

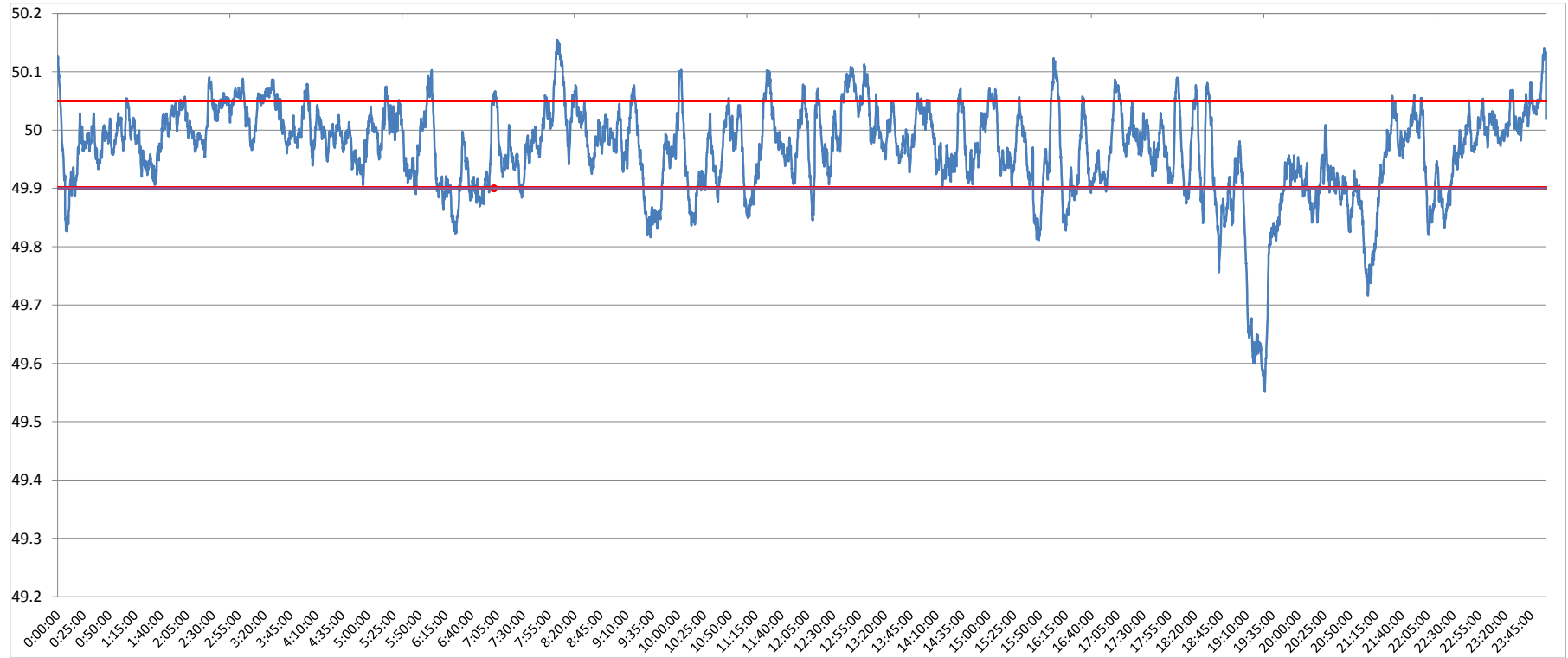


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

HISSAR:Frequency

National Grid Frequency Profile for

03-Aug-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 | 1.38 | 15.89 | 46.13 | 1.09 | 13.43 | 48.75 | 34.09 | 1.27 | 72.47 | 98.62 | 34.24 | 10.46 | 35.29 | 19.63 | 11.64 | 0.00 |

| | | | | | |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| Average Frequency | 49.97 | Frequency Variation Index : | 0.073 | Standard Deviation : | 0.079 |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| Instantaneous Frequency | |
|-------------------------|----------------|
| Max | 50.15 8:02:50 |
| Min | 49.55 19:27:40 |

| 15 minute average Frequency | |
|-----------------------------|-----------------|
| Max | 50.080 8:15:00 |
| Min | 49.612 19:30:00 |

| | |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 93 |
| No. of excursion below 49.97 Hz | 137 |
| No. of excursion above 50.00 Hz | 128 |
| No. of excursion below 50.00 Hz | 126 |

| | | | |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:04:51 | Average time frequency remains above 50.03 per excursion | 0:03:02 |
|---|---------|--|---------|