

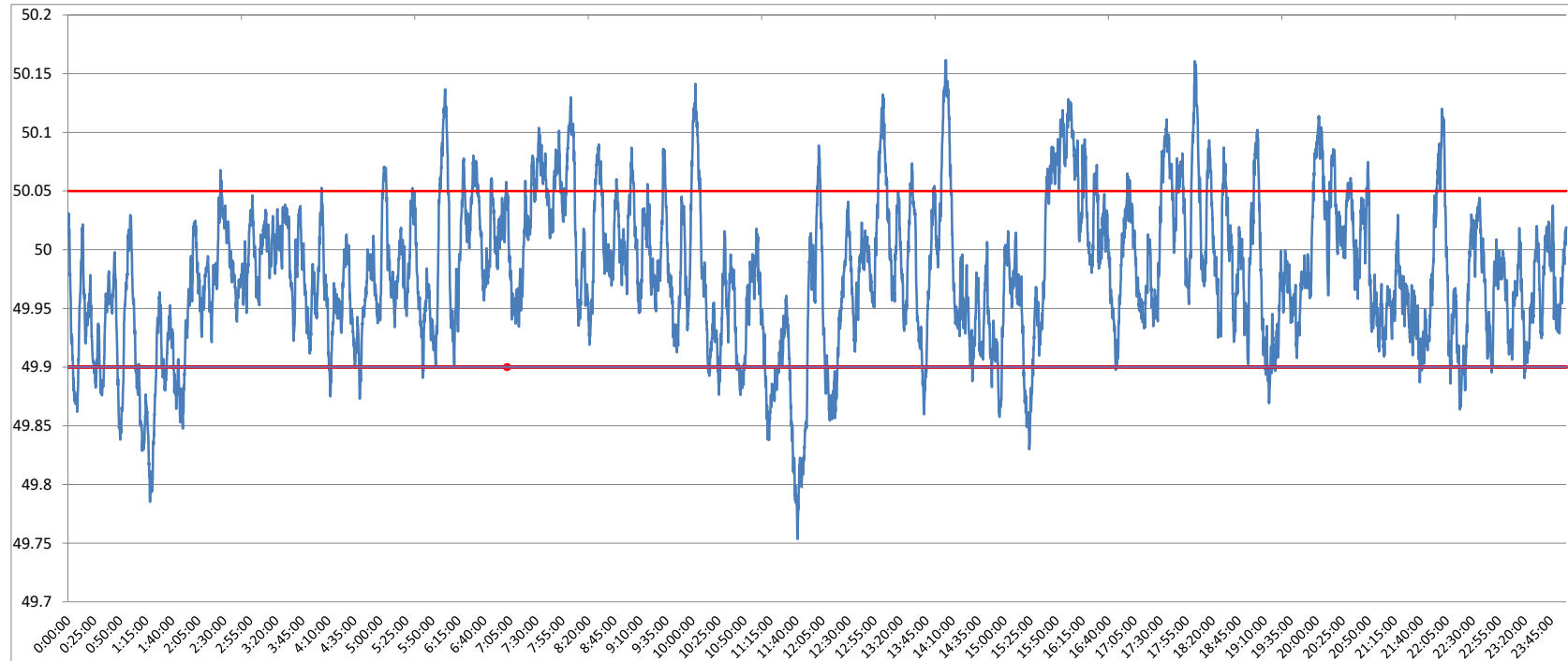


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

HISSAR:Frequency

National Grid Frequency Profile for

13-May-17



| | | | | | | | | | | | | | | | | |
|-------|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|
| <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 | 9.39 | 45.09 | 0.45 | 8.94 | 54.92 | 32.82 | 2.87 | 76.55 | 100.00 | 33.74 | 11.22 | 35.59 | 21.17 | 14.06 | 0.00 |

| | | | | | |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| Average Frequency | 49.98 | Frequency Variation Index : | 0.043 | Standard Deviation : | 0.062 |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| | |
|--------------------------------|-----------------------|
| Instantaneous Frequency | |
| Max | 50.16 14:03:40 |
| Min | 49.75 11:41:10 |

| | |
|------------------------------------|------------------------|
| 15 minute average Frequency | |
| Max | 50.083 16:00:00 |
| Min | 49.844 11:45:00 |

| | |
|--|------------|
| No. of excursion above 50.03 Hz | 107 |
| No. of excursion below 49.97 Hz | 168 |
| No. of excursion above 50.00 Hz | 141 |
| No. of excursion below 50.00 Hz | 139 |

| | | | |
|--|----------------|---|----------------|
| Average time freq remains below 49.97 per excursion | 0:03:52 | Average time frequency remains above 50.03 per excursion | 0:02:51 |
|--|----------------|---|----------------|