

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 31.05.2016

Date of Reporting : 01.06.2016



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
39282	1663	40945	50.08	37620	960	38580	50.03	920.3	40.19

* 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:

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	54.63	10.17		64.80	69.15	70.30	1.15	135.10	0.00
Haryana	8.53	0.56		9.09	108.99	109.29	0.31	118.38	0.00
Rajasthan	124.14	0.00	29.74	153.88	50.70	50.90	0.20	204.78	0.00
Delhi	14.17			14.17	82.18	81.12	-1.06	95.29	0.03
UP	88.25	15.90		104.15	149.23	154.13	4.91	258.28	30.44
Uttarakhand		14.01		14.01	21.38	24.42	3.04	38.42	0.57
HP		15.06		15.06	9.20	11.30	2.10	26.36	0.16
J & K		19.41	0.00	19.41	14.56	18.68	4.11	38.09	8.99
Chandigarh				0.00	5.48	5.58	0.27	5.58	0.00
Total	289.73	75.10	29.74	394.56	510.87	525.72	15.01	920.28	40.19

* 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	5972	0	-75	18	5039	0	221	322	6098	22:00	0
Haryana	5667	0	14	546	4851	0	171	620	6146	23:00	0
Rajasthan	7529	0	-203	29	8711	0	188	-126	9347	1:00	0
Delhi	4266	3	-121	627	3581	0	-142	386	4903	17:00	5
UP	10962	1105	-58	1130	11491	720	88	1380	11990	1:00	880
Uttarakhand	1747	75	76	247	1473	0	201	111	1774	21:00	75
HP	1052	21	-107	-1065	929	0	115	-839	1266	11:00	0
J&K	1836	459	208	-618	1359	240	168	-732	1957	21:00	489
Chandigarh	250	0	-2	0	187	0	4	0	278	15:00	0
Total	39282	1663	-268	913	37620	960	1014	1123	41106	23:00	2400

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

Diversity is 1.06

III. Regional Entities :

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	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1894	2032	2067	45.59	1899	44.92		0.66
Rihand I STPS (2*500)	1000	408	442	509	9.86	411	9.70		0.16
Rihand II STPS (2*500)	1000	952	1015	1026	23.00	958	22.52		0.48
Rihand III STPS (2*500)	1000	952	1024	997	22.87	953	22.45		0.42
Dadri I STPS (4*210)	840	805	356	264	7.39	308	7.66		-0.27
Dadri II STPS (2*490)	980	960	726	677	18.15	756	19.14		-0.99
Unchahar I TPS (2*210)	420	356	381	377	8.21	342	8.41		-0.21
Unchahar II TPS (2*210)	420	400	437	419	9.27	386	9.36		-0.09
Unchahar III TPS (1*210)	210	200	218	214	4.62	192	4.67		-0.05
ISTPP (Jhajjar) (3*500)	1500	1425	857	728	17.95	748	18.45		-0.50
Dadri GPS (4*130.19+2*154.51)	830	780	186	178	4.18	174	4.24		-0.06
Anta GPS (3*88.71+1*153.2)	419	382	280	207	5.70	238	6.16		-0.46
Auraiya GPS (4*111.19+2*109.30)	663	623	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	0.04	2	0.04		0.00
Singrauli Solar(15)	15	3	0	0	0.07	3	0.07		0.00
KHEP(4*200)	800	872	871	0	9.52	397	9.00		0.52
Sub Total (A)	12112	11014	8825	7663	186	7768	187		-0.39
B. NPC									
NAPS (2*220)	440	210	211	221	4.38	183	5.04		-0.66
RAPS- B (2*220)	440	362	405	408	8.71	363	8.69		0.02
RAPS- C (2*220)	440	210	221	222	4.32	180	5.04		-0.72
Sub Total (B)	1320	782	837	851	17.42	726	18.77		-1.35
C. NHPC									
Chamera I HPS (3*180)	540	540	544	170	10.15	423	9.97		0.18
Chamera II HPS (3*100)	300	300	203	307	6.28	262	6.18		0.10
Chamera III HPS (3*77)	231	170	224	201	4.33	181	4.12		0.21
Bairasuli HPS(3*60)	180	179	186	60	2.17	91	1.96		0.21
Salal-HPS (6*115)	690	644	676	676	16.23	676	15.44		0.79
Tanakpur-HPS (3*31.4)	94	30	39	32	0.83	35	0.71		0.13
Uri-I HPS (4*120)	480	475	476	471	11.46	477	11.40		0.06
Uri-II HPS (4*60)	240	65	0	180	1.63	68	1.58		0.05
Dhauliganga-HPS (4*70)	280	210	213	73	2.45	102	2.30		0.15
Dulhasti-HPS (3*130)	390	387	402	404	9.52	397	9.29		0.23
Sewa-II HPS (3*40)	120	119	86	0	1.07	44	0.90		0.17
Parbati 3 (4*130)	520	260	270	131	1.73	72	1.68		0.05
Sub Total (C)	4065	3379	3318	2706	68	2827	66		2.33
D. SJVNL									
NJPC (6*250)	1500	1605	1376	899	29.90	1246	29.64		0.25
Rampur HEP (6*68.67)	412	442	433	257	8.49	354	8.25		0.25
Sub Total (D)	1912	2047	1809	1156	38.39	1599	37.89		0.50
E. THDC									
Tehri HPS (4*250)	1000	260	265	265	6.29	262	6.20		0.09
Koteshwar HPS (4*100)	400	114	277	91	2.81	117	2.75		0.07
Sub Total (E)	1400	374	542	356	9.10	379	8.95		0.16
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	522	1061	380	13.11	546	12.53		0.58
Dehar HPS (6*165)	990	457	660	495	11.12	463	10.98		0.15
Pong HPS (6*66)	396	90	144	48	2.08	87	2.16		-0.08
Sub Total (F)	2765	1069	1865	923	26.31	1096	25.66		0.65
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	85	67	2.12	88	2.20		-0.08
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	810	568	16.65	694	16.30		0.35
Malana Stg-II HPS (2*50)	100	0	45	35	0.94	39	0.90		0.04
Shree Cement TPS (2*150)	300	0	293	284	6.95	290	6.83		0.13
Budhil HPS(IPP) (2*35)	70	0	37	37	0.87	36	1.19		-0.31
Sub Total (G)	1662	0	1270	991	27.54	1147	27.41		0.13
H. Total Regional Entities (A-G)	25237	18666	18466	14646	373.04	15543	371.03		2.01

