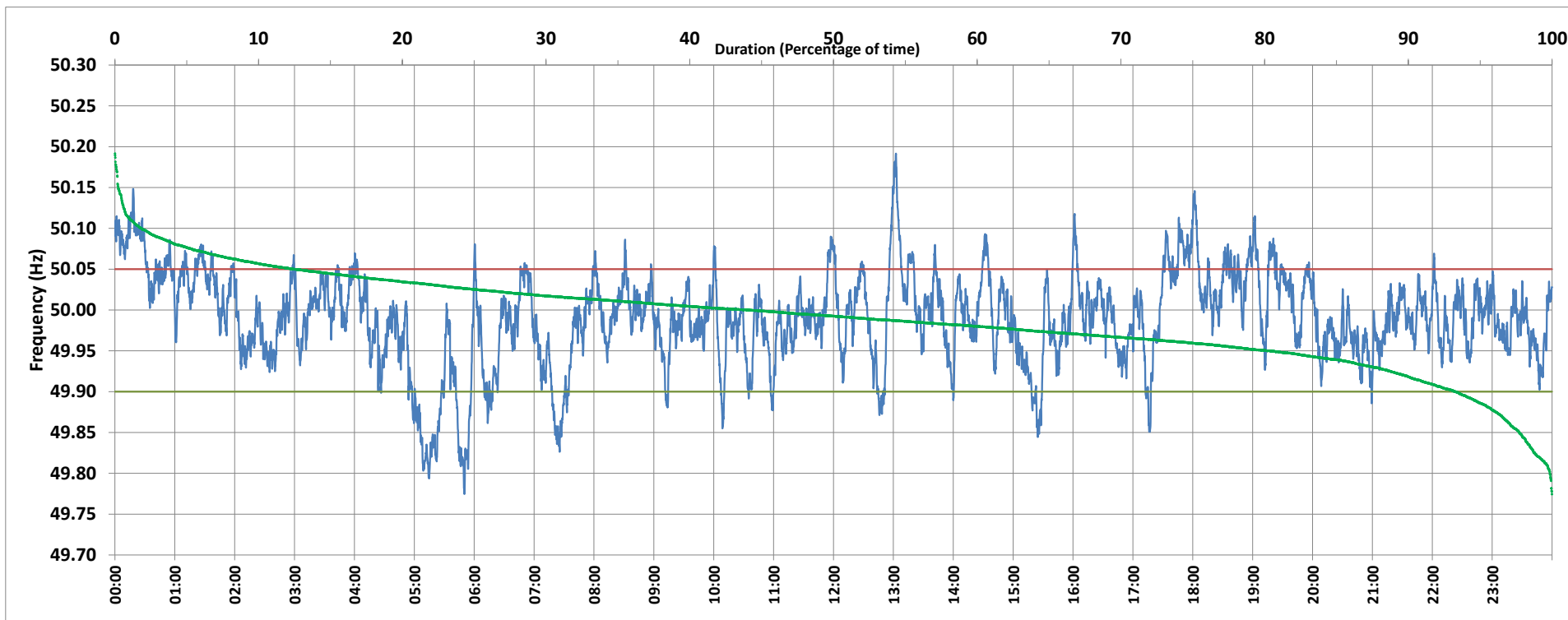


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 29-Jun-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 | 6.68 | 32.60 | 0.15 | 6.53 | 49.12 | 42.34 | 1.86 | 80.80 | 100.00 | 44.84 | 10.74 | 44.14 | 22.56 | 12.52 | 0.00 | 19.58 | 67.89 | 12.91 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.990 | Frequency Variation Index : 0.0333 | Standard Deviation : 0.0568 | Mileage: 43.6 | FDI: 19.2 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.192 | 13:02:30 |
| Min | 49.775 | 5:50:10 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|---------|
| Max | 50.103 | 0:30:00 |
| Min | 49.842 | 5:15:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 113 |
| below 49.97 Hz | 167 |
| above 50.00 Hz | 185 |
| below 50.00 Hz | 179 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:02:49 |
| above 50.03 | 0:02:52 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 4:36:30 |
|---|---------|

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