National Load Despatch Centre

Total Transfer Capability for August 2020

Issue Date: 30th July 2020 Issue Time: 1800 hrs Revision No. 3

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 August 2020 to 31st August 2020	00-06	2500	500	2000	195	1805		
		06-18				1223	777		
		18-24				195	1805		
WR-NR*	1st August 2020 to 31st August 2020	00-06	17100 16150**	500	16600 15650**	10268 9318**	6332		
		06-18	17100 16150**	500	16600 15650**	10657 9707**	5943	-100	Revised TTC considering change in power order on HVDC APD-AGRA
		18-24	17100 16150**	500	16600 15650**	10268 9318**	6332		
NR-ER*	1st August 2020 to 31st August 2020	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st August 2020 to 31st August 2020	00-24	6250	300	5950	4066	1884	1000	Revised TTC considering change in power order on HVDC APD-AGRA
W3-ER	1st August 2020 to 31st August 2020	00-24	No limit is being specified.						
ER-W3	1st August 2020 to 31st August 2020	00-24	No limit is being specified.						
WR-SR^	1st August 2020 to 31st August 2020	00-05	6950	500	6450	4035	2415		
		05-22	6950		6450		2415		
		22-24	6950		6450		2415		
SR-WR *	1st August 2020 to 31st August 2020	00-24	4600	400	4200	550	3650		
ER-SR^	1st August 2020 to 31st August 2020	00-06	5950	250	5700	2663	3037		
		06-18				2748	2952		
		18-24				2663	3037		
SR-ER *	1st August 2020 to 31st August 2020	00-24	No limit is being Specified.						
ER-NER*	1st August 2020 to 31st August 2020	00-02	1410	45	1365	432	933	390	(i) Revised TTC due to (a) change in LGBR and (b) addition of 2x150 MW Kameng generation (ii) Change in STOA margins due to change in allocation from Kameng & Mangdekchu
		02-07	1410		1365	432	933	390	
		07-12	1410		1365	474	891	330	
		12-17	1410		1365	474	891	350	
		17-18	1410		1365	474	891	410	
		18-22	1340		1295	432	863	340	
		22-23	1410		1365	432	933	410	
		23-24	1410		1365	432	933	390	
NER-ER*	1st August 2020 to 31st August 2020	00-02	2020	45	1975	42	1933	-380	
		02-07	2020		1975	42	1933	-380	
		07-12	2020		1975	42	1933	-430	
		12-17	2020		1975	42	1933	-321	
		17-18	2020		1975	42	1933	-601	
		18-22	2110		2065	42	2023	-511	
		22-23	2020		1975	42	1933	-601	
		23-24	2020		1975	42	1933	-380	

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W3 zone Injection	1st August 2020 to 31st August 2020	00-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						

Note: TTC/ATC of S1-(S2&S3) corridor, Import of S3(Kerala), 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).

**Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.

1) S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala
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 o)RKM, p)GMR Raikheda, q)Ind Barath and any other regional entity generator in Chhattisgarh

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.

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section

^Though 2X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of WR-SR and ER-SR corridor has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropiate measures like SPS implemetation.

^In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka SLDC by taking appropiate measures.

SR-WR TTC/ATC figures have been calculated considering 01 unit (800 MW) at Kudgi TPS in service. The figures are subject to change with change in generation at Kudgi TPS.

WR-NR/Import of NR TTC has been calculated considering generation at Pariccha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Pariccha TPS.

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
NR*	1st August 2020 to 31st August 2020	00-06	23350 22400**	800	22550 21600**	14334 13384**	8216	900	Revised TTC considering change in power order on HVDC APD-AGRA
		06-09	23350 22400**		22550 21600**	14723 13773**	7827	900	
		09-17	23350 22400**		22550 21600**	14723 13773**	7827	900	
		17-18	23350 22400**		22550 21600**	14723 13773**	7827	900	
		18-24	23350 22400**		22550 21600**	14334 13384**	8216	900	
NER*	1st August 2020 to 31st August 2020	00-02	910	45	865	432	433	-110	(i) Revised TTC due to (a) change in LGBR and (b) addition of 2x150 MW Kameng generation (ii) Change in STOA margins due to change in allocation from Kameng & Mangdekchu
		02-07	910		865	432	433	-110	
		07-12	910		865	474	391	-170	
		12-17	910		865	474	391	-150	
		17-18	910		865	474	391	-90	
		18-22	840		795	432	363	-90	
		22-23	910		865	432	433	-90	
		23-24	910		865	432	433	-110	
WR*									
SR*#	1st August 2020 to 31st August 2020	00-06	12900	750	12150	6698	5452		
		06-18	12900		12150	6783	5367		
		18-24	12900		12150	6698	5452		

* 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).

**Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.

* 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-NR ATC = C

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

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section

#Though 2X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of SR Import has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropiate measures like SPS implemetation.

In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka by taking appropiate measures.

WR-NR/Import of NR TTC has been calculated considering generation at Paricha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Paricha TPS.