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	210	160	3.45	144
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	100	100	2.41	100
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	425	205	6.14	256
	Goindwal(GVK) (2*270)	540	0	0	-0.05	-2
	Rajpura (2*700)	1400	1320	1020	30.57	1274
	Talwandi Saboo (3*660)	1980	600	308	12.12	505
	Thermal (Total)	6560	2655	1793	54.63	2276
	Total Hydro	1000	451	419	10.17	424
Total Punjab	7560	3106	2212	64.80	2700	
Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	0	0	0.00	0
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	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	395	0	8.53	355
	Thermal (Total)	4944	395	0	8.53	355
	Total Hydro	62	21	34	0.56	23
	Total Haryana	5006	416	34	9.09	379
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	844	798	19.86
suratgarh TPS (6*250)		1500	576	573	14.10	587
Chabra TPS (4*250)		1000	561	611	13.76	573
Dholpur GPS (3*110)		330	97	79	1.97	82
Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)		271	174	180	4.47	186
RAPS A (NPC) (1*100+1*200)		300	119	150	3.40	142
Barsingsar (NLC) (2*125)		250	80	81	1.82	76
Giral LTPS (2*125)		250	0	0	0.00	0
Rajwast LTPS (IPP) (8*135)		1080	457	686	16.56	690
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0
Kalisindh Thermal(2*600)		1200	899	801	21.92	913
Kawai(Adani) (2*660)		1320	872	934	26.29	1095
Thermal (Total)		8876	4679	4893	124	5173
Total Hydro		550	0	0	0.00	0
Wind power		3214	809	1467	26.48	1104
Biomass		99	19	19	0.46	19
Solar		730	0	0	2.80	117
Renewable/Others (Total)		4043	828	1486	29.74	1239
Total Rajasthan		13469	5507	6379	153.88	6412
UP		Anpara TPS (3*210+2*500)	1630	773	1410	24.70
	Obra TPS (2*50+2*94+5*200)	1194	559	549	13.30	554
	Paricha TPS (2*110+2*220+2*250)	1160	185	191	3.90	163
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaqanj TPS (1*60+1*105+2*250)	665	230	224	5.40	225
	Tanda TPS (NTPC) (4*110)	440	194	194	4.75	198
	Roza TPS (IPP) (4*300)	1200	279	266	6.60	275
	Anpara-C (IPP) (2*600)	1200	1080	531	16.50	688
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	162	164	3.60	150
	Anpara-D(2*500)	1000	156	425	7.10	296
	Lalitpur TPS(3*660)	1980	0	0	0.00	0
	Bara(2*660)	1320	0	0	0.00	0
	Thermal (Total)	12449	3618	3954	86	3577
	Vishnuparyag HPS (IPP)(4*110)	440	435	395	9.10	379
	Alaknanda(4*82.5)	330	0	141	2.80	117
	Other Hydro	527	280	205	4.00	167
	Cogeneration	981	100	100	2.40	100
Total UP	14727	4433	4795	104	4340	
Uttarakhand	Total Hydro	1398	609	474	14.01	584
	Total Uttarakhand	1398	609	474	14.01	584
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	33	32	0.71	30
	Pragati Gas Turbine (2x104+ 1x122)	330	265	263	6.43	268
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	0	0	0.00	0
	Badarpur TPS (NTPC) (3*95+2*210)	705	331	330	7.03	293
	Thermal (Total)	2917	629	625	14.17	591
	Total Delhi	2917	629	625	14.17	591
HP	Baspa HPS (IPP) (3*100)	300	248	298	5.19	216
	Malana HPS (IPP) (2*43)	86	17	15	0.86	36
	Other Hydro	878	370	351	9.01	375
	Total HP	1264	635	664	15.06	627
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	661	661	15.86	661
	Other Hydro/IPP	560	150	148	3.54	148
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	1500	811	809	19.41	809
Total State Control Area Generation		47841	16146	15992	394.56	16440
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			6809	6617	167.41	6975
Total Regional Availability(Gross)		73078	41421	37254	935.01	38959

