

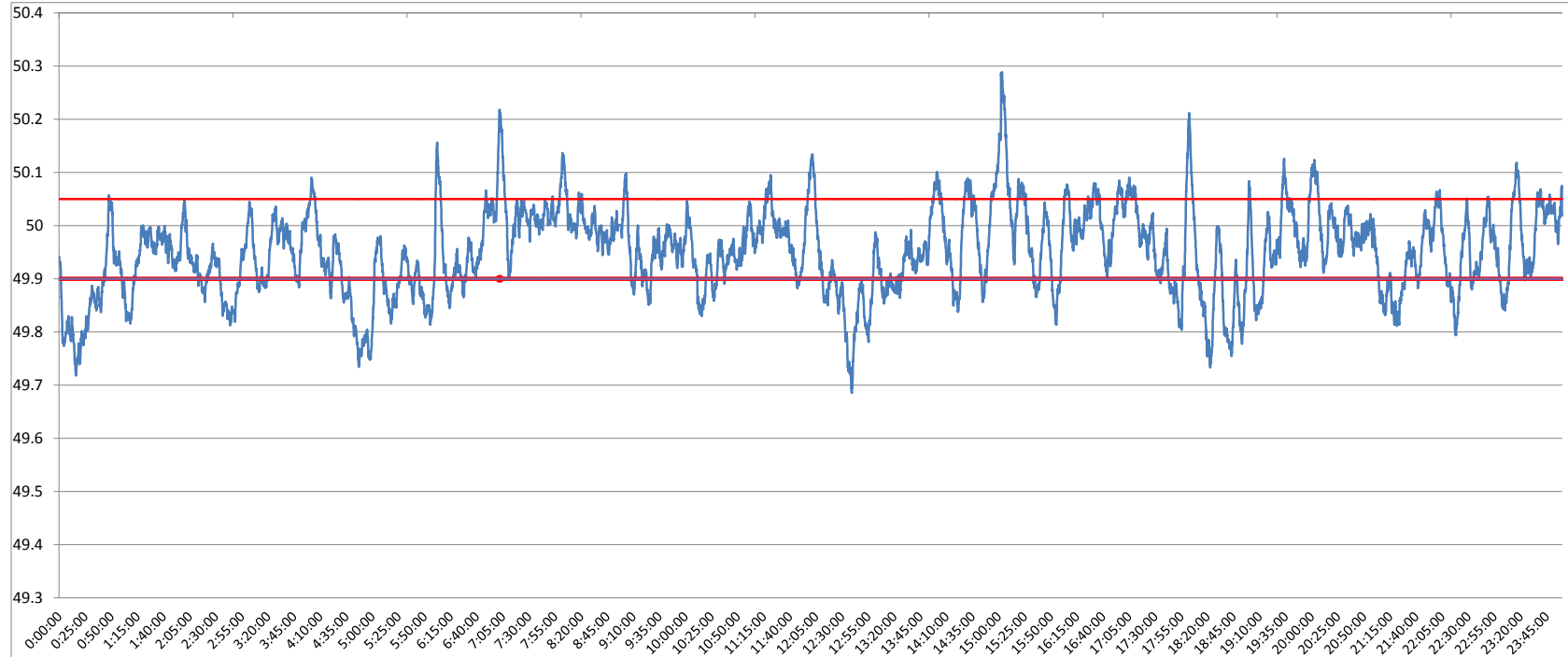


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

MPPTCL BINA:Frequency

National Grid Frequency Profile for

17-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 | 0.08 | 27.20 | 58.18 | 3.95 | 23.17 | 45.19 | 25.29 | 1.90 | 62.85 | 99.49 | 25.89 | 7.65 | 27.58 | 15.93 | 9.95 | 0.43 |

| | | | | | |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| Average Frequency | 49.95 | Frequency Variation Index : | 0.092 | Standard Deviation : | 0.082 |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| Instantaneous Frequency | | |
|-------------------------|-------|----------|
| Max | 50.29 | 15:03:10 |
| Min | 49.69 | 12:39:20 |

| 15 minute average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.123 | 15:15:00 |
| Min | 49.771 | 5:00:00 |

| | |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 83 |
| No. of excursion below 49.97 Hz | 112 |
| No. of excursion above 50.00 Hz | 107 |
| No. of excursion below 50.00 Hz | 106 |

| | | | |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:07:29 | Average time frequency remains above 50.03 per excursion | 0:02:46 |
|---|---------|--|---------|