

**POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE
NEW DELHI**

**Date of Reporting: 28-Dec-16
System Reliability Indices Report for: 27-Dec-16**

Percentage (%) of times ATC was violated

| S.No. | Corridor | Number of Blocks Violated | Number of Hours Violated | %Violation |
|--------------|-----------------|----------------------------------|---------------------------------|-------------------|
| 1 | WR-NR | 5 | 1.25 | 5.21 |
| 2 | ER-NR | 0 | 0.00 | 0.00 |
| 3 | Import of NR | 4 | 1.00 | 4.17 |
| 4 | NEW-SR | 6 | 1.50 | 6.25 |
| 5 | NER Import | 0 | 0.00 | 0.00 |

Percentage(%) of times (N-1) Criteria was violated

| S.No. | Corridor | Number of Blocks Violated | Number of Hours Violated | %Violation |
|--------------|-----------------|----------------------------------|---------------------------------|-------------------|
| 1 | WR-NR | 2 | 0.50 | 2.08 |
| 2 | ER-NR | 0 | 0.00 | 0.00 |
| 3 | Import of NR | 0 | 0.00 | 0.00 |
| 4 | NEW-SR | 0 | 0.00 | 0.00 |
| 4 | NER Import | 0 | 0.00 | 0.00 |

Remarks: Flows crossing Total Transfer Capability (TTC) on interregional corridors has been worked out as a proxy for (N-1) violation.

Voltage Profile for the day of 27-Dec-2016

| Region | Station | %age of time Voltage below 728/380 kV | %age of time Voltage between 728/380 kV & 800/420 kV | %age of time Voltage above 800/420 kV | Voltage deviation index (%age of time voltage is outside IEGC band) | Maximum Voltage (kV) | Minimum Voltage (kV) | Average Voltage (kV) |
|----------------|---------------------|---------------------------------------|--|---------------------------------------|---|----------------------|----------------------|----------------------|
| NR | Agra | 0.00% | 100.00% | 0.00% | 0.00% | 790 | 756 | 774 |
| | Anpara-C | 0.00% | 100.00% | 0.00% | 0.00% | 777 | 758 | 766 |
| | Ballia | 0.00% | 100.00% | 0.00% | 0.00% | 792 | 761 | 774 |
| | Bhiwani | 0.00% | 79.86% | 20.14% | 20.14% | 808 | 773 | 790 |
| | Bareilly | 0.00% | 100.00% | 0.00% | 0.00% | 760 | 760 | 760 |
| | Fatehpur | 0.00% | 100.00% | 0.00% | 0.00% | 776 | 742 | 759 |
| | Jhatikara | 0.00% | 80.35% | 19.65% | 19.65% | 808 | 770 | 788 |
| | Lucknow | 0.00% | 100.00% | 0.00% | 0.00% | 797 | 771 | 778 |
| | Meerut | 0.00% | 92.92% | 5.63% | 5.63% | 805 | 761 | 787 |
| | Moga | 0.00% | 99.51% | 0.49% | 0.49% | 802 | 758 | 784 |
| Phagi | 0.00% | 99.51% | 0.49% | 0.49% | 803 | 753 | 781 | |
| Unnao | 0.00% | 100.00% | 0.00% | 0.00% | 777 | 745 | 758 | |
| WR | Akola | 0.00% | 100.00% | 0.00% | 0.00% | 788 | 757 | 771 |
| | Aurangabad | 0.00% | 99.51% | 0.49% | 0.49% | 804 | 767 | 785 |
| | Bhopal (BDTCL) | 0.00% | 100.00% | 0.00% | 0.00% | 789 | 763 | 773 |
| | Bilaspur | 0.00% | 100.00% | 0.00% | 0.00% | 780 | 762 | 771 |
| | Bina | 0.00% | 100.00% | 0.00% | 0.00% | 796 | 764 | 779 |
| | Champa | 0.00% | 67.78% | 27.64% | 27.64% | 805 | 786 | 795 |
| | Dharamjaigarh | 0.00% | 100.00% | 0.00% | 0.00% | 796 | 776 | 786 |
| | Dhule (BDTCL) | 0.00% | 100.00% | 0.00% | 0.00% | 794 | 766 | 780 |
| | Gwalior | 0.00% | 100.00% | 0.00% | 0.00% | 797 | 763 | 779 |
| | Indore | 0.00% | 100.00% | 0.00% | 0.00% | 791 | 757 | 776 |
| | Jabalpur | 0.00% | 100.00% | 0.00% | 0.00% | 781 | 781 | 781 |
| | Koradi | 0.00% | 100.00% | 0.00% | 0.00% | 773 | 748 | 759 |
| | Pune | 0.00% | 99.79% | 0.00% | 0.00% | 800 | 760 | 776 |
| | Raigarh PS (Kotra) | 0.00% | 97.08% | 2.92% | 2.92% | 801 | 782 | 791 |
| | Raipur PS (Durg) | 0.00% | 100.00% | 0.00% | 0.00% | 798 | 780 | 786 |
| | Sasan | 0.00% | 100.00% | 0.00% | 0.00% | 777 | 757 | 765 |
| | Satna | 0.00% | 100.00% | 0.00% | 0.00% | 789 | 760 | 771 |
| | Seoni | 0.00% | 100.00% | 0.00% | 0.00% | 796 | 764 | 780 |
| | Sipat | 0.00% | 100.00% | 0.00% | 0.00% | 779 | 760 | 769 |
| | Sholapur | 0.00% | 95.07% | 4.93% | 4.93% | 807 | 768 | 789 |
| Tamnara PS | 0.00% | 100.00% | 0.00% | 0.00% | 800 | 782 | 791 | |
| Tirora | 0.00% | 100.00% | 0.00% | 0.00% | 766 | 751 | 758 | |
| Vadodara | 0.00% | 100.00% | 0.00% | 0.00% | 799 | 771 | 784 | |
| Vindhyachal PS | 0.00% | 100.00% | 0.00% | 0.00% | 777 | 764 | 768 | |
| Wardha | 0.00% | 98.33% | 1.67% | 1.67% | 807 | 773 | 788 | |
| SR | Nellore PS | 0.00% | 98.61% | 1.39% | 1.39% | 802 | 778 | 789 |
| | Raichur | 0.00% | 99.65% | 0.35% | 0.35% | 803 | 768 | 787 |
| | Kurnool | 0.00% | 93.54% | 6.46% | 6.46% | 806 | 774 | 791 |
| | Thiruvalam | 0.00% | 61.04% | 38.96% | 38.96% | 812 | 785 | 798 |
| ER | Angul | 0.00% | 100.00% | 0.00% | 0.00% | 795 | 771 | 782 |
| | Gaya | 0.00% | 100.00% | 0.00% | 0.00% | 795 | 761 | 777 |
| | Jharsuguda | 0.00% | 95.14% | 4.86% | 4.86% | 804 | 783 | 789 |
| | Ranchi | 0.00% | 100.00% | 0.00% | 0.00% | 798 | 775 | 786 |
| Sasaram | 0.00% | 100.00% | 0.00% | 0.00% | 765 | 733 | 752 | |
| NER | Azara (400 kV) | 0.00% | 100.00% | 0.00% | 0.00% | 415 | 405 | 411 |
| | Balipara (400 kV) | 0.00% | 88.13% | 11.88% | 11.88% | 423 | 397 | 413 |
| | Bongaigaon (400 kV) | 0.00% | 99.93% | 0.07% | 0.07% | 420 | 398 | 411 |
| | Misa (400 kV) | 0.00% | 48.06% | 51.94% | 51.94% | 430 | 406 | 420 |
| | Silchar (400 kV) | 0.00% | 70.35% | 29.65% | 29.65% | 426 | 404 | 416 |

Remarks: Unless specified, Station may be treated as 765kV S/S.