National Load Despatch Centre Total Transfer Capability for February 2014

Issue Date: 31/01/2014 Issue Time: 1800 hrs Revision No. 7

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 February 2014 to 28th February 2014	00-24	2500	500	2000	286	1714		
WR-NR ¹	1st February 2014 to 28th February 2014	00-17 23-24	3900	500	3400	3181	219		
	200110010017	17-23	3900		3400	3181	219		
NR-ER *	1st February 2014 to 28th February 2014	00-17 23-24	1000	200	800	200	600		
	1st February 2014	17-23 00-07 16-17 23-24	2600	300	2300	2118	700 182	700	Revised due to shutdown of Purnea- Malda ckt-1
ER-NR	2.17.1	07-16' 17-23 00-17	1900 1900		1600 1600		0	-700	
	2nd February 2014 to 6th February 2014	23-24 17-23	2600 1900	300	2300 1600	2118	0		
	7th February 2014 to 28th February 2014	00-17 23-24 17-23	3600 3100	300	3300 2800	2118	1182 1182		
		17 23	3100		2000		1102		
W3-ER	1st February 2014 to 28th February 2014 1st February 2014 to	00-24	1800	300	1500	0	1500		
ER-W3	28th February 2014	00-24	1000	300	700	700	0		
	1st February 2014 to		0.70		2.50	0.70			
WR-SR SR-WR *	28th February 2014 1st February 2014 to	00-24	1000	0	1000	850	1000		
511 1111	28th February 2014	00 2 .	1000	Ů	1000	Ů	1000		
ER-SR	1st February 2014 to 28th February 2014	00-05 10-19 05-10 19-24	700 700	0	700 700	700	0		
SR-ER*	1st February 2014 to 28th February 2014	00-17 23-24	1100	0	1100	197	903		
		17-23	1100		1100		903		
	1st February 2014	00-07 16-17 23-24	350	50	300	230	70	20	Revised due to shutdown of Purnea- Malda ckt-1
		07-16' 17-23	320 330		270 280		40 50	-30	
ER-NER ²	2nd February 2014 to 6th February 2014	00-17 23-24	350	50	300	230	70		
	7th February 2014 to	17-23 00-17 23-24	720	50	280 670	230	50 440		
	28th February 2014	17-23	640		590		360		
NER-ER	1st February 2014 to 28th February 2014	00-17 23-24 17-23	570 570	100	470 470	0	470 470		
		11-23	510		710		770		
S1-S2	1st February 2014 to 28th February 2014	00-24	5650	400	5250	4900	350		
Import of Punjab	1st February 2014 to 28th February 2014	00-24	5600	300	5300	3800	1500		
Import TTC for DD & DNH	1st February 2014 to 28th February 2014	00-24	980	0	980	LTA and MTO			

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	1st February 2014	00-08 23-24	8500	200	8300	7630	670		
		08-16'	7600		7400		-230		
		16-17	8600		8400		770		
W3 zone		17-18	9100		8900		1270		
Injection		18-23	9500		9300		1670		
injection	2nd February 2014 to 28th February 2014	00-08 23-24	8500		8300	7630	670		
		08-16'	8000	200	7800		170		
		16-17	9000		8800		1170	·	
		17-23	9500		9300		1670		

^{*} 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).

- 1) ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC B/B seam
- 2) S1 comprises of AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Pondicherry
- 3) W3 comprises of the following regional entities:
- a) Chattisgarh, b) Jindal Power Limited (JPL), 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

- 1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:
 - 765 kV Gwalior-Agra one circuit
 - 765 kV Bina-Gwalior one circuit

2. ER-NER Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff circuit.

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 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
ER-NR	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
W3-ER	(n-1) contingency of 400kV Sterilte-Rourkela S/C
ER-W3	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400kV Raigarh-Sterlite
WR-SR & ER-SR	Commissioning of 765kV Raichur-Sholapur S/C Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations (LFO) Considering transfer capability assessment by CTU on NEW-SR corridor.
SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER	
ER-NER	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
NER-ER	(n-1) contingency of 400 kV Farakka-Malda
S1-S2	(n-1) contingency of 400 kV Kolar-Hosur D/C line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line.
Import of Punjab	(n-1) contingency of ICT at Patiala/Moga
W3 zone Injection	(n-1) contingency of 400 kV 400 kV Raipur-Wardha

