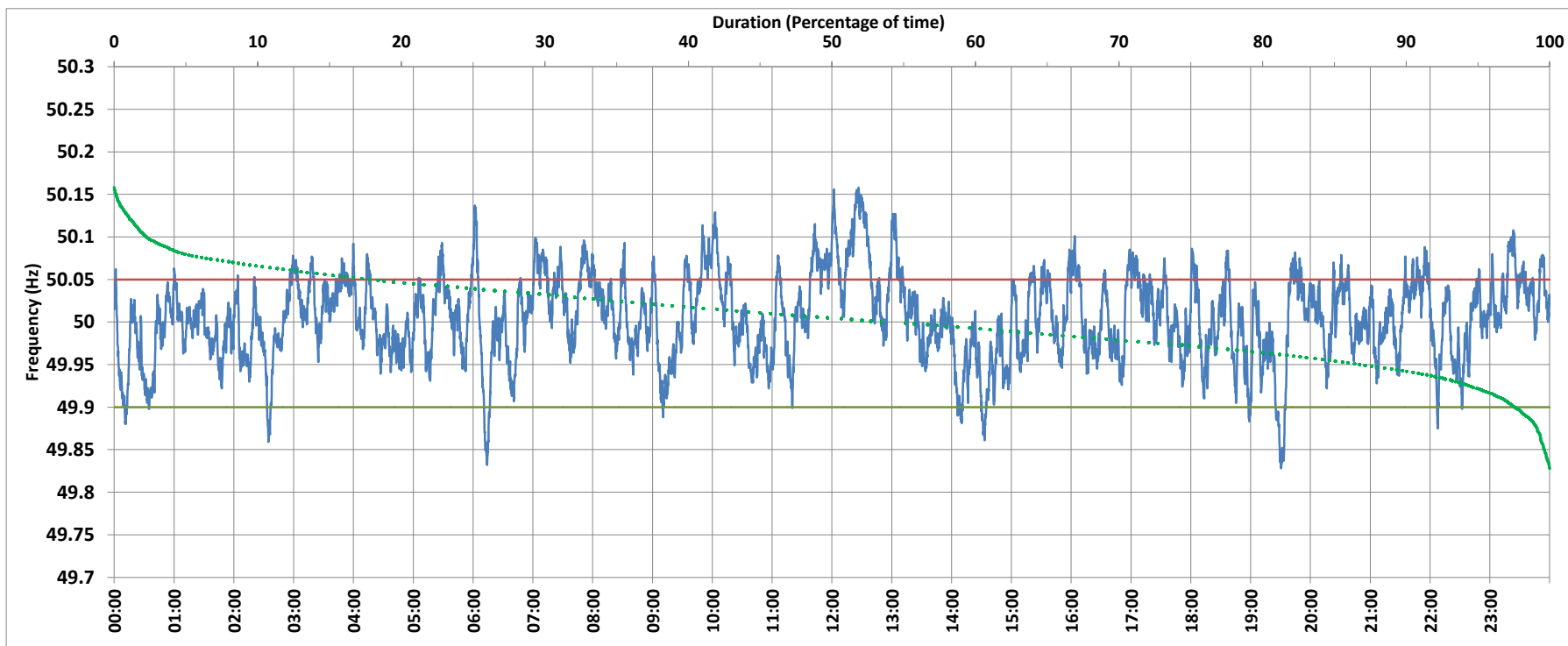


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



BAWANA:Frequency

National Grid Frequency Profile for 31/Aug/2017



| <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 | 2.37 | 23.22 | 0.00 | 2.37 | 42.52 | 52.80 | 2.30 | 79.85 | 100.00 | 45.41 | 16.13 | 53.45 | 31.38 | 17.78 | 0.00 |

| | | | | | |
|---------------------|--------|-----------------------------|-------|----------------------|-------|
| Average Frequency : | 50.005 | Frequency Variation Index : | 0.025 | Standard Deviation : | 0.050 |
|---------------------|--------|-----------------------------|-------|----------------------|-------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.158 | 12:26:30 |
| Min | 49.828 | 19:30:40 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.116 | 12:30:00 |
| Min | 49.919 | 14:45:00 |

| | |
|----------------------------------|-----|
| No. of excursions above 50.03 Hz | 135 |
| No. of excursions below 49.97 Hz | 133 |
| No. of excursions above 50.00 Hz | 124 |
| No. of excursions below 50.00 Hz | 116 |

| | | | |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:02:31 | Average time frequency remains above 50.03 per excursion | 0:03:21 |
|---|---------|--|---------|