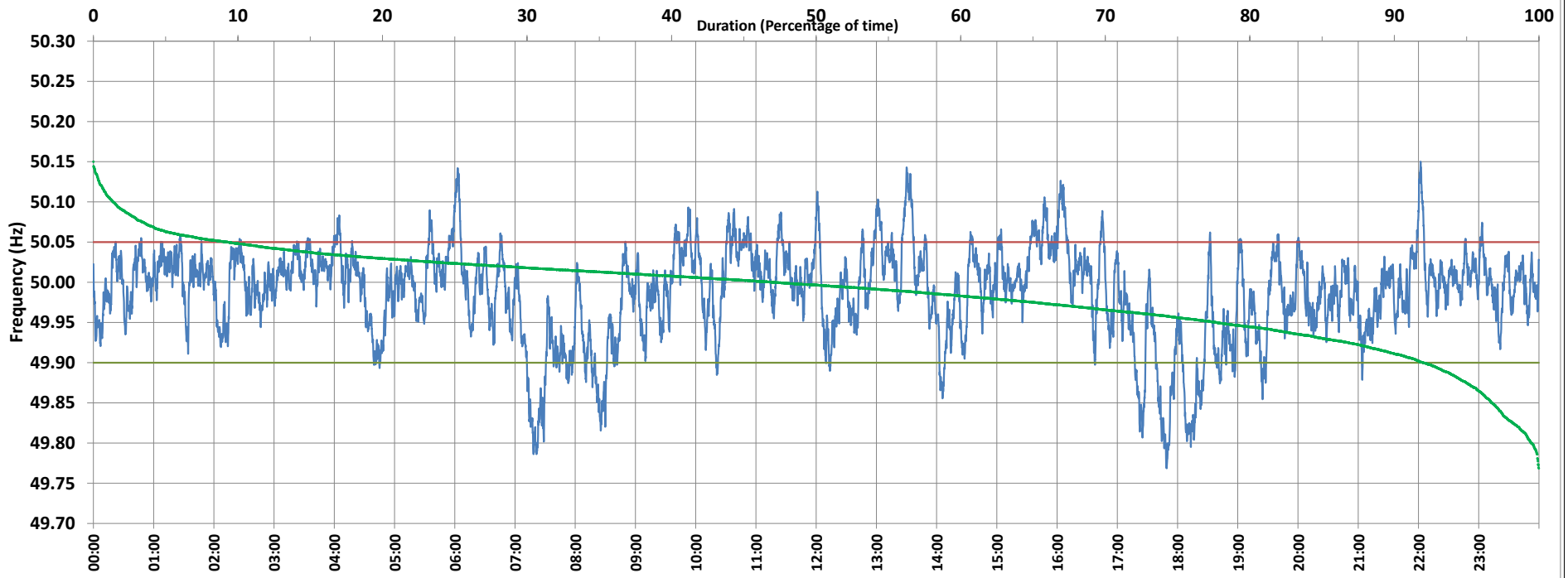


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 17-Aug-2020 (Monday)



| | | | | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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 |
| 0.00 | 8.01 | 32.14 | 0.52 | 7.49 | 44.81 | 45.81 | 1.37 | 82.71 | 100.00 | 48.18 | 7.99 | 47.06 | 19.68 | 9.28 | 0.00 | 22.27 | 68.45 | 14.26 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.987 | Frequency Variation Index : 0.0350 | Standard Deviation : 0.0576 | Mileage: 47.0 | FDI: 17.3 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.150 | 22:02:00 |
| Min | 49.769 | 17:49:10 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.065 | 16:15:00 |
| Min | 49.824 | 7:30:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 153 |
| below 49.97 Hz | 139 |
| above 50.00 Hz | 197 |
| below 50.00 Hz | 193 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:03:20 |
| above 50.03 | 0:01:51 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 4:09:00 |
|---|---------|

Source : NTPC-VINDHYACHAL:Frequency 10 Sec. (8640 samples)