पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 23.07.2017

Date of Reporting : 24.07.2017

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
47587	740	48327	50.01	49538	214	49753	49.98	1123.34	9.11

* 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	77.55	20.29	0.16	98.00	138.45	138.09	-0.36	236.09	0.00
Haryana	54.45	0.83	0.00	55.27	121.45	121.74	0.29	177.01	0.00
Rajasthan	86.13	0.12	14.00	100.24	53.21	54.13	0.92	154.37	0.00
Delhi	22.32		0.00	22.32	78.18	77.16	-1.01	99.48	0.08
UP	147.96	23.33	0.00	171.29	177.39	178.07	0.68	349.36	0.00
Uttarakhand		17.81	5.42	23.23	13.49	14.35	0.86	37.58	0.00
HP		18.64	7.59	26.22	-3.24	-1.14	2.10	25.08	0.00
J & K		25.96	0.00	25.96	13.64	12.04	-1.60	38.00	9.04
Chandigarh				0.00	6.14	6.36	0.22	6.36	0.00
Total	**388.40**	**106.97**	**27.16**	**522.53**	**598.70**	**600.82**	**2.12**	**1123.34**	9.11

* 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	9590	0	-28	1495	9901	0	-141	2113	10307	16	0
Haryana	7377	0	-230	844	8408	0	70	1067	8881	1	0
Rajasthan	6299	0	-114	-1019	7127	0	227	-482	7510	1	0
Delhi	4090	0	-18	419	4441	0	63	641	4933	24	16
UP	15419	280	122	2277	15599	0	30	1902	16197	21	370
Uttarakhand	1659	0	44	-143	1590	0	28	-239	1659	20	0
HP	1033	0	111	-1614	985	0	121	-1699	1182	21	0
J&K	1840	460	72	-792	1215	214	-156	-1280	1978	21	494
Chandigarh	279	0	1	-10	272	0	23	-25	319	23	0
Total	**47587**	**740**	**-40**	**1456**	**49538**	**214**	**265**	**1999**	**51642**	**1**	**416**

* 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	1770	1754	1910	40.07	1670	39.50	0.56
	Rihand I STPS (2*500)	1000	922	999	998	20.16	840	20.46	-0.30
	Rihand II STPS (2*500)	1000	942	875	809	20.47	853	20.73	-0.26
	Rihand III STPS (2*500)	1000	471	439	501	10.19	425	10.20	-0.01
	Dadri I STPS (4*210)	840	769	475	469	10.29	429	9.55	0.74
	Dadri II STPS (2*490)	980	929	552	527	12.33	514	12.71	-0.38
	Unchahar I TPS (2*210)	420	350	243	275	5.63	235	5.71	-0.08
	Unchahar II TPS (2*210)	420	382	234	288	5.70	238	5.57	0.13
	Unchahar III TPS (1*210)	210	192	118	116	2.58	108	2.59	0.00
	Unchahar IV TPS(1*500)	500		0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjhar) (3*500)	1500	955	705	766	16.43	685	17.78	-1.35
	Dadri GPS (4*130.19+2*154.51)	830	768	170	116	2.95	123	3.14	-0.20
	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	0.02	1	0.02	0.00
	Unchahar Solar(10)	10	1	0	0	0.04	2	0.02	0.01
	Singrauli Solar(15)	15	2	0	0	0.03	1	0.04	-0.02
	KHEP(4*200)	800	814	869	868	20.84	868	19.53	1.31
	Sub Total (A)	**12612**	**10270**	**7433**	**7643**	**168**	**6988**	**168**	**0.15**
B. NPC	NAPS (2*220)	440	380	420	421	9.10	379	9.12	-0.02
	RAPS- B (2*220)	440	362	408	408	8.79	366	8.64	0.14
	RAPS- C (2*220)	440	430	451	451	9.68	403	10.32	-0.64
	Sub Total (B)	**1320**	**1172**	**1279**	**1280**	**27.57**	**1149**	**28.08**	**-0.52**
C. NHPC	Chamera I HPS (3*180)	540	535	543	543	12.98	541	12.83	0.14
	Chamera II HPS (3*100)	300	300	302	302	7.20	300	7.20	0.00
	Chamera III HPS (3*77)	231	230	238	237	5.62	234	5.50	0.11
	Bairasuil HPS(3*60)	180	179	187	185	4.25	177	4.21	0.04
	Salal-HPS (6*115)	690	670	678	682	16.36	682	16.08	0.28
	Tanakpur-HPS (3*31.4)	94	89	95	93	2.21	92	2.13	0.07
	Uri-I HPS (4*120)	480	475	482	480	11.68	487	11.40	0.28
	Uri-II HPS (4*60)	240	239	244	241	5.76	240	5.72	0.03
	Dhauliganga-HPS (4*70)	280	281	284	284	6.67	278	6.65	0.02
	Dulhasti-HPS (3*130)	390	387	400	401	9.43	393	9.24	0.19
	Sewa-II HPS (3*40)	120	126	131	133	3.14	131	3.02	0.11
	Parbati 3 (4*130)	520	514	514	128	6.80	284	6.71	0.10
	Sub Total (C)	**4065**	**4023**	**4099**	**3708**	**92**	**3837**	**91**	**1.39**
D.SJVNL	NJPC (6*250)	1500	1513	1600	1571	36.71	1530	36.27	0.44
	Rampur HEP (6*68.67)	412	416	429	430	10.15	423	9.98	0.17
	Sub Total (D)	**1912**	**1929**	**2029**	**2001**	**46.86**	**1952**	**46.25**	**0.61**
E. THDC	Tehri HPS (4*250)	1000	840	852	637	17.00	708	17.14	-0.14
	Koteshwar HPS (4*100)	400	301	303	307	6.90	288	7.00	-0.10
	Sub Total (E)	**1400**	**1141**	**1155**	**944**	**23.90**	**996**	**24.14**	**-0.24**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	955	1321	838	23.01	959	22.93	0.09
	Dehar HPS (6*165)	990	620	825	560	15.06	627	14.88	0.18
	Pong HPS (6*66)	396	111	264	65	2.75	114	2.67	0.07
	Sub Total (F)	**2765**	**1687**	**2410**	**1463**	**40.82**	**1701**	**40.48**	**0.34**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	231	229	5.51	229	5.09	0.41
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.18	1091	26.08	0.09
	Malana Stg-II HPS (2*50)	100	0	112	112	2.65	110	2.50	0.14
	Shree Cement TPS (2*150)	300	0	94	140	2.27	94	2.35	-0.08
	Budhil HPS(IPP) (2*35)	70	0	76	75	1.79	75	1.79	0.00
	Sub Total (G)	**1662**	**0**	**1612**	**1657**	**38.38**	**1599**	**37.82**	**0.57**
H. Total Regional Entities (A-G)		**25737**	**20220**	**20017**	**18696**	**437.33**	**18222**	**435.02**	**2.30**