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9344	5811	170.88	7120
State Control Area Hydro	6881	3242	3141	75	3129
Total Regional Hydro	19115	12586	8952	245.98	10249

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 MU
	MW	MW	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-250	-250	100	250	0.17	5.36	-5.19
765 KV Gwalior-Agra (D/C)	2937	2901	3294	0	64.18	0.00	64.18
400 KV Zerda-Kankroli	-197	-249	0	440	0.00	7.04	-7.04
400 KV Zerda-Bhinmal	-151	-233	39	373	0.00	5.93	-5.93
220 KV Auraiya-Malanpur	43	33	0	7	0.62	0.00	0.62
220 KV Badod-Kota/Morak	-51	11	21	67	0.54	0.00	0.54
Mundra-Mohinderghar(HVDC Bipole)	2502	2498	2507	0	60.45	0.00	60.45
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	386	409	522	141	6.87	0.00	6.87
Sub Total WR	5219	5120			132.83	18.34	114.49
Pusauli Bypass/HVDC	200	200	200	0	4.76	0.00	4.76
400 KV MZP- GKP (D/C)	153	258	458	0	6.68	0.00	6.68
400 KV Patna-Balia(D/C) X 2	354	671	754	0	14.03	0.00	14.03
400 KV B'Sharif-Balia (D/C)	50	78	187	0	2.14	0.00	2.14
765 KV Gaya-Balia	227	0	276	0	2.50	0.00	2.50
765 KV Gaya-Varanasi (D/C)	-195	-186	350	0	4.42	0.00	4.42
220 KV Pusauli-Sahupuri	207	184	207	0	3.25	0.00	3.25
132 KV K'nasa-Sahupuri	-20	-24	0	35	0.00	0.43	-0.43
132 KV Son Ngr-Rihand	-43	-24	0	44	0.00	0.85	-0.85
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-123	-67	14	243	0.00	2.85	-2.85
400 KV Barh -GKP (D/C)	402	528	534	0	10.62	0.00	10.62
400 kV B'Sharif - Varanasi (D/C)	-122	-121	98	61	0.00	0.26	-0.26
Sub Total ER	1090	1497			48.42	4.40	44.02
+/- 800 KV BiswanathCharialli-Agra	500	0	500	0	8.89	0.00	8.89
Sub Total NER	500	0			8.89	0.00	8.89
Total IR Exch	6809	6617			190.14	22.74	167.41

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
38.99	0.90	39.89	3.29	7.64	-0.07	-0.06	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
43.11	117.33	160.45	52.91	114.49	167.41	9.80	-2.84	6.96

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 MU
	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-26	-27	0	32	0	1	-0.69

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	0.20	3.08	16.54	71.76	77.34	5.25	1.17	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)		
50.18	17.03	49.63	19.51	49.96	0.066	0.069	0.00	0.00	22.66

