

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

**Date of Reporting: 17-Aug-15  
System Reliability Indices Report for: 16-Aug-15**

**Percentage (%) of times ATC was violated**

| <b>S.No.</b> | <b>Corridor</b> | <b>Number of Blocks Violated</b> | <b>Number of Hours Violated</b> | <b>%Violation</b> |
|--------------|-----------------|----------------------------------|---------------------------------|-------------------|
| 1            | WR-NR           | 9                                | 2.25                            | 9.38              |
| 2            | ER-NR           | 0                                | 0.00                            | 0.00              |
| 3            | NEW-SR          | 45                               | 11.25                           | 46.88             |
| 4            | ER-NER          | 0                                | 0.00                            | 0.00              |

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

| <b>S.No.</b> | <b>Corridor</b> | <b>Number of Blocks Violated</b> | <b>Number of Hours Violated</b> | <b>%Violation</b> |
|--------------|-----------------|----------------------------------|---------------------------------|-------------------|
| 1            | WR-NR           | 8                                | 2.00                            | 8.33              |
| 2            | ER-NR           | 0                                | 0.00                            | 0.00              |
| 3            | NEW-SR          | 43                               | 10.75                           | 44.79             |
| 4            | ER-NER          | 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 16-Aug-2015

| 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%   | 796                  | 760                  | 781                  |
|        | Ballia              | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 780                  | 745                  | 764                  |
|        | Bhiwani             | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 800                  | 767                  | 786                  |
|        | Fatehpur            | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 774                  | 741                  | 761                  |
| WR     | Aurangabad          | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 784                  | 748                  | 765                  |
|        | Dharamjaigarh       | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 765                  | 753                  | 758                  |
|        | Gwalior             | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 798                  | 764                  | 784                  |
|        | Sholapur            | 0.00%                                 | 76.94%   | 11.81%                                | 11.81%  | 808                  | 767                  | 791                  |
| SR     | Raichur             | 0.00%                                 | 77.64%   | 0.00%                                 | 0.00%   | 800                  | 778                  | 793                  |
|        | Nellore PS          | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 765                  | 765                  | 765                  |
|        | Somanhalli (400 kV) | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 418                  | 396                  | 406                  |
|        | Salem (400 kV)      | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 417                  | 402                  | 409                  |
| ER     | Ranchi              | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 763                  | 763                  | 763                  |
|        | Gaya                | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 781                  | 752                  | 768                  |
|        | Sasaram             | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 747                  | 747                  | 747                  |
|        | Binaguri (400 kV)   | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 414                  | 404                  | 409                  |
| NER    | Balipara (400 kV)   | 0.00%                                 | 86.67%   | 6.11%                                 | 6.11%   | 423                  | 414                  | 417                  |
|        | Bongaigaon (400 kV) | 0.00%                                 | 100.00%  | 0.00%                                 | 0.00%   | 412                  | 403                  | 406                  |
|        | Misa (400 kV)       | 0.00%                                 | 97.64%   | 0.00%                                 | 0.00%   | 420                  | 412                  | 415                  |

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