National Load Despatch Centre
Total Transfer Capability for June 2014

Issue Date: 01/04/2014 Issue Time: 1430 hrs Revision No. 2

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA) #	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
NR-WR *	1st June 2014 to 30th June 2014	00-24	2500	500	2000	361	1639		
WR-NR[1]	1st June 2014 to 30th June 2014	00-17 23-24	4200	500	3700	3656	44		
		17-23	4200		3700		44		
NR-ER*	1st June 2014 to 30th June 2014	00-17 23-24	1000	200	800	200	600		
		17-23	1100		900		700		
ER-NR[$]	1st June 2014 to 30th June 2014	00-17 23-24	3800	300	3500	2789	711		
		17-23					711		
W3-ER	1st June 2014 to 30th June 2014	00-24	1800	300	1500	0	1500		
ER-W3	1st June 2014 to 30th June 2014	00-24	1000	300	700	700	0		
WR-SR	1st June 2014 to 30th June 2014	00-24	1000	0	1000	1000	0		
SR-WR *	1st June 2014 to 30th June 2014	00-24	1000	0	1000	0	1000		
ER-SR	1st June 2014 to 30th June 2014	00-05 10-19	750	0	750	657	93		Margin revised due to grant of 150 MW LTA towards SR from NEW grid and grant of 208 MW LTA to TANGEDCO
		05-10 19-24	750		750		93		
SR-ER *	1st June 2014 to 30th June 2014	00-17 23-24	1100	0	1100	197	903		
		17-23	1100		1100		903		
ER-NER	1st June 2014 to 30th June 2014	00-17 23-24	550	50	500	230	270		
		17-23	550		500		270		
NER-ER	1st June 2014 to 30th June 2014	00-17 23-24	500	100	400	0	400		
		17-23	450		350		350		
S1-S2	1st June 2014 to 30th June 2014	00-24	6200	500	5700	5508	192		Margin revised due to grant of 208 MW LTA to TANGEDCO
Import of Punjab	1st June 2014 to 30th June 2014	00-24	5600	300	5300	3800	1500		
Import TTC for DD & DNH	1st June 2014 to 30th June 2014	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st June 2014 to 30th June 2014	00-17 23-24	9000	200	8800	6746	2054		
		17-23	9500		9300		2554		

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

$ As per Simulations, predominant direction of flow is on West to North Corridor. Hence, in case injection point is in Western Region (W1,W2,W3), STOA/PX transactions from West to North on West-East-North corridor shall not be allowed as such transaction increases congestion in the West to North Corridor.

1) ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC B/B seam
2) S1 comprises of AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Pondicherry
3) W3 comprises of the following regional entities :
a) Chattisgarh, b) Jindal Power Limited (JPL) , c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak
f) BALCO, g) Sterlite (#1,3,4), h) NSPCL, i) Korba, j) Sipat, k) KSK Mahanadi, L)DB Power, m) KWPCL

The figure is based on LTA/MTOA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage the LTA/MTOA utilized would be les. RLDC/ NLDC would factor this situation while issuing STOA approvals

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1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of one circuit of 765 kV Gwalior-Agra									

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
WR-NR	High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
ER-NR	(n-1) contingency of one circuit of 400kV Farakka –Malda D/C
W3-ER	(n-1) contingency of 400kV Sterilte-Rourkela S/C
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
WR-SR & ER-SR	1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO) 3. Considering transfer capability asessment by CTU on NEW-SR corridor.
SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER	(n-1) and (n-1-1) contingencies of 400kV Talcher-Rourkela D/C
ER-NER	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
S1-S2	(n-1) contingency of 400 kV Kolar-Hosur D/C line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line.
Import of Punjab	(n-1) contingency of ICT at Patiala/Moga
W3 zone Injection	(n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section

*Primary constraints

Simultaneous Import Capability

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
ER									
NR[1]	1st June 2014 to 30th June 2014	00-17 23-24	8000	800	7200	6445	755		
		17-23	8000		7200		755		
NER	1st June 2014 to 30th June 2014	00-17 23-24	550	50	500	230	270		
		17-23	550		500		270		
WR									
SR	1st June 2014 to 30th June 2014	00-05 10-19	1750	0	1750	1657	93		Margin revised due to grant of 150 MW LTA towards SR from NEW grid and grant of 208 MW LTA to TANGEDCO
		05-10 19-24	1750		1750		93		

