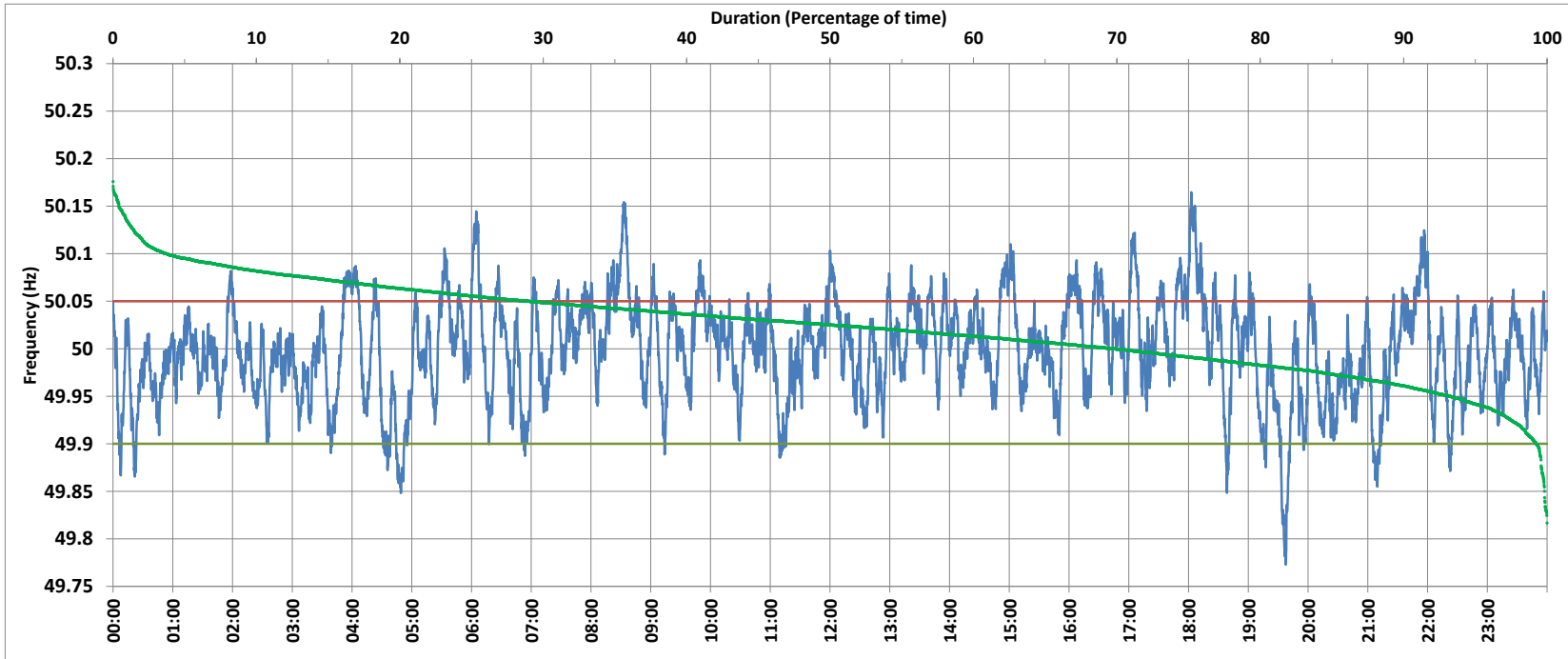


POWER SYSTEM OPERATION CORPORATION LIMITED  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



400KV KALWA:Frequency

National Grid Frequency Profile for 16-Jul-2017



<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
0.00	3.41	28.75	0.16	3.25	46.42	48.23	1.93	80.78	100.00	44.26	13.90	50.05	26.99	15.81	0.00

Average Frequency :	50.00	Frequency Variation Index :	0.027	Standard Deviation :	0.052
---------------------	-------	-----------------------------	-------	----------------------	-------

Instantaneous Frequency		
Max	50.16	18:02:40
Min	49.77	19:37:40

15 minute Average Frequency		
Max	50.101	18:15:00
Min	49.870	19:45:00

No. of excursions above 50.03 Hz	166
No. of excursions below 49.97 Hz	151
No. of excursions above 50.00 Hz	198
No. of excursions below 50.00 Hz	201

Average time freq remains below 49.97 per excursion	0:02:45	Average time frequency remains above 50.03 per excursion	0:02:20
---	---------	--	---------