

Total # of CESIR Studies complete between 1/1/2022 and 3/31/2022 = 83

CESIR Criteria	#Systems Pass	#Systems Fail
Overvoltage< 105%	83	0
Undervoltage> 95%	83	0
Substation Regulation for Reverse Power	79	4
Feeder regulation for reverse power	81	2
Fluctuation<3% steady state from proposed generation on feeder	83	0
Fluctuation<5% steady state from aggregate DER on-substation bus	83	0
Fluctuation regulator tap movement	83	0
Flicker Screen H	83	0
Thermal (continuous current)	83	0
Withstand (fault current)	81	2
Unintentional Islanding	83	0
Protective device coordination	74	9
Fault Sensitivity	83	0
Ground Fault Detection	83	0
Overvoltage - Distribution System Fault	83	0
Overvoltage - Transmission System Fault	83	0
Effective Grounding	83	0
Required EMS Visibility for Generation Sources	61	22
Other	81	2

Total # of CESIR Studies complete between 4/1/2022 and 6/30/2022 = 29

CESIR Criteria	#Systems Pass	#Systems Fail
Overvoltage < 105%	29	0
Undervoltage > 95%	29	0
Substation Regulation for Reverse Power	27	2
Feeder regulation for reverse power	28	1
Fluctuation < 3% steady state from proposed generation on feeder	29	0
Fluctuation < 5% steady state from aggregate DER on-substation bus	29	0
Fluctuation regulator tap movement	29	0
Flicker Screen H	29	0
Thermal (continuous current)	29	0
Withstand (fault current)	28	1
Unintentional Islanding	29	0
Protective device coordination	24	5
Fault Sensitivity	29	0
Ground Fault Detection	29	0
Overvoltage - Distribution System Fault	29	0
Overvoltage - Transmission System Fault	29	0
Effective Grounding	29	0
Required EMS Visibility for Generation Sources	19	10
Other	29	0

Total # of CESIR Studies complete between 7/1/2022 and 9/30/2022 = 43

CESIR Criteria	#Systems Pass	#Systems Fail
Overtoltage< 105%	39	4
Undervoltage> 95%	43	0
Substation Regulation for Reverse Power	41	2
Feeder regulation for reverse power	42	1
Fluctuation<3% steady state from proposed generation on feeder	43	0
Fluctuation<5% steady state from aggregate DER on-substation bus	43	0
Fluctuation regulator tap movement	43	0
Flicker Screen H	43	0
Thermal (continuous current)	39	4
Withstand (fault current)	43	0
Unintentional Islanding	43	0
Protective device coordination	35	8
Fault Sensitivity	41	2
Ground Fault Detection	43	0
Overtoltage - Distribution System Fault	43	0
Overtoltage - Transmission System Fault	43	0
Effective Grounding	43	0
Required EMS Visibility for Generation Sources	15	28
Other	43	0

Total # of CESIR Studies complete between 10/1/2022 and 12/31/2022 = 70

CESIR Criteria	#Systems Pass	#Systems Fail
Overvoltage< 105%	60	10
Undervoltage> 95%	70	0
Substation Regulation for Reverse Power	69	1
Feeder regulation for reverse power	70	0
Fluctuation<3% steady state from proposed generation on feeder	69	1
Fluctuation<5% steady state from aggregate DER on-substation bus	70	0
Fluctuation regulator tap movement	70	0
Flicker Screen H	70	0
Thermal (continuous current)	65	5
Withstand (fault current)	69	1
Unintentional Islanding	70	0
Protective device coordination	62	8
Fault Sensitivity	61	9
Ground Fault Detection	70	0
Overvoltage - Distribution System Fault	70	0
Overvoltage - Transmission System Fault	70	0
Effective Grounding	70	0
Required EMS Visibility for Generation Sources	26	44
Other	65	5

Total # of CESIR Studies complete between 1/1/2023 and 3/31/2023 = 67

CESIR Criteria	#Systems Pass	#Systems Fail
Overtoltage< 105%	43	24
Undervoltage> 95%	67	0
Substation Regulation for Reverse Power	65	2
Feeder regulation for reverse power	64	3
Fluctuation<3% steady state from proposed generation on feeder	67	0
Fluctuation<5% steady state from aggregate DER on-substation bus	67	0
Fluctuation regulator tap movement	67	0
Flicker Screen H	66	1
Thermal (continuous current)	53	14
Withstand (fault current)	67	0
Unintentional Islanding	67	0
Protective device coordination	54	13
Fault Sensitivity	66	1
Ground Fault Detection	67	0
Overtoltage - Distribution System Fault	67	0
Overtoltage - Transmission System Fault	67	0
Effective Grounding	64	3
Required EMS Visibility for Generation Sources	21	46
Other	66	1

Total # of CESIR Studies complete between 4/1/2023 to 6/30/2023 = 96

CESIR Criteria	#Systems Pass	#Systems Fail
Overtoltage< 105%	54	42
Undervoltage> 95%	95	1
Substation Regulation for Reverse Power	95	1
Feeder regulation for reverse power	94	2
Fluctuation<3% steady state from proposed generation on feeder	96	0
Fluctuation<5% steady state from aggregate DER on-substation bus	96	0
Fluctuation regulator tap movement	95	1
Flicker Screen H	96	0
Thermal (continuous current)	96	0
Withstand (fault current)	96	0
Unintentional Islanding	96	0
Protective device coordination	65	31
Fault Sensitivity	94	2
Ground Fault Detection	96	0
Overtoltage - Distribution System Fault	96	0
Overtoltage - Transmission System Fault	95	1
Effective Grounding	94	2
Required EMS Visibility for Generation Sources	17	79
Other	93	3

Total # of CESIR Studies complete between 7/1/2023 to 9/30/2023 = 94

CESIR Criteria	#Systems Pass	#Systems Fail
Overtoltage< 105%	61	33
Undervoltage> 95%	93	1
Substation Regulation for Reverse Power	85	9
Feeder regulation for reverse power	92	2
Fluctuation<3% steady state from proposed generation on feeder	89	5
Fluctuation<5% steady state from aggregate DER on-substation bus	94	0
Fluctuation regulator tap movement	91	3
Flicker Screen H	93	1
Thermal (continuous current)	94	0
Withstand (fault current)	94	0
Unintentional Islanding	94	0
Protective device coordination	70	24
Fault Sensitivity	94	0
Ground Fault Detection	94	0
Overtoltage - Distribution System Fault	93	1
Overtoltage - Transmission System Fault	94	0
Effective Grounding	84	10
Required EMS Visibility for Generation Sources	16	78
Other	94	0

Total # of CESIR Studies complete between 10/1/2023 and 12/31/2023 = 73

CESIR Criteria	#Systems Pass	#Systems Fail
Overvoltage <105%	45	28
Undervoltage >95%	73	0
Substation Regulation for Reverse Power	72	1
Feeder Regulation for reverse power	73	0
Fluctuation <3% steady state from proposed generation on feeder	72	1
Fluctuation <5% steady state from aggregate DER on-substation bus	73	0
Fluctuation regulator tap movement	73	0
Flicker Screen H	73	0
Thermal (continuous current)	62	11
Withstand (fault current)	73	0
Unintentional Islanding	73	0
Protective device coordination	56	17
Fault Sensitivity	73	0
Ground Fault Detection	73	0
Overvoltage – Distribution System Fault	71	2
Overvoltage – Transmission System Fault	73	0
Effective Grounding	71	2
Required EMS Visibility for Generation Sources	22	51
Other	73	0