Continuous Improvements to PSS®MUST

The power grid is constantly changing. Power system operators are continuously challenged with carefully monitoring and planning the grid to ensure resilience and system reliability. The capability to move power from one part of the transmission grid to another is a key concern in the restructured changing electric utility environment. Engineers need to determine the transmission transfer capability by simulating network conditions with equipment outages during changing network conditions and by simulating generation dispatch in an efficient manner.

The latest PSS®MUST release introduces two new powerful built-in functions which build upon existing capabilities to determine generation dispatch order in an effective and efficient way:

- Security Constrained Economic Dispatch (SCED) optimizes the generation dispatch by considering generator costs
- Security Constrained Block Dispatch (SCBD) optimizes the generation Block Dispatch (introduced by NERC), by considering generator characteristics beyond costs. All generators are segmented into loadable “blocks” based on many characteristics, such as: efficiency, run of river or fuel supply, and/or “must-run” status, etc.

These functions can also be run on contingency cases – which both identifies and corrects overloads on a large number of contingency cases by producing corrective or preventive cases.

Learn more