

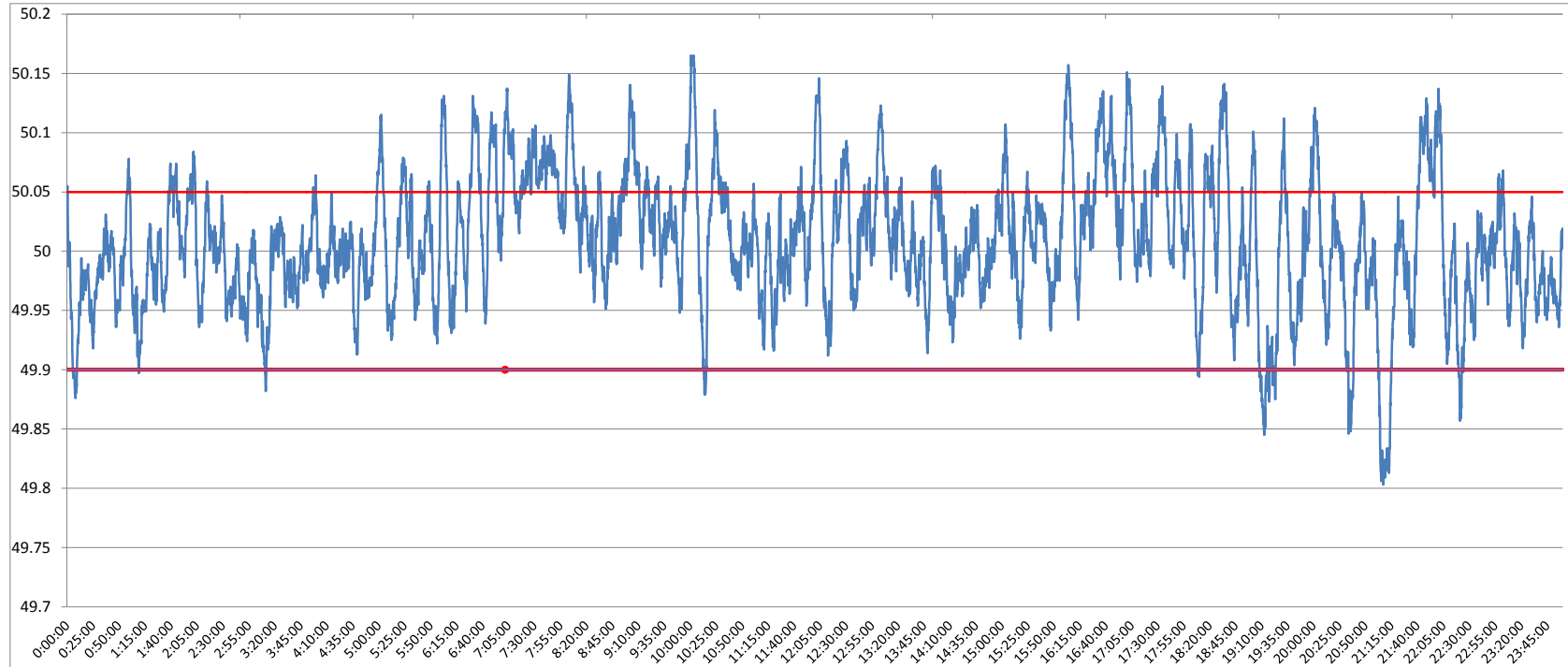


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

400KV KALWA:Frequency

National Grid Frequency Profile for

15-Apr-17



<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	0.00	2.72	23.18	0.00	2.72	41.54	49.40	6.34	74.83	100.00	44.33	16.90	53.99	32.49	22.45	0.00

Average Frequency	50.01	Frequency Variation Index :	0.032	Standard Deviation :	0.056
--------------------------	--------------	------------------------------------	--------------	-----------------------------	--------------

Instantaneous Frequency		15 minute average Frequency		No. of excursion above 50.03 Hz		116		
Max	50.17	10:00:50	Max	50.096	16:45:00	No. of excursion below 49.97 Hz		101
Min	49.80	21:07:20	Min	49.853	21:15:00	No. of excursion above 50.00 Hz		132
						No. of excursion below 50.00 Hz		138

Average time freq remains below 49.97 per excursion	0:03:18	Average time frequency remains above 50.03 per excursion	0:04:02
--	----------------	---	----------------