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	320	320	7.35	306
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	376	374	8.45	352
	Goindwal(GVK) (2*270)	540	180	246	4.21	175
	Rajpura (2*700)	1400	1320	660	22.33	930
	Talwandi Saboo (3*660)	1980	1024	1800	35.24	1468

	Thermal (Total)	**6560**	**3220**	**3400**	77.55	**3231**
	Total Hydro	1000	803	836	20.29	845
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.09	4
	Solar	560	0	0	0.07	3
	Renewable(Total)	**848**	**0**	**0**	**0.16**	**7**
	Total Punjab	**8408**	**4023**	**4236**	**98.00**	**4083**
Haryana	Panipat TPS (2*210+2*250)	920	755	762	17.71	738
	DCRTPP (Yamuna nagar) (2*300)	600	467	525	11.65	486
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	381	762	14.26	594
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	555	585	10.82	451
	Thermal (Total)	**4497**	**2158**	**2634**	**54.45**	**2269**
	Total Hydro	62	33	33	0.83	34
	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**	**2191**	**2667**	**55.27**	**2303**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	146	145	3.69	154
	suratgarh TPS (6*250)	1500	174	175	4.32	180
	Chabra TPS (4*250)	1000	1152	1088	25.40	1059
	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	180	164	4.25	177
	RAPS A (NPC) (1*100+1*200)	300	161	162	4.01	167
	Barsingsar (NLC) (2*125)	250	204	210	4.33	180
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	405	378	9.32	389
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	403	404	9.69	404
	Kawai(Adani) (2*660)	1320	882	860	21.12	880
	Thermal (Total)	**9536**	**3707**	**3586**	**86.13**	**3589**
	Total Hydro	550	0	30	0.12	5
	Wind power	4017	701	687	11.04	460
	Biomass	99	24	24	0.58	24
	Solar	1295	0	0	2.37	99
	Renewable/Others (Total)	5411	725	711	14.00	583
	Total Rajasthan	**15497**	**4432**	**4327**	**100.24**	**4177**
UP	Anpara TPS (3*210+2*500)	1630	484	471	11.50	479
	Obra TPS (2*50+2*94+5*200)	1194	441	455	10.32	430
	Paricha TPS (2*110+2*220+2*250)	1160	794	798	18.18	757
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	452	445	10.35	431
	Tanda TPS (NTPC) (4*110)	440	282	281	6.78	283
	Roza TPS (IPP) (4*300)	1200	801	805	18.79	783
	Anpara-C (IPP) (2*600)	1200	971	819	19.86	827
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	892	888	21.56	899
	Lalitpur TPS(3*660)	1980	574	612	16.48	686
	Bara(2*660)	1320	574	592	14.16	590
	Thermal (Total)	**12449**	**6265**	**6166**	**147.96**	**6165**
	Vishnuparyag HPS (IPP)(4*110)	440	395	435	10.35	431
	Alaknanada(4*82.5)	330	343	341	8.19	341
	Other Hydro	527	185	274	4.80	200
	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**	**7188**	**7216**	**171.29**	**7137**
Uttarakhand	Other Hydro	1250	888	860	17.81	742
	Total Gas	225	186	276	4.68	195
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.74	31
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.74	31
	Total Uttarakhand	**1882**	**1074**	**1136**	**23.23**	**968**
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	74	74	1.81	76
	Pragati Gas Turbine (2x104+ 1x122)	330	154	154	3.75	156
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	249	499	9.59	400
	Badarpur TPS (NTPC) (3*95+2*210)	705	318	334	7.18	299
	Thermal (Total)	**2917**	**794**	**1061**	**22.32**	**930**
	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**	**794**	**1061**	**22.32**	**930**
HP	Baspa HPS (IPP) (3*100)	300	321	331	7.58	316
	Malana HPS (IPP) (2*43)	86	107	108	2.56	106
	Other Hydro (>25MW)	372	355	367	8.50	354
	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	350	250	7.59	316
	Renewable(Total)	**486**	**350**	**250**	**7.59**	**316**
	Total HP	**1244**	**1133**	**1056**	**26.22**	**1093**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	881	881	21.15	881
	Other Hydro/IPP(including 98 MW Small Hydro)	308	200	200	4.81	201
	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**	**1081**	**1081**	**26**	**1082**
Total State Control Area Generation		**50818**	**21917**	**22780**	**522.53**	**21772**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**7862**	**9051**	**179.25**	**7469**
Total Regional Availability(Gross)		**76555**	**49796**	**50526**	**1139.10**	**47463**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**12005**	**10425**	**258.82**	**10784**
State Control Area Hydro	**7243**	**5047**	**5222**	**114.56**	**4999**
Total Regional Hydro	**19477**	**17052**	**15647**	**373.38**	**15783**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.08**	**3**
State Control Area Renewable	**7436**	**1075**	**961**	**22.48**	**937**
Total Regional Renewable	**7466**	**1075**	**961**	**22.56**	**940**

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)	-500	-250	0	500	0.00	9.63	-9.63
765 KV Gwalior-Agra (D/C)	2408	2307	2413	0	45.02	0.00	45.02
400 KV Zerda-Kankroli	-92	-43	0	229	0.00	2.80	-2.80
400 KV Zerda-Bhinmal	-87	-23	15	244	0.00	2.64	-2.64
220 KV Auraiya-Malanpur	10	14	0	41	0.08	0.00	0.08
220 KV Badod-Kota/Morak	117	121	210	0	2.94	0.00	2.94
Mundra-Mohindergarh(HVDC Bipole)	1905	2003	2511	0	46.51	0.00	46.51
400 KV RAPPC-Sujalpur	100	230	230	0	3.44	0.00	3.44
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	523	854	897	0	15.13	0.00	15.13
+/- 800 kV HVDC Champa-Kurushetra	500	500	1000	0	11.48	0	11.48
Sub Total WR	**4884**	**5713**			**124.60**	**15.06**	**109.54**
400 kV Sasaram - Varanasi	175	181	195	0	4.47	0.00	4.47
400 kV Sasaram - Allahabad	68	62	85	0	1.29	0.00	1.29
400 KV MZP- GKP (D/C)	432	550	620	0	11.22	0.00	11.22
400 KV Patna-Balia(D/C) X 2	632	603	665	0	13.19	0.00	13.19
400 KV B'Sharif-Balia (D/C)	294	359	370	0	7.31	0.00	7.31
765 KV Gaya-Balia	338	352	377	0	6.75	0.00	6.75
765 KV Gaya-Varanasi (D/C)	347	383	383	0	6.62	0.00	6.62
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	-26	-34	0	-34	0.00	0.56	-0.56
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-161	-121	0	-156	0.00	2.61	-2.61
400 KV Barh -GKP (D/C)	450	414	450	0	8.59	0.00	8.59
400 kV B'Sharif - Varanasi (D/C)	-71	-111	8	145	0.00	1.86	-1.86
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**2478**	**2638**			**60.40**	**5.03**	**55.37**
+/- 800 KV HVDC BiswanathCharialli-Agra	500	700	700	0.00	14.35	0.00	14.35
Sub Total NER	**500**	**700**			**14.35**	**0.00**	**14.35**
Total IR Exch	**7862**	**9051**			**199.34**	**20.09**	**179.25**

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
38.46	3.69	42.15	15.02	9.60	-9.42	-0.37	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incld s Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
47.75	142.48	190.22	69.72	109.54	179.25	21.97	-32.94	-10.97

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	-24	-12	0	27	0	0	-0.45

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	0.00	1.60	30.66	68.26	26.03	5.09	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)	
50.16	16.45	49.79	20.46	50.02	0.031	0.051	50.11	49.85	31.74

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	416	5:06	395	23:26	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	418	18:30	366	21:16	0.0	0.0	0.0	0.0	0.0
Kanpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Dadri	400	415	17:04	398	0:06	0.0	0.0	0.0	0.0	0.0
Ballabhgarh	400	418	17:05	398	0:07	0.0	0.0	0.0	0.0	0.0
Bawana	400	411	17:39	394	0:06	0.0	0.0	0.0	0.0	0.0
Bassi	400	426	16:03	405	0:06	0.0	0.0	43.2	0.0	43.2
Hissar	400	411	7:01	395	0:09	0.0	0.0	0.0	0.0	0.0
Moga	400	408	7:01	396	0:04	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	407	5:32	394	0:06	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	411	18:05	400	0:08	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	410	5:07	401	20:32	0.0	0.0	0.0	0.0	0.0
Wagoora	400	405	4:00	388	20:32	0.0	4.1	0.0	0.0	0.0
Amritsar	400	410	7:39	398	0:08	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	408	7:01	398	0:04	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	420	18:27	397	0:05	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	784	7:00	741	20:18	0.0	0.2	0.0	0.0	0.0
Balia	765	787	7:01	754	20:16	0.0	0.0	0.0	0.0	0.0
Moga	765	784	7:00	758	0:08	0.0	0.0	0.0	0.0	0.0
Agra	765	797	16:02	752	20:41	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	799	7:01	768	19:55	0.0	0.0	0.0	0.0	0.0

Unnao	765	772	17:04	742	20:04	0.0	0.0	0.0	0.0	0.0
Lucknow	765	790	17:05	757	20:05	0.0	0.0	0.0	0.0	0.0
Meerut	765	800	18:00	763	0:07	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	798	7:01	762	20:43	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	796	17:59	758	0:05	0.0	0.0	0.0	0.0	0.0
Anta	765	792	7:00	770	0:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	803	16:03	765	20:25	0.0	0.0	2.3	0.0	2.3

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	490.51	748.75	484.91	585.65	1589.42	778.71
Pong	426.72	384.05	406.28	379.44	399.18	203.01	1422.27	185.48
Tehri	829.79	740.04	787.55	419.46	781.55	340.16	633.25	449.00
Koteshwar	612.50	598.50	609.84	4.44	609.56	4.44	449.00	455.32
Chamera-I	760.00	748.75	757.30	0.00	0.00	0.00	443.95	351.99
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	521.29	10.67	506.42	6.20	437.24	421.56

*** 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	2102	11	0	1426	68	0	47.76	0.86	48.62
Delhi	918	-276	0	694	-275	0	19.33	-5.46	13.87
Haryana	936	131	0	815	29	0	18.80	2.49	21.29
HP	-1525	-174	0	-1332	-283	0	-31.02	-6.86	-37.88
J&K	-787	-493	0	-787	-5	0	-18.88	-4.14	-23.02
CHD	0	-25	0	0	-10	0	0.00	-0.26	-0.26
Rajasthan	-207	-275	0	-207	-812	0	-4.97	3.38	-1.59
UP	434	1468	0	1386	891	0	8.29	9.76	18.05
Uttarakhand	-266	27	0	-266	123	0	-6.38	2.06	-4.32
Total	**1606**	**393**	**0**	**1730**	**-274**	**0**	**32.93**	**1.83**	**34.76**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	2182	1426	70	11	0	0
Delhi	1055	634	81	-628	0	0
Haryana	936	737	186	-130	0	0
HP	-1112	-1549	-163	-475	0	0
J&K	-787	-787	0	-499	0	0
CHD	0	0	0	-55	0	0
Rajasthan	-207	-207	437	-823	0	0
UP	1593	63	1468	-82	0	0
Uttarakhand	-266	-266	140	10	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	**0.00%**

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

WR	**0.00%**
ER	**0.00%**
Simultaneous	**1.74%**

(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	1	23
Haryana	1	19
Rajasthan	2	16
Delhi	2	28
UP	0	9
Uttarakhand	4	26
HP	3	33
J & K	2	34
Chandigarh	4	26

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 23.07.2017 :

XVI. Synchronisation of new generating units :

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

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 : 23.07.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER