



GridView Enhancement Testing Transmission Violation & Line Overload reports

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Bhavana Katyal
Senior Engineer

Transmission Violation Report & Line Overload Report

- Further Testing done on GridView 10.3.39
- Runtime for the reports between 2-4 minutes
- Previously tested parts retested and are reporting correctly
- Errors in Interface transmission violation and line overload report in GridView 10.3.34 fixed in the new version

Verification—Interface Transmission Violation Report

- Get Transmission Violation Constrains (4.1.2.1 from scope of work)

	A	B	C	D	E	F	G
1	No.	Transmission Constraint Name	Short Name	Type	Over Loading Hours	Total Congestion Hours	Total Congestion Cost
2	1	19502_19062_1	B1	Branch	1	28	1,916,417.75
3	2	30280_30330_1	B2	Branch	1	159	483,405.94
4	3	30948_34817_1	B3	Branch	5136	5136	846,790,208.00
5	4	60821_61810_1	B4	Branch	35	35	3,019,880.00
6	5	61850_60831_1	B5	Branch	232	232	18,541,526.00
7	6	66278_79265_1	B6	Branch	68	333	15,794,278.00
8	7	12181_12101_1	B7	Branch	4	1758	11,740,830.00
9	8	64095_64094_1	B8	Branch	29	4791	6,678,588.00
10	9	79060_79990_1	B9	Branch	5	425	20,575,688.00
11	10	18073_189101_1	B10	Branch	9	205	8,168,616.00
12	11	50697_81802_4	B11	Branch	5	15	971,408.06
13	12	40039_40141_1	B12	Branch	2	48	5,629,992.00
14	13	65420_73107_1	B13	Branch	1	172	7,064,362.00
15	14	P27 Intermountain Power Project DC Line	I1	Interface	46	2344	16,310,398.00
16	15	Pth ATC _IPP DC pole balancing	I2	Interface	7	237	626,860.81
17	16	w_AB32_NW_Tier1_Exports	N1	Nomogram	4827	7171	262,046,656.00
18	17	EPE Balance	N2	Nomogram	1393	2595	860,117,440.00
19							

Summary B1 B2 B3 B4 B5 B6 B7 B8 B9 ...

Ready Accessibility: Investigate 100%

YearSummary_Interface_1

Mixed=====		
	Congestion Cost (k\$)	Congestion Hours (Hrs)
15	626.8607847	237

Verification—Overloading Lines Report

- Get Recording Lines (4.2.2.1 & 4.2.2.2 from scope of work)

	A	B	C	D	E	F	G	H
1	No.	Branch Name	Total Over Loading Hours	Max Positive Flow	Positive Over Loading Hours	Min Negative Flow	Negative Over Loading Hours	Flow Limit
2	1	50456_50458_1	7461	690.19	7461	-16.91	0	507.68
3	2	50458_50459_1	3620	509.56	3620	-197.19	0	566.68
4	3	50783_52502_1	8	64.80	0	-431.49	8	539.60
5	4	50830_54329_1	135	118.69	133	-91.67	2	136.23
6	5	54232_50776_1	1070	195.96	1067	-109.28	3	125.30
7	6	50187_51510_1	1	0.45	0	-79.52	1	79.51
8	7	50185_50186_1	96	-32.86	0	-427.50	96	490.11
9								
10								
11								

Ready Accessibility: Good to go

	A	B	C	D	E	F	G	H	I	J
1	Line Hourly 'Power Flow (MW)' Data for Year 2032									
2										
3	(From the first hour of 1/1/2032 to the last hour of 12/31/2032. Column identifier -- FrBusID_ToBusID_CKT)									
4	Max Flow	195.96	Min Flow	-109.28	hours	Summer Overload	Winter Overloading	Total Overloading		1070
5	Date	Hour	TOU	54232_50776_1	hours	Summer overloading	Winter Overloading			
6	1/1/2032	1	OffPeak	112.0387			FALSE			
7	1/1/2032	2	OffPeak	117.8233			FALSE			
8	1/1/2032	3	OffPeak	121.4047			FALSE			
9	1/1/2032	4	OffPeak	71.2463			FALSE			
10	1/1/2032	5	OffPeak	78.80043			FALSE			
11	1/1/2032	6	OnPeak	60.54568			FALSE			
12	1/1/2032	7	OnPeak	56.98041			FALSE			
13	1/1/2032	8	OnPeak	2.226238			FALSE			
14	1/1/2032	9	OnPeak	-33.0225			FALSE			
15	1/1/2032	10	OnPeak	-38.4965			FALSE			
16	1/1/2032	11	OnPeak	-4.99846			FALSE			
17	1/1/2032	12	OnPeak	10.03611			FALSE			
18	1/1/2032	13	OnPeak	-5.67631			FALSE			

HourlyData_Branch_2032_1 54232-

Tab OverloadingFlow

	A	B	C	D	E	F
1	Branch Name	No.	Data	Hour	Flow	Limit
11226	54232_50776_1	589	8/4/2032	21	-103.92	94.05
11227	54232_50776_1	531	6/30/2032	17	-101.95	94.05
11228	54232_50776_1	530	6/30/2032	16	-97.30	94.05
11229	54232_50776_1	608	8/25/2032	7	94.35	94.05
11230	54232_50776_1	536	7/2/2032	23	94.46	94.05
11231	54232_50776_1	610	8/28/2032	3	94.56	94.05
11232	54232_50776_1	579	7/27/2032	2	94.63	94.05
11233	54232_50776_1	472	6/20/2032	2	94.66	94.05
11234	54232_50776_1	345	5/20/2032	7	94.71	94.05
11235	54232_50776_1	691	10/9/2032	3	94.88	94.05
11236	54232_50776_1	616	8/28/2032	10	94.89	94.05
11237	54232_50776_1	690	10/9/2032	2	95.06	94.05
11238	54232_50776_1	535	7/2/2032	21	95.07	94.05
11239	54232_50776_1	573	7/16/2032	16	95.10	94.05
11240	54232_50776_1	574	7/17/2032	15	95.14	94.05
11241	54232_50776_1	572	7/16/2032	15	95.18	94.05
11242	54232_50776_1	397	5/31/2032	22	95.22	94.05
11243	54232_50776_1	575	7/17/2032	23	95.27	94.05
11244	54232_50776_1	605	8/24/2032	24	95.35	94.05

Ready 1070 of 12391 records found



Contact:

Bhavana Katyal

Senior Engineer

bkatyal@wecc.org