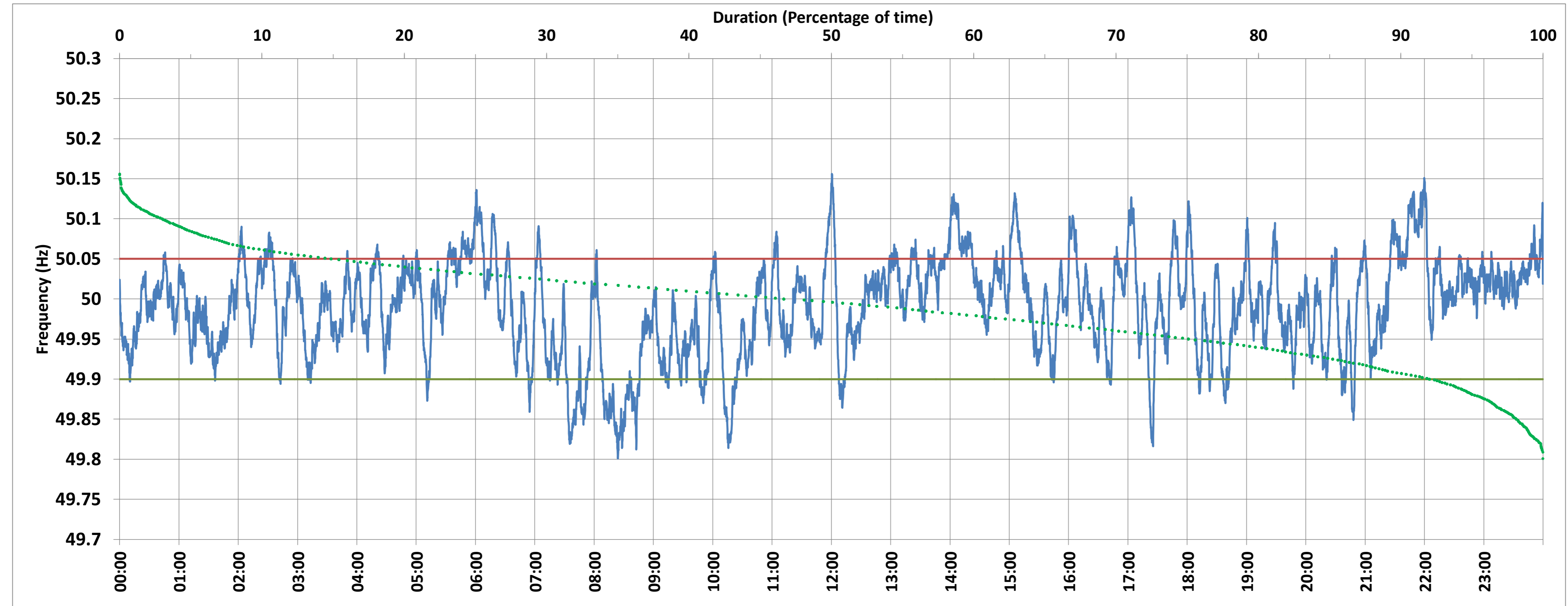


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



BAWANA:Frequency

National Grid Frequency Profile for 7-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 | 7.64 | 34.53 | 0.00 | 7.64 | 44.27 | 45.01 | 3.08 | 77.50 | 100.00 | 39.32 | 12.41 | 46.66 | 26.16 | 14.86 | 0.00 |

| | | | | | |
|---------------------|--------|-----------------------------|-------|----------------------|-------|
| Average Frequency : | 49.990 | Frequency Variation Index : | 0.038 | Standard Deviation : | 0.061 |
|---------------------|--------|-----------------------------|-------|----------------------|-------|

| | | |
|-------------------------|--------|----------|
| Instantaneous Frequency | | |
| Max | 50.156 | 12:00:30 |
| Min | 49.801 | 8:24:00 |

| | | |
|-----------------------------|--------|----------|
| 15 minute Average Frequency | | |
| Max | 50.109 | 22:00:00 |
| Min | 49.846 | 8:30:00 |

| | |
|----------------------------------|-----|
| No. of excursions above 50.03 Hz | 124 |
| No. of excursions below 49.97 Hz | 95 |
| No. of excursions above 50.00 Hz | 116 |
| No. of excursions below 50.00 Hz | 103 |

| | | | |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:05:14 | Average time frequency remains above 50.03 per excursion | 0:03:02 |
|---|---------|--|---------|