malanpur	15.02	26
f)	To ER (Bihar) over 220 kV/132kV lines	9.36	100
g)	To Nepal over 132 kV Tanakpur-Mahendernagar	3.99	8
h)	To ER over HVDC Sasaram B/B	0	0

B). Detailed Report

I. Details of Installed/Effective Capacity at the end of August 2003

	<u>STATION</u>	<u>INSTALLED CAPACITY</u>	<u>EFFECTIVE CAPACITY</u>
		(MW)	
A	NTPC		
(a)	Badarpur TPS	3x100+2x210 720.00	3x95+2x210 705.00
(b)	Singrauli STPS	5x200+2x500 2000.00	5x200+2x500 2000.00
(c)	Rihand STPS	2x500 1000.00	2x500 1000.00
(d)	Dadri NCTPS	4x210 840.00	4x210 840.00
(e)	Unchahar TPS	2x210 + 2x210 840.00	2x210 + 2x210 840.00
(f)	Tanda TPS	4x110 440.00	4x110 440.00
(g)	Anta GPS	3x88.71+1x153.20 419.33	3x88.71+1x153.20 419.33
(h)	Auraiya GPS	4x111.19+2x109.30 663.36	4x111.19+2x109.30 663.36
(i)	Dadri GPS	4x130.19+2x154.51 829.78	4x130.19+2x154.51 829.78
(j)	Faridabad GPS	2x137.75 +1x156.07 431.57	2x137.75 +1x156.07 431.57
	Sub-Total	8184.04	8169.04
B	NHPC		
(a)	Bairasiul	3x60 180.00	3x60 180.00
(b)	Salal Stage - I	3x115 345.00	3x115 345.00
(c)	Salal Stage - II	3x115 345.00	3x115 345.00
(d)	Tanakpur HPS	3x40 120.00	3x31.4 94.20
(e)	Chamera HPS	3x180 540.00	3x180 540.00
(f)	URI	4x120 480.00	4x120 480.00
	Sub-Total	2010.00	1984.20
C.	NPC		
(a)	RAPS -A	2x220 440.00	1x100+1x200 300.00
(b)	RAPS -B	2x220 440.00	2x220 440.00
(c)	NAPS	2x235 470.00	2x220 440.00
	Sub-Total	1350.00	1180.00
Total Central Sector (A + B + C)		11544.04	11333.24
2	BBMB		
(a)	Bhakra Complex		
(i)	Bhakra (L)	5x108 540.00	5x108 540.00
(ii)	Bhakra (R)	5x157 785.00	5x157 785.00
(iii)	Ganguwal	1x29.25+1x27.63+1x26.7 83.58	1x29.25+1x27.63+1x26.7 83.58
(iv)	Kotla	1x29.25+1x24.2+1x28.12 81.57	1x29.25+1x24.2+1x28.12 81.57
	Sub-Total	1490.15	1490.15
(b)	Dehar	6x165 990.00	6x165 990.00
(c)	Pong	1x60 + 5x66 390.00	1x60 + 5x66 390.00
	Total BBMB	2870.15	2870.15

3	CHANDIGARH				
(a)	Diesel Gen Sets		2.00		1.40
4	DELHI				
	THERMAL				
(a)	Indra Prastha	3x62.5+1x60	247.50	3x62.5+1x60	247.50
(b)	Rajghat	1x15+2x67.5	150.00	1x14+2x67.5	149.00
(c)	Gas Turbines	6x30+3x34	282.00	6x30+3x34	282.00
(d)	Pragati Gas Turbines	2x108+1x114	330.00	2x108 +1x114	330.00
	Total DELHI		1009.50		1008.50
5	HARYANA				
	HYDRO				
(a)	Western Yamuna Canal (WYC)	6x8	48.00	6x8	48.00
	Total Hydro		48.00		48.00
	THERMAL				
(b)	Faridabad (New)	3x60	180.00	3x55	165.00
(c)	Panipat	4x110+2x210	860.00	4x110+2x210	860.00
	Total Thermal		1040.00		1025.00
(d)	Magnum Diesel (IPP)	4x6.3	25.20	4x6.3	25.20
	Total Haryana		1113.20		1098.20
6	HIMACHAL PRADESH				
	HYDRO				
(a)	Giri	2x30.00	60.00	2x30.00	60.00
(b)	Bassi	4x15.00	60.00	4x15.00	60.00
(c)	Binwa	2x 3.00	6.00	2x 3.00	6.00
(d)	Rongtong	4x 0.50	2.00	4x 0.50	2.00
(e)	Andhra	3x 5.65	16.95	3x 5.65	16.95
(f)	Micro Hydel+Killar+Thirot		8.75		8.75
(g)	Nogli	2x 0.25+4x0.50	2.50	2x 0.25+4x0.50	2.50
(h)	Bhabha (H)	3x40.00	120.00	3x40.00	120.00
(i)	Baner (H)	3x 4.00	12.00	3x 4.00	12.00
(j)	Gaj (H)	3x 3.50	10.50	3x 3.50	10.50
(k)	Sal -2	1x 2	2.00	1x 2	2.00
(l)	Gumma	.	3.00	3	3.00
(m)	Ghanvi	2x11.25	22.50	2x11.25	22.50
(n)	Diesel Gen. Sets		0.00		0.00
(o)	Malana (IPP)	2x43	86.00	2x43	86.00
(p)	Baspa (IPP)	3x100	300.00	3x100	300.00
	Total HP		712.20		712.20
7	J & K				
	HYDRO				
(a)	Lower Jhelum	3x35.0	105.00	3x35.0	105.00
(b)	Upper Sindh	2x11.30+3x35.0	127.60	2x11.30+3x35.0	127.60
(c)	Ganderbal	2x3+2x4.5	15.00	2x3+2x4.5	15.00
(d)	Mohra	2x4.5	9.00	2x4.5	9.00
(e)	Chenani	5x4.66 +2X1.0 +3x2.5	32.80	5x4.66 +2X1.0+3x2.5	32.80
(f)	Stakna	2x2.0 +3x1.25 +2.0	9.75	2x2.0 +3x1.25 +2.0	9.75
(g)	Small Hydel		3.54		3.54
(h)	Sewa	3x3.0	9.00	3x3.0	9.00
	Total Hydro		311.69		311.69

J & K (Contd.)				
(h)	GAS TURBINES			
	Pampore GT St - I	3x25.0	75.00	3x25.0
	Pampore GT St - II	4x25.0	100.00	4x25.0
9h)	Total Gas		175.00	175.00
(I)	Diesel Gen. Sets		8.94	7.18
	Total J & K		495.63	493.87
8	PUNJAB			
(a)	HYDRO			
	Jogindernagar/ Shanan	4x15+1x50	110.00	4x15+1x50
(b)	Upper Behari Doab Canal (UBDC)	3x15+3x15	90.00	3x15+3x15
(c)	Mukerian	6x15+6x19.5	207.00	6x15+6x19.5
(d)	Anandpur Sahib (APS)	4x33.5	134.00	4x33.5
(e)	Ranjit Sagar HPS	4x150	600.00	4x150
(f)	Small Hydel		4.10	4.10
	Total Hydro		1145.10	1145.10
(g)	THERMAL			
	Guru Nanak Dev TPS (Bhatinda)	4x110	440.00	4x110
(h)	Guru Gobind Singh TPS (Ropar)	6x210	1260.00	6x210
(i)	Lehra Mohabbat TPS	2x210	420.00	2x210
(j)	Jhalkeri Rice Straw Fired	1x10	10.00	1x10
	Total Thermal		2130.00	2130.00
	Total Punjab		3275.10	3275.10
9	RAJASTHAN			
(a)	HYDRO			
	Mahi Bajaj Sagar	2x25+2x45	140.00	2x25+2x45
(b)	Rana Pratap Sagar (RPS)	4x43	172.00	4x43
(c)	Jawahar Sagar (JS)	3x33	99.00	3x33
(d)	Anoopgarh	6x1.5	9.00	6x1.5
(e)	Small Hydro		14.85	14.85
	Total Hydro		434.85	434.85
(f)	THERMAL			
	Kota TPS	2x110+3x210 +1x195	1045.00	2x110+3x210 +1x195
(g)	Suratgarh TPS	5x250	1250.00	5x250
(g)	Ramgarh GT	1x3	3.00	1x3
(i)	Ramgarh GT EXT.	1x35.5	35.50	1x35.5
	Total Thermal		2333.50	2333.50
(J)	Wind farm		14.01	14.01
	Total Rajasthan		2782.36	2782.36

10	UP				
	HYDRO				
(a)	Rihand	6x50.0	300.00	6x50.0	300.00
(b)	Obra	3x33.0	99.00	3x33.0	99.00
(c)	Matatilla	3x10.0	30.00	3x10.0	30.00
(d)	Ganga Canal				
	Bhola	4x.375+2x.6+		4x.375+2x.6+	
	Salara	2x1.5+		2x1.5+	
	Nirgazni	2x2.5	10.70	2x2.5	10.70
(e)	Khara	3x24.0	72.00	3x24.0	72.00
(f)	Sobla & small hydro	6 +12.2	18.20	6 +12.2	18.20
	Total Hydro		529.90		529.90
	THERMAL				
(g)	Obra	5x50	250.00	4x40	160.00
(h)	Obra Extn. - I	3x100	300.00	3x94	282.00
(i)	Obra Extn. - II	5x200	1000.00	5x200	1000.00
(j)	Panki	1x32	32.00	1x32	32.00
(k)	Panki Extn.	2x110	220.00	2x105	210.00
(l)	Harduaganj - A	3x30	90.00	0	0.00
(m)	Harduaganj - B	2x50+2x60	220.00	1x40+2x55	150.00
(n)	Harduaganj - C	2x60+1x110	230.00	2x60+1x105	225.00
(o)	Paricha	2x110	220.00	2x110	220.00
(p)	Anpara - A	3x210	630.00	3x210	630.00
(q)	Anpara - B	2x500	1000.00	2x500	1000.00
	Total Thermal		4192.00		3909.00
	Total UP		4721.90		4438.90
11	UTTRANCHAL				
	HYDRO				
(a)	Khatima	3x13.8	41.40	3x13.8	41.40
(b)	Ramganga	3x66.0	198.00	3x66.0	198.00
(c)	Ganga Canal				
	Chitwa	2x1.5+		2x1.5+	
	Mohamedpur	3x3.1+		3x3.1+	
	Pathri	3x6.8	32.70	3x6.8	32.70
(d)	Yamuna (I & IV)				
	- Dhalipur	3x17.00+		3x17.00+	
	- Dhakrani	3x11.25+		3x11.25+	
	- Kulhal	3x10.00	114.75	3x10.00	114.75
(e)	Chibro	4x60.0	240.00	4x60.0	240.00
(f)	Khodri	4x30.0	120.00	4x30.0	120.00
(g)	Chilla	4x36.0	144.00	4x36.0	144.00
(h)	Maneri Bhali	3x30.0	90.00	3x30.0	90.00
	Total Hydro		980.85		980.85
	Total Region (1 to 11)		29506.93		28994.77

SUMMARY OF THE EFFECTIVE GENERATING CAPACITY (MW)

Agency / Source	Hydro	Thermal	Gas/Diesel/Wind	Nuclear	Total	% of Total
NTPC	0.00	5825.00	2344.04	0.00	8169.04	28.17%
NHPC	1984.20	0.00	0.00	0.00	1984.20	6.84%
NPC	0.00	0.00	0.00	1180.00	1180.00	4.07%
BBMB	2870.15	0.00	0.00	0.00	2870.15	9.90%
CHANDIGARH	0.00	0.00	1.40	0.00	1.40	0.00%
DELHI	0.00	396.50	612.00	0.00	1008.50	3.48%
HARYANA	48.00	1025.00	25.20	0.00	1098.20	3.79%
HIMACHAL	712.20	0.00	0.00	0.00	712.20	2.46%
J&K	311.69	0.00	182.18	0.00	493.87	1.70%
PUNJAB	1145.10	2130.00	0.00	0.00	3275.10	11.30%
RAJASTHAN	434.85	2295.00	52.51	0.00	2782.36	9.60%
UP	529.90	3909.00	0.00	0.00	4438.90	15.31%
UTTRANCHAL	980.85	0.00	0.00	0.00	980.85	3.38%
Total	9016.94	15580.50	3217.33	1180.00	28994.77	100.00%
% of TOTAL	31.10%	53.74%	11.10%	4.07%	100.00%	

Notes The above table does not take into account the shares of a state in power stations located in the neighbouring state. Such details are :

- (i) Haryana has one-third share in unit Nos. 2, 3, 4 at Indraprastha power stations of Delhi viz. 62.5 MW.
- (ii) HP has 25 % share in the Dhalipur, Dhakrani, Chibro and Khodri power houses of Uttranchal viz. 111.20 MW and 20 % share in the Kulhal and Khara hydro power houses viz. 20.40 MW. However, these shares are limited to actual physical drawals over designated transmission lines.
- (iii) HP has a fixed energy share (royalty) every month in the Shanan Power House of PSEB.
0.38 LU/Day to 2.22 LU/Day.
- (iv) HP has 4.6 % share in Ranjit Sagar Dam project of PSEB viz. 27.60 MW.
- (iv) The shares of Rajasthan in Chambal and Satpura projects are as under :

CHAMBAL

PROJECT	LOCATED	INSTALLED CAPACITY (MW)
Gandhi Sagar	M.P.	5 x 23 = 115
Rana Pratap Sagar	Rajasthan	4 x 43 = 172
Jawahar Sagar	Rajasthan	3 x 33 = 99
Total		386

Rajasthan has 50 % share in the Chambal Projects viz. 193 MW.

