National Load Despatch Centre Total Transfer Capability for September 2015

Issue Date: 26/08/2015 Issue Time: 1530 hrs Revision No. 5

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 Sep 2015 to 30th Sep 2015	00-24	2500	500	2000	421	1579												
WR-NR*	1st Sep 2015 to 30th Sep 2015	00-24	6400	500	5900	5638	262	650	Revised due to commissioning of 765kV Phagi-Bhiwani S/C and STOA margin revised due to operationalization of MTOA.										
		00-06	2000		1800	293	1507												
NR-ER*	1st Sep 2015 to	06-18'	2000	200	1800	358	1442		†										
NK-EK	30th Sep 2015	18-24	2000	200	1800	293	1507		+										
	1st Sep 2015 to	16-24	2000		1800	293	1307												
ER-NR*	30th Sep 2015	00-24	4800	300	4500	2431	2069												
	1st Con 2015 4					No limit :	s being specified.												
W3-ER ^{\$}	1st Sep 2015 to 30th Sep 2015	00-24					s being specified. allowed via W3-El	NIP											
	1st Sep 2015 to					No Re-routing is	anowed via w 5-Ei	X-NK.	T										
ER-W3	30th Sep 2015	00-24	1000	300	700	874	0												
	30th 3ch 7013																		
AND OD	1st Sep 2015 to	00.24	2200	750	1550	1550	C												
WR-SR	30th Sep 2015	00-24	2300	750	1550	1550	0												
	1st Sep 2015 to	00.2:				NY 11 11 1	1 : 0 :0 :												
SR-WR *	30th Sep 2015	00-24				No limit i	s being Specified.												
	1st Sep 2015 to	00-06				2300	350												
ER-SR	30th Sep 2015	18-24	2650	0	2650														
	Î	06-18'				2365	285												
SR-ER *	1st Sep 2015 to	00-24				No limit i	s being Specified.												
J11 1311	30th Sep 2015	0021																	
	1st Sep 2015 to																		
	7th Sep 2015	00-24	3565	350	3215	2573	642												
	8th Sep 2015 to																		
	14th Sep 2015	00-24	3565	350	3215	2484	731												
	15th Sep 2015 to																		
	21st Sep 2015	00-24	3565	350	3215	2561	654												
S1-S2																			
(Rev-0)	22nd Sep 2015 to	00-24	3565	350	3215	2612	603												
	25th Sep 2015	00 2 1	2203	230	3213	2012	033												
	26th Sep 2015 to																		
	27th Sep 2015	00-24	00-24	00-24	00-24	00-24	00-24	00-24	00-24	00-24	00-24	00-24	3565	350	3215	2691	524		
	28th Sep 2015 to	00.24	2555	250	2217	2602	612												
	30th Sep 2015	00-24	3565	350	3215	2602	613												
	1																		
	1st Sep 2015 to	00-17	1200		1160		950												
ER-NER	30th Sep 2015	23-24		40		210													
		17-23	1250		1210		1000												
	1st Sep 2015 to	00-17	1220	30	1190		1190												
NER-ER	30th Sep 2015	23-24				0													
		17-23	1300	40	1260		1260												
		00-17																	
W3 zone	1st Sep 2015 to	23-24	9400	200	9200	7576	1624		STOA Margin revised due to										
Injection	30th Sep 2015	17-23	9900	200	9700	7370	2124		Operationalization of LTA.										
		17-23	7,700		2700		2124												

^{*} 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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\$1-\$2 Corridor: Any revision in \$1-\$2 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.

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 will 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.
	High Loading of 400kV Singrauli-Anpara & High loading of 765 kV Agra-Gwalior (1400 MW SPS setting
WR-NR	on each circuit of 765 kV Gwalior-Agra) and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-
WK-NK	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	N-1 contingency of 400 kV Biharshariff- Lakhisarai S/C
ER-W3	1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli.
EK-W5	2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
	1. (n-1) of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli.
WD CD 6	2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
WR-SR &	3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case
ER-SR	Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as
	constraints within ER would emerge.
ED MED	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV,
ER-NER	315 MVA ICT at Misa
MED ED	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV,
NER-ER	315 MVA ICT at Misa
W3 zone	1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli.
Injection	2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
	#D:

^{*}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									
		00-05	9100		8300		231	600	Revised due to commissioning
NR*	1st Sep 2015 to 30th Sep 2015	05-08'	9600	800	8800	8069	731	600	of 765kV Phagi-Bhiwani S/C and STOA margin revised due to operationalization of MTOA.
INK.		08-19'	9100		8300		231	600	
		19-24'	8500		7700		0	0	
	1st Sep 2015 to	00-17	1200	40	1160	210	0.50		
NER		23-24	1200		1160		950		
	30th Sep 2015	17-23	1250		1210		1000		
WR									
WK									
SR	1st Sep 2015 to	00-06 18-24	4950	750	4200	3850	350		
	30th Sep 2015	06-18'	4950		4200	3915	285		

^{*} 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 Sep 2015 to 30th Sep 2015	00-06 06-18'	4500	700	3800 3800	714 779	3086 3021			
	30th 3cp 2013	18-24	4500		3800	714	3086			
NER	1st Sep 2015 to 30th Sep 2015	00-17 23-24	1220	30	1190	0	1190			
		17-23	1300	40	1260		1260			
WR										
WK										
SR *	1st Sep 2015 to 30th Sep 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

Limiting	g Constraints	
		(n-1) contingency of 400 kV Biharshariff- Lakhisarai S/C
	Import	High loading of 765 kV Agra-Gwalior (1400 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop
NR	ппрогі	flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra
111		D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
	E	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(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
NEK	Export	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
1	6/25/2015	Whole month	Revised considering skewed sharing of flows on WR-NR and ER-NR corridor in the range 70:30	Import of NR
2	6/28/2015	Whole month	STOA Margin revised due to Jhajjar reallocation	ER-SR/ NR-WR
3	7/20/2015	Whole month	STOA Margin revised considering CERC order dated 03-07-2015 in petition No- 92/MP/2015 which is under implementation by CTU. Pending this any margins would be released for short term transactions on day ahead basis.	ER-SR
4	8/24/2015	Whole month	Revised due to the commissioning of 765 kV Gwalior-Phagi 1,2	WR-NR/ Import of NR
5	8/26/2015 Whole month		Revised due to commissioning of 765kV Phagi-Bhiwani S/C and STOA margin revised due to operationalization of MTOA.	WR-NR/ Import of NR
		month	STOA Margin revised due to Operationalization of LTA.	W3 Zone Injection

ASSU	MPTIONS IN BASECASE				
				Month : September	15
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
l	NORTHERN REGION				
1	Punjab	8327	7408	4656	4626
2	Haryana	7890	7084	3318	3318
3	Rajasthan	9096	8161	5709	5646
4	Delhi	4549	3953	1095	1095
5	Uttar Pradesh	12551	12022	6555	6605
6	Uttarakhand	1677	1295	874	723
7	Himachal Pradesh	1189	985	988	971
8	Jammu & Kashmir	2123	1439	438	438
9	Chandigarh	266	159	0	0
10	ISGS/IPPs	0	0	19172	14064
	Total NR	47668	42504	42804	37485
II	EASTERN REGION				
1	Bihar	2690	2033	110	0
2	Jharkhand	915	749	507	330
3	Damodar Valley Corporation	2906	2140	3619	2922
4	Orissa	3574	2894	3176	2150
5	West Bengal	7617	5926	5553	3524
6	Sikkim	88	43	0	0
7	Bhutan	105	104	1300	1030
8	ISGS/IPPs	608	568	9360	8909
	Total ER	18502	14458	23625	18865
III	WESTERN REGION				
	Maharashtra	20211	11204	14900	6645
		12909	7121		+
	Gujarat Madhya Bradash		4927	10115	4527 2521
	Madhya Pradesh	7861 3612	2182	4832 2491	1036
	Chattisgarh Daman and Diu	305	2182	0	0
		771	570	0	
	Dadra and Nagar Haveli	513	293	0	0
	Goa-WR ISGS/IPPs		1046	23713	
8		1048			20410
	Total WR	47230	27575	56050	35139

IV	SOUTHERN REGION				
1	Andhra Pradesh	5904	5359	4699	4399
2	Telangana	7336	6348	3626	2262
	Karnataka	7925	6076	7334	5247
4	Tamil Nadu	13399	11925	8681	7218
5	Kerala	3381	2230	1779	694
6	Pondy	338	290	0	0
7	Goa-SR	81	81	0	0
8	ISGS/IPPs	0	0	9605	9470
	Total SR	38364	32309	35724	29290
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	107	92	0	0
2	Assam	1050	944	285	250
3	Manipur	125	105	0	0
4	Meghalaya	312	208	211	155
5	Mizoram	72	44	4	4
6	Nagaland	110	106	22	16
7	Tripura	266	166	110	110
8	ISGS/IPPs	7	7	1501	1302
	Total NER	2049	1672	2133	1837
	Total All India	153812	118517	160336	122616