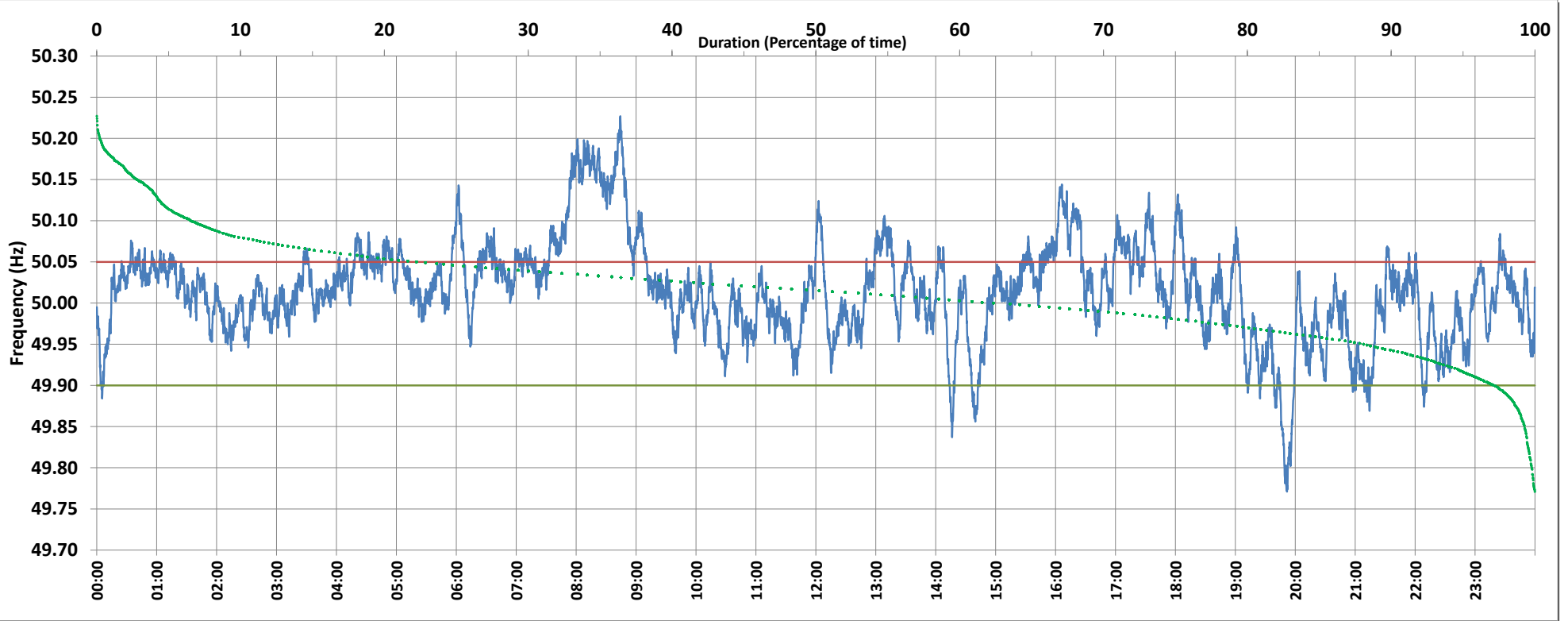


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 03-Jun-2018 (Sunday)



<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	2.7	19.5	0.2	2.5	33.8	56.9	6.4	75.0	99.8	43.3	16.3	62.3	37.2	22.2	0.2	11.7	66.1	8.9

Average Frequency : 50.015	Frequency Variation Index : 0.037	Standard Deviation : 0.059	Mileage: 44.5	FDI: 25.0
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Instantaneous Frequency		
Max	50.227	8:44:10
Min	49.771	19:51:40

15 minute Average Frequency		
Max	50.173	8:15:00
Min	49.835	20:00:00

No. of excursions	
above 50.03 Hz	145
below 49.97 Hz	85
above 50.00 Hz	109
below 50.00 Hz	105

