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Attachment A - Resources Exempted from AVR Requirements

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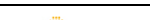
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Background

Certain Resources, described in M/LCC 8A, within the New England RCA are exempted from the requirement to operate with an AVR in-service and controlling voltage because they either (1) do **not** have an AVR or (2) operation with the AVR in the automatic voltage control mode and controlling voltage may adversely impact reliability. For all such Resources, ISO and the LCC have reviewed the impact and have determined that the lack of automatic voltage control is acceptable or required.

The Resources listed in this document are exempted from the **requirement** to operate with an AVR in-service and controlling voltage. A System Impact Study may be required before a Resource is removed from or added to any of the following LCC Tables. The data in each LCC's Table is ordered by Asset ID number.

The Resources listed in each of Tables 1 through 6 are expected to follow either a reactive power schedule or a power factor schedule as described in their NX-12D forms. The Resources listed in each of Tables 1 through 6 are documented as "Option C" for Voltage Control Option in their NX12D forms.

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Resources Exempted from AVR Requirements

Table 1 – CONVEX Resources Exempted from AVR Requirements			
Asset ID	ISO EMS ID	Resource Name	Comments
389	DERB	Derby Dam	
492	MO10	Montville 10 and 11	
769	HADL	Hadley Falls 1&2	
14808	TURN	Turners Falls	
16614	BRKW	Berkshire Wind Power Project	
16738	BPFC	Dominion Bridgeport Fuel Cell	
49370	WODS	90 Woods Hill Rd Pomfret CT	
67726	BR2W	Berkshire Wind Power Project Phase II	
68491	BLDB	Blanford_Gen	"Ld-Node" @ BLANFORD
69180	RBO1	Rainbow 1 Hydro	"Ld-Node" @ WNDSRLCKS
69181	RBO2	Rainbow 2 Hydro	"Ld-Node" @ WNDSRLCKS
69228	MGTB	Kearsarge Montague	"Ld-Node" @ MONTAGUE
73813	DPFC	Derby Park Fuel Cell	


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Table 2 – Maine Resources Exempted from AVR Requirements			
Asset ID	ISO EMS ID	Resource Name	Comments
405	ELLS	Ellsworth Hydro	
424	GNRT	Great Lakes - Millinocket	
487	MILR	Worumbo Hydro	
532	PEJE	Pejepscot	
591	SWBK	Sappi Westbrook	The units are no longer generating, Their NX12D will be updated to reflect current conditions.
35693	SPMT	Spruce Mountain Wind	
37105	BNGW	Bingham Wind	Bingham Synchronous Condenser controls constant voltage at the site.
38173	SADW	Saddleback Ridge Wind	
38738	CANW	Canton Mountain Wind	
40653	MADB	Madison_Gen	Continuous storage facility
46951	OAKW	Oakfield Wind	Oakfield Synchronous Condenser controls constant voltage at the site.
48645	PSGW	Pisgah Mountain Wind	
48960	ATHN	Athens Energy LLC 1	
50121	GEOR	Georges River Energy	
50636	MADH	Madison Composite Hydro	
68727	ORO1	Orono A	"Ld-Node" @ GRAHAM
68728	ORO2	Orono B	"Ld-Node" @ GRAHAM
69240	RMFB	NEBS-Rumford_Gen	"Ld-Node" @ RUMFD_IP
69566	BDHS	BD Solar Hancock	"Ld-Node" @ ELLSWRTH
69568	BDES	BD Solar Hancock North	"Ld-Node" @ ELLSWRTH


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Table 3 – New Hampshire Resources Exempted from AVR Requirements			
Asset ID	ISO EMS ID	Resource Name	Comments
327	AMOS	Amoskeag Hydro	
330	AYER	Ayers Island	
401	EAST	Eastman Falls	
427	GORH	Gorham	
449	JACK	Jackman	
767	CONC	SES Concord	
768	GARV	Garvins Falls	
10424	BERP	Great Lakes - Berlin	


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Table 4 – NGRID			
Resources Exempted from AVR Requirements			
Asset ID	ISO EMS ID	Resource Name	Comments
465	LOWD	Deerfield 2/Lower Deerfield	
467	MARB	Marblehead Diesels	
44030	WRNS	Warren PV	
47991	SOLS	Solterra LLC Solar Project	
48083	FRS	French River	
68486	HAHB	Happy Hollow CSF	"Ld-Node" @ OTTER_RV
68487	PD1B	Puddon Street I_Gen	"Ld-Node" @ WHTNS_PD
68488	PD1S	Puddon Street I Solar	"Ld-Node" @ WHTNS_PD
68489	PD2B	Puddon Street II_Gen	"Ld-Node" @ WHTNS_PD
68490	PD2S	Puddon Street II Solar	"Ld-Node" @ WHTNS_PD
68492	NB1S	N. Brookfield Solar – Ryan	"Ld-Node" @ MEADOWST
68493	NB2S	N. Brookfield Solar – Lane Ave	"Ld-Node" @ MEADOWST
68494	OR1S	Orange Solar – Wilbur Woods	"Ld-Node" @ WENDLDPT
68495	OR2S	Orange Solar – W. Orange	"Ld-Node" @ WENDLDPT
68496	DH1S	Dresser Hill PV1	
68497	DH2S	Dresser Hill PV2	
68498	DH3S	Dresser Hill PV3	
68499	DH4S	Dresser Hill PV4	
68523	WN2S	East Winchendon Solar UN2 /New	"Ld-Node" @ E_WINCHD
68524	WN3S	East Winchendon Solar UN3 /New	"Ld-Node" @ E_WINCHD
68729	CH7	Cherry 7	"Ld-Node" @ HUDSN_HD
68730	CH8	Cherry 8	"Ld-Node" @ HUDSN_HD
68733	CH12	Cherry 11	"Ld-Node" @ HUDSN_HD
68760	AMSB	Kearsarge Amesbury_Gen	"Ld-Node" @ W_AMESBY
69190	HFXB	Syncarpha Halifax_Gen	"Ld-Node" Modeled @ MILL_ST
69204	MILB	Syncarpha Millbury Gen	"Ld-Node" @ MILLBURY


