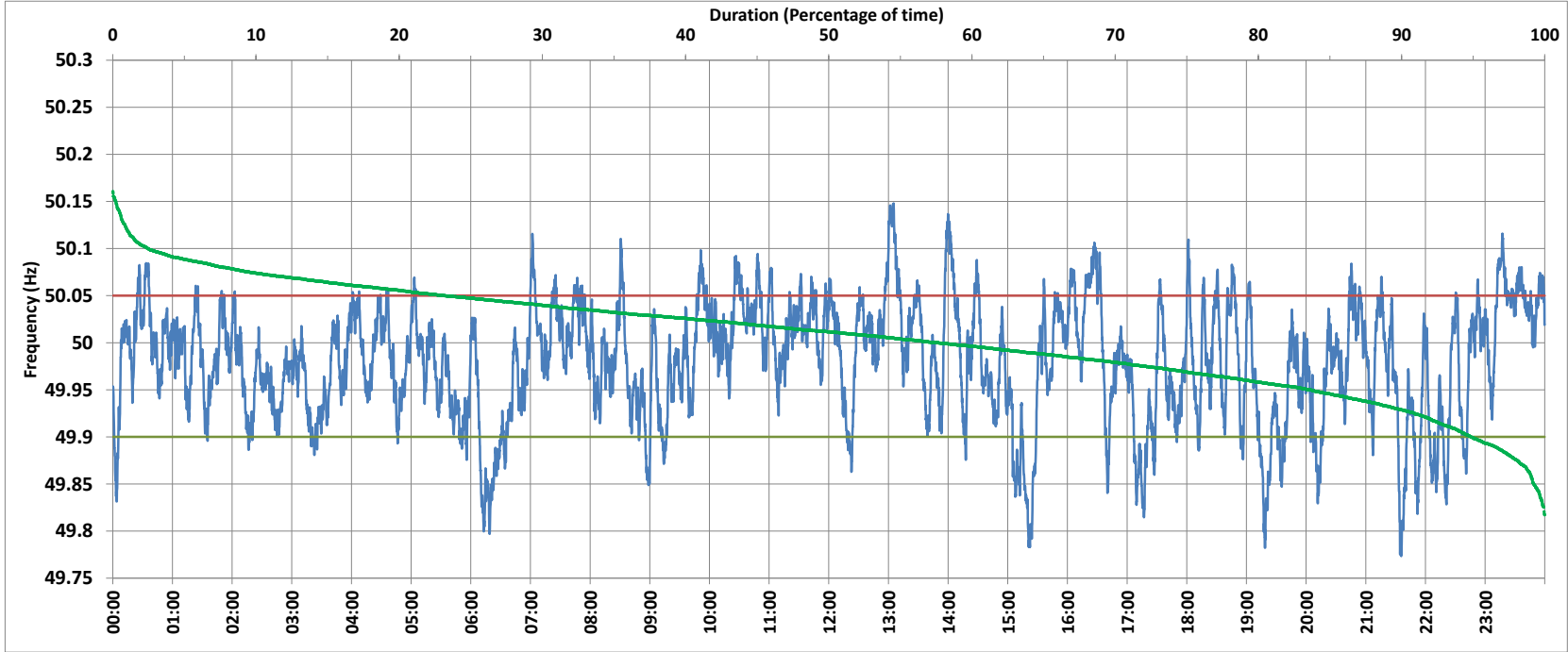


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



400KV KALWA:Frequency

National Grid Frequency Profile for 18-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	11.20	40.83	0.42	10.79	48.24	39.41	1.15	77.36	100.00	37.55	10.39	40.52	21.62	11.44	0.00

Average Frequency :	49.979	Frequency Variation Index :	0.043	Standard Deviation :	0.062
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Instantaneous Frequency		
Max	50.148	13:05:10
Min	49.773	21:35:40

15 minute Average Frequency		
Max	50.085	13:15:00
Min	49.846	15:30:00

No. of excursions above 50.03 Hz	121
No. of excursions below 49.97 Hz	129
No. of excursions above 50.00 Hz	157
No. of excursions below 50.00 Hz	157

Average time freq remains below 49.97 per excursion	0:04:33	Average time frequency remains above 50.03 per excursion	0:02:34
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