1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of one circuit of 765 kV Gwalior-Agra

Simultaneous Export Capability

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
NR*	1st June 2014 to 30th June 2014	00-17 23-24	3500	700	2800	561	2239		
		17-23	3600		2900		2339		
NER	1st June 2014 to 30th June 2014	00-17 23-24	500	100	400	0	400		
		17-23	450		350		350		
WR									
SR*	1st June 2014 to 30th June 2014	00-17 23-24	2100	0	2100	197	1903		
		17-23	2100		2100		1903		

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

Limiting Constraints

NR	**Import**	(n-1) contingency of one circuit of 400kV Farakka –Malda D/C High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli
NER	**Import**	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
SR	**Import**	1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO). 3. Considering transfer capability asessment by CTU on NEW-SR corridor.
	Export	(n-1) and (n-1-1) contingencies of 400kV Talcher-Rourkela D/C

*Primary constraints

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	25.03.2014	1	Margin revised due to withdrawal/cancellation of 150 MW MTOA from Corporate Power Limited	ER-SR
			Re-Routing of transactions on West-East-North Corridor discontinued on account of Inter-Regional Loop flows leading to physical congestion on WR-NR.	WR-NR/ ER-NR
			Margin Revised due to correction in LTA/MTOA figure.	NR-WR
2	01/04/2014	2	Margin revised due to grant of 150 MW LTA towards SR from NEW grid and grant of 208 MW LTA to TANGEDCO	ER-SR / S1-S2

ASSUMPTIONS IN BASECASE

Month : June '14

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	**NORTHERN REGION**				
1	Punjab	8807	8517	3164	3203
2	Haryana	6743	6353	3958	3958
3	Rajasthan	7803	7383	5144	5134
4	Delhi	5199	5053	1382	1382
5	Uttar Pradesh	12165	12581	6115	6128
6	Jammu & Kashmir	1954	1798	546	564
7	Uttarakhand	1656	1509	496	491
8	Himachal Pradesh	1503	1361	852	821
9	Chandigarh	294	225	0	0
10	ISGS/IPPs			19790	17328
	Total NR	**46124**	**44780**	**41447**	**39009**
II	**EASTERN REGION**				
1	West Bengal	7059	4711	5170	4021
2	Jharkhand	1108	808	590	590
3	Orissa	3640	2570	3181	2432
4	Bihar	2030	1500	70.5	70.5
5	Damodar Valley Corporation	2460	2030	3179	2989
6	Sikkim	86	40		
7	Bhutan	109	109	1235	1235
8	ISGS/IPPs	245	245	8845	8315
	Total ER	**16737**	**12013**	**22270.5**	**19652.5**
III	**WESTERN REGION**				
1	Chattisgarh				
2	Madhya Pradesh				
3	Maharashtra				
4	Gujarat				
5	Goa				
6	Daman and Diu				
7	Dadra and Nagar Haveli				
8	ISGS/IPPs				
	Total WR	**0**	**0**	**0**	**0**

IV	**SOUTHERN REGION**				
1	Andhra Pradesh	10848	9446	6571	5881
2	Tamil Nadu	12152	10588	8026	7002
3	Karnataka	8397	7303	6100	4619
4	Kerala	3390	2595	1781	863
5	Pondy	329	278		
6	Goa	83	83		
7	ISGS/IPPs			11027	10260
	Total SR	**35199**	**30293**	**33505**	**28625**
V	**NORTH-EASTERN REGION**				
1	Arunachal Pradesh	120	84	0	0
2	Assam	1380	990	250	225
3	Manipur	125	88	0	0
4	Meghalaya	300	210	60	55
5	Mizoram	75	53	4	4
6	Nagaland	110	77	12	12
7	Tripura	230	130	110	110
8	ISGS/IPPs			1592	1262
	Total NER	**2340**	**1632**	**2028**	**1668**
	Total All India	**100400**	**88718**	**99250**	**88955**