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Table 4 – NGRID Resources Exempted from AVR Requirements			
Asset ID	ISO EMS ID	Resource Name	Comments
69208	WSTB	Syncarpha Westminster	"Ld-Node" @ OTTER_RV
69211	NR1B	Syncarpha Northbridge I	"Ld-Node" @ WHTNS_PD
69216	NR2B	Northbridge II_Gen CSF	"Ld-Node" @ UXBRIDGE
69224	TWKB	Syncarpha Tewksbury CSF_Gen	"Ld-Node" @ E_TEWKS
69232	HAVB	Kearsarge-Haverhill_Gen	"Ld-Node" @ KING_ST
69235	FRKB	Kearsarge_Franklin_GEN	"Ld-Node" @ S_WRENTM
69816	KWMB	Kearsarge William	"Ld-Node" @ DEPOT
69844	AMRS	Ameresco Springbrook Road Westerly Solar	"Ld-Node" @ WOOD_RV
71605	AGAB	Agilintas Auburn CSF GEN	"Ld-Node" @ PONDVIL
73236	KSMS	Kearsarge Smithfield	"Ld-Node" @ FARNPIKE
74369	SBPB	Palmer CSF Gen	"Ld-Node" @ PALMER


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Table 5 – NSTAR Resources Exempted from AVR Requirements			
Asset ID	ISO EMS ID	Resource Name	Comments
1030	OAKB	Oak Bluffs	
1031	WTIS	West Tisbury	
13673	MAT1	MATEP (Diesel)	
14087	MAT3	MAT3	
47741	FGW	Future Generation Wind	
50866	WA1S	Wareham 1	
50867	WA2S	Wareham 2	
50868	WA3S	Wareham 3	
50869	WA4S	Wareham 4	
69251	CRNB	Cranberry Highway_Gen	"Ld-Node" @ TREMONT
71315	APOB	Apollo Wing Lane Gen	"Ld-Node" @ WINGLANE
74617	HILB	STEM DSD Highland CSF_Gen	"Ld-Node" @ CROSS_RD


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Table 6 – RIE Resources Exempted from AVR Requirements			
Asset ID	ISO EMS ID	Resource Name	Comments
10959	JLF2	RRIG Expansion Phase 2	
49029	HOPS	Hope Farm Solar	“Ld-Node” @ DRUMROCK
49411	CV1W	NBC Cov Wind	“Ld-Node” @ DRUMROCK
49412	CV2W	W Warwick Cov Wind	“Ld-Node” @ DRUMROCK
49413	CV3W	WED Cov Wind	“Ld-Node” @ DRUMROCK
50637	JS1W	Plainfield II Wind	
50638	JS2W	Plainfield I Wind	
50639	JS3W	Green Hill Wind	
50640	JS4W	Plainfield III Wind	
50641	JS5W	Shun III Wind	
50642	JS6W	Shun II Wind	
50643	JS7W	Shun I Wind	
50835	ABFS	Alton-Bradford Road Solar	
68483	UN1S	University Solar 1	“Ld-Node” @ KENTCNTY
68484	UN2S	University Solar 2	“Ld-Node” @ KENTCNTY
68485	UN3S	University Solar	“Ld-Node” @ KENTCNTY
69261	CR2S	Cranston Solar 2	“Ld-Node” @ W_CRNSTN
69262	CR1S	Cranston Solar 1	“Ld-Node” @ DRUMROCK
71591	CATS	Catalyze Blackstone Solar	“Ld-Node” @ RVERSIDE
75122	BVRS	Beaver River Road Solar	“Ld-Node” @ KENYON



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Table 7 – VELCO Resources Exempted from AVR Requirements			
Asset ID	ISO EMS ID	Resource Name	Comments
346	BOLT	Bolton Falls	
410	ESSH	Essex Hydro	
541	PROC	Proctor	
774	LLAM	Lower Lamoille Composite	
1221	ESSD	Essex Diesels	
2431	DODF	Dodge Falls-NEW	
2432	HNTG	Huntington Falls-New	
2433	RYGT	Ryegate 1-New	
35555	GMTW	GMCW	
49406	DFLW	Deerfield Wind	

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Revision History

Rev. No.	Date	Reason
- -	09/17/24	For previous revision history, refer to Rev 20 available through Ask ISO;
21	09/17/24	Periodic review performed by procedure owner; Table 1 – CONVEX; Added: DPFC; Table 2 – Maine; Removed: Kibby Wind; Table 4 – NGRID; Added: Happy Hollow CSF Generator, Ameresco Springbrook Road Westerly Solar, Kearsarge_Franklin_GEN, AGILITAS AUBURN CSF_GEN, Kearsarge Smithfield, Palmer CSFGen; Table 5 – NSTAR; Added: HILB STEM DSD Highland CSF_GEN; Table 6 – RIE; Added SHUN I Wind, Beaver River Road Solar; Table 7 – VELCO; Removed: Vergennes 5 and 6 Diesels, Middlesex 2, Beldens-NEW, Gorge Hydro, Vergennes Hydro – all assets retired.