National Load Despatch Centre Total Transfer Capability for July 2016

Issue Date: 17/6/2016 Issue Time: 1745 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 July 2016 to 31st July 2016	00-24	2500	500	2000	149	1851			
WR-NR*	1st July 2016 to 31st July 2016	00-24	6700	500	6200	6170	30			
		00.06	2000		1900	202	1507		T	
NR-ER*	1st July 2016 to	00-06 06-18'	2000 2000	200	1800 1800	293 358	1442			
IVIX-IZIX	31st July 2016	18-24	2000	200	1800	293	1507			
ER-NR*	1st July 2016 to 31st July 2016	00-24	4400	300	4100	2431	1669			
	318t July 2010									
W3-ER ^{\$}	1st July 2016 to 31st July 2016	00-24		No limit is being specified. No Re-routing is allowed via W3-ER-NR.						
ER-W3	1st July 2016 to 31st July 2016	00-24				No limit i	s being specified.			
WR-SR	1st July 2016 to 31st July 2016	00-24	4000	750	3250	3250	0			
SR-WR*	1st July 2016 to 31st July 2016	00-24				No limit is	s being Specified.			
		00.00							T	
	1st July 2016 to 9th July 2016	00-06 18-24	2650	0	2650	2585	65			
	ř	06-18'				2650	0			
ER-SR	10th July 2016 to 31st July 2016	00-06 18-24	2650	0	2650	2142	508		STOA margin revised due to anticipated outage of Talcher Stage- 2 Unit -6 approved in 120th OCC of	
		06-18'				2207	443		SRPC held on 10-06-2016.	
SR-ER *	1st July 2016 to 31st July 2016	00-24				No limit is	s being Specified.			
		00.15								
ER-NER	1st July 2016 to 31st July 2016	00-17 23-24	1250	45	1205	210	995			
		17-23	1100		1055		845			
NER-ER	1st July 2016 to	00-17 23-24	1200	45	1155	0	1155			
11211-111	31st July 2016	17-23	1290	45	1245	J	1245			
	•	17-23	12/0 1243							
	•	17-23								
W3 zone Injection	1st July 2016 to 31st July 2016	00-24	No limit is	~ .	ed (in case of s	_	nal flows or any correvised accordingl			

Note: TTC/ATC of S1-S2 corridor, Import of Punjab and Import of DD & DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.

* 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).

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- \$ 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) S1 comprises of Telangana, AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Puducherry
- 2) W3 comprises of the following regional entities:
- a) Chattisgarh Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, 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, n) Vandana Vidyut
- # The figure is based on LTA/MTOA approved by CTU and Allocation figures as per RPCs RTA/REA. In actual Operation, due to Units being on Maintenance/Fuel shortage/New units being commissionned the LTA/MTOA utilized would vary. RLDC/NLDC would factor this situation on day-ahead basis. In the eventuality that net schedules exceed ATC, real time curtailments might be effected by RLDCs/NLDC.

In case of TTC Revision due to any shutdown:

- 1) The TTC value will be revised to normal values after restoration of shutdown.
- 2) The TTC value willl be revised to normal values if the shutdown is not being availed in real time.

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak
WR-NR	1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2. High Loading of 400kV Singrauli-Anpara S/C.
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli
ER-NR	n-1 contingency of one cicuit of 400 kV Biharshariff- Lakhisarai leads to high loading on the other cicuit
WR-SR & ER-SR	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit
EK-SK	Low Voltage at Gazuwaka (East) Bus.
ER-NER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa. n-1 contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa
W3 zone Injection	

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									
		00-05	8950		8150		0		
NR*	1st July 2016 to	05-08'	8950	800	8150	8601	0		
INIX.	31st July 2016	08-19'	8950	800	8150	8001	0		
		19-24	8950		8150		0		
NER	1st July 2016 to 31st July 2016	00-17 23-24	1250	45	1205	210	995		
		17-23	1100		1055		845		
WD									
WR									
	1 at July 2016 to	00-06	6650		5900	5835	65		
	1st July 2016 to	06-18'	6650	750	5900	5900	0		
	9th July 2016	18-24	6650	Ĭ	5900	5835	65		
SR		00-06	6650		5900	5392	508		STOA margin revised due to anticipated outage of
	10th July 2016 to 31st July 2016	06-18'	6650	750	5900	5457	443		Talcher Stage-2 Unit -6 approved in 120th OCCM
		18-24	6650		5900	5392	508		of SRPC held on 10-06- 2016.