SATPURA

PROJECTS	LOCATED	INSTALLED CAPACITY (MW)
Satpura TPS	M.P.	5x62.5+200.0+3x210.0 = 1142.50

Rajasthan has 40 % share in the first five units of Satpura TPS viz 125 MW.

II. BREAKUP OF HYDRO CAPACITY (MW) IN NORTHERN REGION AS ON 31.08.2003

Agency / Source	Run-of -the -river	Reservoir	Total
NHPC	1444.20	540.00	1984.20
BBMB	1155.15	1715.00	2870.15
DELHI	0.00	0.00	0.00
HARYANA	48.00	0.00	48.00
HP *	712.20	0.00	712.20
J&K	311.69	0.00	311.69
PUNJAB	545.10	600.00	1145.10
RAJASTHAN	262.85	172.00	434.85
UP	229.90	300.00	529.90
UTTRANCHAL	782.85	198.00	980.85
TOTAL	5491.94	3525.00	9016.94
PERCENTAGE	59.60%	40.40%	100%

* Includes Malana IPP (86 MW) & Baspa IPP (300 MW)

III.

Frequency Profile

Date	% of Time Frequency								
	< 48.00	< 48.50	< 49.00	<49.50	49.0-50.5	> 50.00	> 50.50	> 51.00	>51.50
01	0.00	0.00	0.00	3.26	87.51	61.16	14.02	1.01	0.00
02	0.00	0.00	0.31	5.04	93.19	58.81	6.98	0.59	0.00
03	0.00	0.00	0.42	4.48	77.88	78.85	21.70	0.80	0.00
04	0.00	0.00	0.83	8.33	97.92	37.50	1.25	0.42	0.00
05	0.00	0.00	0.83	13.92	97.92	38.82	1.70	0.42	0.00
06	0.00	0.00	4.87	39.55	93.85	21.79	1.41	0.21	0.00
07	0.00	0.00	4.62	27.85	94.27	19.85	1.31	0.00	0.00
08	0.00	0.00	6.98	51.80	93.12	2.50	0.00	0.00	0.00
09	0.00	0.03	0.62	10.55	95.73	42.21	3.99	0.00	0.00
10	0.00	0.00	0.00	0.38	80.42	80.10	19.78	0.03	0.00
11	0.00	0.00	0.00	3.78	93.96	57.88	6.04	0.38	0.00
12	0.00	0.00	0.28	3.27	67.85	80.53	31.88	0.87	0.00
13	0.00	0.00	0.00	2.47	88.78	63.85	11.22	0.00	0.00
14	0.00	0.00	0.00	4.18	91.35	60.18	8.65	0.84	0.00
15	0.00	0.00	0.00	3.30	90.55	60.72	9.45	0.21	0.00
16	0.00	0.00	0.24	5.52	94.00	48.66	5.76	0.00	0.00
17	0.00	0.00	0.66	9.31	97.12	45.66	2.22	0.00	0.00
18	0.00	0.00	1.08	14.76	97.88	30.16	1.04	0.00	0.00
19	0.00	0.21	3.16	41.42	96.46	7.71	0.38	0.00	0.00
20	0.00	0.00	6.67	49.67	92.22	6.91	1.11	0.00	0.00
21	0.00	0.28	8.33	60.32	91.87	3.67	0.00	0.00	0.00
22	0.00	0.10	8.61	72.64	91.39	3.36	0.00	0.00	0.00
23	0.00	0.14	7.85	71.39	92.21	3.99	0.00	0.00	0.00
24	0.00	0.00	0.94	12.74	86.53	39.34	12.53	1.88	0.00
25	0.00	0.00	0.87	9.84	90.90	52.49	9.32	1.11	0.00
26	0.00	0.00	0.17	14.72	96.84	33.51	3.33	0.00	0.00
27	0.00	0.00	0.00	4.38	91.98	57.43	8.02	0.56	0.00
28	0.00	0.00	2.60	28.02	96.63	16.53	0.76	0.00	0.00
29	0.00	0.00	0.00	7.74	96.60	39.76	3.40	0.00	0.00
30	0.00	0.21	0.69	7.60	93.89	56.82	5.41	0.00	0.00
31	0.00	0.00	0.00	0.00	86.28	78.84	13.72	0.49	0.00
Max	0.00	0.28	8.61	72.64	97.92	80.53	31.88	1.88	0.00
Min	0.00	0.00	0.00	0.00	67.85	2.50	0.00	0.00	0.00
Average	0.00	0.03	1.99	19.10	91.35	41.60	6.66	0.32	0.00

Frequency (Hz)				Average Frequency	Frequency Variation Index
Maximum		Minimum			
Freq	Time	Freq	Time		
51.15	18.14	49.03	19.45	50.10	1.28
51.18	8.07	48.58	11.36	50.05	1.08
51.18	08.04	48.85	00.08	50.23	1.85
51.31	08.04	48.76	19.15	49.91	0.99
50.96	08.03	48.67	20.09	49.89	1.27
51.13	08.09	48.56	20.59	49.64	2.93
50.78	18.31	48.56	23.50	49.73	2.08
50.30	17.35	48.56	05.34	49.48	3.62
50.98	18.07	48.46	11.34	49.91	1.21
51.01	18.05	49.46	21.21	50.26	1.48
51.23	8.09	49.28	19.41	50.05	0.90
51.17	08.12	48.90	23.37	50.30	2.28
50.89	18.00	49.17	21.16	50.12	1.16
51.13	10.41	49.13	23.33	50.07	1.10
51.03	15.12	49.04	0.04	50.10	1.00
50.89	06.01	48.95	23.08	49.99	0.99
50.71	18.03	48.92	23.11	49.90	1.01
50.82	8.07	48.71	23.36	49.82	1.38
50.62	08.10	48.43	19.25	49.57	2.80
50.94	08.03	48.66	12.31	49.50	3.78
50.45	08.02	48.38	11.35	49.42	4.43
50.49	08.11	48.44	23.01	49.36	4.87
50.36	08.10	48.32	19.26	49.37	4.92
51.16	17.06	48.59	00.08	49.95	2.13
51.28	8.07	48.62	19.13	50.00	1.51
50.98	8.07	48.98	1.09	49.86	1.25
51.25	08.08	49.25	21.25	50.07	1.06
50.79	08.08	48.71	19.00	49.69	2.18
50.86	18.04	49.20	10.01	49.95	0.94
50.88	13.18	48.31	19.06	50.01	1.05
51.08	18.05	49.58	21.21	50.24	1.24
51.31		49.58		50.30	4.92
50.30		48.31		49.36	0.90
50.94		48.81		49.89	1.93

IV.

Voltage Profile

Date	400 KV Dadri Voltage (kV)				400 KV Kanpur Voltage (kV)				220 KV BTPS Voltage (kV)				400 KV Moga Voltage (kV)			
	Maximum		Minimum		Maximum		Minimum		Maximum		Minimum		Maximum		Minimum	
	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time
01	416	06.05	386	11.36	411	06.05	393	20.06	209	06.11	194	11.32	408	06.03	390	11.36
02	419	08.05	389	11.35	416	08.05	390	11.36	211	04.25	197	11.35	411	08.07	392	12.48
03	418	04.10	390	19.49	411	04.04	392	19.49	214	04.08	198	19.51	410	08.11	393	19.58
04	414	04.09	388	19.49	414	08.03	392	12.44	211	04.02	194	19.45	409	08.03	394	12.23
05	412	08.07	388	19.42	410	08.07	390	19.35	208	04.15	194	14.55	409	08.01	391	11.53
06	409	06.05	386	11.43	406	06.07	389	13.57	207	04.58	190	14.18	405	06.05	385	11.48
07	405	05.20	385	12.48	404	06.46	389	15.29	207	05.20	193	14.39	405	05.25	389	19.40
08	404	23.24	379	12.04	405	08.01	387	11.59	205	04.05	191	10.32	404	08.01	386	09.53
09	415	04.12	384	14.44	410	18.01	388	14.44	210	04.15	193	14.43	407	17.52	389	11.33
10	414	04.04	389	21.28	411	06.02	392	22.25	210	04.09	197	22.24	409	06.00	390	12.37
11	412	08.06	383	14.51	409	08.06	392	00.14	207	04.02	192	14.57	405	06.00	387	14.23
12	415	04.03	390	23.16	411	07.00	390	12.39	209	03.06	197	14.36	406	03.15	388	23.15
13	414	08.06	387	11.23	413	08.09	392	11.23	207	03.07	193	12.14	407	08.01	392	00.00
14	413	08.07	386	11.35	411	08.08	392	12.27	202	18.01	196	19.45	407	08.03	389	11.32
15	415	15.06	397	0.04	409	15.01	392	13.50	211	15.12	200	21.28	406	15.06	386	11.39
16	415	06.00	387	12.25	412	06.00	388	12.29	209	01.45	193	12.25	404	06.01	388	12.29
17	409	06.04	387	20.03	399	18.32	388	20.03	207	06.02	193	20.04	404	17.33	388	07.42
18	408	08.03	387	11.52	400	09.27	390	00.10	205	05.04	190	14.52	404	08.06	387	11.46
19	410	08.04	388	19.25	409	08.04	390	19.25	204	08.02	192	19.25	406	08.08	387	19.23
20	413	19.01	388	11.34	405	17.31	391	11.37	203	05.09	191	19.35	406	17.28	389	11.35
21	407	05.58	387	11.34	404	16.17	391	12.07	201	23.44	187	09.51	405	08.06	390	00.08
22	409	08.07	387	23.02	411	08.17	390	19.14	205	04.59	188	17.01	405	08.08	389	19.18
23	404	08.08	386	00.09	405	07.20	389	00.13	205	08.03	194	14.20	406	05.40	390	00.08
24	413	08.26	387	19.58	412	08.26	390	19.13	210	08.13	197	19.46	408	17.33	389	20.43
25	417	08.07	377	11.40	414	08.09	387	12.46	212	08.05	191	11.41	409	08.09	385	11.37
26	412	07.50	382	10.40	408	08.09	389	00.16	209	07.47	190	14.55	406	08.05	386	12.14
27	414	08.05	381	14.57	409	08.08	388	12.31	207	08.08	189	14.51	410	08.06	384	12.16
28	417	08.06	378	14.29	416	08.05	384	14.22	206	07.49	187	14.22	407	08.05	389	00.08
29	408	07.25	381	10.55	405	18.09	387	00.22	207	07.23	189	10.51	406	07.40	388	09.56
30	415	08.04	384	15.53	412	08.04	392	11.33	207	04.10	188	15.52	411	08.04	386	15.56
31	417	06.02	395	19.26	412	05.39	395	15.39	207	04.10	188	15.52	409	08.04	397	11.48
Max	419		397		416		395		214		200		411		397	
Min	404		377		399		384		201		187		404		384	

V. Regional Power Supply Position

(All Figs In MUs)

