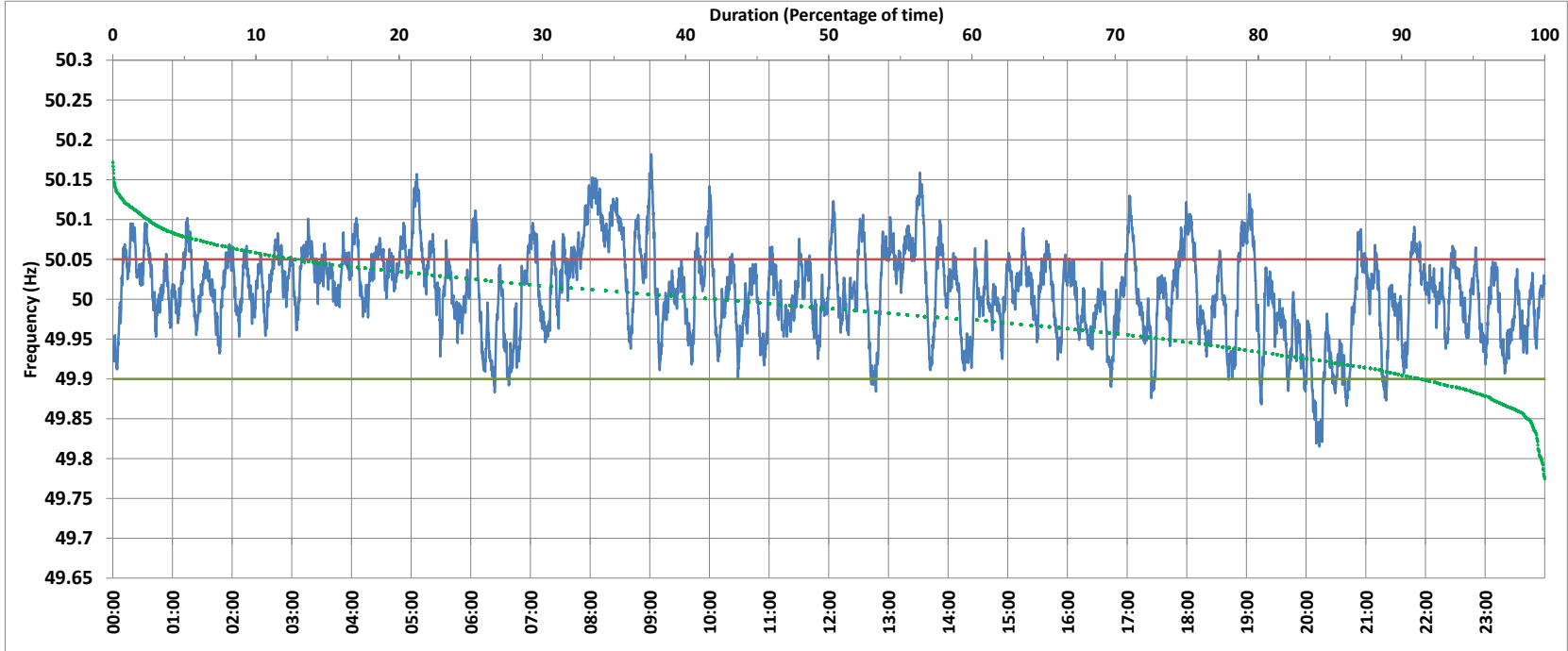


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



HISSAR:Frequency

National Grid Frequency Profile for 20-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	2.64	22.86	0.00	2.64	37.03	56.01	4.33	74.51	100.00	40.54	19.19	58.91	36.60	22.85	0.00

Average Frequency :	50.010	Frequency Variation Index :	0.031	Standard Deviation :	0.055
---------------------	--------	-----------------------------	-------	----------------------	-------

Instantaneous Frequency		
Max	50.182	9:01:30
Min	49.815	20:13:30

15 minute Average Frequency		
Max	50.119	8:15:00
Min	49.886	20:15:00

No. of excursions above 50.03 Hz	142
No. of excursions below 49.97 Hz	86
No. of excursions above 50.00 Hz	114
No. of excursions below 50.00 Hz	115

Average time freq remains below 49.97 per excursion	0:03:50	Average time frequency remains above 50.03 per excursion	0:03:43
---	---------	--	---------