पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 01.08.2017
Date of Reporting : 02.08.2017

I. Regional Availability/Demand:

Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
46469	1348	47817	49.98	44816	255	45071	50.00	1051.03	12.68

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

UI [OD:(+ve), UD: (-ve)]

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others $	Total					
Punjab	51.87	20.83	0.24	72.94	103.83	102.94	-0.90	175.88	0.00
Haryana	52.20	0.76	0.00	52.96	107.71	108.43	0.72	161.39	0.05
Rajasthan	75.10	0.18	37.42	112.70	48.02	49.23	1.21	161.93	0.64
Delhi	24.20		0.00	24.20	80.01	79.16	-0.85	103.37	0.01
UP	166.95	20.82	0.00	187.77	164.14	164.68	0.54	352.44	0.00
Uttarakhand		7.40	6.97	14.37	21.82	22.67	0.85	37.03	1.57
HP		12.34	7.08	19.42	-1.51	4.83	6.34	24.25	2.42
J & K		21.70	0.00	21.70	7.92	7.47	-0.45	29.17	7.99
Chandigarh				0.00	6.25	5.57	-0.68	5.57	0.00
Total	**370.32**	**84.03**	**51.71**	**506.05**	**538.19**	**544.97**	**6.78**	**1051.03**	12.68

* Shortage furnished by the respective constituent.$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Maximum Demand Met (MW) and Time(Hrs)		Shortage (MW)
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	6871	0	-221	1155	7885	0	102	1735	8294	1	0
Haryana	7268	192	134	855	7037	0	72	1107	7882	22	68
Rajasthan	6921	0	-43	-1059	6858	0	75	-385	7569	24	0
Delhi	4528	0	-66	274	4151	0	65	371	4900	16	0
UP	16431	320	-232	2281	15453	90	146	2202	16621	21	700
Uttarakhand	1903	0	174	-248	1480	0	56	-288	1903	20	0
HP	802	471	588	-1749	826	0	129	-1756	1060	8	0
J&K	1460	365	-57	-815	934	165	-300	-1232	1869	21	467
Chandigarh	285	0	19	-20	193	0	-53	-40	285	20	0
Total	**46469**	**1348**	**294**	**673**	**44816**	**255**	**292**	**1713**	**47771**	**21**	**2239**

* STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

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III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1737	1908	1708	39.83	1659	39.12	0.70
	Rihand I STPS (2*500)	1000	923	988	977	21.44	893	21.55	-0.11
	Rihand II STPS (2*500)	1000	943	996	974	21.90	913	21.98	-0.08
	Rihand III STPS (2*500)	1000	929	1010	942	21.18	882	21.34	-0.17
	Dadri I STPS (4*210)	840	660	711	470	11.50	479	10.78	0.72
	Dadri II STPS (2*490)	980	750	551	543	15.27	636	15.47	-0.19
	Unchahar I TPS (2*210)	420	383	390	244	8.21	342	8.61	-0.40
	Unchahar II TPS (2*210)	420	383	398	250	7.93	331	8.55	-0.62
	Unchahar III TPS (1*210)	210	192	203	113	3.65	152	3.93	-0.28
	Unchahar IV TPS(1*500)	500		0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjhar) (3*500)	1500	939	982	558	17.11	713	18.03	-0.92
	Dadri GPS (4*130.19+2*154.51)	830	764	144	132	3.72	155	3.95	-0.22
	Anta GPS (3*88.71+1*153.2)	419	391	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	612	0	0	0.00	0	0.00	0.00
	Dadri Solar(5)	5	1	0	0	0.01	1	0.01	0.00
	Unchahar Solar(10)	10	0	0	0	0.00	0	0.00	0.00
	Singrauli Solar(15)	15	2	0	0	0.07	3	0.06	0.01
	KHEP(4*200)	800	813	861	856	20.69	862	19.50	1.19
	Sub Total (A)	**12612**	**10421**	**9142**	**7767**	**193**	**8021**	**193**	**-0.37**
B. NPC	NAPS (2*220)	440	381	419	426	9.14	381	9.14	0.00
	RAPS- B (2*220)	440	362	410	412	8.77	366	8.64	0.13
	RAPS- C (2*220)	440	418	449	452	9.72	405	10.03	-0.31
	Sub Total (B)	**1320**	**1161**	**1278**	**1290**	**27.64**	**1152**	**27.82**	**-0.18**
C. NHPC	Chamera I HPS (3*180)	540	535	548	539	13.01	542	12.83	0.18
	Chamera II HPS (3*100)	300	242	301	202	5.85	244	5.80	0.05
	Chamera III HPS (3*77)	231	230	238	235	5.63	235	5.52	0.11
	Bairasuil HPS(3*60)	180	139	0	183	3.27	136	3.34	-0.07
	Salal-HPS (6*115)	690	251	684	605	6.05	252	6.03	0.02
	Tanakpur-HPS (3*31.4)	94	89	95	93	2.23	93	2.15	0.08
	Uri-I HPS (4*120)	480	472	482	480	11.66	486	11.42	0.25
	Uri-II HPS (4*60)	240	213	180	240	5.15	215	5.12	0.04
	Dhauliganga-HPS (4*70)	280	281	294	293	6.78	283	6.74	0.05
	Dulhasti-HPS (3*130)	390	284	271	397	6.95	290	6.80	0.15
	Sewa-II HPS (3*40)	120	126	133	133	3.16	132	3.02	0.14
	Parbati 3 (4*130)	520	297	526	0	6.40	267	6.29	0.11
	Sub Total (C)	**4065**	**3158**	**3751**	**3400**	**76**	**3173**	**75**	**1.10**
D.SJVNL	NJPC (6*250)	1500	390	0	1609	9.67	403	10.00	-0.32
	Rampur HEP (6*68.67)	412	102	0	374	2.38	99	2.21	0.17
	Sub Total (D)	**1912**	**491**	**0**	**1983**	**12.06**	**502**	**12.21**	**-0.15**
E. THDC	Tehri HPS (4*250)	1000	925	923	937	22.37	932	22.20	0.17
	Koteshwar HPS (4*100)	400	344	398	302	8.28	345	8.26	0.03
	Sub Total (E)	**1400**	**1269**	**1321**	**1239**	**30.65**	**1277**	**30.46**	**0.20**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	895	1319	758	21.63	901	21.49	0.14
	Dehar HPS (6*165)	990	462	330	600	11.71	488	11.08	0.63
	Pong HPS (6*66)	396	139	330	66	3.35	139	3.33	0.01
	Sub Total (F)	**2765**	**1496**	**1979**	**1424**	**36.68**	**1528**	**35.90**	**0.78**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	230	230	5.50	229	5.25	0.25
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	0	1100	8.00	333	14.67	-6.67
	Malana Stg-II HPS (2*50)	100	0	112	112	2.66	111	2.50	0.15
	Shree Cement TPS (2*150)	300	0	130	112	2.47	103	2.71	-0.24
	Budhil HPS(IPP) (2*35)	70	0	76	75	1.79	75	1.79	0.00
	Sub Total (G)	**1662**	**0**	**548**	**1630**	**20.42**	**851**	**26.92**	**-6.50**
H. Total Regional Entities (A-G)		**25737**	**17996**	**18020**	**18733**	**396.10**	**16504**	**401.22**	**-5.12**

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	160	480	6.84	285
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	80	80	1.74	73
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	195	558	8.60	358
	Goindwal(GVK) (2*270)	540	180	180	3.33	139
	Rajpura (2*700)	1400	760	660	16.26	677

