पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 31.07.2016
Date of Reporting : 01.08.2016

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
43247	612	43859	50.05	42771	267	43038	50.03	1009.2	8.61

* 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	81.70	16.14		97.84	132.91	133.02	0.12	230.86	0.00
Haryana	18.28	0.89		19.16	139.51	138.62	-0.89	157.78	0.00
Rajasthan	74.61	0.34	13.78	88.72	73.17	74.79	1.62	163.51	0.00
Delhi	17.05			17.05	70.23	68.26	-1.97	85.32	0.03
UP	108.36	19.97		128.33	147.79	147.84	0.05	276.17	0.00
Uttarakhand		20.88		20.88	10.88	11.33	0.45	32.21	0.00
HP		25.78		25.78	-2.16	-1.83	0.33	23.95	0.00
J & K		22.24	0.00	22.24	14.37	12.11	-2.26	34.36	8.59
Chandigarh				0.00	6.27	5.05	-1.22	5.05	0.00
Total	**300.00**	**106.24**	**13.78**	**420.01**	**592.98**	**589.20**	**-3.78**	**1009.21**	8.61

* 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	9843	0	-134	1491	8972	0	34	1893	10097	23:00	0
Haryana	7020	0	62	1984	6748	0	129	2240	7721	21:00	0
Rajasthan	6588	189	169	112	6900	0	72	375	7302	1:00	0
Delhi	3636	6	-207	400	3473	12	-62	145	4182	24:00	0
UP	11575	0	-217	562	13022	0	-120	662	13310	1:00	0
Uttarakhand	1591	0	230	-105	1358	0	-27	-304	1591	20:00	0
HP	890	0	-44	-1656	926	0	18	-1767	1126	10:00	0
J&K	1878	417	38	-684	1162	255	-188	-1148	1731	21:00	433
Chandigarh	227	0	-61	0	210	0	-34	-8	257	22:00	0
Total	**43247**	**612**	**-163**	**2105**	**42771**	**267**	**-178**	**2087**	**45617**	**23:00**	**332**

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

Diversity is 1.04

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	1885	2024	1783	39.62	1651	39.45	0.17
	Rihand I STPS (2*500)	1000	940	874	889	17.99	750	18.13	-0.14
	Rihand II STPS (2*500)	1000	963	805	766	16.94	706	17.55	-0.61
	Rihand III STPS (2*500)	1000	963	702	867	17.28	720	17.87	-0.60
	Dadri I STPS (4*210)	840	805	157	161	3.65	152	3.50	0.15
	Dadri II STPS (2*490)	980	960	704	694	15.80	658	16.28	-0.48
	Unchahar I TPS (2*210)	420	350	280	247	5.56	232	5.88	-0.32
	Unchahar II TPS (2*210)	420	400	301	266	5.83	243	6.72	-0.90
	Unchahar III TPS (1*210)	210	200	148	132	2.94	123	3.36	-0.42
	ISTPP (Jhajjhar) (3*500)	1500	1425	623	619	13.60	567	13.92	-0.32
	Dadri GPS (4*130.19+2*154.51)	830	792	159	178	3.73	156	3.70	0.04
	Anta GPS (3*88.71+1*153.2)	419	402	199	213	4.66	194	4.80	-0.14
	Auraiya GPS (4*111.19+2*109.30)	663	633	0	0	0.00	0	0.00	0.00
	Dadri Solar(5)	5	1	0	0	0.01	0	0.01	0.00
	Unchahar Solar(10)	10	2	0	0	0.03	1	0.04	-0.01
	Singrauli Solar(15)	15	2	0	0	0.00	0	0.06	-0.05
	KHEP(4*200)	800	801	853	848	18.91	788	19.21	-0.31
	Sub Total (A)	**12112**	**11522**	**7829**	**7663**	**167**	**6939**	**170**	**-3.95**
B. NPC	NAPS (2*220)	440	390	423	422	9.36	390	9.36	0.00
	RAPS- B (2*220)	440	177	204	204	4.26	178	4.25	0.01
	RAPS- C (2*220)	440	410	441	441	9.49	396	9.84	-0.35
	Sub Total (B)	**1320**	**977**	**1068**	**1067**	**23.11**	**963**	**23.45**	**-0.34**
C. NHPC	Chamera I HPS (3*180)	540	540	544	548	13.03	543	12.96	0.07
	Chamera II HPS (3*100)	300	301	309	305	7.25	302	7.22	0.03
	Chamera III HPS (3*77)	231	229	232	229	4.99	208	5.01	-0.02
	Bairasuil HPS(3*60)	180	180	183	125	3.24	135	3.20	0.03
	Salal-HPS (6*115)	690	662	675	673	16.27	678	15.88	0.38
	Tanakpur-HPS (3*31.4)	94	91	97	96	2.29	95	2.15	0.14
	Uri-I HPS (4*120)	480	426	445	429	10.40	433	10.23	0.17
	Uri-II HPS (4*60)	240	235	238	237	5.67	236	5.64	0.03
	Dhauliganga-HPS (4*70)	280	235	215	276	5.62	234	5.65	-0.03
	Dulhasti-HPS (3*130)	390	381	393	397	9.31	388	9.14	0.17
	Sewa-II HPS (3*40)	120	119	128	127	2.77	115	2.86	-0.10
	Parbati 3 (4*130)	520	520	523	0	3.91	163	3.87	0.04
	Sub Total (C)	**4065**	**3919**	**3982**	**3441**	**85**	**3531**	**84**	**0.92**
D.SJVNL	NJPC (6*250)	1500	1605	1619	1620	38.41	1600	38.40	0.00
	Rampur HEP (6*68.67)	412	442	444	446	10.63	443	10.61	0.02
	Sub Total (D)	**1912**	**2047**	**2063**	**2066**	**49.04**	**2043**	**49.01**	**0.03**
E. THDC	Tehri HPS (4*250)	1000	880	891	888	20.60	858	20.57	0.03
	Koteshwar HPS (4*100)	400	325	391	365	7.80	325	7.80	0.00
	Sub Total (E)	**1400**	**1205**	**1282**	**1253**	**28.39**	**1183**	**28.37**	**0.02**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	865	1323	631	20.70	862	20.77	-0.07
	Dehar HPS (6*165)	990	614	825	620	15.07	628	14.74	0.33
	Pong HPS (6*66)	396	170	310	60	4.03	168	4.07	-0.04
	Sub Total (F)	**2765**	**1649**	**2458**	**1311**	**39.79**	**1658**	**39.58**	**0.21**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	230	184	4.84	202	4.90	-0.06
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.14	1089	26.08	0.06
	Malana Stg-II HPS (2*50)	100	0	112	112	2.49	104	2.48	0.01
	Shree Cement TPS (2*150)	300	0	234	234	5.20	217	5.31	-0.11
	Budhil HPS(IPP) (2*35)	70	0	70	69	0.17	7	1.54	-1.37
	Sub Total (G)	**1662**	**0**	**1747**	**1699**	**38.84**	**1618**	**40.30**	**-1.47**
H. Total Regional Entities (A-G)		**25237**	**21320**	**20429**	**18500**	**430.46**	**17936**	**435.03**	**-4.57**