Date	Availability	Peak Hrs.	Shortage/	Availability	Off Peak Hrs.	Shortage/	Regional
	(Gross) MW	Requirement MW	Restriction MW	(Gross) MW	Requirement MW	Restriction* MW	
01	20259	21156	897	18831	19143	312	435
02	20044	20954	910	18741	19021	280	427
03	19815	21245	1430	18617	19202	585	417
04	20148	21535	1387	18098	18683	585	426
05	20253	21370	1117	18804	19089	285	437
06	20526	21913	1387	19535	20735	1200	445
07	21114	22567	1453	20156	21338	1182	458
08	20848	22321	1473	20392	21972	1580	455
09	21181	22248	1067	20665	22065	1400	453
10	21291	22544	1253	19574	20141	567	446
11	21159	22069	910	20200	20587	387	448
12	20845	21919	1074	19958	20655	697	448
13	20877	21829	952	19911	20298	387	446
14	21097	22140	1043	19840	20030	190	451
15	20431	21152	721	19677	19971	294	441
16	20691	21392	701	19158	19516	358	441
17	20944	21739	795	19800	20085	285	448
18	20959	22198	1239	20200	20585	385	455
19	20874	21911	1037	19949	20384	435	445
20	20697	21707	1010	19721	20648	927	445
21	20598	22089	1491	19722	20644	922	444
22	21196	22783	1587	19953	20762	809	451
23	20862	22827	1965	20736	21830	1094	461
24	21263	22821	1160	20419	21579	1160	458
25	21234	22304	1070	20883	21273	390	461
26	21519	23273	1754	20574	21474	900	464
27	21707	23097	1476	21198	21388	190	469
28	21262	23373	2111	21042	21443	401	459
29	21309	22607	1298	20970	21558	588	466
30	21219	22556	1337	20687	20877	190	448
31	21162	22258	1096	20092	20625	533	452
Maximum	21707	23373	2111	21198	22065	1580	469
Minimum	19815	20954	701	18098	18683	190	417
Average	20883	22126	1232	19939	20568	629	448

Note: * Shortage / Restriction figures are as given by the constituents.

VI. Daily Peak/Off-Peak Demand Met By Constituents (Sheet 1 of 2)

State	Punjab		Haryana		Rajasthan		Delhi		Uttar Pradesh	
Date	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak
01	4266	4769	2639	2602	2874	2267	2773	2217	3997	4995
02	4398	4565	2523	2549	2755	2225	2803	2107	4550	5037
03	4440	4667	2448	2343	2678	2453	2546	2082	4559	4949
04	4174	4449	2619	2362	2836	2365	2830	1964	4296	4895
05	4406	4578	2621	2502	2884	2297	2981	2186	4414	5007
06	4439	4849	2690	2601	2871	2407	2934	2397	4119	5053
07	4666	5131	2689	2844	3018	2485	3000	2414	4288	5159
08	4643	4958	2618	2773	2934	2480	2984	2580	4294	5087
09	4584	5122	2596	2687	2781	2497	2907	2510	4152	5043
10	5041	4869	2586	2507	2656	2243	2851	2387	4655	5057
11	5100	4962	2863	2727	2804	2360	2972	2395	4372	5306
12	4620	5130	2649	2688	2691	2308	2730	2410	4627	5086
13	4664	5143	2681	2775	2892	2317	2840	2415	4352	4822
14	4508	5148	2752	2774	2949	2439	2822	2300	4556	2840
15	4565	5170	2639	2789	2876	2261	2297	2293	4473	4736
16	4507	4988	2594	2622	2959	2442	2679	1739	4586	4910
17	4619	5259	2728	2636	2964	2450	2793	2170	4421	4834
18	4733	5320	2807	2870	3097	2499	2935	2386	4574	5106
19	4777	5183	2482	2911	2965	2663	2871	2374	4326	4457
20	4644	5253	2385	2691	2982	2731	2763	2421	4442	4439
21	4378	4953	2458	2648	3171	2676	2996	2398	4141	4567
22	4674	4842	2646	2845	3162	2832	3017	2378	4200	4856
23	4554	5282	2647	2883	3022	2851	2823	2529	4435	4785
24	4621	5169	2849	2888	2880	2910	2922	2508	4468	4482
25	4806	5332	2854	2911	2909	2534	2886	2409	4356	5280
26	4866	5300	2810	3048	2904	2407	3045	2461	4550	4499
27	4900	5293	3108	3144	2762	2492	3037	2477	4684	5429
28	4599	5180	2773	3156	3012	2348	3096	2556	4376	4709
29	4471	4892	3013	3147	2995	2446	3073	2580	4379	5305
30	4669	4968	2562	3131	2873	2397	3098	2488	4453	5223
31	4878	4665	2828	2855	2697	2233	2909	2468	4416	5205
Maximum	5100	5332	3108	3156	3171	2910	3098	2580	4684	5429
Minimum	4174	4449	2385	2343	2656	2225	2297	1739	3997	2840
Average	4620	5013	2682	2771	2898	2462	2878	2355	4404	4876

VI. Daily Peak/Off-Peak demand Met By Constituents (Sheet 2 of 2)

State	Uttaranchal		Chandigarh		Himachal Pradesh		Jammu & Kashmir	
Date	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak
01	596	381	163	105	449	356	886	377
02	616	432	153	111	483	357	946	525
03	593	483	140	113	467	361	888	818
04	613	441	161	110	485	339	842	383
05	598	441	177	111	479	362	903	511
06	571	403	174	130	481	357	910	598
07	608	399	182	135	478	383	892	619
08	576	471	184	136	497	376	919	625
09	648	510	164	140	476	375	853	610
10	613	480	146	110	591	372	932	554
11	688	474	177	100	484	367	960	582
12	600	463	156	95	459	357	936	560
13	610	458	173	110	487	372	894	674
14	637	443	170	137	486	379	986	566
15	596	427	152	126	430	368	935	620
16	631	429	174	117	495	348	905	604
17	614	530	156	128	498	374	885	768
18	587	445	178	121	499	366	886	748
19	518	367	177	120	480	339	816	729
20	419	361	182	121	502	351	929	719
21	530	427	144	120	504	341	1010	556
22	485	416	183	109	505	331	907	589
23	571	491	178	129	468	343	982	609
24	593	457	154	129	521	352	965	647
25	607	460	154	129	527	339	877	581
26	631	444	183	135	493	353	917	579
27	650	471	188	125	506	340	952	554
28	560	441	182	134	450	355	914	606
29	658	471	183	109	529	317	777	662
30	650	482	170	135	480	341	950	590
31	629	474	151	120	520	377	952	609
Maximum	688	530	188	140	591	383	1010	818
Minimum	419	361	140	95	430	317	777	377
Average	597	447	168	121	491	356	913	606

VII Daily Energy Consumption By Constituents

(All Figs In MUs)

Date	Punjab	Haryana	Rajasthan	Delhi	UP	Uttaranchal	Chandigarh	HP	J & K	Total
01	106.178	61.224	56.706	60.090	99.728	10.164	3.245	9.445	15.863	423.251
02	105.586	57.369	57.972	57.310	100.545	10.546	3.235	9.096	17.196	420.014
03	104.724	54.971	58.641	53.240	100.997	10.872	2.763	9.026	15.696	410.934
04	102.044	54.762	58.178	56.680	108.197	11.049	3.334	9.450	16.683	419.947
05	105.576	57.020	56.558	61.070	108.217	11.179	3.532	9.570	17.128	430.737
06	108.451	58.530	58.930	63.590	104.723	11.218	3.695	9.640	18.063	437.293
07	110.842	62.027	62.185	65.270	109.433	11.527	3.861	9.770	17.007	452.992
08	109.201	60.626	61.472	66.180	105.580	11.557	3.892	9.859	17.370	447.140
09	113.151	59.434	59.659	63.890	104.699	11.487	3.531	9.723	17.301	441.899
10	113.464	56.758	57.350	59.440	109.820	11.066	2.905	9.640	17.394	437.314
11	111.465	60.446	57.090	63.600	106.657	11.304	3.629	9.910	17.688	441.516
12	113.015	61.591	55.166	59.540	104.839	11.145	3.658	9.648	18.123	436.173
13	113.500	61.856	57.727	62.220	100.513	11.610	3.770	9.910	17.735	439.185
14	111.846	62.612	59.920	60.880	102.044	11.145	3.699	9.681	18.325	440.155
15	114.254	61.725	58.761	49.080	98.281	10.887	3.037	9.458	19.119	424.566
16	110.814	57.608	58.430	55.280	104.611	11.111	3.418	9.994	18.237	430.514
17	112.908	59.534	60.317	56.890	105.797	11.297	3.129	9.729	17.906	437.917
18	115.041	61.324	62.459	62.580	108.266	11.089	3.555	9.264	16.199	449.573
19	113.168	60.300	64.028	61.990	98.262	10.287	3.578	8.631	16.323	435.894
20	112.461	58.260	65.847	60.190	100.456	10.022	3.387	8.840	16.845	434.925
21	107.100	57.768	67.490	63.700	94.756	10.364	3.354	9.386	18.193	431.567
22	107.911	60.554	67.519	64.620	99.490	10.784	3.518	9.548	18.458	440.965
23	107.844	59.617	68.294	63.940	99.258	11.174	3.580	9.499	18.050	439.446
24	110.689	64.805	66.416	61.570	102.895	11.058	3.091	9.810	18.061	449.209
25	113.724	64.882	60.283	63.490	106.992	11.127	3.702	9.465	17.076	450.779
26	114.526	68.251	58.123	64.520	104.619	11.272	3.783	9.535	18.001	452.766
27	115.013	69.611	57.672	64.420	110.677	11.457	3.682	9.387	17.449	459.480
28	113.231	64.703	56.954	66.900	102.517	11.016	3.819	9.249	17.451	445.401
29	109.211	67.443	59.396	66.790	109.130	11.763	3.518	9.527	18.124	454.353
30	107.812	62.833	58.298	63.500	106.549	11.194	3.443	9.211	15.277	438.533
31	109.708	63.530	56.140	61.070	109.169	11.479	2.924	9.518	18.166	443.185
Maximum	115.041	69.611	68.294	66.900	110.677	11.763	3.892	9.994	19.119	459.480
Minimum	102.044	54.762	55.166	49.080	94.756	10.022	2.763	8.631	15.277	410.934
Average	110.466	61.031	60.128	61.404	104.120	11.073	3.460	9.497	17.436	438.633
Month Total	3424.458	1891.973	1863.979	1903.530	3227.719	343.250	107.267	294.420	540.507	13597.622

