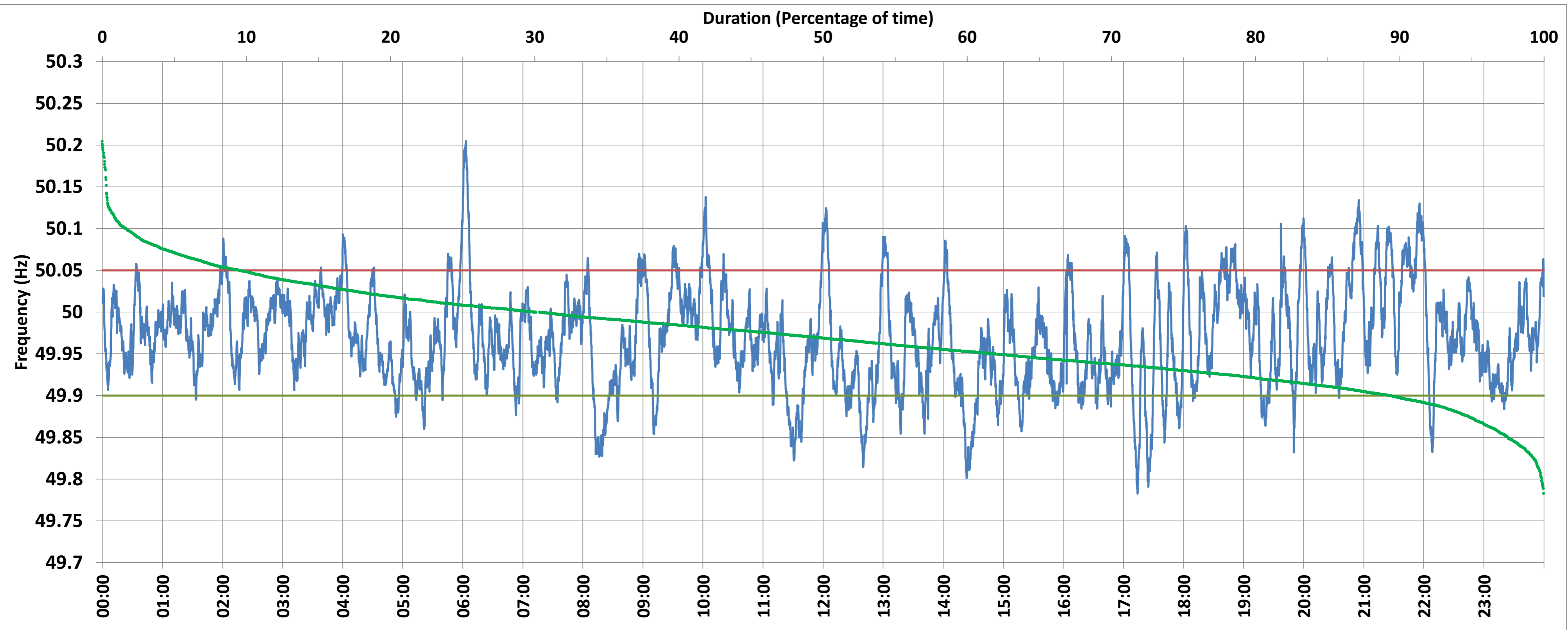


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



NTPC-VINDHYACHAL:Frequency

National Grid Frequency Profile for 11-Nov-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 | 10.73 | 50.75 | 0.14 | 10.59 | 59.36 | 28.25 | 1.62 | 79.75 | 99.97 | 33.67 | 7.91 | 29.85 | 15.58 | 9.53 | 0.03 |

| | | | | | |
|---------------------|--------|-----------------------------|-------|----------------------|-------|
| Average Frequency : | 49.970 | Frequency Variation Index : | 0.045 | Standard Deviation : | 0.060 |
|---------------------|--------|-----------------------------|-------|----------------------|-------|

| | | | | | | | | |
|-------------------------|--------|----------|-----------------------------|--------|----------|----------------------------------|--|-----|
| Instantaneous Frequency | | | 15 minute Average Frequency | | | No. of excursions above 50.03 Hz | | 74 |
| Max | 50.205 | 6:03:10 | Max | 50.076 | 22:00:00 | No. of excursions below 49.97 Hz | | 150 |
| Min | 49.783 | 17:14:10 | Min | 49.861 | 14:30:00 | No. of excursions above 50.00 Hz | | 154 |
| | | | | | | No. of excursions below 50.00 Hz | | 153 |

| | | | |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:04:52 | Average time frequency remains above 50.03 per excursion | 0:03:02 |
|---|---------|--|---------|