

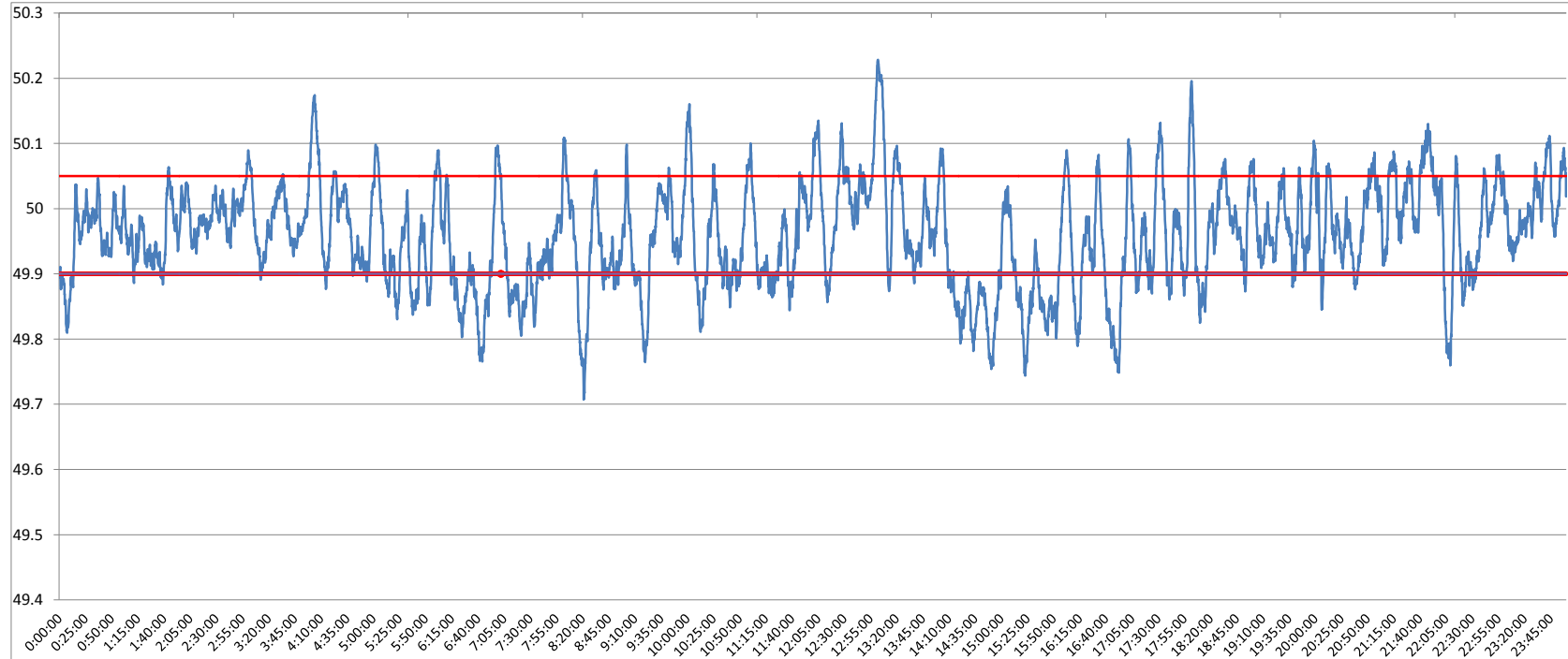


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

DURGAPUR:Frequency

National Grid Frequency Profile for

17-Dec-15



| <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 | 23.51 | 54.47 | 2.71 | 20.80 | 45.95 | 27.62 | 2.71 | 63.61 | 99.78 | 26.35 | 10.00 | 30.51 | 19.18 | 12.88 | 0.22 |

| | | | | | |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| Average Frequency | 49.96 | Frequency Variation Index : | 0.081 | Standard Deviation : | 0.080 |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| Instantaneous Frequency | |
|-------------------------|----------------|
| Max | 50.23 13:02:10 |
| Min | 49.71 8:21:10 |

| 15 minute average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.084 | 13:15:00 |
| Min | 49.821 | 15:00:00 |

| | |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 93 |
| No. of excursion below 49.97 Hz | 122 |
| No. of excursion above 50.00 Hz | 96 |
| No. of excursion below 50.00 Hz | 95 |

| | | | |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:06:26 | Average time frequency remains above 50.03 per excursion | 0:02:58 |
|---|---------|--|---------|