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 August 2020 to 31st August 2020	00-06	4500	700	3800	388	3412		
		06-18			3800	1526	2274		
		18-24	4500		3800	388	3412		
NER*	1st August 2020 to 31st August 2020	00-02	2520	45	2475	42	2433	120	(i) Revised TTC due to (a) change in LGBR and (b) addition of 2x150 MW Kameng generation (ii) Change in STOA margins due to change in allocation from Kameng & Mangdekchu
		02-07	2520		2475	42	2433	120	
		07-12	2520		2475	42	2433	70	
		12-17	2520		2475	42	2433	179	
		17-18	2520		2475	42	2433	-101	
		18-22	2610		2565	42	2523	-11	
		22-23	2520		2475	42	2433	-101	
		23-24	2520		2475	42	2433	120	
WR*									
SR*^	1st August 2020 to 31st August 2020	00-24	3700	400	3300	1150	2150		
* 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).									
Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section									

^SR Export TTC/ATC figures have been calculated considering 01 unit (800 MW) at Kudgi TPS in service. The figures are subject to change with change in generation at Kudgi TPS.

Limiting Constraints (Corridor wise)

Corridor	Constraint	Applicable Revisions
WR-NR	N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev- 0 to 3
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 3
ER-NR	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt. 3. N-1 contingency of 400kV MPL- Maithon line will overload the other ckt.	Rev- 0 to 3
WR-SR and ER-SR	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	Rev- 0 to 3
	n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt	
	Low Voltage at Gazuwaka (East) Bus.	
SR-WR	a) N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt b) N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs	Rev- 0 to 3
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Samaguri-Sonabil S/C (200 MW)	Rev- 0 to 2
	N-1 contingency of 400 kV Bongaigaon - Azara line will lead to overloading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev- 3
NER-ER	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing Line	Rev- 0 to 3
W3 zone Injection	---	Rev- 0 to 3

Limiting Constraints (Simultaneous)

		Constraint	Applicable Revisions
NR	**Import**	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt. 3. N-1 contingency of 400kV MPL- Maithon line will overload the other ckt.	Rev- 0 to 3
		N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev- 0 to 3
	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**	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Samaguri-Sonabil S/C (200 MW)	Rev- 0 to 2
		N-1 contingency of 400 kV Bongaigaon - Azara line will lead to overloading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev-3
	Export	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing Line	Rev- 0 to 3
SR	**Import**	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	Rev- 0 to 3
		n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt	
		Low Voltage at Gazuwaka (East) Bus	
	Export	N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt	Rev- 0 to 3
		N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs	

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	28th May 2020	Whole Month	Revision in STOA margin due to operationalization of MTOA from Rajasthan Solar to Maharashtra and MP	NR-WR/Export of NR
2	28th June 2020	Whole Month	Revision in STOA margin due to change in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 151.2 MW to 200 MW	WR-NR/Import of NR
			Revision in STOA margin due to allocation of 20.75 MW power from Kameng HEP to UP, Haryana, Chhattisgarh and Goa	NER-ER/Export of NER/ER-NR/Import of NR
3	30th July 2020	Whole Month	Revised TTC considering change in power order on HVDC APD-AGRA	WR-NR/ER-NR/Import of NR
			(i) Revised TTC due to (a) change in LGBR and (b) addition of 2x150 MW Kameng generation (ii) Change in STOA margins due to change in allocation from Kameng & Mangdekchu	NER-ER/Export of NER/ER-NR/Import of NR

ASSUMPTIONS IN BASECASE					
				Month : August'2020	
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	10228	9530	4580	4618
2	Haryana	9146	9428	2953	2953
3	Rajasthan	10205	11428	6168	6168
4	Delhi	5674	6558	753	753
5	Uttar Pradesh	18102	15529	9903	9908
6	Uttarakhand	2144	1981	1060	1015
7	Himachal Pradesh	1562	1558	859	854
8	Jammu & Kashmir	3049	1686	1075	1017
9	Chandigarh	375	303	0	0
10	ISGS/IPPs	23	23	20932	19626
	Total NR	60510	58023	48283	46912
II	EASTERN REGION				
1	Bihar	5380	4412	99	110
2	Jharkhand	1637	1024	425	421
3	Damodar Valley Corporation	3028	2466	4980	4180
4	Orissa	4823	3995	3952	2615
5	West Bengal	8541	7006	5659	4956
6	Sikkim	114	43	0	0
7	Bhutan	171	168	1474	1444
8	ISGS/IPPs	-171	-168	11907	10404
	Total ER	23523	18947	28495	24128
III	WESTERN REGION				
1	Maharashtra	16912	14197	12996	9886
2	Gujarat	13683	8433	10325	6208
3	Madhya Pradesh	8253	5455	4058	2863
4	Chattisgarh	3890	3168	2239	2230
5	Daman and Diu	297	153	0	0
6	Dadra and Nagar Haveli	781	550	0	0
7	Goa-WR	513	326	0	0
8	ISGS/IPPs	4640	3609	33397	25451
	Total WR	48969	35891	63015	46638

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	SOUTHERN REGION				
1	Andhra Pradesh	9316	6695	6310	5934
2	Telangana	9937	9870	5913	4863
3	Karnataka	8351	4343	6606	3257
4	Tamil Nadu	14738	12867	8660	7460
5	Kerala	3683	2236	1649	423
6	Pondy	298	246	0	0
7	Goa-SR	58	48	0	0
8	ISGS/IPPs	0	0	14970	12179
	Total SR	46381	36305	44109	34117
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	111	70	18	16
2	Assam	1707	1346	295	245
3	Manipur	183	82	0	0
4	Meghalaya	269	198	237	142
5	Mizoram	99	66	68	42
6	Nagaland	120	75	22	16
7	Tripura	259	154	76	75
8	ISGS/IPPs	159	81	2385	2242
	Total NER	2907	2073	3101	2778
	Total All India	182131	151157	187003	154572