

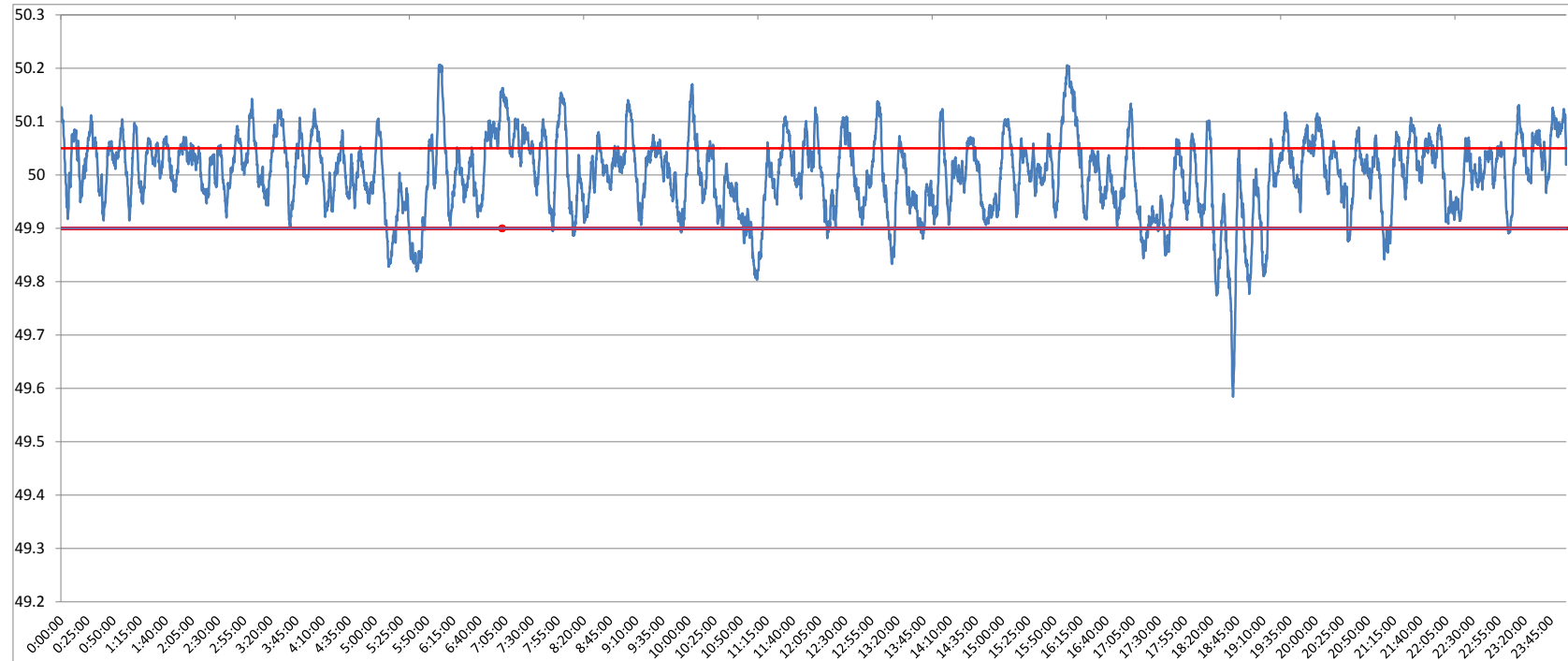


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

NTPC-VINDHYACHAL:Frequency

National Grid Frequency Profile for

21-Sep-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 | 0.21 | 7.42 | 30.54 | 0.47 | 6.74 | 38.08 | 47.96 | 6.38 | 67.16 | 99.63 | 31.05 | 18.94 | 54.46 | 38.40 | 25.42 | 0.16 |

| | | | | | |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| Average Frequency | 50.00 | Frequency Variation Index : | 0.052 | Standard Deviation : | 0.072 |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| Instantaneous Frequency | | |
|-------------------------|-------|----------|
| Max | 50.21 | 6:02:30 |
| Min | 49.58 | 18:41:00 |

| 15 minute average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.138 | 16:15:00 |
| Min | 49.810 | 18:45:00 |

| | |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 154 |
| No. of excursion below 49.97 Hz | 113 |
| No. of excursion above 50.00 Hz | 131 |
| No. of excursion below 50.00 Hz | 131 |

| | | | |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:03:54 | Average time frequency remains above 50.03 per excursion | 0:03:35 |
|---|---------|--|---------|