National Load Despatch Centre

Total Transfer Capability for June 2020

Issue Date: 28th February 2020 Issue Time: 1800 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 June 2020 to 30th June 2020	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st June 2020 to 30th June 2020	00-06	16150 15200**	500	15650 14700**	10275 9325**	5375 5375**		
		06-18	16150 15200**	500	15650 14700**	10664 9714**	4986 4986**		
		18-24	16150 15200**	500	15650 14700**	10275 9325**	5375 5375**		
NR-ER*	1st June 2020 to 30th June 2020	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st June 2020 to 30th June 2020	00-24	5250	300	4950	4050	900		
W3-ER	1st June 2020 to 30th June 2020	00-24	No limit is being specified.						
ER-W3	1st June 2020 to 30th June 2020	00-24	No limit is being specified.						
WR-SR	1st June 2020 to 30th June 2020	00-05	6950	500	6450	4035	2415		
		05-22	6950		6450		2415		
		22-24	6950		6450		2415		
SR-WR *	1st June 2020 to 30th June 2020	00-24	No limit is being Specified.						
ER-SR	1st June 2020 to 30th June 2020	00-06	5950	250	5700	2663	3037		
		06-18				2748	2952		
		18-24				2663	3037		
SR-ER *	1st June 2020 to 30th June 2020	00-24	No limit is being Specified.						
ER-NER	1st June 2020 to 30th June 2020	00-02	1300	45	1255	289	966		
		02-07	1300		1255	289	966		
		07-12	1260		1215	334	881		
		12-17	1220		1175	334	841		
		17-23	1100		1055	289	766		
		23-24	1300		1255	289	966		
NER-ER	1st June 2020 to 30th June 2020	00-02	2390	45	2345	0	2345		
		02-07	2390		2345		2345		
		07-12	2330		2285		2285		
		12-17	2300		2255		2255		
		17-23	2600		2555		2555		
		23-24	2390		2345		2345		

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W3 zone Injection	1st June 2020 to 30th June 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

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

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 June 2020 to 30th June 2020	00-06	21500 20550**	800	20700 19750**	14325 13375**	6375		
		06-09	23050 22100**		22250 21300**	14714 13764**	7536		
		09-17	23050 22100**		22250 21300**	14714 13764**	7536		
		17-18	21500 20550**		20700 19750**	14714 13764**	5986		
		18-24	21500 20550**		20700 19750**	14325 13375**	6375		
NER	1st June 2020 to 30th June 2020	00-02	1300	45	1255	289	966		
		02-07	1300		1255	289	966		
		07-12	1260		1215	334	881		
		12-17	1220		1175	334	841		
		17-23	1100		1055	289	766		
		23-24	1300		1255	289	966		
WR									
SR	1st June 2020 to 30th June 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									
**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									
* For approving STOA Bilateral transactions, margin available in Simultaneous Import of NR would be apportioned on WR-NR Corridor & ER-NR									
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 June be taken care of by									

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 2020 to 31st June 2020	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st June 2020 to 31st June 2020	00-02	2390	45	2345	0	2345		
		02-07	2390		2345		2345		
		07-12	2330		2285		2285		
		12-17	2300		2255		2255		
		17-23	2600		2555		2555		
		23-24	2390		2345		2345		
WR									
SR *	1st June 2020 to 31st June 2020	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).

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

Limiting Constraints (Corridor wise)

Corridor	Constraint	Applicable Revisions
WR-NR	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev- 0
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0
ER-NR	1. N-1 contingencies of 400 kv Mejia-Maithon A S/C 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/C 3. N-1 contingencies of 400kV MPL- Maithon S/C	Rev- 0
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
	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.	
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev- 0
NER-ER	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading in Meghalya Internal Power System	Rev- 0
W3 zone Injection	---	Rev- 0

Limiting Constraints (Simultaneous)

		Constraint	Applicable Revisions
NR	**Import**	1. N-1 contingencies of 400 kv Mejia-Maithon A S/C 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/C 3. N-1 contingencies of 400kV MPL- Maithon S/C	Rev- 0
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev- 0
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0
		(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 Salakati-BTPS Double circuit (200 MW)	Rev- 0
	Export	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading in Meghalya Internal Power System	Rev- 0
SR	**Import**	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	Rev- 0
		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	

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

ASSUMPTIONS IN BASECASE					
				Month : June'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	10067	9726	5031	5107
2	Haryana	8695	8519	2953	2953
3	Rajasthan	11103	11509	7197	7197
4	Delhi	5675	6190	675	675
5	Uttar Pradesh	17079	15541	9239	9284
6	Uttarakhand	2148	1875	1185	1164
7	Himachal Pradesh	1519	1293	709	627
8	Jammu & Kashmir	2948	2295	1114	1113
9	Chandigarh	328	304	0	0
10	ISGS/IPPs	25	25	21665	19179
	Total NR	59587	57276	49768	47299
II	EASTERN REGION				
1	Bihar	5009	4587	110	110
2	Jharkhand	1278	1057	425	421
3	Damodar Valley Corporation	3015	2593	5201	4318
4	Orissa	4039	4140	3508	2655
5	West Bengal	8514	7270	5621	5053
6	Sikkim	114	45	0	0
7	Bhutan	171	164	766	621
8	ISGS/IPPs	-171	-164	12531	11066
	Total ER	21969	19691	28162	24243
III	WESTERN REGION				
1	Maharashtra	18737	16633	12295	11747
2	Gujarat	15902	12455	10497	8468
3	Madhya Pradesh	9628	7772	5051	3670
4	Chattisgarh	4024	3560	1908	2133
5	Daman and Diu	311	282	0	0
6	Dadra and Nagar Haveli	761	709	0	0
7	Goa-WR	524	498	0	0
8	ISGS/IPPs	4774	3644	37337	31485
	Total WR	54661	45553	67088	57504

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	9605	6730	8327	6053
2	Telangana	7763	7848	4598	4644
3	Karnataka	9884	8330	7755	5857
4	Tamil Nadu	15780	13783	9577	8276
5	Kerala	3667	2269	1637	235
6	Pondy	314	265	0	0
7	Goa-SR	61	52	0	0
8	ISGS/IPPs	0	0	12710	12179
	Total SR	47074	39278	44605	37244
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	121	76	8	8
2	Assam	1774	1188	284	244
3	Manipur	179	82	0	0
4	Meghalaya	276	208	215	154
5	Mizoram	100	66	8	8
6	Nagaland	126	91	16	8
7	Tripura	245	149	75	75
8	ISGS/IPPs	153	82	2392	2083
	Total NER	2975	1943	2998	2580
	Total All India	186264	163742	192620	168870