VIII. Schedule VS Actual Drawals of Northern Regional Constituents (Sheet 1 of 2)

Date	Punjab		Haryana		Rajasthan		Delhi		Uttar Pradesh		Uttaranchal	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Aug-2003	48480	53002	31173	36958	26867	25482	41477	34757	44635	52874	372	-2709
2-Aug-2003	48266	51933	31038	35302	27031	27102	40984	30942	44176	52918	406	-1427
3-Aug-2003	47371	54379	29687	30377	26440	28339	40027	27904	42688	51116	181	890
4-Aug-2003	46842	47165	29654	31652	28250	27528	39580	31340	43588	58160	265	1812
5-Aug-2003	47080	48716	31150	34481	28795	27520	41677	33581	43834	59381	421	-1676
6-Aug-2003	48264	50090	33271	34435	29116	27629	40358	34395	44348	59272	1041	-1958
7-Aug-2003	47859	50751	32535	35037	29623	23469	41058	37446	44458	60469	1032	-1205
8-Aug-2003	47249	48766	33108	35056	28917	26941	40733	37339	43175	56641	1501	4982
9-Aug-2003	48453	51240	33100	34784	31081	27086	39592	34899	45422	58910	1945	1710
10-Aug-2003	48618	54377	30681	33155	29081	24438	40923	33489	45334	57285	918	-1760
11-Aug-2003	48877	51046	31479	35626	29316	21187	41526	37632	45817	58602	1445	-1153
12-Aug-2003	48768	53770	31602	34933	28280	20501	39820	32880	44713	56595	811	-1627
13-Aug-2003	46585	51939	31538	36912	28355	24005	40774	35391	44026	49611	609	-2164
14-Aug-2003	47118	52519	31030	36066	29179	26958	40749	34235	42083	45089	122	-2104
15-Aug-2003	50972	58706	31032	35380	27342	27104	36433	24947	39105	41573	-208	-2838
16-Aug-2003	52278	55876	30710	32948	28191	25723	38658	32936	42308	47609	189	-2066
17-Aug-2003	52903	56667	31137	35408	29416	29002	38162	32216	44564	47339	661	-2014
18-Aug-2003	52922	52905	31868	36907	30323	28697	38891	35525	44434	50166	630	-2324
19-Aug-2003	50985	48225	32331	35547	30283	28540	35991	36138	39845	44379	2081	3932
20-Aug-2003	49393	48142	34311	36633	30558	30851	36501	33334	40236	45020	5422	4494
21-Aug-2003	47165	44768	34358	35705	30478	31066	43343	39504	40543	45803	2754	2996
22-Aug-2003	45316	42646	34304	35153	29876	31342	47384	41153	41940	51110	3610	2086
23-Aug-2003	46114	46064	33675	35238	29116	33192	44626	36223	39758	48249	2916	1556
24-Aug-2003	48643	50807	36120	43336	30218	25958	40182	33276	43085	47086	3291	1403
25-Aug-2003	48796	51540	36015	46562	30192	19390	42431	36631	44555	52233	3539	3162
26-Aug-2003	51829	52564	34350	46871	29509	21885	43479	36141	44651	51529	1119	483
27-Aug-2003	52042	53453	35203	46091	29768	18594	42616	36909	44740	53744	993	-983
28-Aug-2003	50644	49737	34466	40544	29404	19675	42447	40095	43134	55689	1543	1623
29-Aug-2003	48701	52241	37163	42764	27642	17008	41522	39236	42887	57910	1024	-1170
30-Aug-2003	50906	48716	36872	40838	27815	14364	38714	38391	42769	59083	511	-2500
31-Aug-2003	49767	52875	35372	40034	25767	16114	40324	36269	43515	56593	361	-2508
Total MU	1519.206	1585.625	1020.333	1150.733	896.229	776.690	1260.982	1085.154	1340.366	1632.038	41.505	-3.057
Max. MWH	52922	58706	37163	46871	31081	33192	47384	41153	45817	60469	5422	4982
Min MWH	45316	42646	29654	30377	25767	14364	35991	24947	39105	41573	-208	-2838
Avg. MWH	49007	51149	32914	37120	28911	25055	40677	35005	43238	52646	1339	-99

VIII. Schedule vs Actual Drawals of Northern Regional Constituents (Sheet 2 of 2)

Date	Himachal Pradesh		Jammu & Kashmir		Chandigarh		NFF		Railways	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Aug-2003	-573	-4782	13002	12333	4083	3590	480	140	828	1475
2-Aug-2003	-994	-4289	12783	13354	4019	3567	480	112	882	1500
3-Aug-2003	-329	-3388	12483	11948	4035	3082	480	135	836	1328
4-Aug-2003	-175	-4422	12454	12964	4047	3617	480	134	1185	1536
5-Aug-2003	474	-3542	12576	13196	4055	3880	480	56	935	1434
6-Aug-2003	747	-3696	12977	13971	4080	4048	480	143	1241	1463
7-Aug-2003	1034	-4024	13422	13703	4069	4131	480	160	1390	1395
8-Aug-2003	822	-3759	13260	13335	4057	4258	480	157	1708	1537
9-Aug-2003	-549	-3973	13509	13052	4140	3799	480	182	1584	1489
10-Aug-2003	669	-4097	13205	13200	4125	3200	480	178	1505	1433
11-Aug-2003	585	-4025	13400	13810	4147	3954	480	154	1066	1618
12-Aug-2003	804	-4444	13300	14275	4158	4038	480	157	938	1679
13-Aug-2003	648	-3913	13134	14393	4171	4123	480	164	1027	1515
14-Aug-2003	608	-4129	12883	14865	4085	4026	480	165	1183	1395
15-Aug-2003	-3243	-4578	12031	16078	3910	3359	480	166	1068	1496
16-Aug-2003	-3117	-4481	12067	14747	4001	3707	480	170	1115	1433
17-Aug-2003	-3107	-4462	12341	14846	4092	3479	480	167	1078	1154
18-Aug-2003	-3134	-4163	12515	12807	4079	3874	480	162	1035	1098
19-Aug-2003	-3624	-5263	11791	13059	3878	3882	480	146	1317	1202
20-Aug-2003	-4543	-4588	12032	13317	4013	3597	480	150	1732	1355
21-Aug-2003	-4265	-4792	12375	14253	4061	3673	480	155	1707	1374
22-Aug-2003	-4818	-4029	12963	15135	4002	3800	480	152	1750	1568
23-Aug-2003	-4884	-4126	12758	14852	3793	3844	480	152	1731	1599
24-Aug-2003	-4700	-3608	13066	14532	3877	3347	480	158	1721	1661
25-Aug-2003	-4655	-4542	13387	13728	3930	4002	480	168	1861	1600
26-Aug-2003	-3915	-4117	13407	14258	3952	4094	480	151	1159	1396
27-Aug-2003	-3773	-4607	13427	14497	3913	3981	480	164	1319	1564
28-Aug-2003	-3940	-4397	12652	13972	3868	4118	480	153	1285	1517
29-Aug-2003	-3816	-4217	12777	14583	3857	4061	480	164	1421	1509
30-Aug-2003	-4069	-4542	10271	14038	3925	3741	480	163	1626	1459
31-Aug-2003	-3539	-4284	12916	14710	4020	3230	480	171	1000	1516
Total MU	-63.371	-131.279	395.164	431.811	124.442	117.102	14.880	4.749	40.233	45.298
Max. MWH	1034	-3388	13509	16078	4171	4258	480	182	1861	1679
Min MWH	-4884	-5263	10271	11948	3793	3082	480	56	828	1098
Avg. MWH	-2044	-4235	12747	13929	4014	3777	480	153	1298	1461

IX Schedule vs Actual Injection of ISGS (Sheet 1 of 3)

Date	Singrauli		Rihand		Dadri(T)		Unchahar-I		Unchahar-II		Dadri GPS	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Aug-2003	33360	33422	21640	21675	14313	14628	8749	8768	8610	8669	8581	8779
2-Aug-2003	32847	33060	21468	21744	14267	14485	8463	8176	8637	8698	8671	8816
3-Aug-2003	32878	33053	21195	21268	14313	14573	8662	8618	8428	8402	8549	8649
4-Aug-2003	32466	32983	20374	20614	14358	14811	8728	8908	8530	8927	12263	12664
5-Aug-2003	32992	33319	21600	21835	15852	16302	8848	8856	8779	9023	11879	12665
6-Aug-2003	33360	33490	21780	21884	13472	13547	9083	9111	9081	9124	12434	12886
7-Aug-2003	33360	33513	21840	21904	13335	13396	7817	7646	9144	9118	12891	13150
8-Aug-2003	33360	33502	21840	21916	13341	13610	5464	5351	9125	9186	12774	13302
9-Aug-2003	33360	33476	21840	21883	11023	10663	9144	9108	9144	9135	13051	13116
10-Aug-2003	33332	33428	21811	21591	11999	11892	8487	8368	8761	8682	12187	12283
11-Aug-2003	33360	33466	21840	21882	12658	12627	9078	9095	9001	9002	12116	12650
12-Aug-2003	33152	33193	21782	21549	11249	11094	7385	7326	8289	8015	11628	11698
13-Aug-2003	33360	33449	21840	21741	12660	12572	4427	4436	8849	8842	12613	12815
14-Aug-2003	33302	33418	21812	21801	12626	12544	3335	3229	8942	8989	14095	14722
15-Aug-2003	31259	31560	21200	21613	10618	10709	5993	5970	8563	8784	11396	13033
16-Aug-2003	30410	30728	21485	21650	11480	11654	8951	9041	8792	8953	12457	12843
17-Aug-2003	33134	33426	21530	21681	11003	11030	8936	9067	8680	8970	14656	15736
18-Aug-2003	33213	33422	21595	21866	12330	12676	7543	6922	8948	9080	14717	15828
19-Aug-2003	32746	32832	21735	21896	12609	13545	-70	-143	9025	9147	15060	16946
20-Aug-2003	33360	33483	21840	21912	13586	13610	-120	-126	9023	8849	15325	17390
21-Aug-2003	33360	33491	21840	21892	14350	14292	2231	1962	8790	8755	15423	17625
22-Aug-2003	33360	33460	21340	21408	18264	18297	4416	4400	8418	8211	15784	17328
23-Aug-2003	29358	29468	21840	21915	18264	18301	4423	4430	8781	8744	15761	17453
24-Aug-2003	32889	32989	21840	21631	16408	16733	7476	7297	8474	8369	15641	16284
25-Aug-2003	33360	33451	21840	21840	18264	18204	9105	9055	9102	9046	15375	15869
26-Aug-2003	33360	33482	21840	21886	17684	17751	9111	9152	8771	8655	15002	16412
27-Aug-2003	33360	33474	21840	21757	17924	17902	9144	9131	9119	9045	15222	15825
28-Aug-2003	33360	33499	21840	21888	17696	17865	9144	9135	4389	4521	15297	16764
29-Aug-2003	33360	33452	21840	21879	18094	18098	9120	9095	4512	4535	15319	16659
30-Aug-2003	33360	33452	21840	21861	17588	17444	9105	9107	4495	4528	14300	16059
31-Aug-2003	33360	33392	21745	21693	14825	14760	8944	8890	3745	3489	13399	17081
Total MU	1021.098	1025.833	671.692	673.555	446.453	449.615	221.122	219.381	254.947	255.493	413.866	443.330
Max. MWH	33360	33513	21840	21916	18264	18301	9144	9152	9144	9186	15784	17625
Min MWH	29358	29468	20374	20614	10618	10663	-120	-143	3745	3489	8549	8649
Avg. MWH	32939	33091	21667	21728	14402	14504	7133	7077	8224	8242	13351	14301

IX. Schedule vs Actual Injection of ISGS (Sheet 2 of 3)

Date	Anta GPS		Auraiya GPS		NAPS		RAPS-B		Bairasiul		Salal	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Aug-2003	7738	7783	9339	9411	9792	9769	6000	5211	2310	2376	16394	16551
2-Aug-2003	7425	7975	9310	9428	9554	9423	6480	5849	2190	2287	16178	16457
3-Aug-2003	6504	7045	6562	6517	7856	7768	6000	5997	2040	2136	16375	16572
4-Aug-2003	7587	8534	6721	6797	7056	6787	6000	6013	0	0	15836	16238
5-Aug-2003	7971	8673	6885	6947	7128	6554	6000	6090	1305	1421	15731	16109
6-Aug-2003	8120	9037	9507	9816	6864	6471	6000	6041	4080	4146	16135	16438
7-Aug-2003	7932	8831	11343	11746	6648	6339	6000	5986	4005	4114	16382	16615
8-Aug-2003	7655	8880	11667	12750	6528	6429	6000	6017	3885	3994	16320	16555
9-Aug-2003	7835	8420	12479	12927	6432	6476	6000	6116	3675	3775	16238	16454
10-Aug-2003	7039	7130	11246	11314	6432	6448	6000	6127	3630	3690	15839	16027
11-Aug-2003	7446	7997	11580	11731	6600	6370	6120	6175	2880	2946	16215	16523
12-Aug-2003	7117	6989	11324	11336	6528	6529	6120	6196	3285	3376	16324	16489
13-Aug-2003	7308	7326	10763	10879	6528	6433	6120	6286	2610	2694	16126	16413
14-Aug-2003	6936	7166	11432	11589	4076	3844	6120	6300	2505	2587	16480	16657
15-Aug-2003	3340	3474	9341	9439	3288	3190	6120	6323	3285	3448	16511	16645
16-Aug-2003	3665	3729	9950	10149	6576	6372	6120	6284	2820	2903	16440	16627
17-Aug-2003	3680	3762	9954	10105	6576	6457	6120	6327	2610	2692	16449	16626
18-Aug-2003	3889	3971	11538	12171	6552	6543	6120	6279	2715	2829	16449	16588
19-Aug-2003	3945	3982	12652	13820	6600	6515	6120	6270	3360	3463	15900	16224
20-Aug-2003	4012	3999	12512	13712	6576	6382	6120	6234	3105	3227	16097	16305
21-Aug-2003	4315	4399	12775	13773	6552	6527	6120	6203	2490	2580	16105	16461
22-Aug-2003	5286	5453	12994	13388	6480	6503	6120	6180	2370	2469	16328	16599
23-Aug-2003	4944	4961	12932	13201	6552	6552	6120	6175	2310	2400	15833	16081
24-Aug-2003	4794	4720	12825	12758	6600	6609	6120	6293	2190	2266	15821	16101
25-Aug-2003	4998	4969	12890	12932	6720	6500	6120	6342	2085	2183	16143	16394
26-Aug-2003	4940	4932	13100	13366	7119	6884	6120	6340	2040	2106	16152	16308
27-Aug-2003	4671	4599	12531	12652	7367	7422	6120	6363	2580	2669	15853	16091
28-Aug-2003	3908	3913	13291	13819	7608	7306	6120	6303	3195	3282	15319	15890
29-Aug-2003	3612	3619	13138	13367	7248	7542	6120	6341	2235	2304	16000	16270
30-Aug-2003	3664	3679	12340	12607	7392	7458	6120	6333	2355	2408	8475	8849
31-Aug-2003	3351	3301	11321	11313	7584	7501	6120	6388	1815	1866	16250	16550
Total MU	175.627	183.248	346.242	355.760	211.412	207.903	189.000	191.382	81.960	84.637	492.698	500.707
Max. MWH	8120	9037	13291	13820	9792	9769	6480	6388	4080	4146	16511	16657
Min MWH	3340	3301	6562	6517	3288	3190	6000	5211	0	0	8475	8849
Avg. MWH	5665	5911	11169	11476	6820	6707	6097	6174	2644	2730	15893	16152

