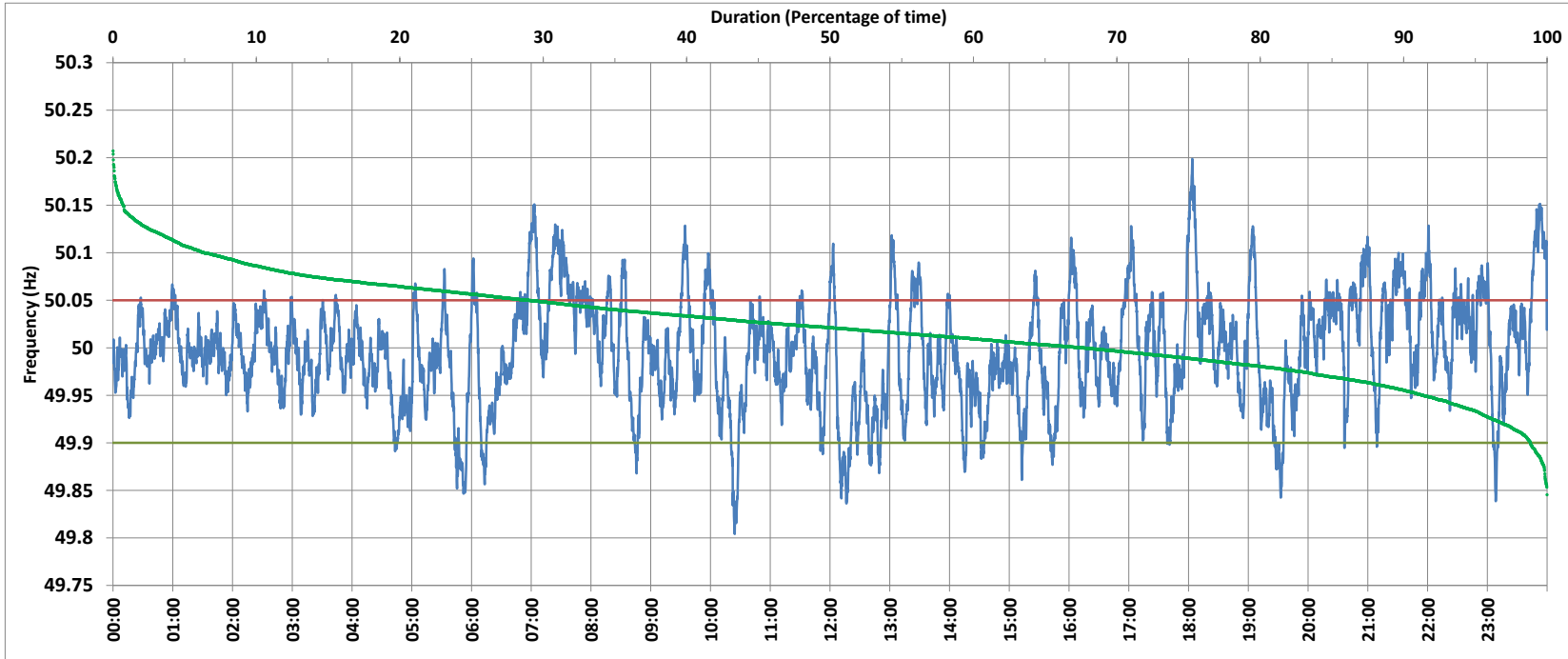


POWER SYSTEM OPERATION CORPORATION LIMITED  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



400KV KALWA:Frequency

National Grid Frequency Profile for 10-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	4.97	30.57	0.00	4.97	48.41	42.93	3.69	78.94	100.00	42.07	12.45	46.57	27.36	16.10	0.00

Average Frequency :	50.00	Frequency Variation Index :	0.032	Standard Deviation :	0.056
---------------------	-------	-----------------------------	-------	----------------------	-------

Instantaneous Frequency		
Max	50.2	18:03:40
Min	49.80	10:24:10

15 minute Average Frequency		
Max	50.114	0:00:00
Min	49.898	10:30:00

No. of excursions above 50.03 Hz	128
No. of excursions below 49.97 Hz	142
No. of excursions above 50.00 Hz	196
No. of excursions below 50.00 Hz	194

Average time freq remains below 49.97 per excursion	0:03:06	Average time frequency remains above 50.03 per excursion	0:03:05
---	---------	--	---------