

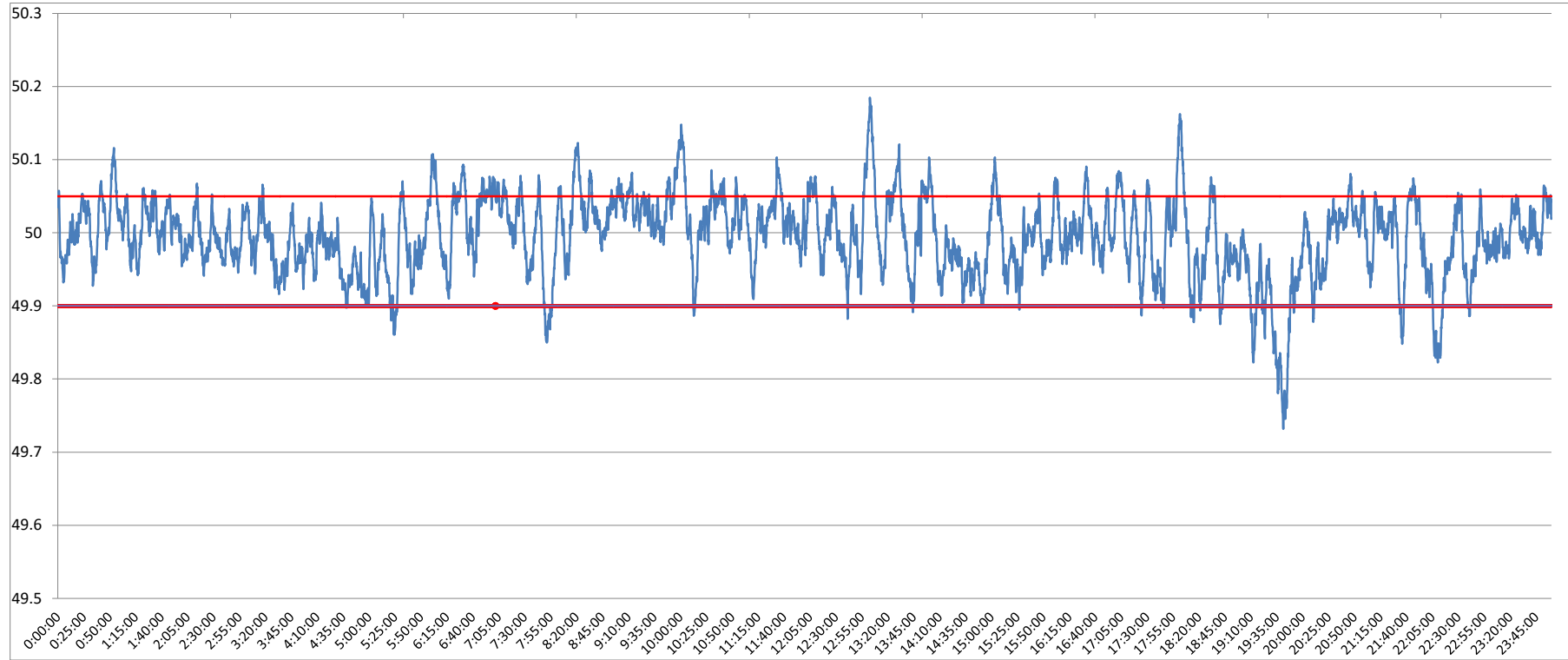


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

DURGAPUR:Frequency

National Grid Frequency Profile for

23-Jul-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 | 4.48 | 30.74 | 0.46 | 4.02 | 47.82 | 45.96 | 1.74 | 82.19 | 100.00 | 43.25 | 11.67 | 47.65 | 26.01 | 13.33 | 0.00 |

| | | | | | |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| Average Frequency | 49.99 | Frequency Variation Index : | 0.030 | Standard Deviation : | 0.055 |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| Instantaneous Frequency | | |
|-------------------------|-------|----------|
| Max | 50.18 | 13:03:00 |
| Min | 49.73 | 19:41:20 |

| 15 minute average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.064 | 13:15:00 |
| Min | 49.810 | 19:45:00 |

| | |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 165 |
| No. of excursion below 49.97 Hz | 140 |
| No. of excursion above 50.00 Hz | 177 |
| No. of excursion below 50.00 Hz | 177 |

| | | | |
|--|----------------|---|----------------|
| Average time freq remains below 49.97 per excursion | 0:03:10 | Average time frequency remains above 50.03 per excursion | 0:02:16 |
|--|----------------|---|----------------|