	Talwandi Saboo (3*660)	1980	616	616	15.10	629
	Thermal (Total)	**6560**	**1991**	**2574**	51.87	**2161**
	Total Hydro	1000	853	892	20.83	868
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.22	9
	Solar	560	0	0	0.02	1
	Renewable(Total)	**848**	**0**	**0**	**0.24**	**10**
	Total Punjab	**8408**	**2844**	**3466**	**72.94**	**3039**
Haryana	Panipat TPS (2*210+2*250)	920	433	391	9.72	405
	DCRTPP (Yamuna nagar) (2*300)	600	266	442	8.21	342
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	181	193	4.11	171
	RGTPP (khedar) (IPP) (2*600)	1200	399	384	9.59	399
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	971	745	20.57	857
	Thermal (Total)	**4497**	**2250**	**2155**	**52.20**	**2175**
	Total Hydro	62	32	33	0.76	32
	Wind Power	0	0	0	0.00	0
	Biomass	40	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Renewable(Total)	**40**	**0**	**0**	**0.00**	**0**
	Total Haryana	**4599**	**2282**	**2188**	**52.96**	**2207**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	149	146	3.59	150
	suratgarh TPS (6*250)	1500	213	173	4.49	187
	Chabra TPS (4*250)	1000	869	885	18.66	778
	Chabra TPS (1*660)	660	0	0	0.00	0
	Dholpur GPS (3*110)	330	0	0	0.00	0
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	184	188	4.61	192
	RAPS A (NPC) (1*100+1*200)	300	164	164	4.03	168
	Barsingsar (NLC) (2*125)	250	102	99	2.52	105
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	773	461	13.95	581
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	0	0	0.00	0
	Kawai(Adani) (2*660)	1320	1190	987	23.25	969
	Thermal (Total)	**9536**	**3644**	**3103**	**75.10**	**3129**
	Total Hydro	550	0	31	0.18	7
	Wind power	4017	1460	1805	35.06	1461
	Biomass	99	7	7	0.16	7
	Solar	1295	0	0	2.20	92
	Renewable/Others (Total)	5411	1467	1812	37.42	1559
	Total Rajasthan	**15497**	**5111**	**4946**	**112.70**	**4696**
UP	Anpara TPS (3*210+2*500)	1630	1103	925	23.82	992
	Obra TPS (2*50+2*94+5*200)	1194	392	433	9.41	392
	Paricha TPS (2*110+2*220+2*250)	1160	634	581	15.13	630
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	430	317	10.13	422
	Tanda TPS (NTPC) (4*110)	440	385	274	8.71	363
	Roza TPS (IPP) (4*300)	1200	805	567	18.36	765
	Anpara-C (IPP) (2*600)	1200	1131	1122	26.49	1104
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	901	903	21.63	901
	Lalitpur TPS(3*660)	1980	1224	564	18.78	782
	Bara(2*660)	1320	603	603	14.49	604
	Thermal (Total)	**12449**	**7608**	**6289**	**166.95**	**6956**
	Vishnuparyag HPS (IPP)(4*110)	440	395	435	9.09	379
	Alaknanada(4*82.5)	330	335	312	7.48	312
	Other Hydro	527	324	264	4.26	177
	Cogeneration	981	0	0	0.00	0
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	102	0	0	0.00	0
	Renewable(Total)	**128**	**0**	**0**	**0.00**	**0**
	Total UP	**14855**	**8662**	**7300**	**187.77**	**7824**
Uttarakhand	Other Hydro	1250	519	222	7.40	308
	Total Gas	225	278	281	6.68	278
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.29	12
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.29	12
	Total Uttarakhand	**1882**	**797**	**503**	**14.37**	**599**
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	36	36	0.82	34
	Pragati Gas Turbine (2x104+ 1x122)	330	262	265	5.48	228
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	420	420	10.07	420
	Badarpur TPS (NTPC) (3*95+2*210)	705	320	321	7.84	327
	Thermal (Total)	**2917**	**1038**	**1042**	**24.20**	**1009**
	Wind Power	0	0	0	0.00	0
	Biomass	16	0	0	0.00	0
	Solar	2	0	0	0.00	0
	Renewable(Total)	**18**	**0**	**0**	**0.00**	**0**
	Total Delhi	**2935**	**1038**	**1042**	**24.20**	**1009**
HP	Baspa HPS (IPP) (3*100)	300	0	0	2.19	91
	Malana HPS (IPP) (2*43)	86	108	108	2.59	108
	Other Hydro (>25MW)	372	408	310	7.57	315
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)	486	201	207	7.08	295
	Renewable(Total)	**486**	**201**	**207**	**7.08**	**295**
	Total HP	**1244**	**717**	**626**	**19.42**	**809**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	884	884	21.22	884
	Other Hydro/IPP(including 98 MW Small Hydro)	308	202	200	0.48	20
	Gas/Diesel/Others	190	0	0	0.00	0
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)Included in Other Hydro Above	98	0	0	0.00	0
	Renewable(Total)	**98**	**0**	**0**	**0.00**	**0**
	Total J & K	**1398**	**1086**	**1084**	**22**	**904**
Total State Control Area Generation		**50818**	**22537**	**21155**	**506.05**	**21086**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**9230**	**6493**	**178.23**	**7426**

Total Regional Availability(Gross)	**76555**	**49786**	**46380**	**1080.38**	**45016**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**8255**	**10344**	**192.39**	**8016**
State Control Area Hydro	**7243**	**4539**	**4180**	**91.11**	**4087**
Total Regional Hydro	**19477**	**12793**	**14524**	**283.49**	**12103**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.08**	**3**
State Control Area Renewable	**7436**	**1668**	**2019**	**45.03**	**1876**
Total Regional Renewable	**7466**	**1668**	**2019**	**45.11**	**1879**

VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
Vindhychal(HVDC B/B)	50	150	350	300	0.62	3.06	-2.44
765 KV Gwalior-Agra (D/C)	2763	1923	2870	0	53.39	0.00	53.39
400 KV Zerda-Kankroli	204	76	211	0	2.54	0.00	2.54
400 KV Zerda-Bhinmal	156	14	197	27	1.50	0.00	1.50
220 KV Auraiya-Malanpur	9	-10	42	10	0.02	0.00	0.02
220 KV Badod-Kota/Morak	52	28	142	0	1.51	0.00	1.51
Mundra-Mohindergarh(HVDC Bipole)	0	0	0	0	0.00	0.00	0.00
400 KV RAPPC-Sujalpur	-119	69	-120	0	0.36	0.00	0.36
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1031	729	1215	0	23.64	0.00	23.64
+/- 800 kV HVDC Champa-Kurushetra	1500	1500	1500	0	30.42	0	30.42
Sub Total WR	**5646**	**4479**			**114.00**	**3.06**	**110.94**
400 kV Sasaram - Varanasi	164	165	181	0	3.90	0.00	3.90
400 kV Sasaram - Allahabad	24	22	50	0	0.76	0.00	0.76
400 KV MZP- GKP (D/C)	333	173	430	0	6.59	0.00	6.59
400 KV Patna-Balia(D/C) X 2	638	377	742	0	13.71	0.00	13.71
400 KV B'Sharif-Balia (D/C)	247	175	298	0	5.34	0.00	5.34
765 KV Gaya-Balia	340	237	340	0	5.84	0.00	5.84
765 KV Gaya-Varanasi (D/C)	323	75	380	0	5.74	0.00	5.74
220 KV Pusauli-Sahupuri	192	171	216	0	4.07	0.00	4.07
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-17	-36	0	36	0.00	0.61	-0.61
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-141	-207	43	214	0.00	2.18	-2.18
400 KV Barh -GKP (D/C)	457	193	457	0	6.02	0.00	6.02
400 kV B'Sharif - Varanasi (D/C)	24	169	180	84	1.12	0.00	1.12
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**2584**	**1514**			**53.09**	**2.79**	**50.31**
+/- 800 KV HVDC BiswanathCharialli-Agra	1000	500	1000	0.00	16.98	0.00	16.98
Sub Total NER	**1000**	**500**			**16.98**	**0.00**	**16.98**
Total IR Exch	**9230**	**6493**			**184.07**	**5.85**	**178.23**

VI(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
40.49	3.35	43.85	14.39	8.64	-26.35	-0.10	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
31.89	133.15	165.04	67.28	110.94	178.23	35.40	-22.21	13.19

VI(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
132 KV Tanakpur - Mahendarnagar	-25	0	0	27	0	0	-0.48

VII. Frequency Profile <---------- % of Time Frequency ---------->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	0.00	0.83	9.77	54.09	77.16	11.66	1.45	0.00	0.00

<---------- Frequency (Hz) ---------->				Average	Frequency	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum		Frequency	Variation		MAX	MIN	
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)	
50.14	8.02	49.69	19.19	49.99	0.043	0.064	50.08	49.75	22.84

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	403	0:00	403	0:00	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	412	5:18	385	19:38	0.0	3.4	0.0	0.0	0.0
Bareilly(PG)400kV	400	412	5:04	378	1:07	0.0	0.9	0.0	0.0	0.0
Kanpur	400	416	7:14	396	19:36	0.0	0.0	0.0	0.0	0.0
Dadri	400	413	6:01	396	19:42	0.0	0.0	0.0	0.0	0.0
Ballabhgarh	400	416	5:03	397	19:37	0.0	0.0	0.0	0.0	0.0
Bawana	400	413	7:01	396	19:40	0.0	0.0	0.0	0.0	0.0
Bassi	400	423	4:00	402	19:48	0.0	0.0	12.1	0.0	12.1
Hissar	400	415	7:02	399	19:36	0.0	0.0	0.0	0.0	0.0
Moga	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	421	6:59	403	0:09	0.0	0.0	1.5	0.0	1.5
Nalagarh	400	424	6:57	409	0:03	0.0	0.0	8.0	0.0	8.0
Kishenpur	400	419	8:00	407	19:42	0.0	0.0	0.0	0.0	0.0
Wagoora	400	414	5:16	392	19:59	0.0	0.0	0.0	0.0	0.0
Amritsar	400	418	8:02	407	0:00	0.0	0.0	0.0	0.0	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	415	13:17	405	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	416	5:02	393	19:42	0.0	0.0	0.0	0.0	0.0

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	779	13:00	739	19:37	0.0	1.8	0.0	0.0	0.0
Balia	765	775	5:10	735	19:38	0.0	6.3	0.0	0.0	0.0
Moga	765	792	7:02	767	19:41	0.0	0.0	0.0	0.0	0.0
Agra	765	791	4:16	755	19:40	0.0	0.0	0.0	0.0	0.0

Bhiwani	765	795	4:15	769	19:23	0.0	0.0	0.0	0.0	0.0
Unnao	765	770	5:04	731	19:38	0.0	7.5	0.0	0.0	0.0
Lucknow	765	782	5:07	737	19:38	0.0	1.5	0.0	0.0	0.0
Meerut	765	800	7:03	764	19:41	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	794	7:05	761	19:41	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	787	5:08	742	19:37	0.0	0.0	0.0	0.0	0.0
Anta	765	792	4:17	764	19:44	0.0	0.0	0.0	0.0	0.0
Phagi	765	796	3:43	767	19:43	0.0	0.0	0.0	0.0	0.0

Note : "0" in Max / Min Col -> Telemetry Outage

IX. Reservior Parameters:

Name of Reservior	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m^3/s)	Usage (m^3/s)
Bhakra	513.59	445.62	496.89	971.87	486.58	627.57	2191.52	694.50
Pong	426.72	384.05	412.13	566.84	403.40	296.79	3495.91	215.21
Tehri	829.79	740.04	798.85	589.90	793.15	500.60	895.37	556.00
Koteshwar	612.50	598.50	610.10	4.69	609.47	4.44	556.00	546.10
Chamera-I	760.00	748.75	755.72	0.00	0.00	0.00	568.91	352.96
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	522.93	10.77	507.75	6.02	436.46	363.96

*** NA: Not Available**

X(A). Short-Term Open Access Details:

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	1735	0	0	1155	0	0	37.39	0.09	37.48
Delhi	661	-291	0	461	-186	0	15.67	-4.72	10.96
Haryana	949	158	0	813	42	0	17.25	2.27	19.52
HP	-1465	-291	0	-1423	-326	0	-31.37	-6.22	-37.59
J&K	-740	-492	0	-740	-76	0	-17.76	-6.41	-24.16
CHD	0	-40	0	0	-20	0	0.00	-0.39	-0.39
Rajasthan	-51	-335	0	-51	-1008	0	-1.21	-7.49	-8.70
UP	1118	1085	0	802	1479	0	10.36	12.29	22.65
Uttarakhand	-151	-138	0	-265	16	0	-4.28	-0.51	-4.79
Total	**2057**	**-344**	**0**	**752**	**-78**	**0**	**26.05**	**-11.10**	**14.96**

X(B). Short-Term Open Access Details:

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1735	1054	54	0	0	0
Delhi	1065	461	41	-610	0	0
Haryana	949	589	206	-332	0	0
HP	-1099	-1577	-178	-416	0	0
J&K	-740	-740	-15	-497	0	0
CHD	0	0	20	-70	0	0
Rajasthan	-51	-51	325	-1681	0	0
UP	1481	73	1674	-86	0	0
Uttarakhand	-138	-265	34	-138	0	0

XI. System Reliability Indices(Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

WR	**0.00%**
ER	**0.00%**
Simultaneous	**1.04%**

(ii)%age of times ATC violated on the inter-regional corridors

WR	**0.00%**
ER	**0.00%**
Simultaneous	**12.15%**

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	**0.00%**

XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	2	17
Haryana	0	11
Rajasthan	1	22
Delhi	3	19
UP	0	7
Uttarakhand	4	30
HP	1	11
J & K	4	35
Chandigarh	4	26

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 01.08.2017 :

XVI. Synchronisation of new generating units :

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

1. 315MVA ICT-1 at 400kV GSS Chittorgarh firs time charged on load at 1735Hrs of 01.08.17
2. 500MVA ICT-3 at 400kV Gurgaon first time charged on load along with Bay no 210 at 1931Hrs of 01.08.17

XVIII. Tripping of lines in pooling stations :

XIX. Complete generation loss in a generating station :

Note: Data(regarding drawal,generation, shortage , inter-regional flows and reservoir levels)of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.

Report for : 01.08.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER