

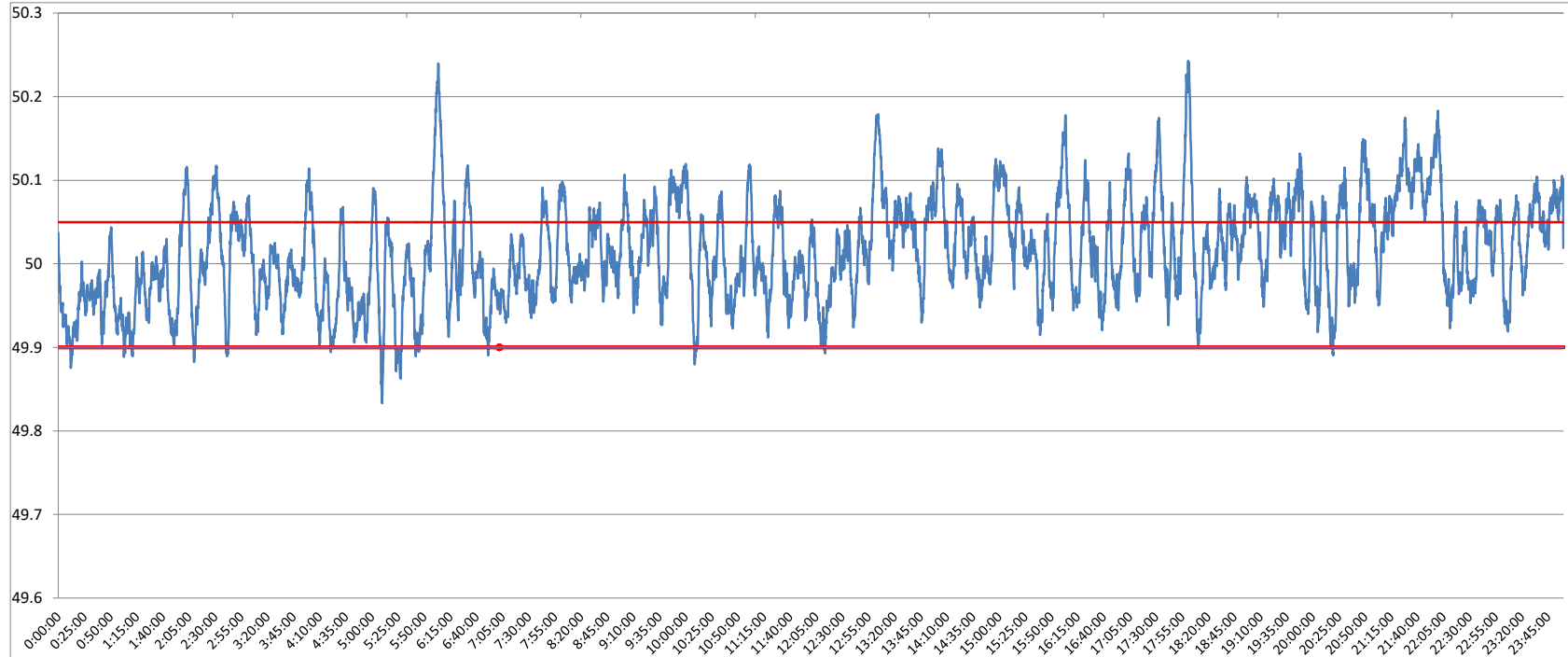


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

HISSAR:Frequency

National Grid Frequency Profile for

23-Oct-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 | 1.52 | 24.77 | 0.00 | 1.52 | 43.31 | 47.52 | 7.19 | 68.39 | 99.54 | 35.98 | 22.50 | 55.10 | 39.25 | 30.09 | 0.46 |

| | | | | | |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| Average Frequency | 50.01 | Frequency Variation Index : | 0.039 | Standard Deviation : | 0.061 |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| | | | |
|--------------------------------|--------------|-----------------|--|
| Instantaneous Frequency | | | |
| Max | 50.24 | 18:00:50 | |
| Min | 49.83 | 5:09:40 | |

| | | | |
|------------------------------------|---------------|-----------------|--|
| 15 minute average Frequency | | | |
| Max | 50.109 | 13:15:00 | |
| Min | 49.925 | 1:15:00 | |

| | |
|--|------------|
| No. of excursion above 50.03 Hz | 132 |
| No. of excursion below 49.97 Hz | 144 |
| No. of excursion above 50.00 Hz | 153 |
| No. of excursion below 50.00 Hz | 149 |

| | | | |
|--|----------------|---|----------------|
| Average time freq remains below 49.97 per excursion | 0:02:29 | Average time frequency remains above 50.03 per excursion | 0:04:17 |
|--|----------------|---|----------------|