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	415	3:20	406	12:55	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	433	3:51	403	23:35	0.0	0.0	33.9	3.4	33.9
Bareilly(PG)400kV	400	428	1:36	398	19:50	0.0	0.0	28.6	0.0	28.6
Kanpur	400	427	1:58	399	14:40	0.0	0.0	18.7	0.0	18.7
Dadri	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Ballabgarh	400	431	4:01	401	14:45	0.0	0.0	50.4	0.0	50.4
Bawana	400	420	21:46	402	14:43	0.0	0.0	0.0	0.0	0.0
Bassi	400	420	3:39	394	14:45	0.0	0.0	0.0	0.0	0.0
Hissar	400	424	3:46	396	19:47	0.0	0.0	6.6	0.0	6.6
Moga	400	420	3:39	398	14:42	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	429	3:41	408	14:35	0.0	0.0	44.2	0.0	44.2
Nalagarh	400	428	3:44	409	14:33	0.0	0.0	38.0	0.0	38.0
Kishenpur	400	414	3:35	398	14:39	0.0	0.0	0.0	0.0	0.0
Wagoora	400	410	3:41	390	7:52	0.0	0.0	0.0	0.0	0.0
Amritsar	400	427	3:44	164	11:43	0.0	0.0	30.0	0.0	30.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	422	5:15	405	12:18	0.0	0.0	15.7	0.0	15.7
Rishikesh	400	0	0:00	0	0:00	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	791	3:50	738	13:48	0.0	3.7	0.0	0.0	0.0
Balia	765	800	3:48	758	14:56	0.0	0.0	0.0	0.0	0.0
Moga	765	808	3:44	762	14:53	0.0	0.0	9.7	0.0	9.7
Agra	765	807	4:01	744	14:54	0.0	0.0	6.1	0.0	6.1
Bhiwani	765	810	3:36	762	14:53	0.0	0.0	23.9	0.0	23.9
Unnao	765	790	1:43	745	14:56	0.0	0.0	0.0	0.0	0.0
Lucknow	765	808	1:58	761	14:57	0.0	0.0	14.4	0.0	14.4
Meerut	765	818	3:39	754	19:51	0.0	0.0	26.1	0.0	26.1
Jhatikara	765	802	3:46	754	14:37	0.0	0.0	2.7	0.0	2.7
Bareilly 765 kV	765	806	1:34	753	19:51	0.0	0.0	11.9	0.0	11.9
Anta	765	787	18:05	761	16:24	0.0	0.0	0.0	0.0	0.0
Phagi	765	792	18:08	752	14:58	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	478.12	420.92	487.80	661.49	559.94	413.03
Pong	426.72	384.05	391.12	67.89	405.65	361.16	52.16	181.37
Tehri	829.79	740.04	742.10	10.00	752.40	66.00	144.47	242.00
Koteshwar	612.50	598.50	606.66	3.10	606.95	3.10	242.00	185.24
Chamera-I	760.00	748.75	752.10	0.00	0.00	0.00	182.45	279.21
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	504.39	3.35	521.46	10.01	187.09	133.91

* 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	-27	349	0	-229	247	0	-1.46	7.54	6.08
Delhi	432	-46	0	549	77	0	13.07	-0.83	12.25
Haryana	349	271	0	284	262	0	8.15	6.73	14.88
HP	-544	-295	0	-340	-725	0	-9.79	-11.27	-21.06
J&K	-515	-216	0	-589	-29	0	-14.40	-1.93	-16.34
CHD	0	0	0	0	0	0	0.35	0.17	0.53
Rajasthan	-414	288	0	-414	443	0	-9.93	10.22	0.29
UP	1380	0	0	1130	0	0	28.49	0.00	28.49
Uttarakhand	42	70	0	115	132	0	2.17	2.13	4.29
Total	703	420	0	506	407	0	16.66	12.76	29.42

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-27	-229	354	213	0	0
Delhi	638	432	390	-489	0	0
Haryana	481	284	308	244	0	0
HP	-340	-544	-246	-767	0	0
J&K	-515	-685	-14	-216	0	0
CHD	44	0	39	0	0	0
Rajasthan	-414	-414	487	235	0	0
UP	1391	1082	0	0	0	0
Uttarakhand	115	42	137	11	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	0.35%
ER	0.00%
Simultaneous	7.29%

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

WR	23.96%
ER	0.00%
Simultaneous	56.94%

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

Rihand - Dadri	0.00%
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XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 31.05.2016 :
Normal

XV. Synchronisation of new generating units :

XVI. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :
1. 315 MVA ICT-1 (400/220 kV) at 765 kV G.Noida S/S(UP) first time test synchronised on NO load at 15:25 hrs dt. 31.05.2016.

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.