IX. Schedule & Actual Injection of ISGS (Sheet 3 of 3)

Date	Tanakpur		Chamera		Uri		Bhakra Complex		Dehar		Pong	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Aug-2003	1993	2097	12816	12972	7939	8080	24545	24717	15045	14705	405	360
2-Aug-2003	2101	2112	12416	12580	7753	7878	24945	25099	15045	14663	405	352
3-Aug-2003	2115	2120	12825	12810	7786	7843	24983	25341	15045	14531	405	946
4-Aug-2003	2062	2078	12960	13089	7520	7593	24983	24876	15045	14778	1808	1609
5-Aug-2003	2090	2169	12960	13101	7641	7928	24945	24737	15045	14801	2027	2008
6-Aug-2003	2043	2087	12960	13146	7888	8290	24345	25124	15048	14427	2027	1024
7-Aug-2003	2035	2178	12960	13165	8569	8568	24345	24755	15045	14454	1011	1294
8-Aug-2003	1875	1909	12960	13146	8411	8603	24345	24971	15045	14063	1706	3143
9-Aug-2003	1925	2010	12960	13145	8655	8739	24345	24887	15045	14420	3214	3752
10-Aug-2003	1928	1974	12960	13115	8171	8379	24345	24990	15045	14166	3864	3645
11-Aug-2003	2038	2126	12960	13092	8168	8318	24345	24718	15045	14417	3821	3064
12-Aug-2003	2070	2187	12960	13094	7993	7964	25137	25122	15045	14264	3223	2929
13-Aug-2003	2085	2198	12960	13152	7041	7374	25125	25221	15045	14270	2891	2697
14-Aug-2003	2123	2224	12960	13165	6791	6931	25317	24707	14815	13988	2773	2936
15-Aug-2003	2209	2252	12960	13121	6473	6524	25317	25344	14815	14253	2950	2234
16-Aug-2003	2120	2210	12960	13153	6081	6354	25301	25955	14815	14243	2243	2237
17-Aug-2003	2199	2277	12960	13093	5731	5982	25901	26039	14898	14227	2450	3420
18-Aug-2003	2127	2241	12960	13086	5856	5987	25901	25541	14883	14233	3459	3548
19-Aug-2003	942	1074	12960	13154	5336	5475	25301	24936	14883	14399	4119	4204
20-Aug-2003	2078	2189	12960	13136	5450	5561	25301	24566	14883	14129	4235	3769
21-Aug-2003	1783	1865	12960	13101	6074	6558	25014	24272	14848	14111	3832	2785
22-Aug-2003	2214	2279	10845	10987	6045	6286	25014	24429	14848	14095	2828	4215
23-Aug-2003	2122	2240	6705	6941	6394	6704	24683	24725	14848	14095	4252	4252
24-Aug-2003	2232	2295	8010	8154	6938	7312	24683	25151	14848	14195	4415	4152
25-Aug-2003	2232	2297	8100	8291	7171	7357	24821	25257	14638	14391	4378	4443
26-Aug-2003	2232	2297	8100	8283	7208	7455	24821	25073	14633	14322	4362	4366
27-Aug-2003	2199	2285	8144	8275	7428	7461	24821	24849	14643	14428	4362	4272
28-Aug-2003	2232	2287	8188	8494	6942	6908	25055	25100	14533	14390	4362	1741
29-Aug-2003	2204	2280	9078	9326	6642	6894	25055	24831	14533	14244	445	2403
30-Aug-2003	2216	2288	10947	11082	6419	6565	25055	25418	14540	14126	3712	1630
31-Aug-2003	2204	2267	12816	12962	6524	6623	25655	25506	14535	14077	415	338
Total MU	64.028	66.392	362.270	367.411	219.038	224.494	773.749	776.257	461.027	443.905	86.399	83.768
Max. MWH	2232	2297	12960	13165	8655	8739	25901	26039	15048	14801	4415	4443
Min MWH	942	1074	6705	6941	5336	5475	24345	24272	14533	13988	405	338
Avg. MWH	2065	2142	11686	11852	7066	7242	24960	25041	14872	14320	2787	2702

X. Daily Generation Details of State Sector Stations

(All Figs In MUs)

Date	Punjab(T)	Punjab(H)	Haryana(T)	Haryana(H)	Rajasthan(T)	Rajasthan(H)	UP (T)	UP (H)	Uttaranchal(H)	Delhi	HP	J & K	Total
01	41.55	12.99	14.42	1.04	26.07	0.00	37.12	6.94	12.88	12.88	14.20	3.17	185.53
02	40.97	13.73	13.35	1.02	25.70	0.00	35.25	5.08	11.97	13.99	13.42	3.17	179.93
03	39.26	13.70	14.83	1.03	24.93	0.04	35.25	5.08	9.98	13.23	12.64	3.17	175.41
04	40.66	14.46	12.42	1.00	25.28	0.08	35.54	6.86	9.23	12.90	13.85	3.17	177.73
05	40.15	15.74	13.00	1.04	25.75	0.03	36.41	6.86	12.83	14.47	13.29	3.17	185.02
06	42.65	14.99	14.65	1.06	27.28	0.12	34.13	6.36	13.22	13.68	13.49	3.17	187.08
07	42.69	14.98	16.26	1.06	32.90	0.14	38.18	6.52	12.70	13.66	13.96	3.17	198.48
08	43.36	15.95	15.22	0.91	29.43	0.32	40.47	5.66	6.49	13.72	13.84	3.17	190.81
09	44.21	16.54	15.87	1.02	28.38	0.11	37.90	5.98	9.43	14.03	14.01	3.17	192.69
10	42.35	16.23	15.07	1.07	28.69	0.37	41.01	5.66	12.75	13.00	13.86	3.17	195.26
11	43.48	16.00	15.59	1.08	30.45	0.91	41.77	5.79	12.47	12.50	14.03	3.17	199.27
12	42.72	15.57	17.65	1.06	29.49	0.73	40.16	5.77	12.58	13.05	14.34	3.17	198.33
13	44.94	15.62	17.53	1.07	29.31	0.19	39.77	6.47	13.27	13.53	13.87	3.17	200.77
14	43.01	15.54	17.45	1.10	28.87	0.15	48.13	5.60	13.27	13.95	13.98	3.17	206.27
15	38.71	15.93	17.74	1.06	28.72	0.19	48.58	5.52	13.76	12.01	14.36	3.17	201.78
16	38.09	15.58	15.44	1.06	29.71	0.36	46.65	6.59	13.09	9.81	14.45	3.17	196.04
17	38.70	16.38	15.02	1.06	30.96	0.20	47.92	6.89	13.27	12.10	14.18	3.17	201.89
18	43.97	16.80	15.49	1.05	33.39	0.04	45.18	5.48	13.41	12.94	13.32	3.17	206.38
19	45.31	17.59	15.90	1.01	35.28	0.05	45.31	4.90	6.29	11.65	14.02	3.17	202.54
20	45.23	17.60	13.04	1.05	34.38	0.09	45.39	6.33	5.29	11.35	13.44	3.17	198.39
21	45.19	16.18	13.77	1.05	36.07	0.18	44.00	6.26	7.33	12.24	14.35	3.17	201.83
22	45.51	16.93	16.88	1.07	35.91	0.05	41.47	5.63	8.65	12.53	14.02	3.17	203.86
23	42.75	16.07	16.37	1.07	34.06	0.14	42.07	6.39	8.65	12.88	13.96	3.17	199.44
24	40.81	17.25	15.38	1.07	39.44	0.61	46.32	6.06	10.05	13.77	13.76	3.17	209.51
25	42.76	17.32	11.36	1.07	39.42	1.41	46.60	6.40	7.96	14.36	14.20	3.17	207.85
26	40.90	17.25	15.92	1.04	35.66	0.46	45.97	6.81	10.78	14.75	14.00	3.17	208.75
27	41.04	17.31	16.68	1.08	38.67	0.15	46.47	6.42	12.39	13.94	14.14	3.17	213.50
28	45.43	15.91	14.53	1.08	37.19	0.33	40.09	6.53	9.43	13.89	14.14	3.17	203.76
29	41.63	13.88	15.97	1.08	38.14	0.20	41.64	8.46	12.77	13.94	14.15	3.17	207.07
30	40.94	14.47	14.74	1.07	38.46	1.31	41.37	6.24	13.59	11.05	13.95	3.17	202.41
31	44.37	12.21	14.87	1.05	35.51	0.39	42.02	6.91	13.90	12.13	13.86	3.17	202.44
Maximum	45.51	17.60	17.74	1.10	39.44	1.41	48.58	8.46	13.90	14.75	14.45	3.17	213.50
Minimum	38.09	12.21	11.36	0.91	24.93	0.00	34.13	4.90	5.29	9.81	12.64	3.17	175.41
Average	42.37	15.70	15.24	1.05	32.05	0.30	41.88	6.21	11.09	13.03	13.91	3.17	198.07
Month Total	1313.34	486.69	472.43	32.58	993.47	9.36	1298.13	192.44	343.68	403.90	431.07	98.21	6140.04

XI. Performance Of Generating Stations

S.No.	Power Station	Effective Capacity MW	Energy Generated during	Cummulative from 01.04.2003
			August, 2003 (Ex Bus MU)	(Ex-bus MU)
1	CENTRAL SECTOR			
A	NTPC (Thermal)			
(a)	Badarpur TPS	705.00	423.02	2036.92
(b)	Singrauli STPS	2000.00	1025.83	5882.12
(c)	Rihand STPS	1000.00	673.56	3290.29
(d)	Dadri NCTPS	840.00	449.62	2243.69
(e)	Unchahar-I TPS	420.00	219.38	1275.98
(f)	Unchahar-II TPS	420.00	255.49	1119.96
(g)	Tanda TPS	440.00	175.03	948.79
(h)	Anta GPS	419.33	183.25	1110.64
(i)	Auraiya GPS	663.36	355.76	1800.34
(j)	Dadri GPS	829.78	443.33	1967.46
(k)	Faridabad GPS	431.57	231.05	1131.78
	Total NTPC	8169.04	4435.32	22807.97
B	NHPC			
(a)	Bairasiul	180.00	84.64	444.85
(b)	Salal	690.00	500.71	2206.07
(c)	Tanakpur HPS	94.20	66.39	265.54
(d)	Chamera HPS	540.00	367.41	1766.20
(e)	Uri HPS	480.00	224.94	1552.42
	Total NHPC	1984.20	1244.09	6235.08
C	NPC			
(a)	RAPS -A	300.00	69.86	509.06
(b)	RAPS -B	440.00	191.38	1088.50
(c)	NAPS	440.00	207.90	1032.93
	Total NPC	1180.00	469.14	2630.49
2	JOINTLY OWNED (BBMB)			
(a)	Bhakra Complex	1490.15	776.26	3208.21
(b)	Dehar	990.00	443.91	2017.69
(c)	Pong	390.00	83.77	349.63
	Total BBMB	2870.15	1303.94	5575.53
3	DELHI			
(a)	Indra Prastha	247.50	44.36	221.75
(b)	Rajghat	149.00	63.53	257.13
(c)	Gas Turbines	282.00	84.89	426.24
(d)	Pragati Gas	330.00	211.16	904.52
	Total DELHI	1008.50	403.93	1809.63
4	HARYANA			
(a)	WYC	48.00	32.87	131.15
(b)	Faridabad (New)	165.00	52.13	319.35
(c)	Panipat	860.00	460.00	1904.71
(d)	Magnum Diesel(IPP)	25.20	4.19	26.32
	Total Haryana	1098.20	549.19	2381.53

contd/-

5	HP			
(a)	Giri	60.00	28.41	76.75
(b)	Bassi	60.00	42.38	205.11
(c)	Binwa	6.00	6.84	18.85
(d)	Rongtong (+Nogli+Micro+Thirot+Sal-2)	15.25	2.21	9.98
(e)	Andhra	16.95	10.88	39.08
(f)	Bhabha (H)	120.00	86.29	385.77
(g)	Baner (H)	12.00	6.84	24.04
(h)	Gaj (H)	10.50	6.93	27.22
(i)	Gumma	3.00	6.36	9.71
(j)	Ghanvi	22.50	1.78	34.67
(k)	Malana (IPP)	86.00	65.49	246.29
(l)	Baspa (IPP)	300.00	236.18	680.29
	Total HP	712.20	500.57	1077.45
6	J & K			
(a)	Lower Jhelum	105.00	46.05	272.19
(b)	Upper Sindh	127.60	27.90	147.63
(c)	Ganderbal	15.00	2.82	8.30
(d)	Mohra	9.00	0.00	0.00
(e)	Chenani	32.80	7.98	32.44
(f)	Stakna	9.75	0.00	0.00
(g)	Small Hydel	3.54	0.00	0.00
(h)	Sewa	9.00	0.00	0.00
(i)	Diesel gen set	7.18	0.00	0.00
(j)	Pampore GT St - I	75.00	0.00	0.00
(k)	Pampore GT St - II	100.00	0.00	0.00
	Total J & K	493.87	84.75	460.55
7	PUNJAB			
(a)	Jogindernagar/ Shanan	110.00	78.34	366.55
(b)	UBDC	90.00	0.00	184.36
(c)	Mukerian	207.00	78.89	375.78
(d)	Anandpur Sahib (APS)	134.00	94.35	387.37
(e)	Ranjit Sagar HPS	600.00	186.43	1016.56
(f)	Small Hydel	4.10	0.00	2.32
(g)	GNDTPS (Bhatinda)	440.00	233.90	969.56
(h)	GGSTPS (Ropar)	1260.00	796.12	3010.78
(i)	Jhalkeri Rice Straw Fired	10.00	0.00	0.00
(j)	Lehra Mohabbat TPS	420.00	283.74	1262.63
	Total Punjab	3275.10	1751.76	7575.90
8	RAJASTHAN			
(a)	Mahi Bajaj Sagar	140.00	2.20	2.42
(b)	Rana Pratap Sagar (RPS)	172.00	0.00	24.38
(c)	Jawahar Sagar (JS)	99.00	7.11	32.35
(d)	Anoopgarh	9.00	0.00	0.88
(e)	Small Hydro	14.85	0.86	4.59
(f)	Kota TPS	1045.00	414.60	2183.48
(g)	RAMGARH GT	3.00	0.00	
(h)	RAMGARH GT EXT	35.50	17.23	90.48
(i)	Suratgarh TPS	1250.00	559.76	2391.67
(j)	Wind Farm	14.01	14.30	60.99
	Total Rajasthan	2782.36	1016.05	4791.23

contd/-

9	U.P.			
	<u>HYDRO</u>			
(a)	Rihand	300.00	98.01	354.37
(b)	Obra	99.00	43.56	155.11
(c)	Matatilla	30.00	3.61	14.79
(d)	Ganga Canal	10.70	0.00	0.00
(e)	Small hydro	18.20	0.00	0.00
(f)	Khara	72.00	48.21	206.19
	Total U.P. (Hydro)	529.90	193.39	730.46
	<u>THERMAL</u>			
(e)	Obra	1442.00	446.18	2346.12
(f)	Panki	242.00	86.23	291.83
(g)	Harduaganj	375.00	46.26	168.96
(h)	Paricha	220.00	32.04	204.76
(i)	Anpara	1630.00	675.80	4136.99
	Total U.P. (Thermal)	3909.00	1286.50	7148.65
	Total U.P.	4438.90	1479.89	7879.11
10	UTTRANCHAL			
(a)	Khatima	41.40	21.90	85.91
(b)	Ramganga	198.00	0.00	21.16
(c)	Ganga Canal	32.70	4.48	61.10
(d)	Yamuna (I & IV)	114.75	67.12	289.25
(e)	Chibro	240.00	102.13	456.57
(f)	Khodri	120.00	45.97	213.57
(g)	Chilla	144.00	91.25	355.20
(h)	Maneri Bhali	90.00	10.88	202.85
	Total Uttranchal	980.85	343.72	1685.60
11	CHANDIGARH			
	Diesel gen set	1.40		
	Total Region	28994.77	13582.35	64910.06

Notes : 1. The ex-bus generations are either actual values or based on the following assumptions in respect of auxiliary consumption

-----Hydro and diesel/gas power stations in open cycle-----1.0%

-----Gas power stations in combined cycle-----3.0%

-----Coal fired power stations

IP ----12% Rajghat---11% Faridabad---13.5% Suratgarh----10.0%

Panipat---12.0% RTP---7.5% GNDTP---10.5% Tanda---12.5%

Lehra Mohabbat---10.5% KTPS---10% UP---12.5%

XII. DETAILS OF ENERGY EXCHANGES THROUGH BILATERAL AGREEMENTS (INTRA-REGIONAL) DURING AUGUST 2003**(ALL FIGS IN MWH)**

FROM / TO	PUNJAB	HARYANA	RAJASTHAN	DELHI	UP	UTTRANCHAL	HP	J & K	CHANDIGARH
PUNJAB	-	-	-	71200 *	-	23922 ***	60695 *** 17780 *	72500 ***	-
HARYANA	-	-	-	57225 **	-	-	10400 **	-	-
RAJASTHAN	-	-	-	-	-	-	-	-	-
DELHI	-	-	-	-	50400 **	51590 *	246847 **	-	-
UP	-	-	-	-	-	-	-	-	-
UTTRANCHAL	-	-	-	-	-	-	-	-	-
HP	-	-	-	-	-	-	-	-	-
J & K	-	-	-	-	-	-	-	-	-
CHANDIGARH	-	-	-	-	-	-	-	-	-

* Through PTC

** Through Mutual

*** Through Banking

REMARKS : Figures are provisional and indicative only.

XIII. DETAILS OF ENERGY EXCHANGES THROUGH BILATERAL AGREEMENTS (INTER-REGIONAL) DURING AUGUST 200**(ALL FIGS IN MWH)**

FROM / TO	GOA	MP	WBPCL	DVC	NEEPCO
PUNJAB	-	-	-	-	-
HARYANA	-	-	-	-	6113 *
RAJASTHAN	-	-	-	-	-
DELHI	31913 **	-	96146 *	-	-

* Through PTC

** Through Global Energy Limited

REMARKS : Figures are provisional and indicative only

XIV. Inter Regional Exchanges During August 2003 (Sheet 1 of 2)

1 OF 2

Date	Wiith WR Over Vindhyachal HVDC B/B {Export (-)/Import(+)}							With WR Over Auraiya - Malanpur {Export(-)/Import(+)}						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Net (MU)	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Net (MU)
01	0	100	150	100	1.08	0.06	1.02	-25	-24	0	26	0.00	-0.41	-0.41
02	50	25	200	0	0.81	0.00	0.81	-25	-24	0	26	0.00	-0.44	-0.44
03	50	25	100	0	0.83	0.00	0.83	-25	-24	0	26	0.00	-0.40	-0.40
04	50	125	350	0	2.18	0.00	2.18	-25	-24	0	26	0.00	-0.43	-0.43
05	50	450	500	75	2.80	0.07	2.73	-20	-18	0	20	0.00	-0.46	-0.46
06	50	75	500	100	2.69	0.05	2.64	-22	-20	0	22	0.00	-0.53	-0.53
07	50	150	300	0	2.41	0.00	2.41	-22	-20	0	24	0.00	-0.52	-0.52
08	50	200	450	0	4.82	0.00	4.82	-24	-22	0	25	0.00	-0.51	-0.51
09	50	100	450	100	2.15	0.29	1.86	-24	-22	0	25	0.00	-0.50	-0.50
10	0	50	100	200	0.45	0.82	-0.37	-24	-22	0	25	0.00	-0.50	-0.50
11	50	50	100	150	0.81	0.28	0.53	-24	-22	0	25	0.00	-0.47	-0.47
12	50	50	350	100	0.99	0.17	0.82	-24	-22	0	25	0.00	-0.42	-0.42
13	200	300	350	200	2.04	0.35	1.69	-23	-24	0	25	0.00	-0.49	-0.49
14	50	0	100	150	0.47	0.47	0.00	-23	-23	0	25	0.00	-0.50	-0.50
15	50	100	250	100	1.55	0.03	1.52	-24	-22	0	24	0.00	-0.39	-0.39
16	50	50	200	50	1.26	0.05	1.21	-25	-24	0	25	0.00	-0.44	-0.44
17	50	50	0	50	0.90	0.02	0.88	-25	-24	0	25	0.00	-0.45	-0.45
18	50	50	125	100	1.09	0.11	0.98	-25	-24	0	25	0.00	-0.51	-0.51
19	50	50	150	0	1.55	0.00	1.55	-25	-24	0	25	0.00	-0.52	-0.52
20	50	100	200	50	1.48	0.03	1.46	-25	-24	0	25	0.00	-0.56	-0.56
21	50	50	100	50	1.16	0.08	1.08	-25	-23	0	25	0.00	-0.54	-0.54
22	50	50	100	50	1.11	0.03	1.08	-25	-22	0	25	0.00	-0.51	-0.51
23	50	300	300	0	2.57	0.00	2.57	-24	-25	0	25	0.00	-0.52	-0.52
24	50	100	150	200	1.07	0.21	0.86	-24	-22	0	25	0.00	-0.48	-0.48
25	50	100	300	50	1.53	0.02	1.51	-20	-19	0	20	0.00	-0.49	-0.49
26	50	150	400	0	2.66	0.00	2.66	-20	-19	0	20	0.00	-0.51	-0.51
27	50	300	450	150	2.23	0.26	1.97	-20	-19	0	20	0.00	-0.55	-0.55
28	50	450	500	0	5.57	0.00	5.57	-20	-19	0	20	0.00	-0.53	-0.53
29	50	500	500	100	4.41	0.03	4.38	-23	-20	0	20	0.00	-0.53	-0.53
30	0	350	350	0	2.27	0.00	2.27	-23	-21	0	20	0.00	-0.50	-0.50
31	50	50	125	250	1.19	0.32	0.87	-24	-23	0	25	0.00	-0.48	-0.48
Maximum	200	500	500	250	5.57	0.82	5.57	-20	-18	0	26	0.00	-0.39	-0.39
Minimum	0	0	0	0	0.45	0.00	-0.37	-25	-25	0	20	0.00	-0.56	-0.56
Average	50	145	265	77	1.88	0.12	1.75	-23	-22	0	24	0.00	-0.48	-0.48
Total					58.13	3.74	54.39					0.00	-15.02	-15.02

XIV. Inter Regional Exchanges During August 2003 (Sheet 2 of 2)

2 of 2

Date	With WR Over Ujjain - Kota {Export(-)/Import(+)}							With ER {Export(-)/Import(+)}						
	Peak MW MW	Off Peak MW MW	Max Import MW	Max Export MW	Energy Import MU	Energy Export MU	Net MU	Peak MW MW	Off Peak MW MW	Max Import MW	Max Export MW	Energy Import MU	Energy Export MU	Net MU
01	0	0	0	0	0.00	0.00	0.00	209	212	363	0	5.18	0.00	5.18
02	0	0	0	0	0.00	0.00	0.00	0	212	212	0	4.49	0.00	4.49
03	0	0	0	0	0.00	0.00	0.00	190	191	191	0	4.59	0.00	4.59
04	0	0	0	0	0.00	0.00	0.00	191	191	191	0	5.16	0.00	5.16
05	0	0	0	0	0.00	0.00	0.00	167	242	292	0	4.45	0.00	4.45
06	0	0	0	0	0.00	0.00	0.00	167	166	167	0	4.08	0.00	4.08
07	0	0	0	0	0.00	0.00	0.00	197	247	247	0	5.07	0.00	5.07
08	0	0	0	0	0.00	0.00	0.00	197	247	397	0	5.85	0.00	5.85
09	0	0	0	0	0.00	0.00	0.00	196	196	346	0	5.12	0.00	5.12
10	0	0	0	0	0.00	0.00	0.00	301	196	301	0	5.22	0.00	5.22
11	0	0	0	0	0.00	0.00	0.00	197	256	301	0	4.99	0.00	4.99
12	0	0	0	0	0.00	0.00	0.00	198	197	198	0	4.83	0.00	4.83
13	0	0	0	0	0.00	0.00	0.00	242	198	242	0	5.30	0.00	5.30
14	0	0	0	0	0.00	0.00	0.00	240	240	242	0	5.94	0.00	5.94
15	0	0	0	0	0.00	0.00	0.00	240	240	242	0	5.89	0.00	5.89
16	0	0	0	0	0.00	0.00	0.00	267	266	267	0	6.46	0.00	6.46
17	0	0	0	0	0.00	0.00	0.00	267	267	267	0	6.69	0.00	6.69
18	0	0	0	0	0.00	0.00	0.00	268	267	268	0	5.33	0.00	5.33
19	0	0	0	0	0.00	0.00	0.00	248	266	266	0	3.37	0.00	3.37
20	0	0	0	0	0.00	0.00	0.00	241	165	245	0	5.39	0.00	5.39
21	0	0	0	0	0.00	0.00	0.00	242	240	291	0	5.97	0.00	6.08
22	0	0	0	0	0.00	0.00	0.00	347	242	367	0	6.59	0.00	6.59
23	0	0	0	0	0.00	0.00	0.00	267	500	500	0	8.44	0.00	8.88
24	0	0	0	0	0.00	0.00	0.00	268	318	318	0	6.09	0.00	6.66
25	0	0	0	0	0.00	0.00	0.00	272	272	322	0	6.21	0.00	6.75
26	0	0	0	0	0.00	0.00	0.00	242	372	372	0	6.74	0.00	7.04
27	0	0	0	0	0.00	0.00	0.00	241	242	341	0	6.12	0.00	6.71
28	0	0	0	0	0.00	0.00	0.00	242	450	450	0	7.24	0.00	7.27
29	0	0	0	0	0.00	0.00	0.00	242	500	500	0	8.60	0.00	8.79
30	0	0	0	0	0.00	0.00	0.00	343	400	400	0	8.38	0.00	8.56
31	0	0	0	0	0.00	0.00	0.00	342	341	372	0	7.41	0.00	7.55
Maximum	0	0	0	0	0.00	0.00	0.00	347	500	500	0	8.60	0.00	8.88
Minimum	0	0	0	0	0.00	0.00	0.00	0	165	167	0	3.37	0.00	3.37
Average	0	0	0	0	0.00	0.00	0.00	235	269	306	0	5.84	0.00	5.94
Total					0.00	0.00	0.00					181.17	0.00	184.25

XV. Progress Of Installation Of Shunt Capacitors As On 31.08.2003

(ALL FIGS IN MVAR)

CONSTITUENT	REQUIREMENT AT THE END OF Mar-04	CAPACITORS AS ON 31.03.2003	CAPACITORS ADDITION DURING		BALANCE TO BE INSTALLED DURING 2003-04
		INSTALLED	2002-03	2003 - 04	
Chandigarh	150	92	0	0	58
Delhi	3364	2755	122	35	574
Haryana	3435	2685	333	124	626
H.P.	347	278	73	17	52
J & K	892	147	0	0	745
Punjab	4874	4706	76	6	162
Rajasthan	2863	2698	221	53	112
U.P.	5495	4965	274	47	483
Uttaranchal	344	123	0	2	219
BBMB	381	381	0	0	0
TOTAL	22145	18830	1099	284	3031

SOURCE: Minutes of 344th OCC meeting of NREB held on 12th September, 2003.

XVI. Hydraulic Data For Reservoirs During August 2003

Item	Bhakra	Pong	Rihand	R.P.S.	Gandhi Sagar (M.P.)
Full Reservoir Level (m) (FRL) (ft)	514.50 1688.00	433.12 1421.00	268.22 880.00	352.65 1157.00	402.64 1321.00
Min. Draw Down Level (m) (MDDL) (ft)	445.62 1462.00	384.05 1260.00	252.98 830.00	342.90 1125.00	381.00 1250.00
Level on last day of August 2003 (m)	505.71 1659.16	412.97 1354.88	259.20 850.40	346.94 1138.24	384.90 1262.81
Level on last day of August 2002 (m)	500.37 1641.65	403.52 1323.87	259.75 852.20	345.59 1133.82	380.87 1249.58
Live Capacity as on (mhmt) last day of August 2003 (maft)	0.57 4.62	0.40 3.26	0.18 1.42	0.06 0.47	0.08 0.63
Live Capacity as on (mhmt) last day of August 2002 (maft)	0.50 4.02	0.23 1.86	0.24 1.92	0.03 0.24	0.00 0.00
Energy content as on last day of August 2003 (MU)	2300.00	575.00	325.00	100.00	200.00
Energy content as on last day of August 2002 (MU)	1950.00	310.00	375.00	60.00	0.00
Maximum level (m) (ft) (date)	505.71 1659.16 31.08.2003	412.97 1354.88 31.87.2003	259.20 850.40 31.08.2003	346.94 1138.24 31.08.2003	384.90 1262.81 31.08.2003
Minimum level (m) (ft) (date)	496.12 1627.68 01.08.2003	403.07 1322.42 01.08.2003	254.93 836.40 01.08.2003	346.21 1135.87 01.08.2003	383.47 1258.10 01.08.2003

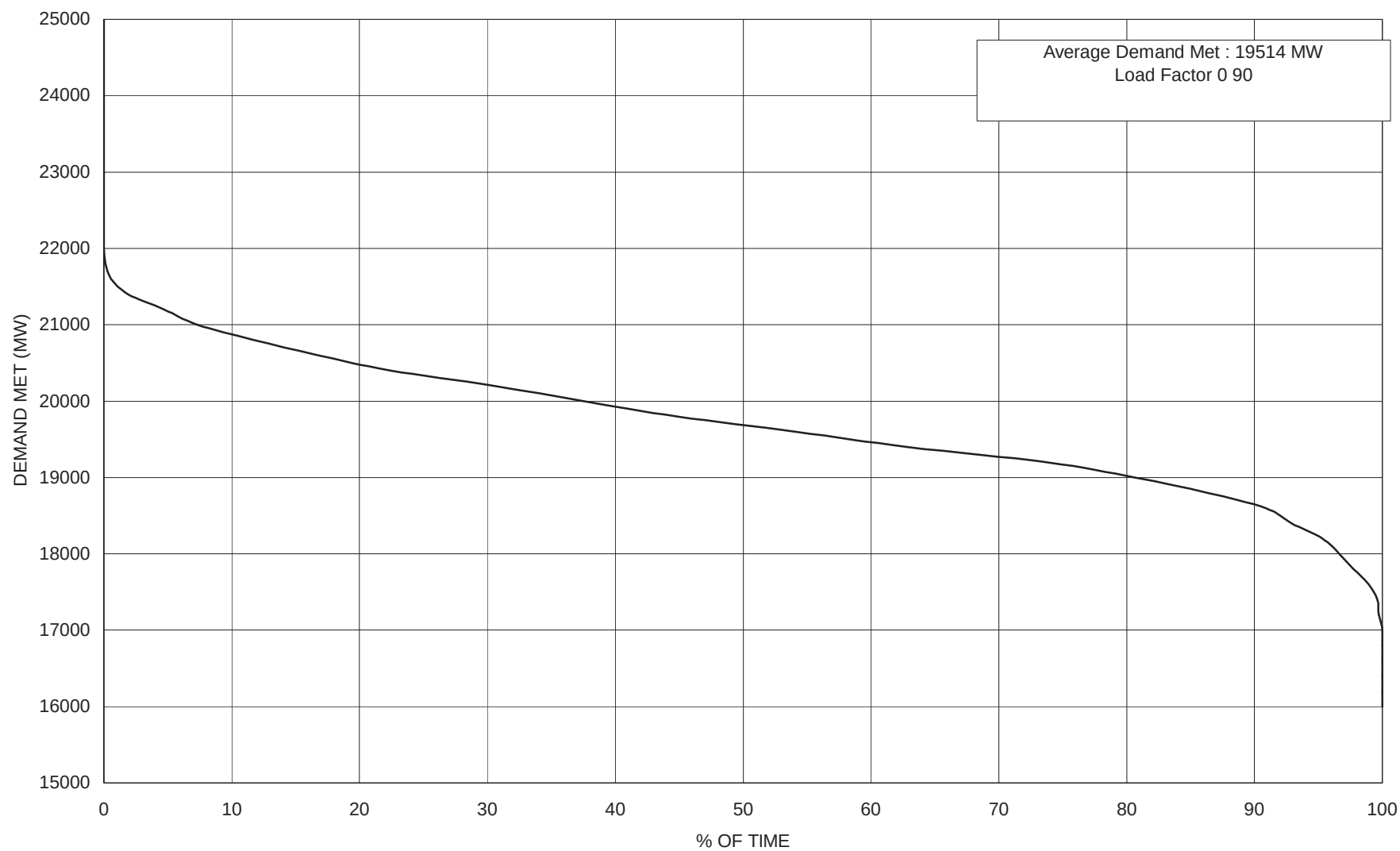
Energy content of Bhakra : Total Energy content at Bhakra, Ganguwal and Kotla power stations

Energy content of Rihand : Total Energy content at Rihand & Obra power stations

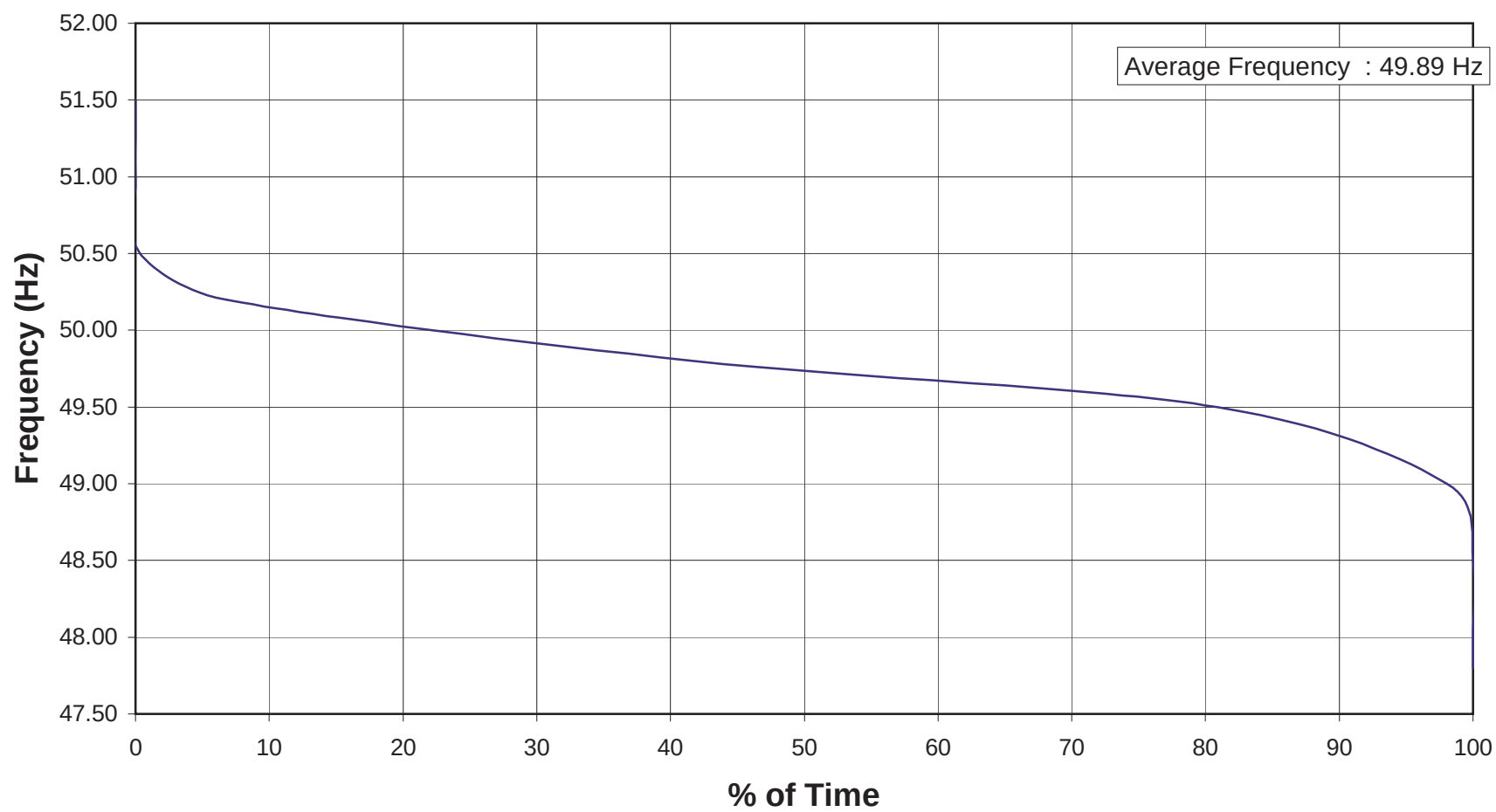
Energy content of RPS : Total Energy content of Rana Pratap Sagar and Jawahar Sagar Power Stations.

