

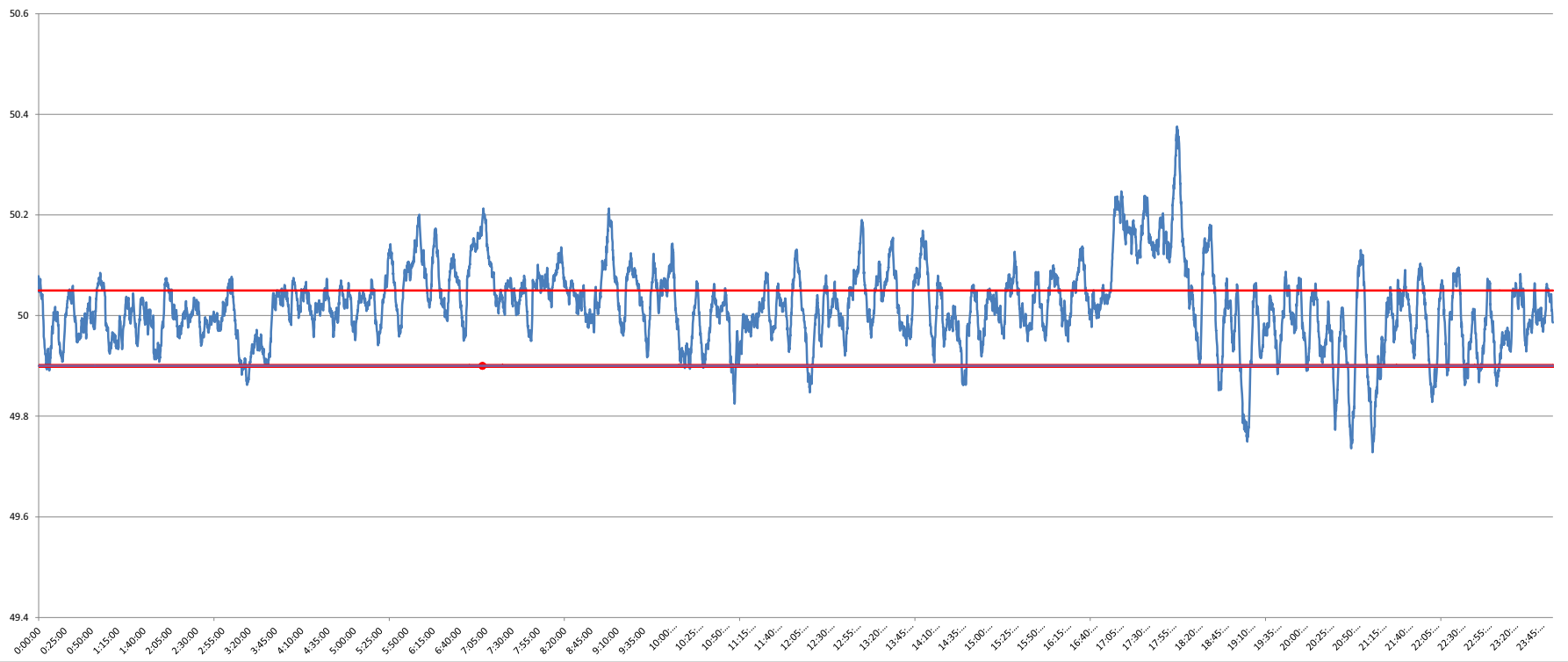


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

DURGAPUR:Frequency

National Grid Frequency Profile for

19-Apr-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 | 5.79 | 23.87 | 0.97 | 4.81 | 34.12 | 47.96 | 10.51 | 63.91 | 98.38 | 33.80 | 18.25 | 60.07 | 42.34 | 30.30 | 1.62 |

| | | | | | |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| Average Frequency | 50.02 | Frequency Variation Index : | 0.064 | Standard Deviation : | 0.078 |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| Instantaneous Frequency | |
|-------------------------|----------------|
| MAX | 50.38 18:02:30 |
| Min | 49.73 21:08:30 |

| 15 minute average Frequency | |
|-----------------------------|-----------------|
| Max | 50.196 18:15:00 |
| Min | 49.862 21:15:00 |

| | |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 151 |
| No. of excursion below 49.97 Hz | 107 |
| No. of excursion above 50.00 Hz | 148 |
| No. of excursion below 50.00 Hz | 149 |

| | | | |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:03:13 | Average time frequency remains above 50.03 per excursion | 0:04:02 |
|---|---------|--|---------|