

Table 1 - Rutland / Cold River / Blissville Deficiency Study Results

											bus 87300		bus 82467		bus 82467		bus 82494		bus 82470		bus 87250	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	
entry	case name	general area configuration & conditions	special configuration details	area load	Rut GT	area hydro output	Area caps ³	special conditions (if any)	contingency (if any)	time frame	Castleton-W Rut 46 kV Flow	worst area 46 kV line overload	2nd worst area 46 kV line overload	Southern Tie Outflow	Blissville 115/46 kV xformer loading	N Rutland 115/46 kV xformer loading ⁴	Cold Riv 115/46 kV xformer loading ⁴	new xformer loading (if applicable)	worst area 46 kV voltage	Dorset 46 kV voltage	comments	
1	Rut-ColdRiv-Blissv-1.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	2.0 Mw	all on	none	none	SS	2.8 Mw	none	none	22.1 Mw	20.6 Mva / 33% nameplate	45.9 Mva / 81% nameplate	42.6 Mva / 77% nameplate	N/A	93% at Chester	96%		
2	Rut-ColdRiv-Blissv-1a.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	none	SS	3.0 Mw	none	none	21.8 Mw	20.8 Mva / 34% nameplate	46.8 Mva / 82% nameplate	43.0 Mva / 78% nameplate	N/A	93% at Chester	96%		
3	Rut-ColdRiv-Blissv-1aa.sav ³	existing, with southernmost VT tie importing from NY precont.	none	present peak summer	off	zero ²	all on	none	none	SS	5.2 Mw	none	none	-24.7 Mw	23.2 Mva / 38% nameplate	44.6 Mva / 78% nameplate	42.5 Mva / 77% nameplate	N/A	92% at Chester	95%		
4	Rut-ColdRiv-Blissv-2.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	E Rut tap - N Rut 46 kV line	T ₀₊	1.9 Mw	none	none	22.2 Mw	19.7 Mva / 32% nameplate	40.4 Mva / 71% nameplate	50.0 Mva / 91% nameplate	N/A	91% at E Rutland	96%		
5	Rut-ColdRiv-Blissv-3.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	Smithy tap - Cavd 46 kV line	T ₀₊	3.2 Mw	none	none	21.6 Mw	21.1 Mva / 34% nameplate	47.9 Mva / 84% nameplate	43.7 Mva / 79% nameplate	N/A	87% at Smithville	96%		
6	Rut-ColdRiv-Blissv-4.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	N Rut 115/46 kV xformer	T ₀₊	11.2 Mw	none	none	20.1 Mw	30.1 Mva / 49% nameplate	N/A (out of service)	68.1 Mva / 124% nameplate	N/A	90% at E Rutland	95%	slightly incorrect Cold River xformer Z	
7	Rut-ColdRiv-Blissv-4a.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer ⁵	off	zero ²	all on	none	N Rut 115/46 kV xformer	T ₀₊	12.7 Mw	Hydeville-Blissville 117%	none	19.7 Mw	31.9 Mva / 52% nameplate	N/A (out of service)	67.6 Mva / 123% nameplate	N/A	88% at E Rutland	95%	modest correction to Cold River xformer Z	
8	Rut-ColdRiv-Blissv-4rgt.sav ³	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer ⁵	off	zero ²	all on	none	N Rut 115/46 kV xformer	SS	10.7 Mw	Hydeville-Blissville 104%	none	22.0 Mw	29.5 Mva / 48% nameplate	N/A (out of service)	60.5 Mva / 110% nameplate	N/A	90% at E Rutland	95%		
9	Rut-ColdRiv-Blissv-4aa.sav ³	existing, with southernmost VT tie importing from NY precont.	none	present peak summer	off	zero ²	all on	none	N Rut 115/46 kV xformer	T ₀₊	13.1 Mw	Hydeville-Blissville 118%	none	-26.2 Mw	32.1 Mva / 52% nameplate	N/A (out of service)	70.4 Mva / 128% nameplate	N/A	89% at E Rutland	94%	Middlebury 115/46 kV @ 105% of nameplate	