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	690	690	15.52	646
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	90	2.01	84
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	385	396	8.71	363
	Goindwal(GVK) (2*270)	540	246	246	5.88	245
	Rajpura (2*700)	1400	1320	1020	29.31	1221
	Talwandi Saboo (3*660)	1980	1150	616	20.29	845
	Thermal (Total)	**6560**	**3881**	**3058**	**81.70**	**3404**
	Total Hydro	1000	734	597	16.14	673
	Total Punjab	**7560**	**4615**	**3655**	**97.84**	**4077**
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	463	464	10.91	455
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	319	304	7.36	307
	RGTPP (khedar) (IPP) (2*600)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	**4497**	**782**	**768**	**18.28**	**761**
	Total Hydro	62	36	36	0.89	37
	Total Haryana	**4559**	**818**	**804**	**19.16**	**798**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	148	157	3.66	152
	suratgarh TPS (6*250)	1500	183	181	4.39	183
	Chabra TPS (4*250)	1000	706	784	18.31	763
	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	149	156	3.64	152
	RAPS A (NPC) (1*100+1*200)	300	137	127	3.35	140
	Barsingsar (NLC) (2*125)	250	0	0	0.00	0
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	450	452	14.51	605
	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	1065	1056	26.75	1115
	Thermal (Total)	**8876**	**2838**	**2913**	**75**	**3109**
	Total Hydro	550	30	0	0.34	14
	Wind power	3214	349	763	13.35	556
	Biomass	99	18	18	0.43	18
	Solar	730	0	0	0.00	0
	Renewable/Others (Total)	4043	367	781	13.78	574
	Total Rajasthan	**13469**	**3235**	**3694**	**88.72**	**3697**
UP	Anpara TPS (3*210+2*500)	1630	1145	1183	26.40	1100
	Obra TPS (2*50+2*94+5*200)	1194	363	366	8.70	363
	Paricha TPS (2*110+2*220+2*250)	1160	576	736	14.40	600
	Panki TPS (2*105)	210	122	68	2.10	88
	Harduaganj TPS (1*60+1*105+2*250)	665	392	536	10.30	429
	Tanda TPS (NTPC) (4*110)	440	207	270	5.46	227
	Roza TPS (IPP) (4*300)	1200	576	837	15.50	646
	Anpara-C (IPP) (2*600)	1200	1044	1080	20.00	833
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	139	241	4.30	179
	Anpara-D(2*500)	1000	0	0	0.00	0
	Lalitpur TPS(3*660)	1980	0	0	0.00	0
	Bara(2*660)	1320	0	0	0.00	0
	Thermal (Total)	**12449**	**4564**	**5317**	**107**	**4465**
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	10.10	421
	Alaknanada(4*82.5)	330	340	254	7.40	308
	Other Hydro	527	93	152	2.47	103
	Cogeneration	981	50	50	1.20	50
	Total UP	**14727**	**5482**	**6208**	**128**	**5347**
Uttarakhand	Total Hydro	1398	893	902	20.88	870
	Total Gas	225	0	0	0.00	0
	Total Uttarakhand	**1623**	**893**	**902**	**21**	**870**
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.03	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	74	74	1.77	74
	Pragati Gas Turbine (2x104+ 1x122)	330	149	152	2.38	99
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	251	252	6.02	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	320	320	6.92	288
	Thermal (Total)	2917	794	798	17.05	711
	Total Delhi	**2917**	**794**	**798**	**17.05**	**711**
HP	Baspa HPS (IPP) (3*100)	300	301	332	7.58	316
	Malana HPS (IPP) (2*43)	86	102	97	2.29	95
	Other Hydro	878	670	650	15.92	663
	Total HP	**1264**	**1073**	**1079**	**25.78**	**1074**
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733
	Other Hydro/IPP	560	211	140	4.65	194
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	**1500**	**944**	**873**	**22.24**	927
Total State Control Area Generation		**47619**	**17854**	**18013**	**420.01**	**17501**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**6920**	**6865**	**181.97**	**7582**
Total Regional Availability(Gross)		**72856**	**45203**	**43378**	**1032.44**	**43018**

