Table 12: Description of Physical Disruption Modeling

ID	Event	Model Toggles Adjusted	
Baseline	None		
A	Heat Wave	Wind Generation - 20% decrease for 7 days Solar Generation - Use solar profile from hottest day in Y2006 for 7 days Load - High temp 90° F or above for days 1-7, with daily zonal load increase of between 0% to 18.7% Transmission - 5% decrease for 7 days	
B	Cold Wave	Solar Generation - Use solar profile from coldest day in Y2006 for 7 days Load - Low temp of 0° F or below for days 1-7, with daily zonal load increase of between 2.3% to 25.6%	
		Summer	Winter
C	Wind Lull - Upstate	Wind Generation - 15% Average Capacity Factor in Zones A-E for 12 days	Wind Generation - 25% Average Capacity Factor in Zones A-E for 7 days
D	Wind Lull - Off-Shore	Wind Generation - 15% Average Capacity Factor in Zones J-K for 12 days	Wind Generation - 25% Average Capacity Factor in Zones J-K for 7 days
E	Wind Lull - State-wide	Wind Generation - 15% Average Capacity Factor in Zones A-K for 12 days	Wind Generation - 25% Average Capacity Factor in Zones A-K for 7 days
F	Hurricane/Coastal Wind Storm	Calibrated using Hurricane Sandy data Load - 30% decrease in Zones G-K for 1 day with 11 day recovery Transmission - Off in Zones G-K for 1 day with 14 day recovery Wind Generation - Off in Zones J-K for 1 day with 14 day recovery Solar Generation - 50% decrease in Zones G-K for 1 day with next day recovery DE Capacity - 40% decrease in Zones G-K for 1 day with 14 day recovery	
G	Severe Wind Storm – Upstate	Calibrated using Hurricane Sandy data Load - 30% decrease in Zones A-F for 1 day with 11 day recovery Transmission - Off in Zones A-F for 1 day with 14 day recovery Wind Generation - Off in Zones A-F for 1 day with 14 day recovery Solar Generation - 50% decrease in Zones A-F for 1 day with next day recovery DE Capacity - 40% decrease in Zones A-F for 1 day with 14 day recovery	
H	Severe Wind Storm – Offshore	Wind Generation - Off in Zones J-K for 1 day with 14 day recovery	
I	Drought	Hydro Generation - 50% decrease for 30 days	
J	Icing Event	Transmission - Off in Zones A-C for 1 day with 7 day recovery Load - 25% decrease in Zones A-C for 1 day with 7 day recovery Wind Generation - 50% decrease in Zones A-C for 1 day with 7 day recovery	