

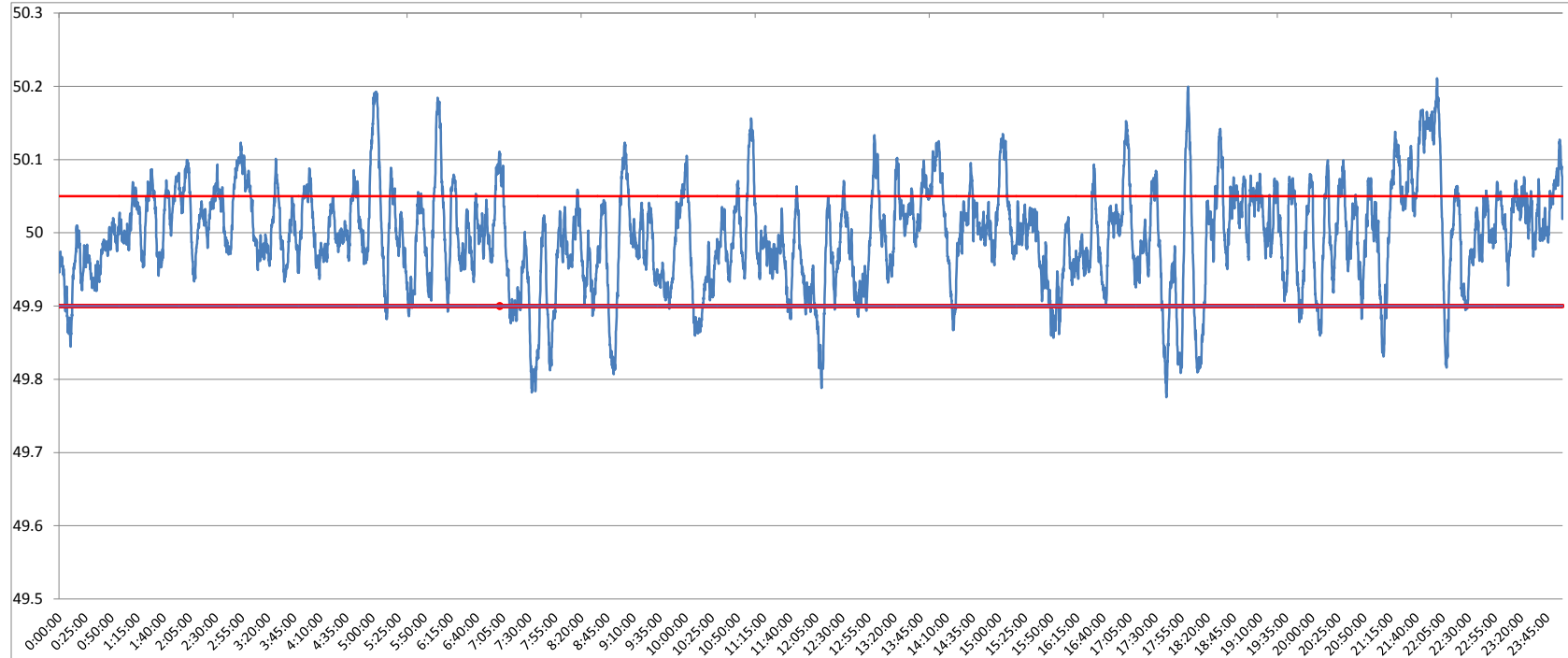


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

DURGAPUR:Frequency

National Grid Frequency Profile for

04-Dec-16



| <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 | 8.31 | 32.78 | 0.29 | 8.02 | 43.30 | 42.67 | 5.68 | 71.04 | 99.97 | 35.88 | 14.98 | 48.34 | 31.34 | 20.65 | 0.03 |

| | | | | | |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| Average Frequency | 50.00 | Frequency Variation Index : | 0.047 | Standard Deviation : | 0.068 |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| Instantaneous Frequency | |
|-------------------------|----------------|
| Max | 50.21 21:59:40 |
| Min | 49.78 17:40:30 |

| 15 minute average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.151 | 22:00:00 |
| Min | 49.874 | 7:45:00 |

| | |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 143 |
| No. of excursion below 49.97 Hz | 148 |
| No. of excursion above 50.00 Hz | 152 |
| No. of excursion below 50.00 Hz | 154 |

| | | | |
|--|----------------|---|----------------|
| Average time freq remains below 49.97 per excursion | 0:03:11 | Average time frequency remains above 50.03 per excursion | 0:03:09 |
|--|----------------|---|----------------|