

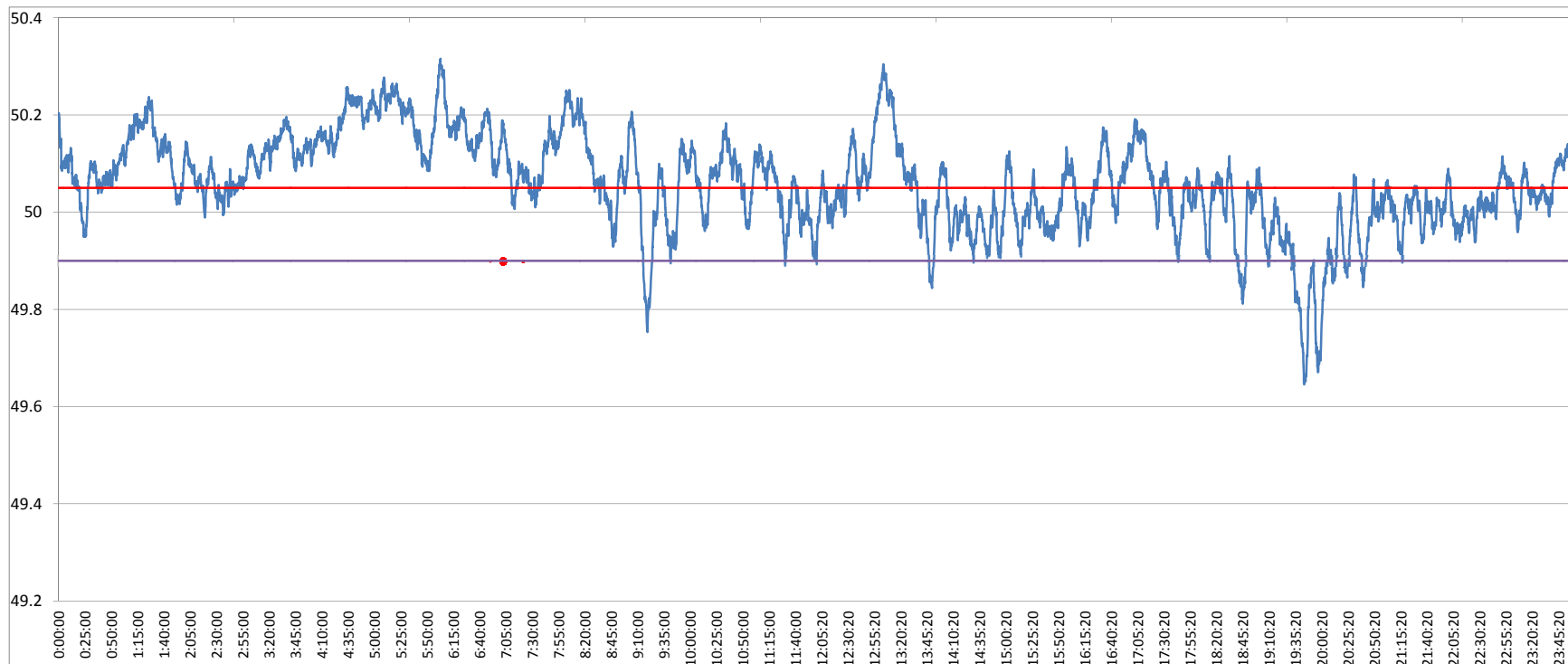


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

NTPC-VINDHYACHAL:Frequency

National Grid Frequency Profile for

25-Jun-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 | 0.41 | 4.81 | 15.25 | 0.74 | 3.67 | 20.19 | 41.86 | 25.50 | 39.95 | 91.96 | 21.77 | 22.12 | 74.91 | 62.97 | 55.23 | 7.64 |

| | | | | | |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| Average Frequency | 50.06 | Frequency Variation Index : | 0.131 | Standard Deviation : | 0.098 |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| Instantaneous Frequency | | |
|-------------------------|-------|----------|
| Max | 50.32 | 6:02:30 |
| Min | 49.65 | 19:43:30 |

| 15 minute average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.246 | 13:15:00 |
| Min | 49.777 | 20:00:00 |

| | |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 117 |
| No. of excursion below 49.97 Hz | 70 |
| No. of excursion above 50.00 Hz | 106 |
| No. of excursion below 50.00 Hz | 106 |

| | | | |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:03:08 | Average time frequency remains above 50.03 per excursion | 0:07:45 |
|---|---------|--|---------|