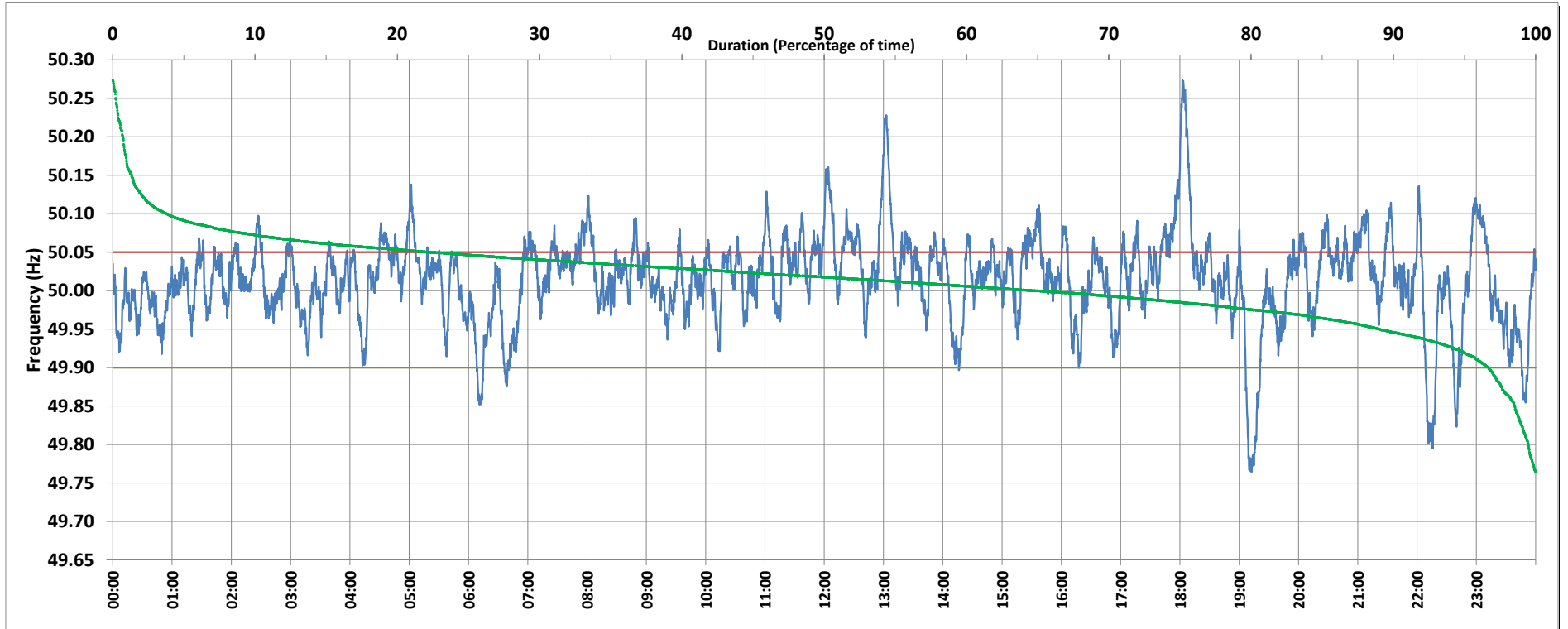


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 19-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 | 3.31 | 17.15 | 0.51 | 2.80 | 31.83 | 61.06 | 3.08 | 74.36 | 99.28 | 44.05 | 18.65 | 64.77 | 38.80 | 22.33 | 0.72 | 10.98 | 66.69 | 7.67 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.013 | Frequency Variation Index : 0.0350 | Standard Deviation : 0.0576 | Mileage: 43.4 | FDI: 25.6 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.274 | 18:02:30 |
| Min | 49.764 | 19:12:20 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.167 | 18:15:00 |
| Min | 49.884 | 19:15:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 201 |
| below 49.97 Hz | 89 |
| above 50.00 Hz | 177 |
| below 50.00 Hz | 175 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:02:47 |
| above 50.03 | 0:02:47 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 6:09:10 |
|---|---------|

Source : SLPR4:Frequency 10 Sec. (8640 samples)