

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188862

Power Supply Position in Northern Region for 24.07.2017

Date of Reporting - 25.07.2017



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
48048	1892	49941	50.00	45588	221	45809	50.02	1111.57	8.88

*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 MU:

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	74.77	20.44	0.13	95.34	132.23	133.04	0.82	228.38	0.00
Haryana	50.89	0.85	0.00	51.74	124.99	126.64	1.65	178.38	0.00
Rajasthan	79.10	0.00	17.72	96.82	55.87	58.16	2.29	154.98	0.00
Delhi	20.93		0.00	20.93	85.62	83.94	-1.68	104.88	0.12
UP	152.85	23.99	0.00	176.84	159.31	159.84	0.52	336.67	0.00
Uttarakhand		17.60	5.63	23.24	14.33	15.79	1.46	39.03	0.00
HP		18.88	7.60	26.47	-2.56	-0.21	2.35	26.27	0.00
J & K		25.92	0.00	25.92	13.40	11.03	-2.37	36.95	8.76
Chandigarh				0.00	7.03	6.03	-1.00	6.03	0.00
Total	378.55	107.67	31.08	517.30	590.22	594.27	4.05	1111.57	8.88

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

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

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	9731	0	78	1428	8637	0	57	2105	10261	15	0
Haryana	7850	0	215	868	7443	0	-145	1139	8392	14	0
Rajasthan	6452	0	123	-355	6667	0	341	-346	7127	23	0
Delhi	4398	0	-179	551	4241	0	-22	647	5012	24	0
UP	14664	1425	-67	221	15018	0	-128	1981	15808	1	0
Uttarakhand	1790	0	-127	-214	1452	0	151	-348	1790	20	0
HP	1033	0	93	-1746	650	0	85	-1691	1429	17	0
J&K	1869	467	23	-791	1252	221	-66	-1278	1869	20	467
Chandigarh	262	0	-47	0	228	0	-50	-10	304	15	0
Total	48048	1892	113	-38	45588	221	224	2199	50004	21	1382

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

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III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentoout(MW)	Schedule Net MU	UI	
								Net MU	UI
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1770	1884	1280	36.40	1517	36.15		0.25
Rihand I STPS (2*500)	1000	923	1000	889	19.93	830	20.19		-0.26
Rihand II STPS (2*500)	1000	943	1016	941	20.74	864	20.94		-0.20
Rihand III STPS (2*500)	1000	471	519	344	9.61	401	9.66		-0.05
Dadri I STPS (4*210)	840	769	464	457	11.17	465	10.97		0.19
Dadri II STPS (2*490)	980	929	577	533	14.09	587	14.45		-0.36
Unchahar I TPS (2*210)	420	350	329	249	5.89	245	6.06		-0.17
Unchahar II TPS (2*210)	420	358	324	139	5.85	244	5.68		0.17
Unchahar III TPS (1*210)	210	192	176	120	2.91	121	2.99		-0.08
Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00		0.00
ISTPP (Jhajhar) (3*500)	1500	948	915	572	15.14	631	16.05		-0.91
Dadri GPS (4*130, 19*2*154.51)	830	768	180	112	3.14	131	3.23		-0.09
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	2	0	0	0.03	1	0.04		-0.01
Singrauli Solar(15)	15	1	0	0	0.02	1	0.03		-0.01
KHEP(4*200)	800	814	867	858	20.83	868	19.53		1.31
Sub Total (A)	12612	10239	8251	6494	166	6907	166		-0.22
B. NPC									
NAPS (2*220)	440	380	413	424	9.17	382	9.12		0.05
RAPS- B (2*220)	440	362	409	412	8.80	367	8.64		0.15
RAPS- C (2*220)	440	430	455	452	9.65	402	10.32		-0.67
Sub Total (B)	1320	1172	1277	1288	27.61	1151	28.08		-0.47
C. NHPC									
Chamera I HPS (3*180)	540	535	546	540	12.98	541	12.83		0.15
Chamera II HPS (3*100)	300	300	302	302	7.20	300	7.20		0.00
Chamera III HPS (3*77)	231	230	238	235	5.63	235	5.47		0.16
Bairasuli HPS(3*60)	180	179	185	168	3.98	166	3.90		0.08
Salal-HPS (6*115)	690	661	678	670	16.24	677	15.87		0.38
Tanakpur-HPS (3*31.4)	94	89	95	94	2.22	93	2.13		0.10
Uri-I HPS (4*120)	480	476	482	480	11.66	486	11.42		0.25
Uri-II HPS (4*60)	240	239	243	241	5.74	239	5.72		0.02
Dhauliganga-HPS (4*70)	280	281	288	263	6.74	281	6.65		0.09
Dulhasti-HPS (3*130)	390	387	401	400	9.44	393	9.24		0.19
Sewa-II HPS (3*40)	120	126	133	133	3.15	131	3.02		0.13
Parbati 3 (4*130)	520	514	514	256	8.00	334	7.94		0.06
Sub Total (C)	4065	4014	4105	3782	93	3874	91		1.59
D. SJVNL									
NJPC (6*250)	1500	1513	1607	1522	36.61	1525	36.31		0.29
Rampur HEP (6*68.67)	412	416	442	429	10.23	426	9.98		0.25
Sub Total (D)	1912	1929	2049	1951	46.83	1951	46.29		0.54
E. THDC									
Tehri HPS (4*250)	1000	856	861	615	18.46	769	18.74		-0.28
Koteswar HPS (4*100)	400	304	394	302	7.18	299	7.29		-0.11
Sub Total (E)	1400	1160	1255	917	25.64	1068	26.03		-0.39
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	931	1320	838	22.39	933	22.35		0.04
Dehar HPS (6*165)	990	613	825	560	14.84	618	14.70		0.14
Pong HPS (6*66)	396	104	264	66	2.56	107	2.50		0.06
Sub Total (F)	2765	1648	2409	1464	39.79	1658	39.54		0.25
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	231	231	5.51	229	5.09		0.41
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.19	1091	26.08		0.11
Malana Stg-II HPS (2*50)	100	0	112	112	2.65	110	2.50		0.15
Shree Cement TPS (2*150)	300	0	0	0	0.00	0	2.39		-2.39
Budhli HPS(IPP) (2*35)	70	0	75	75	1.79	74	1.79		0.00
Sub Total (G)	1662	0	1518	1518	36.14	1506	37.85		-1.72
H. Total Regional Entities (A-G)	25737	20161	20865	17414	434.76	18115	435.18		-0.42
I. State Entities									
Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sento ut MW)				
Punjab									
Guru Gobind Singh TPS (Ropar) (6*210)	1260	340	320	7.25	302				
Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.03	-1				
Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	378	373	8.60	358				
Goindwal(GVK) (2*270)	540	210	0	4.00	166				
Rajpura (2*700)	1400	1320	660	24.99	1041				
Talwandi Saboo (3*660)	1980	1200	924	29.96	1248				

