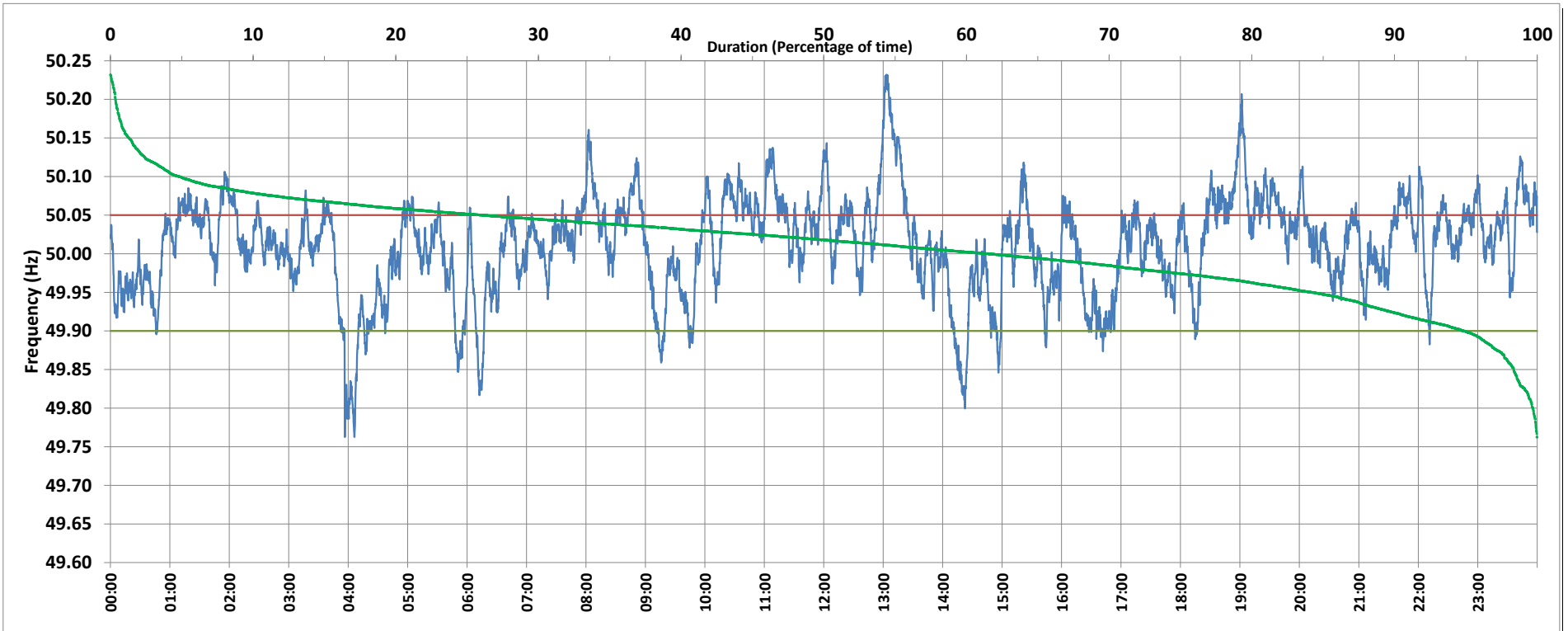


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 05-Jul-2019 (Friday)



| | | | | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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 | 5.10 | 22.93 | 0.30 | 4.80 | 33.31 | 56.75 | 4.48 | 68.78 | 99.64 | 35.75 | 21.37 | 61.54 | 41.32 | 26.11 | 0.36 | 15.73 | 58.16 | 10.63 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.010 | Frequency Variation Index : 0.0412 | Standard Deviation : 0.0633 | Mileage: 45.0 | FDI: 31.2 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.232 | 13:03:10 |
| Min | 49.763 | 3:56:30 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.178 | 13:15:00 |
| Min | 49.852 | 4:15:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 148 |
| below 49.97 Hz | 96 |
| above 50.00 Hz | 137 |
| below 50.00 Hz | 133 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:03:26 |
| above 50.03 | 0:04:01 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 7:29:30 |
|---|---------|

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