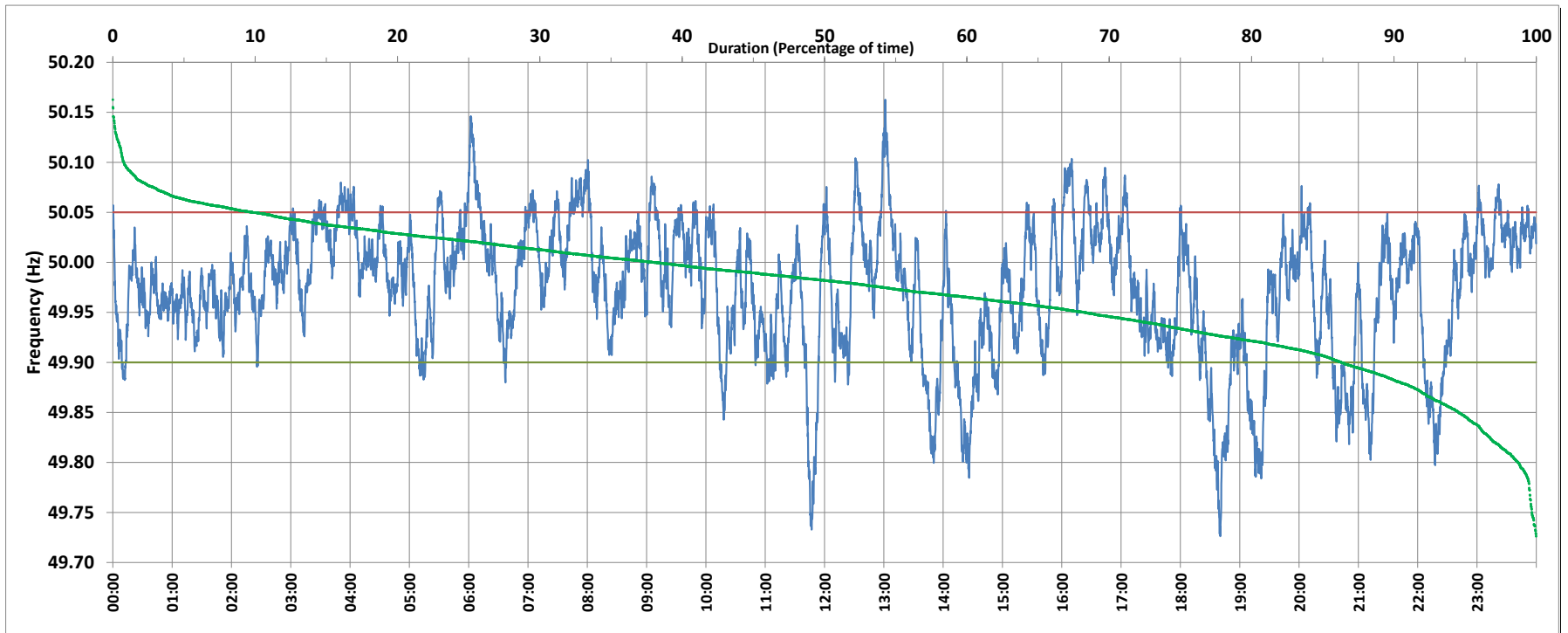


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 18-Aug-2018 (Saturday)



| | | | | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|------|--------|--------|-------|--------|-------------|-------------|
| <49.7 | <49.90 | <49.97 | 49.7-49.8 | 49.8-49.9 | 49.9-50.0 | 50.0-50.1 | 50.1-50.2 | 49.90-50.05 | 49.7-50.2 | 49.97-50.03 | 50.05-50.1 | >50 | >50.03 | >50.05 | >50.2 | <49.95 | 49.95-50.05 | 49.90-49.95 |
| 0.0 | 13.7 | 43.0 | 1.3 | 12.4 | 48.2 | 37.3 | 0.8 | 76.5 | 100.0 | 37.7 | 9.1 | 38.0 | 19.2 | 9.8 | 0.0 | 31.7 | 58.5 | 18.0 |

| | | | | |
|----------------------------|-----------------------------------|----------------------------|---------------|-----------|
| Average Frequency : 49.973 | Frequency Variation Index : 0.051 | Standard Deviation : 0.066 | Mileage: 48.2 | FDI: 23.5 |
|----------------------------|-----------------------------------|----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.163 | 13:01:20 |
| Min | 49.726 | 18:40:20 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.082 | 6:15:00 |
| Min | 49.805 | 18:45:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 127 |
| below 49.97 Hz | 134 |
| above 50.00 Hz | 152 |
| below 50.00 Hz | 152 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:04:37 |
| above 50.03 | 0:02:11 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 5:38:20 |
|---|---------|

Source : MPPTCL BINA:Frequency 10 Sec. (8640 samples)