

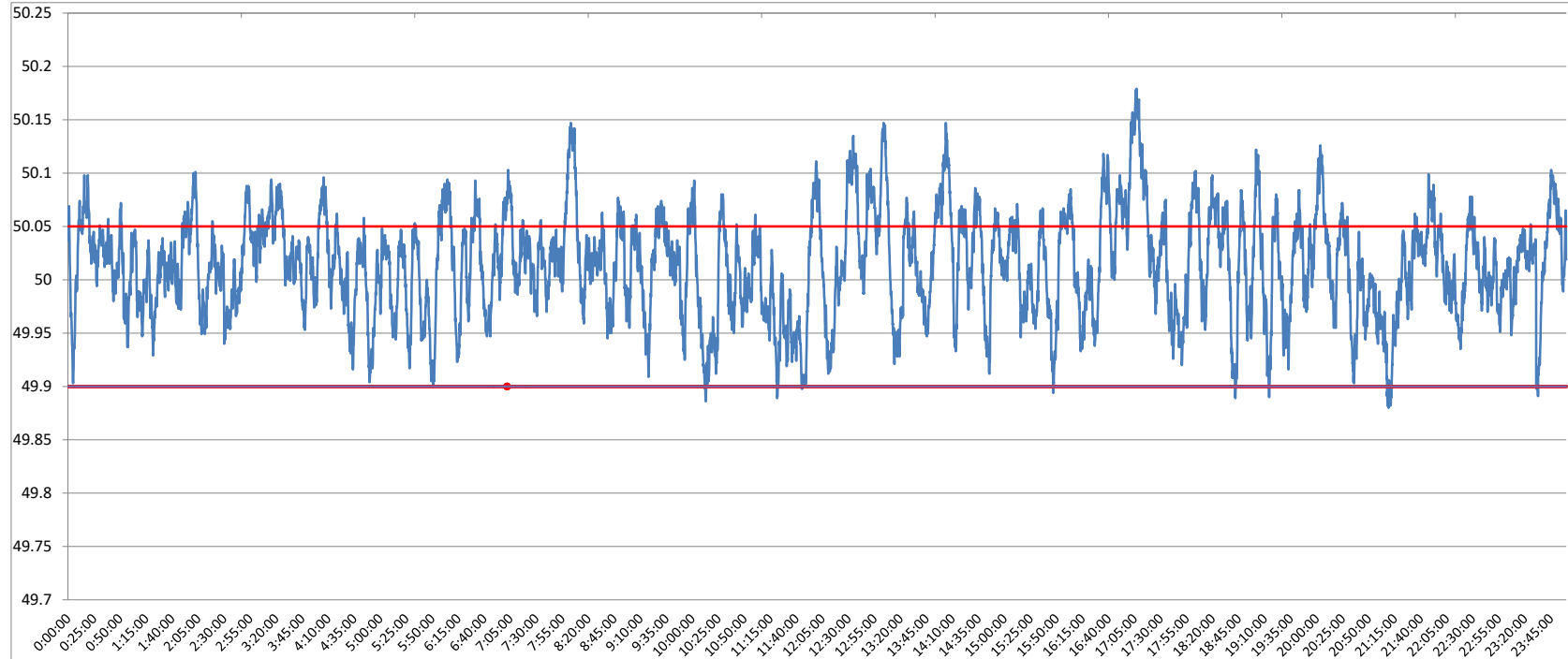


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

BALLIA:Frequency

National Grid Frequency Profile for

09-Jun-17



| | | | | | | | | | | | | | | | | |
|-------|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|
| <49.2 | <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 |
| 0 | 0.00 | 0.56 | 19.14 | 0.00 | 0.56 | 36.69 | 59.34 | 3.41 | 77.14 | 100.00 | 42.97 | 19.75 | 61.30 | 37.88 | 22.30 | 0.00 |

| | | | | | |
|-------------------|-------|-----------------------------|-------|----------------------|-------|
| Average Frequency | 50.01 | Frequency Variation Index : | 0.025 | Standard Deviation : | 0.049 |
|-------------------|-------|-----------------------------|-------|----------------------|-------|

| | |
|--------------------------------|----------------|
| Instantaneous Frequency | |
| Max | 50.18 17:06:50 |
| Min | 49.88 21:09:00 |

| | | |
|------------------------------------|--------|----------|
| 15 minute average Frequency | | |
| Max | 50.133 | 17:15:00 |
| Min | 49.932 | 21:15:00 |

| | |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 174 |
| No. of excursion below 49.97 Hz | 104 |
| No. of excursion above 50.00 Hz | 120 |
| No. of excursion below 50.00 Hz | 118 |

| | | | |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:02:39 | Average time frequency remains above 50.03 per excursion | 0:03:08 |
|---|---------|--|---------|