10	Rut-ColdRiv-Blissv-5.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	Cold Riv 115/46 kV xformer	T ₀₊	7.7 Mw	E Rut tap-S Rut 104% ¹¹	none	20.3 Mw	25.9 Mva / 42% nameplate	77.3 Mva / 136% nameplate	N/A (out of service)	N/A	90% at Wallingford	96%		
11	Rut-ColdRiv-Blissv-5rgt.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	Cold Riv 115/46 kV xformer	SS	6.1 Mw	none	none	22.4 Mw	24.2 Mva / 39% nameplate	69.4 Mva / 122% nameplate	N/A (out of service)	N/A	92% at Wallingford	96%		
12	Rut-ColdRiv-Blissv-6.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	Blissville 115/46 kV xformer	T ₀₊	-19.4 Mw	Castleton-W Rut 105%	none	26.5 Mw	N/A (out of service)	60.7 Mva / 107% nameplate	50.3 Mva / 92% nameplate	N/A	78% at Dorset	78%		
13	Rut-ColdRiv-Blissv-6rgt.sav ³	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	Blissville 115/46 kV xformer	SS	-19.3 Mw	Castleton-W Rut 104%	none	28.2 Mw	N/A (out of service)	55.2 Mva / 97% nameplate	46.1 Mva / 84% nameplate	N/A	80% at Dorset	80%		
14	Rut-ColdRiv-Blissv-7.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	Blissville - Hydeville 46 kV line	T ₀₊	-9.0 Mw	none	none	24.8 Mw	9.6 Mva / 16% nameplate	54.4 Mva / 96% nameplate	46.9 Mva / 85% nameplate	N/A	89% at Carver's Falls	97%		
15	Rut-ColdRiv-Blissv-8.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	N Rut - W Rut 115 kV line	T ₀₊	7.4 Mw	none	none	24.7 Mw	25.7 Mva / 41% nameplate	38.2 Mva / 67% nameplate	41.2 Mva / 75% nameplate	N/A	93% at Chester	96%		
16	Rut-ColdRiv-Blissv-9.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	W Rut - Blissville 115 kV line	T ₀₊	-4.3 Mw	none	none	-13.5 Mw	13.5 Mva / 22% nameplate	51.6 Mva / 91% nameplate	45.4 Mva / 83% nameplate	N/A	92% at Dorset	92%		
17	Rut-ColdRiv-Blissv-10.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	Cold River - S Rut 46 kV line	T ₀₊	4.2 Mw	E Rut tap-S Rut 101% ¹¹	none	21.2 Mw	22.1 Mva / 36% nameplate	54.1 Mva / 95% nameplate	36.4 Mva / 66% nameplate	N/A	92% at S Rutland	96%		
18	Rut-ColdRiv-Blissv-11.sav ²	existing, with southernmost VT tie exporting to NY precont.	none	present peak summer	off	zero ²	all on	none	Coolidge - W Rut 345 kV line	T ₀₊	3.0 Mw	none	none	-68.8 Mw	21.0 Mva / 34% nameplate	37.5 Mva / 66% nameplate	46.3 Mva / 84% nameplate	N/A	90% at Wallingford	91%	Acubney 115/46 kV @ 105% of nameplate	
19	Rut-ColdRiv-Blissv-11aa.sav ³	existing, with southernmost VT tie importing from NY precont.	none	present peak summer	off	zero ²	all on	none	Coolidge - W Rut 345 kV line	T ₀₊	4.7 Mw	none	none	-102.0 Mw	22.8 Mva / 37% nameplate	37.9 Mva / 66% nameplate	45.6 Mva / 83% nameplate	N/A	89% at S Rutland	89%	Acubney 115/46 kV @ 104% of nameplate	
20	Rut-ColdRiv-Blissv-1a-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	none	SS	2.4 Mw	none	none	21.0 Mw	17.0 Mva / 27% nameplate	40.2 Mva / 71% nameplate	32.2 Mva / 59% nameplate	N/A	95% at Chester	98%		