^{*} 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).

* For approving STOA Bilateral transactions, margin available in Simultaneous Import of NR would be apportioned on WR-NR Corridor & ER-NR Corridor in the following ratio:

Margin in Simultaneous import of NR = A

WR-NR ATC =B

ER-NRATC = C

Margin for WR-NR applicants = A * B/(B+C)

Margin for ER-NR Applicants = A * C/(B+C)

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
	1st July 2016 to 31st July 2016	00-06	4500 700		3800	442	3358		
NR*		06-18'		3800	507	3293			
		18-24	4500		3800	442	3358		
NER	1st July 2016 to	00-17 23-24	1200	45	1155	0	1155		
	31st July 2016	17-23	1290		1245		1245		
WR									

SR *	1st July 2016 to 31st July 2016	00-24		No limit is being Specified.					

^{*} 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

	5 Constraints							
NR		(n-1) contingency of one circuit of 400 kV Biharshariff- Lakhisarai leads to high loading on the other circuit						
	Import	1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.						
		2.High Loading of 400kV Singrauli-Anpara S/C.						
	E 4	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.						
	Export	(n-1) contingency of 400 kV Saranath-Pusauli						
	Import	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA						
NED		ICT at Misa. n-1 entingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar						
NER	_	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA						
	Export	ICT at Misa.						
CD	T	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit						
SR	Import	Low Voltage at Gazuwaka (East) Bus.						

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	4/5/2016	Whole month	Revised considering the present high generation trend in Rajasthan state	WR-NR/ Import of NR
1	4/5/2016	whole month	STOA margin revised due to change in LTA/MTOA allocation	NR-WR / Export of NR
2	17/6/2016	1 10/7/2016 to	STOA margin revised due to anticipated outage of Talcher Stage-2 Unit -6 approved in 120th OCC of SRPC held on 10-06-2016.	ER-SR/ Import of SR

ASSU	MPTIONS IN BASECASE				
				Month : July '16	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
-	NORTHERN REGION				
1	Punjab	9417	9264	4060	4183
2	Haryana	7660	7356	2137	2137
3	Rajasthan	8189	8166	4373	4373
4	Delhi	5287	5321	920	920
5	Uttar Pradesh	12769	13458	5813	5944
6	Uttarakhand	1612	1357	754	981
7	Himachal Pradesh	1181	991	1070	1035
8	Jammu & Kashmir	2271	1484	732	727
9	Chandigarh	302	242	0	0
10	ISGS/IPPs	0	0	22339	21201
	Total NR	48688	47639	42198	41501
II	EASTERN REGION				
1	Bihar	2941	2113	200	131
2	Jharkhand	1089	865	400	380
3	Damodar Valley Corporation	2723	2359	3400	3101
4	Orissa	4005	2948	3109	2039
5	West Bengal	7030	5995	4768	3422
6	Sikkim	79	50	0	0
7	Bhutan	215	215	1514	1195
8	ISGS/IPPs	620	920	9770	9508
	Total ER	18701	15465	23161	19776
Ш	WESTERN REGION				
1	Maharashtra	19604	13832	14300	9615
2	Gujarat	14023	9261	10629	6492
3	Madhya Pradesh	7485	5137	3789	2723
4	Chattisgarh	3467	2632	2116	1346
5	Daman and Diu	307	253	0	0
6	Dadra and Nagar Haveli	741	643	0	0
7	Goa-WR	406	236	0	0
8	ISGS/IPPs	1078	1075	27818	23042
	Total WR	47111	33069	58651	43218

IV	SOUTHERN REGION				
1	Andhra Pradesh	6506	5552	5427	5181
2	Telangana	7319	6912	2324	1982
3	Karnataka	8101	6015	6437	5128
4	Tamil Nadu	15406	13893	8405	5905
5	Kerala	3782	2485	1596	659
6	Pondy	391	335	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	20	20	13317	11829
	Total SR	41614	35301	37506	30684
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	122	95	0	0
2	Assam	1052	964	261	240
3	Manipur	145	81	0	0
4	Meghalaya	250	175	208	189
5	Mizoram	86	63	8	0
6	Nagaland	111	104	22	16
7	Tripura	250	152	89	88
8	ISGS/IPPs	100	60	1529	1418
	Total NER	2115	1694	2117	1952
	Total All India	158474	133414	165162	138341