IV. Total Hydro Generation:

Regional Entities Hydro		**12234**	**12081**	**10315**	**254.35**	**10598**
State Control Area Hydro		**7106**	**4578**	**4328**	**106.24**	**4427**
Total Regional Hydro		**19340**	**16659**	**14643**	**360.59**	**15025**

V(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)	-400	-400	0	500	0.00	10.05	-10.05
765 KV Gwalior-Agra (D/C)	2385	2012	2560	0	46.04	0.00	46.04
400 KV Zerda-Kankroli	248	89	248	34	2.39	0.00	2.39
400 KV Zerda-Bhinmal	275	120	292	0	3.33	0.00	3.33
220 KV Auraiya-Malanpur	4	-4	0	42	0.00	0.05	-0.05
220 KV Badod-Kota/Morak	122	139	209	0	3.46	0.00	3.46
Mundra-Mohindergarh(HVDC Bipole)	1798	2204	2206	0.00	46.77	0.00	46.77
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	852	839	1079	0	20.80	0.00	20.80
Sub Total WR	**5284**	**4999**			**122.79**	**10.10**	**112.69**
Pusauli Bypass/HVDC	-109	-118	0	118	0.00	2.23	-2.23
400 KV MZP- GKP (D/C)	270	390	530	0	8.32	0.00	8.32
400 KV Patna-Balia(D/C) X 2	559	443	612	0	12.61	0.00	12.61
400 KV B'Sharif-Balia (D/C)	166	200	337	0	5.50	0.00	5.50
765 KV Gaya-Balia	296	259	354	0	3.25	0.00	3.25
765 KV Gaya-Varanasi (D/C)	-560	-396	612	0	11.19	0.00	11.19
220 KV Pusauli-Sahupuri	169	213	234	0	4.72	0.00	4.72
132 KV K'nasa-Sahupuri	-36	-22	0	36	0.00	0.61	-0.61
132 KV Son Ngr-Rihand	-24	-17	0	29	0.00	0.44	-0.44
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	8	35	107	0	1.59	0.00	1.59
400 KV Barh -GKP (D/C)	502	508	522	0	10.54	0.00	10.54
400 kV B'Sharif - Varanasi (D/C)	-88	-110	210	0	3.48	0.00	3.48
Sub Total ER	**1153**	**1385**			**61.20**	**3.28**	**57.93**
+/- 800 KV BiswanathCharialli-Agra	483	481	489	0.00	11.35	0.00	11.35
Sub Total NER	**483**	**481**			**11.35**	**0.00**	**11.35**
Total IR Exch	**6920**	**6865**			**195.34**	**13.38**	**181.97**

V(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
36.65	3.03	39.68	11.02	20.32	-1.07	-5.46	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
49.64	125.13	174.77	69.27	112.69	181.97	19.64	-12.44	7.19

