National Load Despatch Centre Total Transfer Capability for November 2015

Issue Date: 28/07/2015 Issue Time: 2330 hrs Revision No. 0

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 Nov 2015 to 30th Nov 2015	00-24	2500	500	2000	706	1294			
WR-NR*	1st Nov 2015 to 30th Nov 2015	00-24	5100	500	4600	5446	0			
		00.05	2000		1000	202	1505			
NR-ER*	1st Nov 2015 to	00-06	2000 2000	200	1800	293 358	1507 1442			
NK-EK*	30th Nov 2015	18-24	2000	200	1800 1800	293	1507			
	1st Nov 2015 to	18-24	2000		1800	293	1307			
ER-NR*&	1st Nov 2015 to 30th Nov 2015	00-24	3400	300	3100	2431	669			
W3-ER ^{\$}	1st Nov 2015 to	00-24					s being specified.	. ND		
WO ER	30th Nov 2015			1		No Re-routing is	allowed via W3-EI	R-NR.		
ER-W3	1st Nov 2015 to 30th Nov 2015	00-24	1000	300	700	874	0			
	1st Nov 2015 to									
WR-SR	1st Nov 2015 to 30th Nov 2015	00-24	2300	750	1550	1550	0			
	1st Nov 2015 to									
SR-WR *	30th Nov 2015	00-24				No limit i	s being Specified.			
	30th 1407 2013		l							
	1st Nov 2015 to	00-06				2585	65			
ER-SR	30th Nov 2015	18-24	2650	0	2650	2383	03			
		06-18'				2650	0			
SR-ER *	1st Nov 2015 to	00-24				No limit i	s being Specified.			
	30th Nov 2015						8-1			
	1	00-17								
ER-NER	1st Nov 2015 to 30th Nov 2015	23-24	1310	45	1265	210	1055			
		17-23	1100		1055		845			
	1 . 37 2015 .	00-17		4.7						
NER-ER	30th Nov 2015 to	1st Nov 2015 to 23 24	1st Nov 2015 to 22 24	1420	45	1375	0	1375		
	30tii Nov 2013	17-23	1370	45	1325		1325			
		00.17								
W3 zone	1st Nov 2015 to	00-17	9400	200	9200	7104	2096			
Injection	30th Nov 2015	23-24 17-23	9900	200	9700	/104	2596			
		17-23	9900		9700		2390			
	1st to 2nd	00 -24								
	2.14.44	00.24								
	3rd to 4th	00 -24								
G1 G3	5th to 9th	00 -24								
S1-S2 (Rev 0)	10th to 14th	00 -24	3805	315	3490	3490	0			
,	1001 (0 1401	00-24								
	154 . 201	00.24								
	15th to 29th	00 -24								
	30th	00 -24								

^{*} 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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S1-S2 Corridor: Any revision in S1-S2 TTC/ATC from Rev-0, would be uploaded under Intra-Regional Section on NLDC website.

\$ 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. & ER-NR TTC is independent of WR-NR corridor flow

- 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.

Note on LTA/MTOA towards SR: Existing LTA/MTOA plus notional LTA/MTOA granted by CTU as per CERC orders dated 16th Feb 2015 and 3rd Jul 2015 in petition nos 92/MP/2014 and 92/MP/2015. Notional LTA/MTOA will be operationalized based on margins available from time to time.

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	High Loading of 400kV Singrauli-Anpara & High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).					
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli					
ER-NR	NR 1. n-1 contingency of one circuit of 400 kV Biharshariff- Lakhisarai leads to high loading on the other circuit 2. n-1 contingency of one circuit of 400 kV Farakka-Malda leads to high loading of the other circuit					
ER-W3	n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular Octaration between Wardha and Parli. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)					
WR-SR & ER-SR	1. (n-1) of 400 kV Wardha – Parli will lead to 30 degrees angular Octaration between Wardha and Parli. 2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge.					
ER-NER	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 entingency 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 400 315 MVA ICT at Misa						
W3 zone Injection	n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular Octaration between Wardha and Parli. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)					

*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*	1st Nov 2015 to 30th Nov 2015	00-24	7300	800	6500	7877	0		
NER	1st Nov 2015 to 30th Nov 2015	00-17 23-24 17-23	1310 1100	45	1265 1055	210	1055 845		
WR									
SR	1st Nov 2015 to 30th Nov 2015	00-06 18-24 06-18'	4950 4950	750	4200 4200	4135 4200	65 0		

^{*} 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).

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 Nov 2015 to	00-06 06-18'	4500	700	3800 3800	999 1064	2801 2736		
	30th Nov 2015	18-24	4500		3800	999	2801		
NER	1st Nov 2015 to	00-17 23-24	1420	45	1375	0	1375		
	30th Nov 2015	17-23	1370	45	1325		1325		
WR									
WK									
SR *	1st Nov 2015 to 30th Nov 2015	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

ւրուրու	Constraints							
NR	Import	(n-1) contingency of 400 kV Biharshariff- Lakhisarai S/C High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).						
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli						
NER	Import	(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 cntingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar						
T(E)K	Export	(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.						
		1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. 2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)						
SR	Import	3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge.						

^{*}Primary constraints

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected

ASS	SUMPTIONS IN BASECASE					
				Month : November '15		
S.No.	Name of State/Area		Load	Genera	ion	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)	
	NORTHERN REGION					
1	Punjab	5559	3491	2152	2085	
2	Haryana	6228	2948	2217	2217	
3	Rajasthan	9325	8655	5570	5514	
4	Delhi	3175	1549	790	790	
5	Uttar Pradesh	12198	11682	5569	5587	
6	Uttarakhand	1679	1218	525	228	
7	Himachal Pradesh	1376	925	336	263	
8	Jammu & Kashmir	2339	2352	401	255	
9	Chandigarh	172	75	0	0	
10	ISGS/IPPs	0	0	19083	11552	
	Total NR	42053	32894	36643	28491	
=	EASTERN REGION					
1	Bihar	2831	2132	180	120	
2	Jharkhand	1049	914	540	360	
3	Damodar Valley Corporation	2517	2132	3660	2748	
4	Orissa	3672	2946	3365	1842	
5	West Bengal	6333	5916	4695	3051	
6	Sikkim	125	102	0	0	
7	Bhutan	0	0	0	0	
8	ISGS/IPPs	609	559	10625	9607	
	Total ER	17137	14700	23065	17728	
	WESTERN REGION					
1	Maharashtra	20822	13093	14523	7312	
2	Gujarat	13593	9878	10498	7289	
	Madhya Pradesh	9763	6885	4479	3426	
4	Chattisgarh	3676	2005	2743	1102	
5	Daman and Diu	306	229	0	0	
6	Dadra and Nagar Haveli	783	562	0	0	
7	Goa-WR	511	288	0	0	
8	ISGS/IPPs	982	973	27229	23303	
	Total WR	50436	33913	59472	42431	

	COLUMN DECICAL				
IV	SOUTHERN REGION				
1	Andhra Pradesh	5629	5313	4759	4284
2	Telangana	6366	6065	2427	1899
3	Karnataka	7697	5550	6984	5307
4	Tamil Nadu	11912	11319	6646	5746
5	Kerala	3445	2132	1796	826
6	Pondy	336	220	0	0
7	Goa-SR	85	85	0	0
8	ISGS/IPPs	0	0	10043	9773
	Total SR	35470	30684	32655	27835
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	94	40	0	0
2	Assam	954	698	267	198
3	Manipur	103	56	0	0
4	Meghalaya	301	179	155	87
5	Mizoram	69	41	4	4
6	Nagaland	82	63	8	6
7	Tripura	224	131	106	106
8	ISGS/IPPs	7	7	1303	847
	Total NER	1834	1215	1843	1248
	Total All India	146930	113407	153679	117734