

Equipment at Risk	Regional EMP (Nuclear)	Major Solar Storm	Cyber	Coordinated Physical Attack	Radio Frequency Weapons	Pandemic	Major Earthquake	Assumptions: Nationwide Effect
Transformers	R-Y	R-Y	Y	Y	Y	G	Y	
Transformers Offline	Y	G	G	G	G	G	G	
Generator Stations	R	Y	R	Y	Y	Y	Y	
Generators Offline	Y	G	R	Y	Y	Y	Y	
SCADA/Industrial Controls	R	R	R	Y	Y	G	Y	
Utility Control Centers	R	Y	R	Y	Y	Y	Y	
Fiber Optic Repeaters	R	Y	R	Y	Y	G	Y	
Cell Sites, Cable	R	R	R	Y	Y	G	Y	
Unplugged Cell Phones and Tablets	G	G	G	G	G	G	G	
Emergency Radio Broadcast	G	G	G	G	G	G	G	
Emergency Radio 2-way Communications	Y	Y	Y	G	G	G	G	National Guard and state Emergency Management will be functional, many HAM Radios may function
Emergency LEO Satellite Communications (SATCOM)	R	G	Y	G	G	G	G	
Internet	R	R	R	Y	Y	Y	Y	
GPS Satellites	Y	Y	R	G	G	G	G	
GPS Control Stations	Y	Y	R	G	G	G	G	
GPS Receivers	R	Y	R	G	G	G	G	
Transportation Control Networks	R	R-Y	R	G	G	Y	Y	East Coast and Gulf Ports disabled; air traffic, pipelines, trains, trucks affected
Gasoline Powered Automobiles	Y	G	G	G	G	Y	Y	Most passenger cars can be restarted
Diesel Trucks	Y	G	G	G	G	Y	Y	
Water	R	Y	R	R	Y	Y	Y	42 Utilities serve 80% of U.S.
Wastewater	R	Y	R	R	Y	Y	Y	
Financial Services	R	R	R	Y	Y	Y	Y	Communications to transaction clearing houses disabled
Agriculture	R	G	G	G	G	Y	Y	Disruption of digital farming, chemical delivery, distribution
Healthcare	Y	Y	R	Y	Y	Y	Y	
Data Centers	R	Y	R	Y	Y	Y	Y	Loss of Eastern U.S. region
Chemical	R	Y	R	Y	Y	Y	Y	East Coast and Gulf refineries affected
Unprotected Microgrid	R	Y	R	Y	Y	Y	Y	Microgrid power lines are less than 2-3 km long
Microgrid (Hardened for EMP and Cyber)	G	G	G	G	Y	G	G	

Legend: **Red** = greater than 50% affected nationally. **Yellow** = 20% to 50% affected nationally. **Green** = less than 20% affected nationally.