Energy Content of G. Sagar : Total Energy content at Gandhi Sagar, RP Sagar and Jawahar Sagar Power Stations.

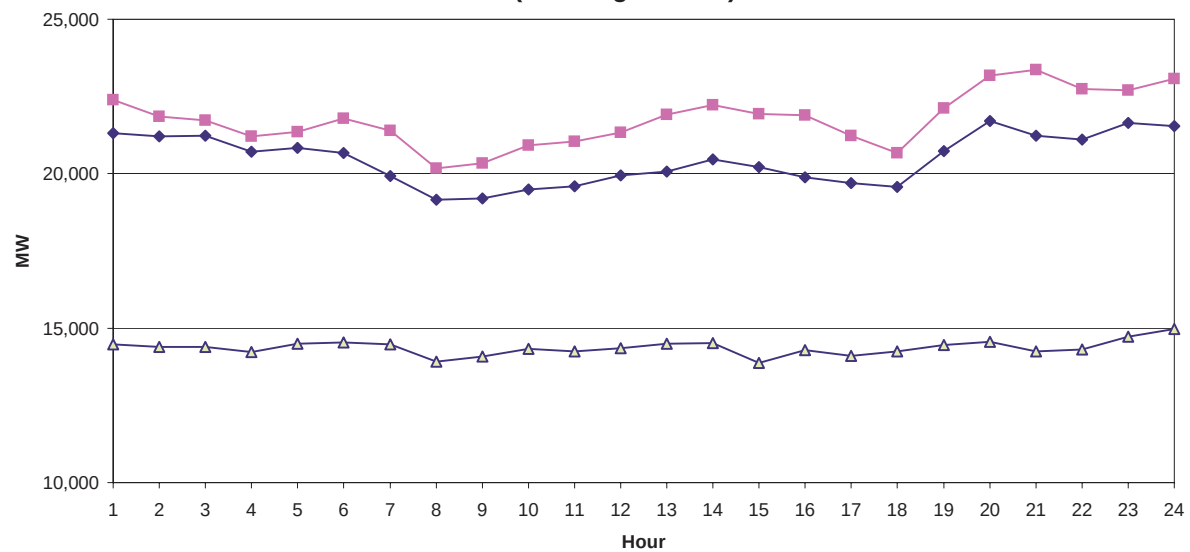
Load Duration Curve For Northern Region For August 2003



Frequency Duration Curve For Northern Region For August 2003

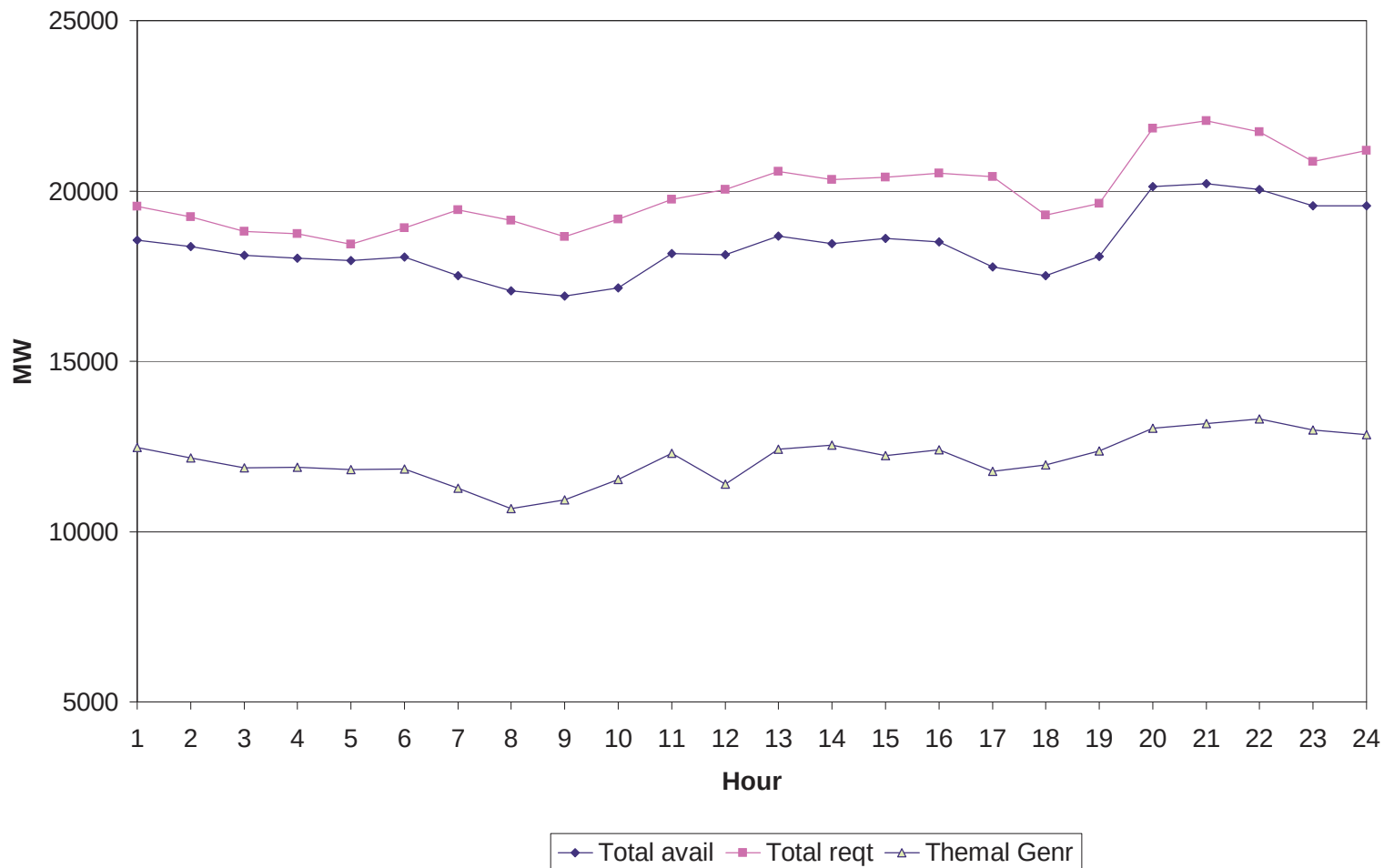


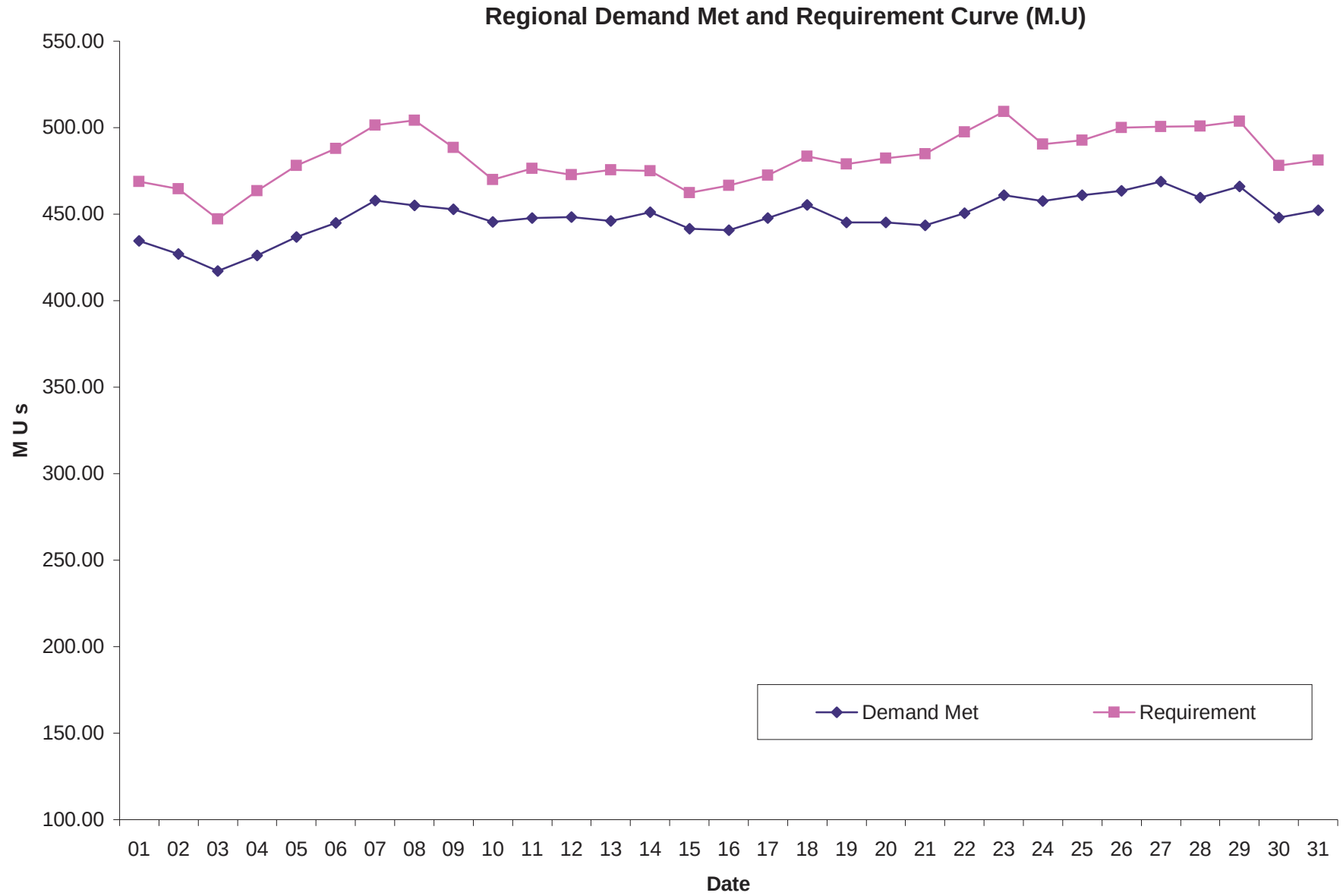
Load Curve Of Northern Region For Maximum Demand Met Day
(27th August 2003)



—◆— Total avail —■— Total reqt —▲— Thermal Genr

Load Curve Of Northern Region For Minimum Demand Met Day (04th AUGUST 2003)





Grid Incident during August 2003

Date	Time	Incident
03.08.2003	21.02 hrs	All the 220 kV lines feeding Jammu tripped because of operation of bus bar protection due to snapping of B-phase jumper of 220 kV Heeranagar-Jammu line at Jammu. Supply to Jammu restored by 21.40 hrs.
09.08.2003	11.34 hrs.	All the three running units at Dadri (th.) tripped due to tripping of both the 500 MVA ICT's because of operation of over fluxing relay. Generation at the time of tripping 600 MW. The units were synchronised by 18.19 hrs.