V(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	-31	-25	0	31	0	1	-0.59

VI. 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	0.60	28.42	70.96	22.84	5.69	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)	
50.18	14.04	49.83	19.11	50.03	0.029	0.047	50.22	50.03	29.04

VII. 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	412	17:02	405	22:21	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	421	5:32	402	22:11	0.0	0.0	1.3	0.0	1.3
Bareilly(PG)400kV	400	421	6:02	405	19:51	0.0	0.0	0.5	0.0	0.5
Kanpur	400	422	17:02	404	19:41	0.0	0.0	2.0	0.0	2.0
Dadri	400	418	5:58	403	19:37	0.0	0.0	0.0	0.0	0.0
Ballabhgarh	400	425	3:59	407	19:44	0.0	0.0	48.0	0.0	48.0
Bawana	400	419	3:59	402	19:39	0.0	0.0	0.0	0.0	0.0
Bassi	400	423	4:01	401	19:41	0.0	0.0	3.3	0.0	3.3
Hissar	400	414	3:53	392	19:43	0.0	0.0	0.0	0.0	0.0
Moga	400	411	4:02	391	19:44	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	413	3:51	396	19:39	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	409	3:17	398	19:43	0.0	0.0	0.0	0.0	0.0
Wagoora	400	408	3:12	391	20:17	0.0	0.0	0.0	0.0	0.0
Amritsar	400	414	4:01	397	19:43	0.0	0.0	0.0	0.0	0.0
Kashipur	400	420	6:06	414	22:53	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	411	4:03	401	19:19	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	417	17:09	398	20:10	0.0	0.0	0.0	0.0	0.0

VIII. 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	792	6:01	755	22:13	0.0	0.0	0.0	0.0	0.0
Balia	765	794	6:01	761	22:13	0.0	0.0	0.0	0.0	0.0
Moga	765	798	3:59	756	19:42	0.0	0.0	0.0	0.0	0.0
Agra	765	795	17:02	758	20:09	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	800	16:32	765	19:43	0.0	0.0	0.0	0.0	0.0
Unnao	765	777	17:02	745	20:17	0.0	0.0	0.0	0.0	0.0
Lucknow	765	803	17:04	770	22:13	0.0	0.0	2.5	0.0	2.5
Meerut	765	811	6:03	772	22:19	0.0	0.0	49.4	0.0	49.4
Jhatikara	765	778	0:00	778	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	796	6:03	764	20:09	0.0	0.0	0.0	0.0	0.0
Anta	765	793	4:00	766	19:42	0.0	0.0	0.0	0.0	0.0
Phagi	765	796	3:58	766	19:38	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	486.11	619.14	502.70	1205.87	1167.84	701.38
Pong	426.72	384.05	402.80	281.22	415.87	705.67	1225.21	283.82
Tehri	829.79	740.04	791.35	470.00	793.30	500.00	714.96	530.00
Koteshwar	612.50	598.50	610.03	4.58	610.20	4.66	530.00	514.57
Chamera-I	760.00	748.75	754.49	0.00	0.00	0.00	311.31	357.05
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	1150.00	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	507.58	6.08	522.88	10.79	407.03	261.36

*** 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	1406	487	0	1236	256	0	30.52	11.88	42.40
Delhi	545	-400	0	779	-379	0	17.10	-10.20	6.90
Haryana	1962	278	0	1771	213	0	41.80	3.87	45.67
HP	-1501	-266	0	-1223	-433	0	-31.57	-7.96	-39.53
J&K	-745	-403	0	-669	-15	0	-17.46	-2.77	-20.22
CHD	0	-8	0	0	0	0	0.35	-0.11	0.25
Rajasthan	-194	569	0	-194	306	0	-4.66	12.57	7.91
UP	662	0	0	562	0	0	13.56	0.00	13.56
Uttarakhand	-345	40	0	-348	243	0	-8.33	2.04	-6.29
Total	**1790**	**297**	**0**	**1914**	**191**	**0**	**41.33**	**9.32**	**50.64**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1413	1208	712	255	0	0
Delhi	854	531	-217	-646	0	0
Haryana	1963	1557	282	-503	0	0
HP	-1223	-1501	-206	-560	0	0
J&K	-644	-795	0	-403	0	0
CHD	44	0	0	-35	0	0
Rajasthan	-194	-194	571	162	0	0
UP	675	494	0	0	0	0
Uttarakhand	-345	-348	243	6	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	**0.00%**

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

Rihand - Dadri	**0.00%**

XII.System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

0.00

XIV. Weather Conditions For 31.07.2016 :

XV. Synchronisation of new generating units :

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

XVII. Tripping of lines in pooling stations :

XVIII. 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 : 31.07.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER