



भारतसरकार
केन्द्रीयविद्युतप्राधिकरण
दक्षिणक्षेत्रीयविद्युतसमिति
29, रेसकोर्सक्रासरोड
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सं. दक्षेविस /अअ.1/2019/

No. SRPC/SE-I/2019/2715

दिनांक/ Dated: 13th May, 2019

सेवामें/ To

Chief (Engineering), CERC,
New Delhi

Subject: -Comments/suggestions regarding implementation of 5th Amendment of DSM Regulations -reg.

Ref.: Draft Amendment (5th) of DSM Regulations notified by CERC on 18th April, 2019

Sir,

Comments/suggestion on the Draft Amendment (5th) of Central Electricity Commission (Deviation Settlement Mechanism and related matters) Regulations, 2014 are enclosed at **APPENDIX** for your kind consideration.

भवदीय/Yours faithfully,

संलग्नक:यथोपरि/ Encl: as above

(असित सिंह /Asit Singh)

सदस्यसचिव (I/C)/Member Secretary (I/C)

Comments of SRPC Secretariat on Draft CERC (DSM) (Fifth Amendment) Regulations, 2019

Sl No	Regulation No & Page No	Regulation as in Draft/Principal regulation	Suggestion by SRPC Secretariat	Reason/Comment
1	7 (10) (a) & (b)	 in the range of +/- 10 MW.....	 in the range of +/- 20 MW.....	Actual dead band available to an entity is 10 MW in either direction. Besides the reason mentioned in EM, it is evident that there are variations between SCADA and SEM due to accuracy class of the instrumentation/equipment involved. Therefore, a band of 20 MW in each direction (2% of schedule. i.r.o of an entity with 1000 MW) can be considered as the range for satisfying the criteria of sign change. The variation between SEM and SCADA for few state for certain blocks/day is illustrated at Annexure-I . It can be seen that the block variation for TN is -4% to 3% and for AP is -5% to 12% and these are not reflected in daily averages.
2	7(10) (b)	Additional Charge Payable an additional charge @ 3% of daily base DSM payable / receivable..... an additional charge @ 5% of daily base DSM payable / receivable an additional charge @ 10% of daily base DSM payable / receivable	The daily base DSM payable has some limitations, for example an entity has Rs 5 Lakh DSM payable to pool and Rs 4 lakh receivable from pool in a day, the net base DSM is Rs 1 lakh. Another entity has to pay Rs 2 lakh DSM payable to pool and Rs 7 lakh DSM receivable from pool, its net base DSM works out to be Rs 5 Lakh. Therefore it is suggested that time block DSM need to be used instead of daily base DSM. Number of violations could be worked out accordingly.	
3.	7 (10) (b)		No of violations can be computed	This would ensure step wise additional charges

APPENDIX

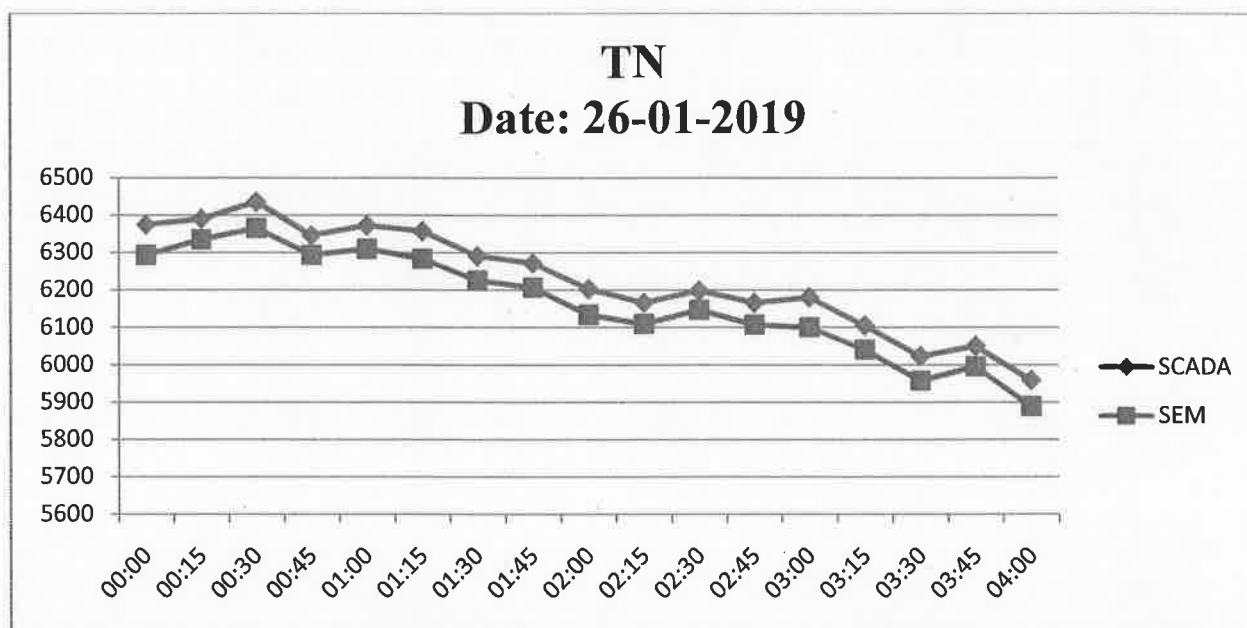
			in terms of blocks. If sign change (within range) takes place 7th TB – 0 violation 8th TB – 1 violation 9th TB – 2 violations Suppose there are 6 time Block violations upto 50th TB and sign has changed in 50th TB then if sign is made effective in 56th TB – (0+6) violations 57th TB - (1+6) violations	and additional charges will stop in the Time Block sign change is made effective.																
4.	7 (10) (b)	<table><tr><td>No. of violations in a Day</td><td>Additional Charge Payable</td></tr><tr><td>From first to fifth violation</td><td>For each violation, an additional charge @ 3% of daily base DSM payable / receivable</td></tr><tr><td>From sixth to tenth violation</td><td>For each violation, an additional charge @ 5% of daily base DSM payable / receivable</td></tr><tr><td>From eleventh violation onwards</td><td>For each violation, an additional charge @ 10% of daily base DSM payable / receivable</td></tr></table>	No. of violations in a Day	Additional Charge Payable	From first to fifth violation	For each violation, an additional charge @ 3% of daily base DSM payable / receivable	From sixth to tenth violation	For each violation, an additional charge @ 5% of daily base DSM payable / receivable	From eleventh violation onwards	For each violation, an additional charge @ 10% of daily base DSM payable / receivable	<table><tr><td>No. of Block violations in a Day</td><td>Additional Charge Payable</td></tr><tr><td>From first to thirty (30) violation</td><td>For each violation, an additional charge @ 3% of time block DSM</td></tr><tr><td>From thirty one (31) to sixty (60) violations</td><td>For each violation, an additional charge @ 5% of time block DSM</td></tr><tr><td>From sixty first (61) violation onwards</td><td>For each violation, an additional charge @ 10% of time block DSM</td></tr></table>	No. of Block violations in a Day	Additional Charge Payable	From first to thirty (30) violation	For each violation, an additional charge @ 3% of time block DSM	From thirty one (31) to sixty (60) violations	For each violation, an additional charge @ 5% of time block DSM	From sixty first (61) violation onwards	For each violation, an additional charge @ 10% of time block DSM	Keeping in view of the above (violations in respect to time block) the additional charges can be considered accordingly. Additional charges %age can be changed as deemed fit.
No. of violations in a Day	Additional Charge Payable																			
From first to fifth violation	For each violation, an additional charge @ 3% of daily base DSM payable / receivable																			
From sixth to tenth violation	For each violation, an additional charge @ 5% of daily base DSM payable / receivable																			
From eleventh violation onwards	For each violation, an additional charge @ 10% of daily base DSM payable / receivable																			
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From sixty first (61) violation onwards	For each violation, an additional charge @ 10% of time block DSM																			

APPENDIX

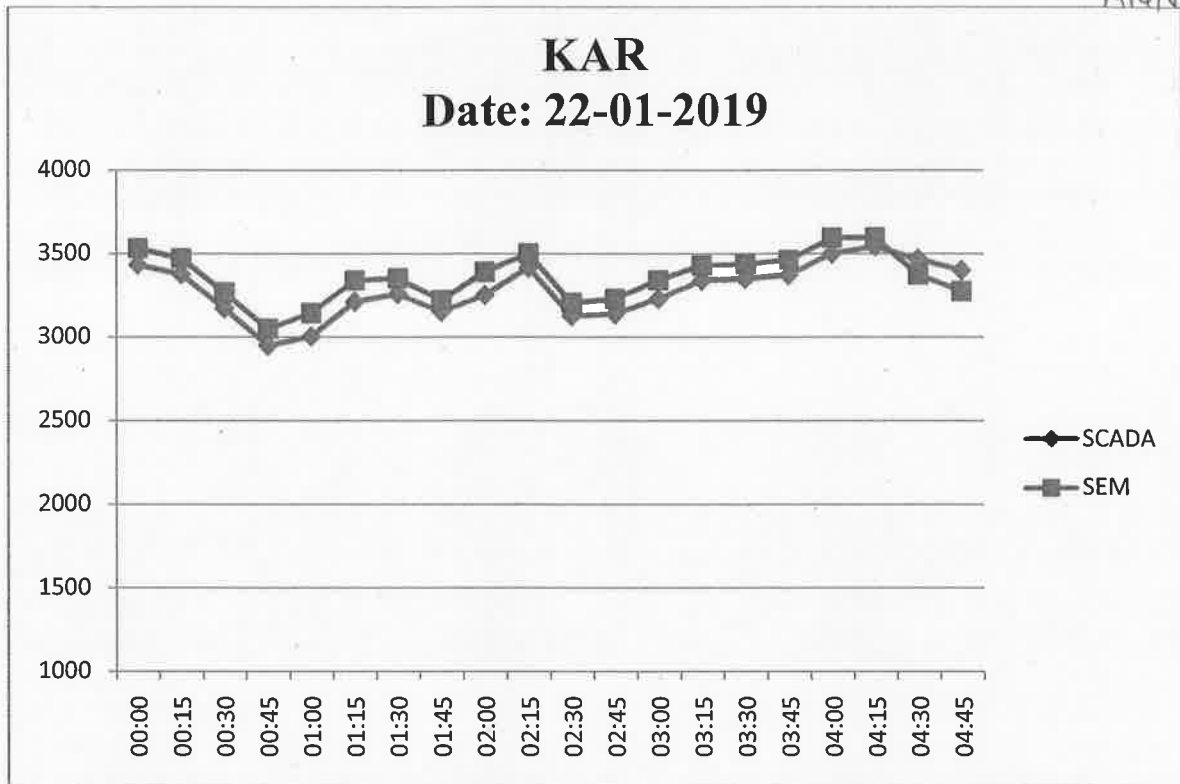
5.	7 (10) (a) & (b)	Provided also that payment of additional charge for failure to adhere to sign change requirement as specified under clauses (a) & (b) of this regulation shall not be applicable to:	Provided also that payment of additional charge for failure to adhere to sign change requirement as specified under clauses (a) & (b) of this regulation shall not be applicable to: (g) Stations/stage under AGC	It is felt that station/stage under AGC is already programmed to correct the Regional ACE and sign change may not be made mandatory for them.
6.	7 (10) (a) & (b)		Change in Explanation & Illustration	Due to above.
7.	7 (10) (a) & (b)	Forced outage of generating stations in case of collective transactions on Power Exchanges.	Forced Outage of Generating stations in case of Final implemented schedule transaction on only of collective transaction on Power Exchange. In such scenario, RLDC is required to furnish the forced outage details of generating stations in case of collective transactions on Power Exchange.	Most of the Generators are going for PX transactions and in case of any forced outage; the sign change clause would not be applicable. Further, the details of forced outage are to be communicated to RPC by RLDC.

Annexure-I

Illustration: SEM and SCADA data differential



TNEB				
AVERAGE DRAWAL				
	SCADA	SEM	MISMATCH	MISMATCH
Date	(MW)	(MW)	(MW)	%
25-01-2019	6694.53	6616.89	77.64	1.17
26-01-2019	6350.93	6286.46	64.47	1.03
27-01-2019	6212	6150.92	61.08	0.99



KPTCL				
	AVERAGE DRAWAL			
	SCADA	SEM	MISMATCH	MISMATCH
Date	(MW)	(MW)	(MW)	%
21-01-2019	3196.57	3217.14	-20.56	-0.64
22-01-2019	3530.66	3509.8	20.87	0.59
24-01-2019	3563.17	3541.79	21.38	0.6
26-01-2019	3475.47	3518.57	-43.1	-1.22

APPENDIX ANNEXURE-I

Time	TN 02-01-2019				AP 03-01-2019			
	SCADA	SEM	Mismatch	%	SCADA	SEM	Mismatch	%
00:00	4264.03	4327.94	-63.91	-1.48	1956.79	1896.59	60.20	3.17
00:15	4118.27	4185.02	-66.75	-1.60	1941.32	1819.66	121.66	6.69
00:30	4107.42	4174.90	-67.48	-1.62	1812.32	1704.41	107.90	6.33
00:45	4052.74	4121.03	-68.30	-1.66	1746.06	1662.15	83.91	5.06
01:00	4003.81	4069.19	-65.38	-1.61	1930.97	1869.74	61.23	3.27
01:15	3976.37	4057.14	-80.77	-1.99	2037.23	1934.19	103.04	5.33
01:30	4042.03	4116.27	-74.24	-1.80	2031.14	1908.46	122.68	6.43
01:45	4056.59	4143.16	-86.57	-2.09	2047.06	1950.48	96.58	4.95
02:00	4123.92	4198.14	-74.22	-1.77	2061.63	1980.21	81.42	4.11
02:15	4085.85	4160.47	-74.61	-1.79	2041.13	1932.65	108.49	5.61
02:30	4106.25	4194.61	-88.36	-2.11	2022.62	1914.47	108.05	5.64
02:45	4234.54	4317.50	-82.96	-1.92	2047.21	1928.23	118.98	6.17
03:00	4257.37	4330.89	-73.52	-1.70	2097.46	1978.20	119.26	6.03
03:15	4247.51	4333.22	-85.71	-1.98	2205.59	2080.34	125.24	6.02
03:30	4186.99	4296.67	-109.68	-2.55	2365.52	2262.80	102.72	4.54
03:45	4037.80	4156.60	-117.80	-2.83	2543.40	2429.24	114.16	4.70
04:00	3946.64	4067.73	-121.09	-2.98	2903.53	2815.49	88.04	3.13
04:15	3977.32	4097.31	-119.99	-2.93	3001.13	2850.84	150.29	5.27
04:30	4136.72	4276.11	-139.39	-3.26	2945.37	2814.86	130.51	4.64
04:45	4250.60	4383.14	-132.54	-3.02	2921.81	2814.36	107.45	3.82
05:00	4324.44	4472.25	-147.81	-3.30	3231.28	3146.85	84.43	2.68
05:15	4528.08	4701.28	-173.20	-3.68	3369.80	3273.41	96.39	2.94
05:30	4916.48	5090.44	-174.95	-3.44	3294.89	3188.76	106.13	3.33
05:45	6207.28	5391.15	-183.86	-3.41	3299.28	3121.57	177.71	5.69
06:00	5348.33	5534.17	-185.84	-3.36	3310.95	3170.64	140.30	4.43
06:15	5612.16	5821.62	-209.46	-3.60	3435.42	3293.10	142.32	4.32
06:30	6069.21	6310.59	-241.38	-3.83	3486.78	3366.64	130.14	3.88
06:45	6594.37	6823.90	-229.53	-3.36	3361.02	3149.37	211.65	6.72
07:00	6856.01	7040.34	-184.33	-2.62	3494.11	3427.01	67.10	1.96
07:15	6832.57	7012.38	-179.81	-2.56	3744.71	3732.65	11.85	0.32
07:30	6966.56	7139.06	-172.50	-2.42	3584.85	3582.62	2.23	0.06
07:45	6772.76	6923.71	-150.95	-2.18	3397.36	3317.35	80.01	2.41
08:00	6273.95	6425.70	-151.75	-2.36	3439.86	3422.09	17.77	0.52
08:15	6032.38	6192.63	-160.25	-2.69	3431.84	3447.26	-15.42	-0.45
08:30	5797.82	5973.96	-176.14	-2.95	3249.52	3303.31	-53.79	-1.63
08:45	5569.89	5738.83	-168.94	-2.94	3165.39	3322.05	-156.67	-4.72
09:00	5456.87	5649.49	-192.62	-3.41	3049.96	3096.18	-46.22	-1.49
09:15	5512.51	5690.37	-177.87	-3.13	2972.72	2965.62	7.10	0.24
09:30	5244.70	5378.08	-133.38	-2.48	2848.28	2831.40	16.87	0.60
09:45	5167.74	5368.81	-201.07	-3.75	2987.69	2955.21	32.47	1.10
10:00	5293.53	5488.07	-194.54	-3.54	2875.51	2920.05	-44.54	-1.53
10:15	5385.84	5556.46	-169.62	-3.05	2868.89	2881.48	-12.59	-0.44
10:30	5405.41	5546.36	-140.96	-2.54	2985.33	2947.23	38.10	1.29
10:45	5413.31	5575.38	-162.07	-2.91	2950.29	2850.13	100.16	3.51
11:00	5403.47	5561.39	-157.93	-2.84	2590.00	2515.61	74.39	2.96
11:15	5443.49	5622.16	-178.67	-3.18	2653.05	2607.76	45.29	1.74
11:30	5410.49	5594.64	-184.15	-3.29	2773.82	2779.37	-5.55	-0.20
11:45	5322.65	5477.26	-154.61	-2.82	2952.98	2908.52	44.46	1.53
12:00	5163.21	5347.49	-184.28	-3.45	2857.45	2955.41	-97.96	-3.31
12:15	5396.97	5557.65	-160.69	-2.89	2749.41	2651.13	98.28	3.71
12:30	5340.64	5475.32	-134.68	-2.46	2970.90	2937.72	33.18	1.13
12:45	5308.24	5479.83	-171.59	-3.13	3010.98	3012.66	-1.68	-0.06
13:00	5066.52	5193.50	-126.98	-2.44	2885.76	2911.00	-25.24	-0.87
13:15	5058.75	5199.57	-140.83	-2.71	2800.07	2764.03	36.04	1.30
13:30	5125.02	5260.07	-135.05	-2.57	2710.49	2688.12	22.37	0.83
13:45	5070.62	5189.65	-119.03	-2.29	2574.12	2515.61	58.51	2.33
14:00	5062.99	5195.03	-132.04	-2.54	2557.93	2475.53	82.40	3.33
14:15	5170.63	5301.79	-131.16	-2.47	2467.76	2331.40	136.36	5.85
14:30	5508.66	5646.03	-137.37	-2.43	2261.43	2230.69	30.73	1.38
14:45	5697.98	5845.90	-147.92	-2.53	2308.86	2200.98	107.88	4.90
