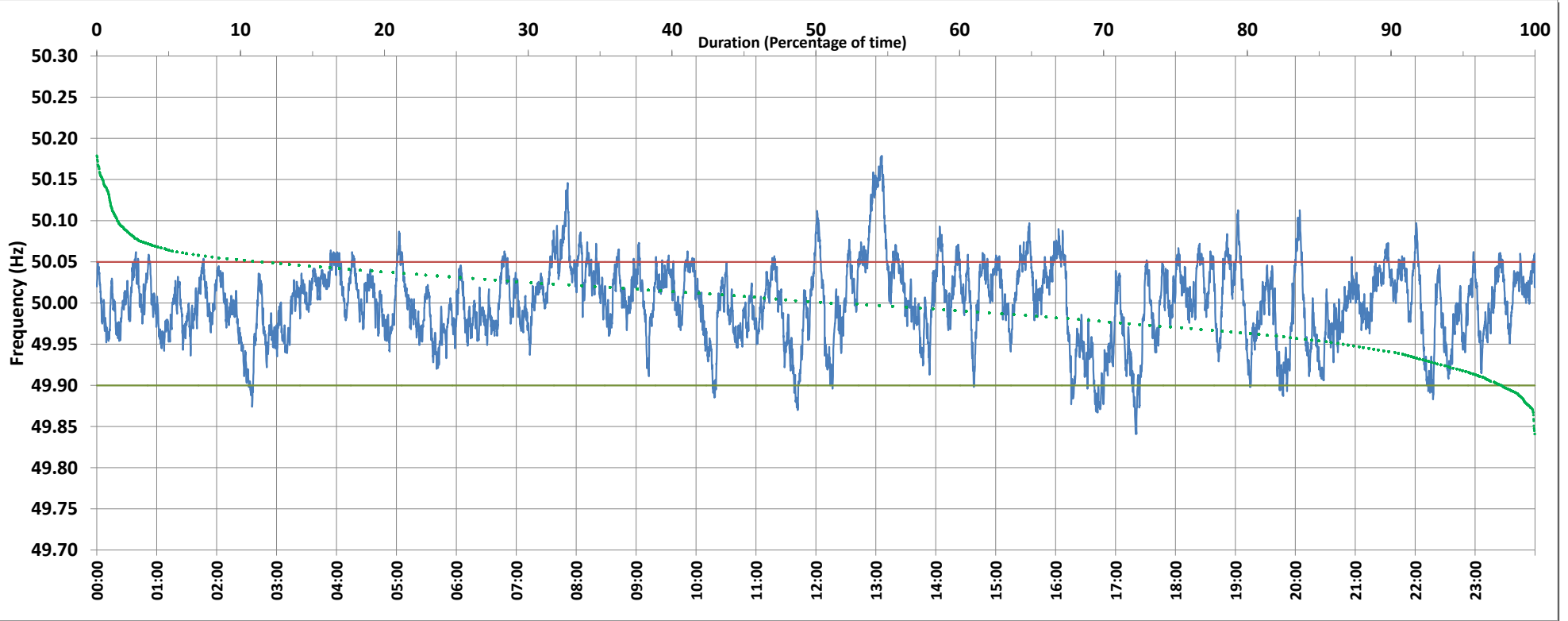


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 11-Jun-2018 (Monday)



<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	<49.95	49.95-50.05	49.90-49.95
0.0	2.3	23.9	0.0	2.3	44.9	51.4	1.5	86.2	100.0	49.9	10.8	51.1	26.1	11.5	0.0	13.0	75.5	10.7

Average Frequency : 50.000	Frequency Variation Index : 0.021	Standard Deviation : 0.046	Mileage: 48.1	FDI: 13.8
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Instantaneous Frequency		
Max	50.179	13:05:50
Min	49.841	17:20:10

15 minute Average Frequency		
Max	50.109	13:15:00
Min	49.913	16:45:00

No. of excursions	
above 50.03 Hz	151
below 49.97 Hz	149
above 50.00 Hz	137
below 50.00 Hz	141

Average time freq per excursion remains	
below 49.97	0:02:19
above 50.03	0:02:30

No. of hours freq outside 49.9-50.05 Hz	3:18:10
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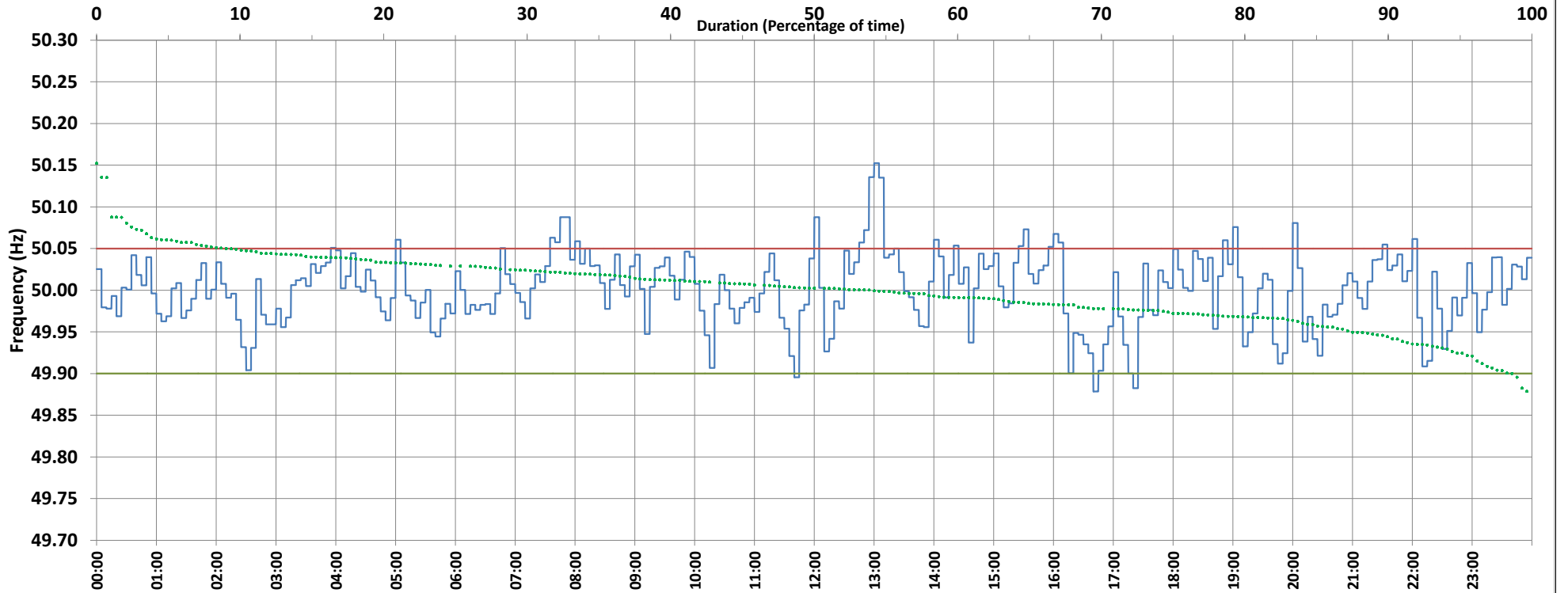
Source : BALLIA:Frequency 10 Sec. (8640 samples)

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



5 Min. Average Frequency profile for 11-Jun-2018 (Monday)



<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	<49.95	49.95-50.05	49.90-49.95
0.00	1.04	22.22	0.00	1.04	44.79	53.13	1.04	89.93	100.00	54.17	7.99	54.17	23.61	9.03	0.00	12.5	78.5	11.5

Average Frequency : 50.000	Frequency Variation Index : 0.018	Standard Deviation : 0.043	Mileage: 8.2	FDI: 10.1
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Instantaneous Frequency		
Max	50.179	13:05:50
Min	49.841	17:20:10

5 minute Average Frequency		
Max	50.152	13:05:00
Min	49.879	16:50:00

No. of excursions	
above 50.03 Hz	37
below 49.97 Hz	29
above 50.00 Hz	38
below 50.00 Hz	37

Average time freq per excursion remains	
below 49.97	0:11:02
above 50.03	0:09:11

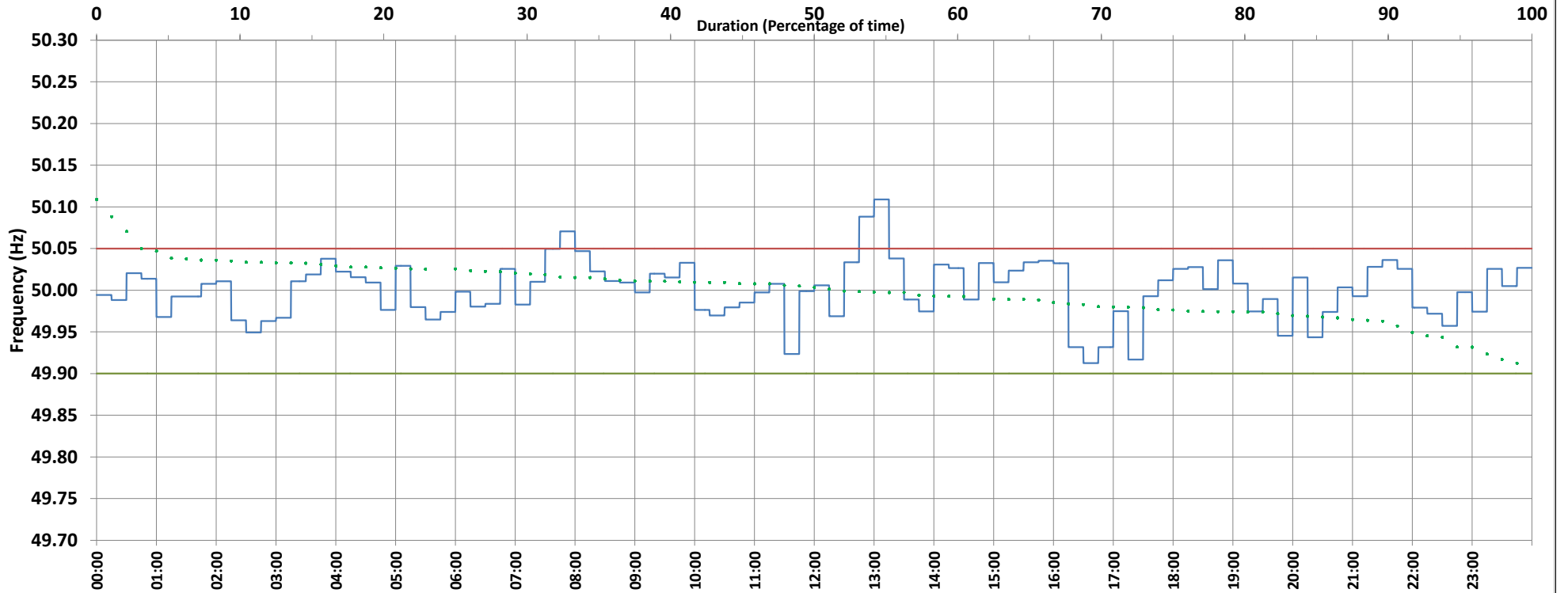
Source : BALLIA:Frequency 5 Min. (288 samples)

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



15 Min. Average Frequency profile for 11-Jun-2018 (Monday)



<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	<49.95	49.95-50.05	49.90-49.95
0.00	0.00	16.67	0.00	0.00	47.92	51.04	1.04	96.88	100.00	66.67	2.08	52.08	16.67	3.13	0.00	8.3	88.5	8.3

Average Frequency : 50.000	Frequency Variation Index : 0.012	Standard Deviation : 0.034	Mileage: 2.6	FDI: 3.1
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Instantaneous Frequency		
Max	50.179	13:05:50
Min	49.841	17:20:10

15 minute Average Frequency		
Max	50.109	13:15:00
Min	49.913	16:45:00

No. of excursions	
above 50.03 Hz	9
below 49.97 Hz	11
above 50.00 Hz	17
below 50.00 Hz	17

Average time freq per excursion remains	
below 49.97	0:21:49
above 50.03	0:26:40

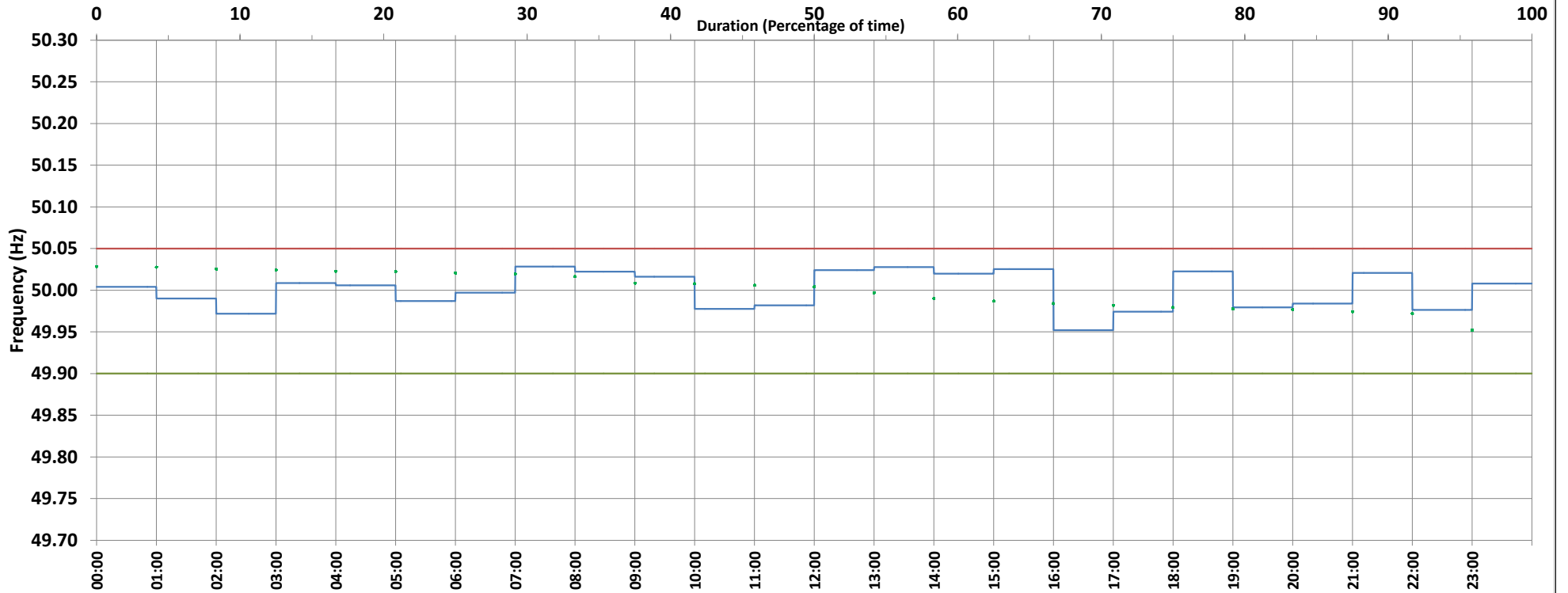
Source : BALLIA:Frequency 15 Min. (96 samples)

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Hourly Average Frequency profile for 11-Jun-2018 (Monday)



<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	<49.95	49.95-50.05	49.90-49.95
0.00	0.00	4.17	0.00	0.00	45.83	54.17	0.00	100.00	100.00	95.83	0.00	54.17	0.00	0.00	0.00	0.0	100.0	0.0

Average Frequency : 50.000	Frequency Variation Index : 0.005	Standard Deviation : 0.022	Mileage: 0.6	FDI: 0.0
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Instantaneous Frequency		
Max	50.179	13:05:50
Min	49.841	17:20:10

An Hour Average Frequency		
Max	50.028	8:00:00
Min	49.952	17:00:00

No. of excursions	
above 50.03 Hz	0
below 49.97 Hz	1
above 50.00 Hz	7
below 50.00 Hz	6

Average time freq per excursion remains	
below 49.97	1:00:00
above 50.03	00:00

Source : BALLIA:Frequency 60 Min. (24 samples)