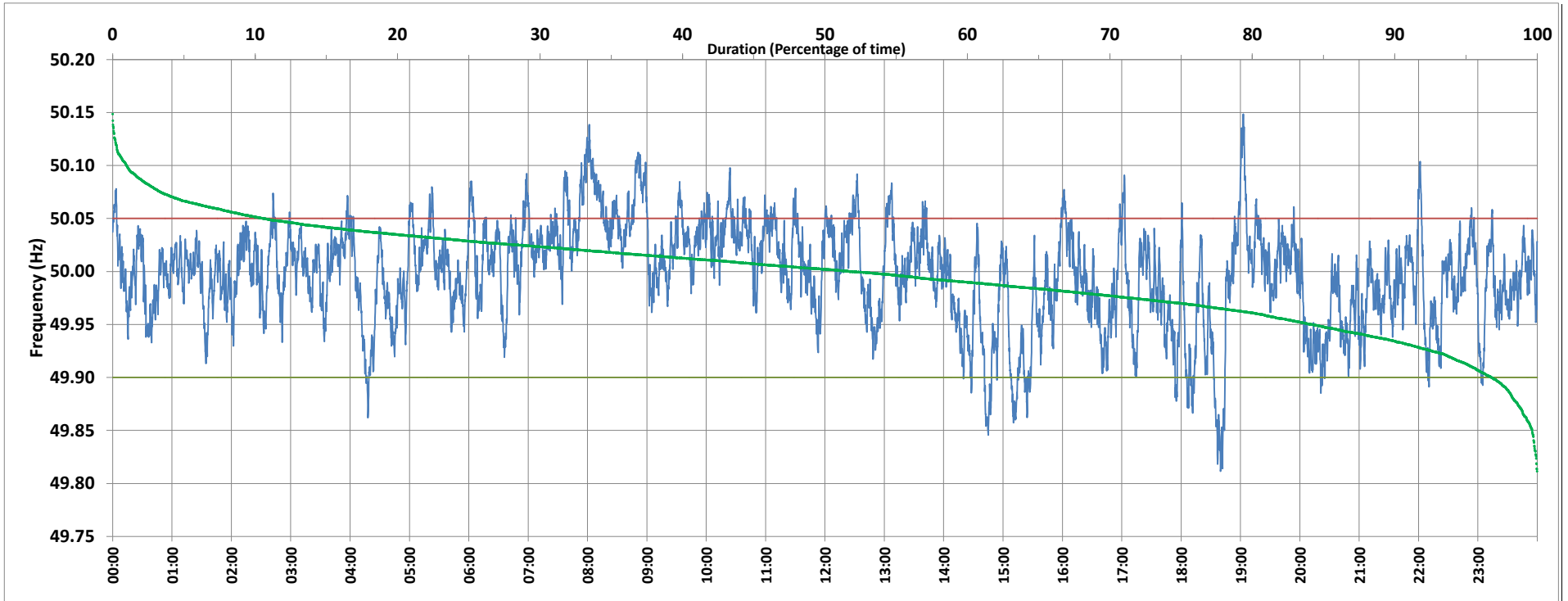


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 27-Sep-2020 (Sunday)



| | | | | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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 | 3.22 | 24.98 | 0.00 | 3.22 | 45.01 | 50.79 | 0.98 | 86.22 | 100.00 | 51.10 | 9.63 | 51.70 | 23.92 | 10.57 | 0.00 | 10.00 | 73.63 | 6.78 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.997 | Frequency Variation Index : 0.0222 | Standard Deviation : 0.0471 | Mileage: 49.8 | FDI: 13.8 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.149 | 19:02:40 |
| Min | 49.811 | 18:39:50 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.089 | 8:15:00 |
| Min | 49.872 | 18:45:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 192 |
| below 49.97 Hz | 152 |
| above 50.00 Hz | 221 |
| below 50.00 Hz | 221 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:02:22 |
| above 50.03 | 0:01:48 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 3:18:30 |
|---|---------|

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