15:00	5838.83	5997.97	-159.13	-2.65	2231.14	2076.08	155.06	7.47
15:15	6120.10	6279.12	-159.02	-2.53	2401.06	2277.27	123.79	5.44
15:30	6265.44	6420.98	-155.54	-2.42	2551.09	2419.30	131.80	5.45
15:45	6258.13	6423.12	-164.99	-2.57	2672.00	2534.91	137.09	5.41
16:00	6305.19	6475.44	-170.25	-2.63	2707.97	2575.83	132.14	5.13
16:15	6613.72	6786.61	-172.89	-2.55	2904.43	2772.33	132.10	4.76
16:30	6914.86	7090.54	-175.68	-2.48	2926.53	2755.90	170.63	6.19
16:45	7102.97	7278.45	-175.48	-2.41	2962.30	2712.20	250.09	9.22
17:00	7192.79	7365.10	-172.32	-2.34	2872.77	2673.78	198.99	7.44
17:15	7306.06	7480.82	-174.76	-2.34	2860.44	2640.54	219.90	8.33
17:30	7403.65	7578.64	-174.98	-2.31	2786.52	2487.94	298.57	12.00
17:45	7701.52	7853.77	-152.25	-1.94	2838.61	2602.13	236.48	9.09
18:00	8172.21	8168.94	3.27	0.04	2990.76	2763.16	227.60	8.24
18:15	7845.47	7837.23	8.25	0.11	2920.44	2605.22	315.22	12.10
18:30	7893.56	7894.64	-1.08	-0.01	2892.43	2594.76	297.66	11.47
18:45	7984.75	7976.27	8.48	0.11	2857.31	2606.08	251.23	9.64
19:00	7990.18	7985.87	4.31	0.05	2543.30	2307.49	235.81	10.22
19:15	7874.05	7852.31	21.74	0.28	2613.89	2433.38	180.51	7.42
19:30	7695.84	7681.99	13.85	0.18	2618.16	2388.02	230.14	9.64
19:45	7689.69	7680.04	9.65	0.13	2572.89	2406.48	166.41	6.92
20:00	7577.04	7567.32	9.73	0.13	2600.04	2532.24	67.80	2.68
20:15	7520.91	7508.39	12.52	0.17	2608.98	2496.77	112.21	4.49
20:30	7331.26	7325.91	5.35	0.07	2737.39	2596.63	140.76	5.42
20:45	7213.25	7195.54	17.72	0.25	2827.51	2705.49	122.01	4.51
21:00	6992.61	6974.55	18.06	0.26	2975.85	2870.66	105.19	3.66
21:15	6814.84	6803.52	11.32	0.17	2731.94	2604.08	127.86	4.91
21:30	6542.76	6527.41	15.35	0.24	2585.08	2459.23	125.85	5.12
21:45	6325.88	6313.31	12.57	0.20	2552.09	2419.13	132.96	5.50
22:00	6208.49	6180.73	27.76	0.45	2548.99	2424.14	124.85	5.15
22:15	6044.24	6027.67	16.56	0.27	2363.39	2232.37	131.03	5.87
22:30	5787.82	5765.24	22.58	0.39	2321.67	2222.86	98.81	4.45
22:45	5558.54	5559.50	-0.96	-0.02	2479.93	2435.67	44.05	1.81
23:00	5633.82	5641.48	-7.66	-0.14	2436.44	2364.71	71.73	3.03
23:15	5672.51	5640.65	31.86	0.56	2367.76	2276.73	91.04	4.00
23:30	5623.30	5481.92	141.37	2.58	2364.73	2246.54	108.19	4.82
23:45	5273.16	5244.68	28.48	0.54	2399.29	2264.68	134.62	5.94