^{*}Primary constraints

[#] The figure is based on LTA/MTOA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage the LTA/MTOA utilized would be les. RLDC/ NLDC would factor this situation while issuing STOA approvals

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									
	1st February 2014	00-07 16-17 23-24	6500	800	5700	5299	401	500	Revised due to shutdown of Purnea-Malda ckt-1
		07-16' 17-23	5800 5800		5000 5000		0	-700	
NR ¹	2nd February 2014 to 6th February 2014	00-17 23-24	6500	800	5700	5299	401		
	our reducity 2014	17-23	5800		5000		0		
	7th February 2014 to 28th February 2014	00-17 23-24	7500	800	6700	5299	1401		
		17-23	7000		6200		901		
	1st February 2014	00-07 16-17 23-24	350	50	300	230	70		Revised due to shutdown of Purnea-Malda ckt-1
		07-16'	320		270		40	-30	of Purnea-ivialda ckt-1
		17-23	330		280		50		
NER ²	2nd February 2014 to 6th February 2014	00-17 23-24	350	50	300	230	70		
	our restuting 2014	17-23	330		280		50		
	7th February 2014 to 28th February 2014	00-17 23-24	720	50	670	230	440		
	2011 Tebruary 2014	17-23	640		590		360		
WR									
SR	1st February 2014 to	00-05 10-19	1550	0	1550		0		
	28th February 2014 05-10 15-50 1550	1550	0						

1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:

- 765 kV Gwalior-Agra one circuit 765 kV Bina-Gwalior one circuit

2. ER-NER Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff circuit.

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 February 2014 to 28th February 2014	00-17 23-24	3500	700	2800	286	2514		
	28th February 2014	17-23	3600		2900		2614		
NER	1st February 2014 to 28th February 2014	00-17 23-24	570	100	470	0	470		
		17-23	570		470		470		
WR									
WK									
SR*	1st February 2014 to	00-17 23-24	2100	0	2100	197	1903		
	28th February 2014	17-23	2100		2100		1903		

^{*} 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

		(n-1) contingency of 400 kV Kahalgaon-Biharshariff
	Import	
NR	•	High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
111	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(n-1) contingency of 400 kV Allahabad-Pusauli
NER	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
NEK	Export	(n-1) contingency of 400 kV Farakka-Malda
		1. Commissioning of 765kV Raichur-Sholapur S/C
	T4	2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent
SR	Import	variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations (LFO)
		Considering transfer capability assessment by CTU on NEW-SR corridor.
	Export	

^{*}Primary constraints

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected	
1	06-11-2013	Whole Month	Revised considering the LTA/MTOA on NR-ER Path	NR-ER	
2	27-11-2013	Whoe Month	Revised due to change in Load Generation in WR/NR Commissioning of 400 kV Purnea-Biharshariff D/C and Network reconfiguration at Malda & Purnea. Revised due to change in Inter-Regional flow pattern and Load generation change in ER/WR.	WR-NR ER-NR/ER-NER W3 Zone Injection	
3	22-01-2014	Whoe Month	Revised due to commissioning of 765kV Raichur-Sholapur S/C	WR-SR/ER-SR	
	29-01-2014	-	01.02.14 - 06.02.14	Revised due to shutdown of 400kV Kahalgaon-Biharshariff D/C	ER-NR/ER-NER
4			07.02.14 - 31.02.14	Revised due to shutdown of TEESTA Power Station	ER-NR
			Whole Month	Revside due to Non-Commissioning of Kudankulam U-1, Vallur U-3 & NLC Exp U-1	S1-S2
5	30-01-2014	01.02.14 - 06.02.14	Revised due to change in ER and Inter-regional flow pattern.	ER-NER/ER-NR	
6	31-01-2014	01.02.14	Revised due to shutdown of 400kV Seoni-Bhilai	W3 Zone Injection	
7	31-01-2014	01.02.14	Revised due to shutdown of Purnea-Malda ckt-1	ER-NER/ER-NR	