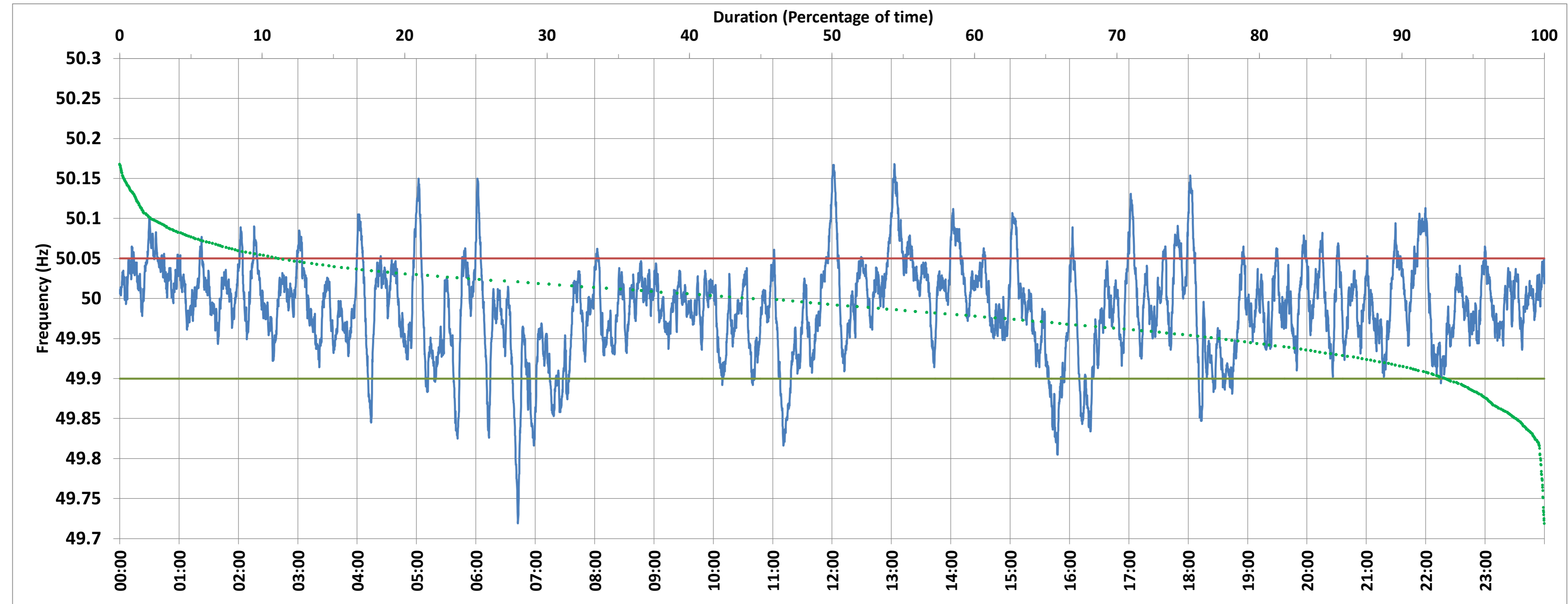


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



SOMANAHALLI:Frequency

National Grid Frequency Profile for 19-Jan-2018



| | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|
| <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 |
| 0.00 | 6.84 | 34.03 | 0.27 | 6.57 | 47.05 | 43.82 | 2.29 | 82.03 | 100.00 | 45.15 | 9.26 | 44.46 | 20.82 | 11.13 | 0.00 |

| | | | | | | | |
|---------------------|--------|-----------------------------|-------|----------------------|-------|----------------------------|--------|
| Average Frequency : | 49.988 | Frequency Variation Index : | 0.035 | Standard Deviation : | 0.058 | Positive Mileage(Above>50) | 143.18 |
| | | | | | | Negative Mileage(Below<50) | 243.91 |

| | | |
|-------------------------|--------|----------|
| Instantaneous Frequency | | |
| Max | 50.168 | 13:03:00 |
| Min | 49.719 | 6:42:30 |

| | | |
|-----------------------------|--------|----------|
| 15 minute Average Frequency | | |
| Max | 50.096 | 13:15:00 |
| Min | 49.884 | 7:30:00 |

| | |
|----------------------------------|-----|
| No. of excursions above 50.03 Hz | 121 |
| No. of excursions below 49.97 Hz | 133 |
| No. of excursions above 50.00 Hz | 110 |
| No. of excursions below 50.00 Hz | 103 |

| | | | |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:03:41 | Average time frequency remains above 50.03 per excursion | 0:02:29 |
|---|---------|--|---------|