Average time freq per excursion remains	
below 49.97	0:03:18
above 50.03	0:03:42

No. of hours freq outside 49.9-50.05 Hz	5:59:30
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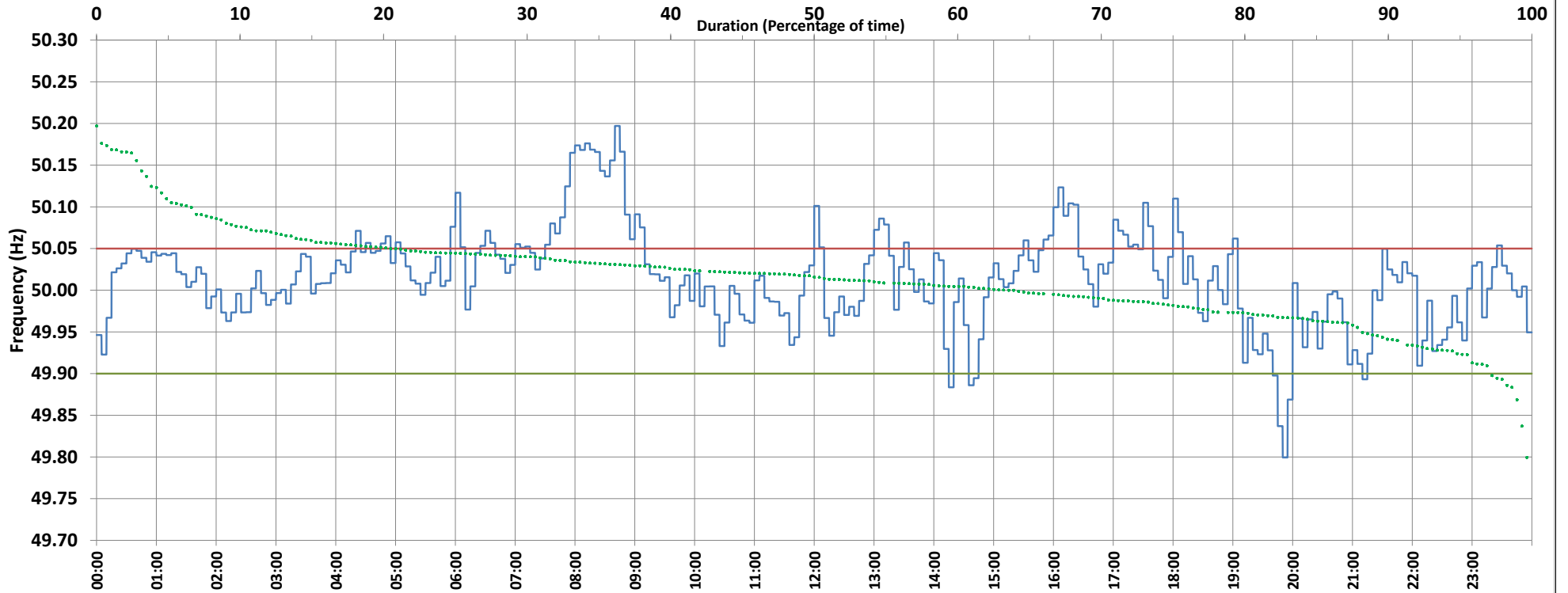
Source : BALLIA:Frequency 10 Sec. (8640 samples)

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



5 Min. Average Frequency profile for 03-Jun-2018 (Sunday)



<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	2.78	18.40	0.35	2.43	32.99	57.64	6.60	76.74	100.00	44.44	13.89	63.89	37.15	20.49	0.00	11.8	67.7	9.0

Average Frequency : 50.015	Frequency Variation Index : 0.035	Standard Deviation : 0.057	Mileage: 7.3	FDI: 23.3
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Instantaneous Frequency		
Max	50.227	8:44:10
Min	49.771	19:51:40

5 minute Average Frequency		
Max	50.197	8:45:00
Min	49.799	20:00:00

No. of excursions	
above 50.03 Hz	25
below 49.97 Hz	21
above 50.00 Hz	30
below 50.00 Hz	30

Average time freq per excursion remains	
below 49.97	0:12:37
above 50.03	0:21:24

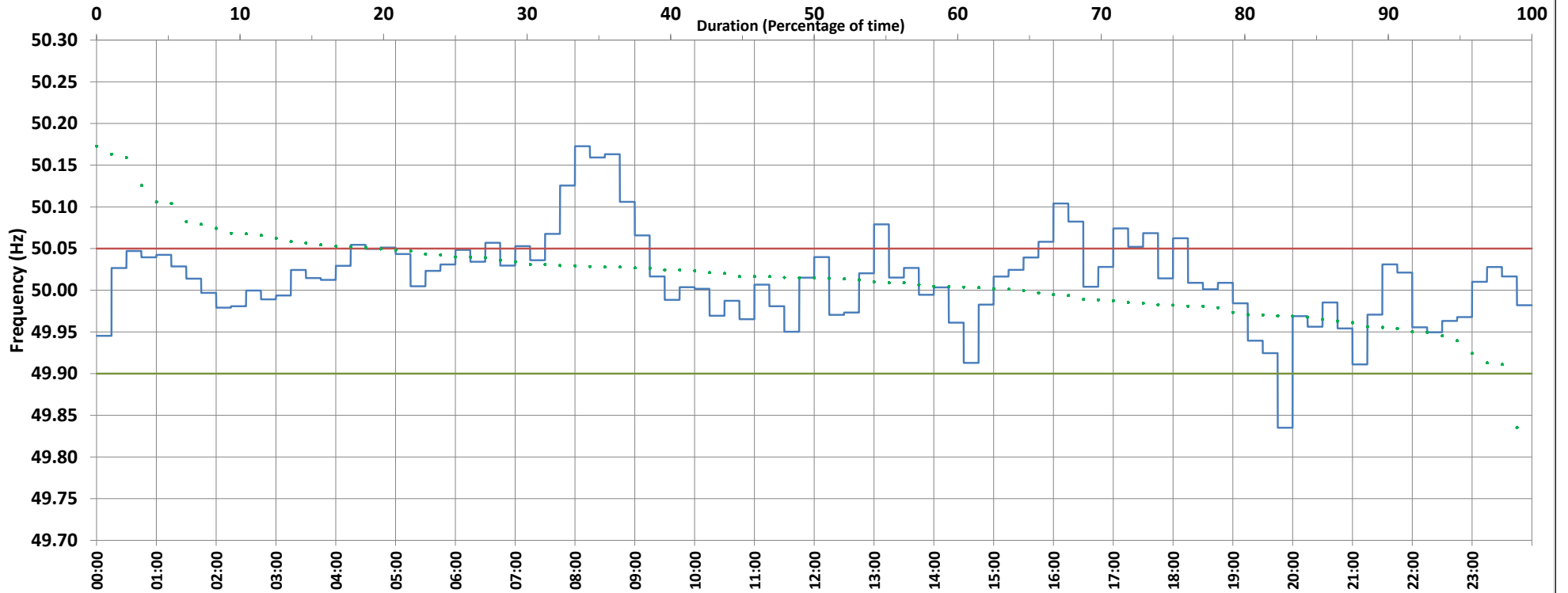
Source : BALLIA:Frequency 5 Min. (288 samples)

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



15 Min. Average Frequency profile for 03-Jun-2018 (Sunday)



<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	17.71	0.00	1.04	34.38	58.33	6.25	79.17	100.00	50.00	13.54	64.58	32.29	19.79	0.00	7.3	72.9	6.3

Average Frequency : 50.015	Frequency Variation Index : 0.029	Standard Deviation : 0.052	Mileage: 2.8	FDI: 20.8
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Instantaneous Frequency		
Max	50.227	8:44:10
Min	49.771	19:51:40

15 minute Average Frequency		
Max	50.173	8:15:00
Min	49.835	20:00:00

No. of excursions	
above 50.03 Hz	10
below 49.97 Hz	8
above 50.00 Hz	10
below 50.00 Hz	11

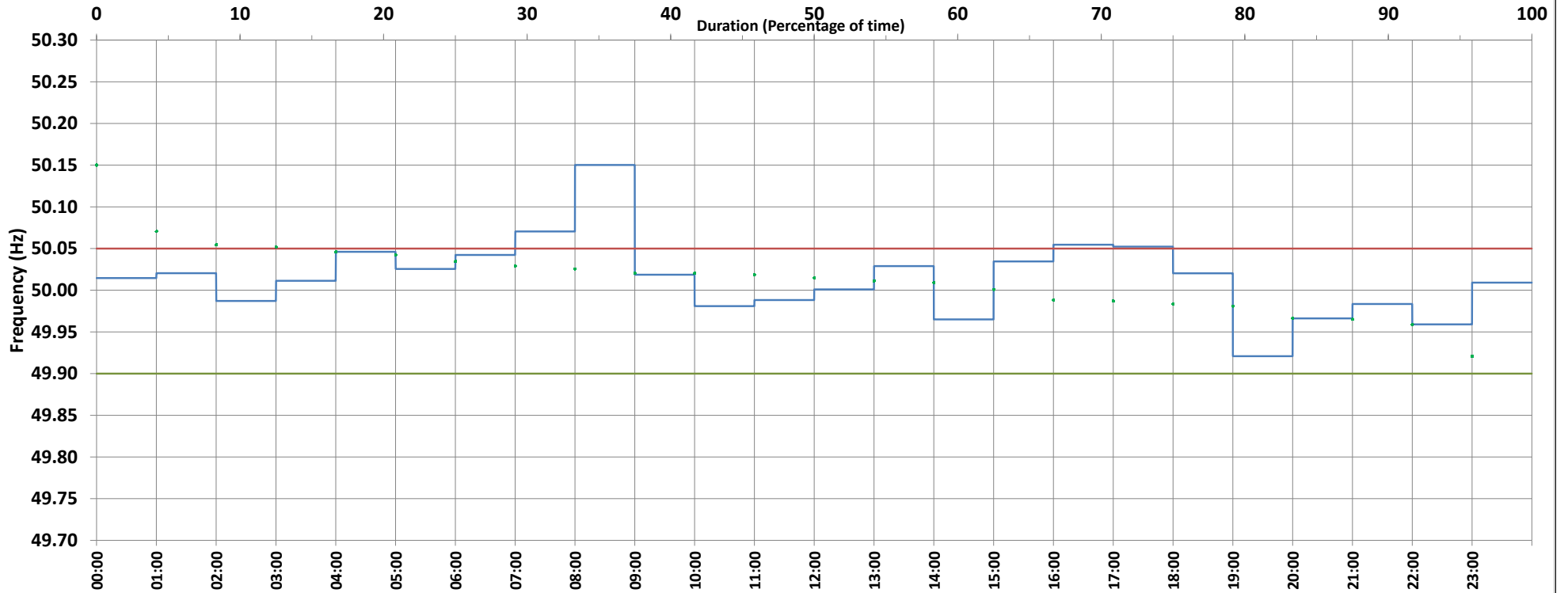
Average time freq per excursion remains	
below 49.97	0:31:52
above 50.03	0:46:30

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

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI

Hourly Average Frequency profile for 03-Jun-2018 (Sunday)



<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	33.33	62.50	4.17	83.33	100.00	54.17	12.50	66.67	29.17	16.67	0.00	4.2	79.2	4.2

Average Frequency : 50.015	Frequency Variation Index : 0.022	Standard Deviation : 0.045	Mileage: 0.9	FDI: 16.7
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Instantaneous Frequency		
Max	50.227	8:44:10
Min	49.771	19:51:40

An Hour Average Frequency		
Max	50.150	9:00:00
Min	49.921	20:00:00

No. of excursions	
above 50.03 Hz	3
below 49.97 Hz	3
above 50.00 Hz	5
below 50.00 Hz	4

Average time freq per excursion remains	
below 49.97	1:20:00
above 50.03	2:20:00

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