	Thermal (Total)	6560	3448	2277	74.77	3115	
	Total Hydro	1000	846	869	20.44	852	
	Wind Power	0	0	0	0.00	0	
	Biomass	288	0	0	0.07	3	
	Solar	560	0	0	0.06	3	
	Renewable(Total)	848	0	0	0.13	5	
	Total Punjab	8408	4294	3146	95.34	3972	
Haryana	Panipat TPS (2*210+2*250)	920	789	753	18.02	751	
	DCRTPP (Yamuna nagar) (2*300)	600	509	449	11.77	491	
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0	
	RGTPP (khedar) (IPP) (2*600)	1200	419	377	10.06	419	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP) (2*660)	1320	550	374	11.05	460	
	Thermal (Total)	4497	2267	1953	50.89	2120	
	Total Hydro	62	35	36	0.85	35	
	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	2302	1989	51.74	2156	
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	163	146	3.70	154	
	suratgarh TPS (6*250)	1500	195	174	4.49	187	
	Chabra TPS (4*250)	1000	485	1019	21.50	896	
	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	182	188	4.57	191	
	RAPS A (NPC) (1*100+1*200)	300	164	164	4.05	169	
	Barsingar (NLC) (2*125)	250	205	166	4.77	199	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	475	373	9.16	382	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	-1	400	4.73	197	
	Kawai(Adani) (2*660)	1320	1014	862	22.12	922	
	Thermal (Total)	9536	2882	3492	79.10	3296	
	Total Hydro	550	0	0	0.00	0	
	Wind power	4017	828	1156	14.74	614	
	Biomass	99	26	26	0.61	26	
	Solar	1295	0	0	2.37	99	
	Renewable/Others (Total)	5411	854	1182	17.72	738	
	Total Rajasthan	15497	3736	4674	96.82	4034	
UP	Anpara TPS (3*210+2*500)	1630	461	481	11.50	479	
	Obra TPS (2*50+2*94+5*200)	1194	424	439	10.38	432	
	Paricha TPS (2*110+2*220+2*250)	1160	747	599	15.36	640	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaganj TPS (1*60+1*105+2*250)	665	454	322	8.97	374	
	Tanda TPS (NTPC) (4*110)	440	290	214	6.34	264	
	Roza TPS (IPP) (4*300)	1200	801	569	16.83	701	
	Anpara-C (IPP) (2*600)	1200	1107	972	23.75	990	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	913	898	21.56	898	
	Lalitpur TPS(3*660)	1980	1183	1083	24.35	1015	
	Bara(2*660)	1320	575	604	13.82	576	
	Thermal (Total)	12449	6955	6181	152.85	6369	
	Vishnuparyag HPS (IPP)(4*110)	440	405	345	10.35	431	
	Alaknanda(4*82.5)	330	340	341	8.14	339	
	Other Hydro	527	324	225	5.50	229	
	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	8024	7092	176.84	7368	
	Uttarakhand	Other Hydro	1250	862	582	17.60	733
Total Gas		225	273	189	5.12	213	
Wind Power		0	0	0	0.00	0	
Biomass		127	0	0	0.00	0	
Solar		100	0	0	0.52	21	
Small Hydro (< 25 MW)		180	0	0	0.00	0	
Renewable(Total)		407	0	0	0.52	21	
Total Uttarakhand		1882	1135	771	23.24	968	
Delhi		Raighat TPS (2*67.5)	135	0	0	-0.01	0
		Delhi Gas Turbine (6x30 + 3x34)	282	71	70	1.78	74
	Pragati Gas Turbine (2x104+ 1x122)	330	155	154	3.73	156	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	400	500	7.60	317	
	Badarpur TPS (NTPC) (3*95+2*210)	705	340	340	7.84	327	
	Thermal (Total)	2917	966	1064	20.93	872	
	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	966	1064	20.93	872		
HP	Baspa HPS (IPP) (3*100)	300	322	302	7.61	317	
	Malana HPS (IPP) (2*43)	86	109	103	2.54	106	
	Other Hydro (>25MW)	372	391	370	8.73	364	
	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	0	313	7.60	317	
	Renewable(Total)	486	0	313	7.60	317	
	Total HP	1244	822	1088	26.47	1103	
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	881	881	21.11	880
Other Hydro/IPP(including 98 MW Small Hydro)		308	202	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	1083	1081	26	1080		
Total State Control Area Generation		50818	22362	20905	517.30	21554	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2432	3819	175.46	7311	
Total Regional Availability(Gross)		76555	45659	42138	1127.52	46980	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	12128	10415	260.42	10851
State Control Area Hydro	7243	4990	4756	115.27	5038
Total Regional Hydro	19477	17118	15170	375.70	15889

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.07	3
State Control Area Renewable	7436	854	1495	25.96	1082
Total Regional Renewable	7466	854	1495	26.04	1085

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-50	-300	250	500	1.28	6.10	-4.82
765 KV Gwalior-Agra (D/C)	-1967	-2223	2375	0	45.63	0.00	45.63
400 KV Zerda-Kankroli	57	-46	161	-192	0.03	0.00	0.03
400 KV Zerda-Bhinmal	-50	-50	175	246	0.00	0.21	-0.21
220 KV Auraiya-Malanpur	-28	2	0	47	0.00	0.21	-0.21
220 KV Badod-Kota/Morak	142	110	257	0	3.68	0.00	3.68
Mundra-Mohindergarh(HVDC Bipole)	0	1500	2510	0	16.33	0.00	16.33
400 KV RAPP-Subalpur	74	90	202	0	1.95	0.00	1.95
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	933	726	1320	0	20.18	0.00	20.18
+/- 800 kV HVDC Champa-Kurushetra	1000	500	1000	0	16.51	0	16.51
Sub Total WR	111	309			105.58	6.51	99.07
400 kV Sasaram - Varanasi	189	161	193	0	4.22	0.00	4.22
400 kV Sasaram - Allahabad	-53	-86	96	0	1.68	0.00	1.68
400 KV MZP- GKP (D/C)	338	622	622	0	11.13	0.00	11.13
400 KV Patna-Balia(D/C) X 2	376	514	517	0	10.82	0.00	10.82
400 KV B Sharif-Balia (D/C)	233	404	434	0	8.24	0.00	8.24
765 KV Gaya-Balia	232	387	390	0	6.51	0.00	6.51
765 KV Gaya-Varanasi (D/C)	227	411	411	0	7.91	0.00	7.91
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	-8	-18	0	-22	0.00	-0.38	0.38
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-105	-104	29	124	0.00	1.16	-1.16
400 KV Barh -GKP (D/C)	364	366	426	0	8.19	0.00	8.19
400 kV B Sharif - Varanasi (D/C)	28	153	43	0	3.16	0.00	3.16
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1821	2810			62.82	0.78	62.04
+/- 800 KV HVDC BiswanathChariali-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	2432	3819			182.75	7.29	175.46

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
38.98	3.70	42.67	8.22	6.31	-6.72	-0.24	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
44.17	138.54	182.71	76.39	99.07	175.46	32.22	-39.47	-7.25

