

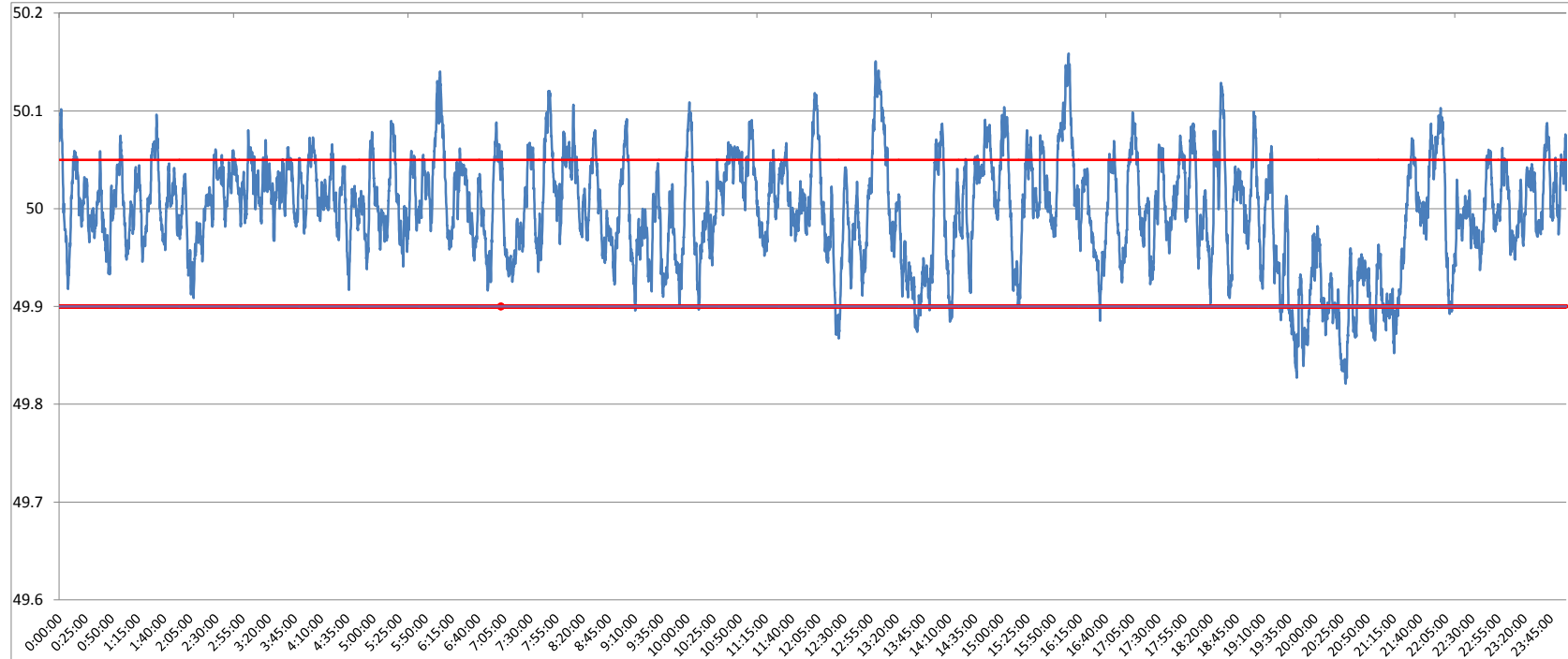


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

DURGAPUR:Frequency

National Grid Frequency Profile for

23-Jun-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 | 5.15 | 27.60 | 0.00 | 5.15 | 44.14 | 48.77 | 1.93 | 78.31 | 100.00 | 42.80 | 14.65 | 50.63 | 29.59 | 16.54 | 0.00 |

| | | | | | |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| Average Frequency | 50.00 | Frequency Variation Index : | 0.029 | Standard Deviation : | 0.054 |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| | |
|--------------------------------|-----------------------|
| Instantaneous Frequency | |
| Max | 50.16 16:04:20 |
| Min | 49.82 20:29:10 |

| | |
|------------------------------------|------------------------|
| 15 minute average Frequency | |
| Max | 50.076 13:15:00 |
| Min | 49.874 20:30:00 |

| | |
|--|------------|
| No. of excursion above 50.03 Hz | 141 |
| No. of excursion below 49.97 Hz | 139 |
| No. of excursion above 50.00 Hz | 171 |
| No. of excursion below 50.00 Hz | 173 |

| | | | |
|--|----------------|---|----------------|
| Average time freq remains below 49.97 per excursion | 0:02:52 | Average time frequency remains above 50.03 per excursion | 0:03:01 |
|--|----------------|---|----------------|