21	Rut-ColdRiv-Blissv-1aa-81%-of-peak.sav ²	existing, with southernmost VT tie importing from NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	none	SS	4.7 Mw	none	none	-25.0 Mw	19.5 Mva / 32% nameplate	39.8 Mva / 70% nameplate	31.6 Mva / 57% nameplate	N/A	95% at Chester	97%		
22	Rut-ColdRiv-Blissv-2-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	E Rut tap - N Rut 46 kV line	SS	1.5 Mw	none	none	21.5 Mw	16.1 Mva / 26% nameplate	34.8 Mva / 61% nameplate	37.5 Mva / 68% nameplate	N/A	94% at E Rutland	98%		
23	Rut-ColdRiv-Blissv-3-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	Smithy tap - Cavd 46 kV line	SS	2.6 Mw	none	none	21.0 Mw	17.1 Mva / 28% nameplate	40.9 Mva / 72% nameplate	31.7 Mva / 58% nameplate	N/A	90% at Smithville	97%		
24	Rut-ColdRiv-Blissv-4a-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	N Rut 115/46 kV xformer	T ₀₊	10.1 Mw	none	none	19.7 Mw	25.1 Mva / 41% nameplate	N/A	53.9 Mva / 98% nameplate	N/A	92% at E Rutland	97%		
25	Rut-ColdRiv-Blissv-4aa-81%-of-peak.sav ²	existing, with southernmost VT tie importing from NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	N Rut 115/46 kV xformer	T ₀₊	12.0 Mw	Hydev-Blissv @ 100%	none	-26.3 Mw	27.3 Mva / 44% nameplate	N/A	53.2 Mva / 97% nameplate	N/A	92% at E Rutland	97%		
26	Rut-ColdRiv-Blissv-5-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	Cold Riv 115/46 kV xformer	T ₀₊	5.8 Mw	none	none	20.2 Mw	20.5 Mva / 33% nameplate	N/A	62.1 Mva / 109% nameplate	N/A	95% at Wallingford	98%		
27	Rut-ColdRiv-Blissv-5-81%-of-peak-rgt.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	Cold Riv 115/46 kV xformer	SS	4.3 Mw	none	none	22.2 Mw	19.0 Mva / 31% nameplate	54.8 Mva / 96% nameplate	N/A	N/A	95% at Chester	98%		
28	Rut-ColdRiv-Blissv-6-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	Blissville 115/46 kV xformer	T ₀₊	-15.2 Mw	none	none	25.0 Mw	N/A	50.8 Mva / 89% nameplate	37.1 Mva / 68% nameplate	N/A	87% at Dorset	87%		
29	Rut-ColdRiv-Blissv-7-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	Blissville - Hydeville 46 kV line	SS	-7.2 Mw	none	none	23.5 Mw	8.3 Mva / 13% nameplate	46.3 Mva / 81% nameplate	34.9 Mva / 63% nameplate	N/A	93% at Carvers Fls	98%		
30	Rut-ColdRiv-Blissv-8-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	N Rut - W Rut 115 kV line	T ₀₊	5.7 Mw	none	none	23.4 Mw	20.8 Mva / 34% nameplate	35.6 Mva / 63% nameplate	31.0 Mva / 56% nameplate	N/A	95% at Chester	98%		
31	Rut-ColdRiv-Blissv-9-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	W Rut - Blissville 115 kV line	T ₀₊	-4.2 Mw	none	none	-10.2 Mw	10.4 Mva / 17% nameplate	44.8 Mva / 79% nameplate	34.1 Mva / 62% nameplate	N/A	94% at Dorset	94%		
32	Rut-ColdRiv-Blissv-10-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	Cold River - S Rut 46 kV line	SS	3.2 Mw	none	none	20.8 Mw	17.8 Mva / 29% nameplate	44.9 Mva / 79% nameplate	28.1 Mva / 51% nameplate	N/A	95% at S Rutland	98%		
33	Rut-ColdRiv-Blissv-11-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	Coolidge - W Rut 345 kV line	T ₀₊	2.5 Mw	none	none	-64.0 Mw	16.9 Mva / 27% nameplate	31.3 Mva / 55% nameplate	34.9 Mva / 63% nameplate	N/A	93% at Wallingford	94%		
34	Rut-ColdRiv-Blissv-11aa-81%-of-peak.sav ²	existing, with southernmost VT tie importing from NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	81% of present peak sum ¹³	off	zero ²	all on	none	Coolidge - W Rut 345 kV line	T ₀₊	4.3 Mw	none	none	-97.6 Mw	19.0 Mva / 31% nameplate	31.7 Mva / 56% nameplate	34.1 Mva / 62% nameplate	N/A	92% at S Rutland	93%		
35	Rut-ColdRiv-Blissv-12-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	91% of present peak sum	off	zero ²	all on	none	none	SS	3.0 Mw	none	none	21.1 Mw	19.3 Mva / 31% nameplate	45.3 Mva / 80% nameplate	36.0 Mva / 65% nameplate	N/A	93% at Chester	97%		
36	Rut-ColdRiv-Blissv-12aa-81%-of-peak.sav ²	existing, with southernmost VT tie importing from NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	91% of present peak sum	off	zero ²	all on	none	none	SS	5.2 Mw	none	none	-24.9 Mw	21.8 Mva / 35% nameplate	44.9 Mva / 79% nameplate	35.4 Mva / 64% nameplate	N/A	93% at Chester	96%		
37	Rut-ColdRiv-Blissv-13-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	91% of present peak sum	off	zero ²	all on	none	E Rut tap - N Rut 46 kV line	SS	2.0 Mw	none	none	21.4 Mw	18.3 Mva / 30% nameplate	39.3 Mva / 69% nameplate	42.4 Mva / 77% nameplate	N/A	92% at E Rutland	97%		
38	Rut-ColdRiv-Blissv-14-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	91% of present peak sum	off	zero ²	all on	none	Smithy tap - Cavd 46 kV line	SS	3.2 Mw	none	none	21.0 Mw	19.5 Mva / 32% nameplate	46.0 Mva / 81% nameplate	35.8 Mva / 65% nameplate	N/A	89% at Smithville	96%		
39	Rut-ColdRiv-Blissv-15-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	91% of present peak sum	off	zero ²	all on	none	N Rut 115/46 kV xformer	T ₀₊	11.6 Mw	Hydev-Blissv @ 105%	none	19.4 Mw	28.9 Mva / 47% nameplate	N/A	61.4 Mva / 112% nameplate	N/A	90% at E Rutland	96%		
40	Rut-ColdRiv-Blissv-15-81%-of-peak-rgt.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	91% of present peak sum	off	zero ²	all on	none	N Rut 115/46 kV xformer	SS	9.6 Mw	none	none	21.6 Mw	26.6 Mva / 43% nameplate	N/A	54.6 Mva / 99% nameplate	N/A	92% at E Rutland	96%		
41	Rut-ColdRiv-Blissv-15aa-81%-of-peak.sav ²	existing, with southernmost VT tie importing from NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	91% of present peak sum	off	zero ²	all on	none	N Rut 115/46 kV xformer	T ₀₊	13.4 Mw	Hydev-Blissv @ 115%	none	-26.5 Mw	30.9 Mva / 50% nameplate	N/A	60.8 Mva / 111% nameplate	N/A	90% at E Rutland	95%		
42	Rut-ColdRiv-Blissv-17-81%-of-peak.sav ²	existing, with southernmost VT tie exporting to NY precont.	2nd 46 kV line between W Rut and N Rut/Cold Riv ⁹	91% of present peak sum	off	zero ²	all on	none	Cold Riv 115/46 kV xformer	T ₀₊	6.9 Mw	none	none	19.9 Mw	23.5 Mva / 38% nameplate	70.						