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-28	0	0	28	0	0	-0.44

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	0.07	1.76	35.52	73.87	20.83	3.55	0.08	0.00

Frequency (Hz)				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
Freq	Time	Freq	Time	Hz	Index				
50.21	17.43	49.78	18.55	50.02	0.028	0.051	50.10	49.90	26.13

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	418	8:01	398	0:21	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	415	5:19	396	14:34	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	413	5:17	396	14:37	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	418	5:19	396	14:33	0.0	0.0	0.0	0.0	0.0
Bawana	400	410	5:19	394	14:35	0.0	0.0	0.0	0.0	0.0
Bassi	400	423	3:57	402	22:17	0.0	0.0	7.5	0.0	7.5
Hissar	400	411	5:20	395	12:43	0.0	0.0	0.0	0.0	0.0
Moga	400	408	3:45	395	14:44	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	409	5:37	394	12:41	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	412	3:56	397	14:46	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	412	5:18	402	14:35	0.0	0.0	0.0	0.0	0.0
Wagoora	400	406	2:21	391	20:27	0.0	0.0	0.0	0.0	0.0
Amritsar	400	411	3:46	398	14:34	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	409	3:46	396	14:41	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	416	5:19	397	14:33	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	5:19	750	21:08	0.0	0.0	0.0	0.0	0.0
Balia	765	788	5:19	758	13:44	0.0	0.0	0.0	0.0	0.0
Moga	765	785	5:20	758	14:36	0.0	0.0	0.0	0.0	0.0
Agra	765	794	5:20	763	11:23	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	795	5:14	769	12:30	0.0	0.0	0.0	0.0	0.0

Unnao	765	776	5:20	740	21:12	0.0	0.5	0.0	0.0	0.0
Lucknow	765	793	5:21	757	21:13	0.0	0.0	0.0	0.0	0.0
Meerut	765	797	5:20	763	21:06	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	795	5:19	765	21:12	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	794	5:20	757	14:34	0.0	0.0	0.0	0.0	0.0
Anta	765	791	5:20	770	14:35	0.0	0.0	0.0	0.0	0.0
Phagi	765	799	5:20	771	22:13	0.0	0.0	0.0	0.0	0.0

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

IX. Reservoir Parameters:

Name of Reservoir	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	491.18	768.41	485.02	585.65	1637.28	753.99
Pong	426.72	384.05	406.93	397.88	399.33	203.01	1469.78	172.65
Tehri	829.79	740.04	788.50	432.43	783.05	365.45	714.26	485.00
Koteswar	612.50	598.50	609.88	4.44	609.18	4.44	485.00	474.00
Chamera-I	760.00	748.75	757.60	0.00	0.00	0.00	461.95	352.41
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	521.33	10.54	506.21	7.01	607.45	419.57

* 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	2105	0	0	1428	0	0	46.20	0.16	46.36
Delhi	919	-272	0	540	11	0	17.63	-1.28	16.35
Haryana	997	142	0	738	130	0	18.63	2.89	21.52
HP	-1501	-190	0	-1339	-407	0	-31.97	-5.29	-37.26
J&K	-786	-493	0	-786	-5	0	-18.86	-5.01	-23.87
CHD	0	-10	0	0	0	0	0.00	0.08	0.08
Rajasthan	-207	-139	0	-207	-148	0	-6.65	4.32	-2.34
UP	511	1470	0	190	31	0	4.71	7.57	12.29
Uttarakhand	-265	-83	0	-265	51	0	-6.37	1.28	-5.08
Total	1773	427	0	299	-337	0	23.32	4.72	28.04

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	2264	1404	57	0	0	0
Delhi	1056	540	150	-418	0	0
Haryana	997	738	217	-324	0	0
HP	-1192	-1542	-131	-412	0	0
J&K	-786	-786	0	-493	0	0
CHD	0	0	39	-15	0	0
Rajasthan	-207	-411	383	-459	0	0
UP	1484	73	1470	-82	0	0
Uttarakhand	-265	-265	139	-83	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	3.13%

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

WR	0.00%
ER	0.00%
Simultaneous	19.79%

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

Rihand - Dadri	0.00%
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XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	0	10
Haryana	2	18
Rajasthan	4	39
Delhi	4	25
UP	0	11
Uttarakhand	4	32
HP	3	27
J & K	5	26
Chandigarh	3	34

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 24.07.2017 :

XVI. Synchronisation of new generating units :

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

1. 200 MVA 400/132 KV ICT2 at Agra South UP First time charged at no load from 400 KV side at 1627 hrs of 24.07.17

2. 765 KV Gr. NoidaUP-Mainpuri UP line along with line reactor at G. Noida first time test charged at 1920hrs of 24.07.17 upto 50 KM from G. Noida end

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 : 24.07.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER