

STATUS	DESCRIPTION	ACTIONS
ADVISORY	Low reserve margin is forecast.	Update stakeholder market data.
ALERT	Electricity supply is tight and may require emergency procedures.	Max Gen declaration; defer maintenance; prepare for potential event.
WARNING	Reserve shortage is forecast.	Schedule all economic resources; limit exports; Emergency Pricing Tier 1.
EVENT STEP 1	Requirements cannot be met through normal economic resources.	(1a) Commit emergency-only resources. (1b) Activate emergency operating ranges.
EVENT STEP 2*	Requirements cannot be met through emergency resources.	(2a) Emergency Pricing Tier 2, Load Modifying Resources. (2b) Emergency Demand Response. (2c) External purchases and public appeals.
EVENT STEP 3	Operating reserves depleted, attempting to maintain minimum contingency reserves.	(3a) Spinning and supplemental reserves request environmental waivers. (3b) Emergency demand reductions.
EVENT STEP 4	All available MISO resources utilized.	Initiate external emergency energy purchases.
EVENT STEP 5	Requirements cannot be met.	Coordinated load interruptions, implement Emergency Pricing Tier 3.

*Only procedures through Step 2a are routinely required; LMR use has become more common with increased wind penetration. Steps 4 and 5 have only been utilized once in MISO's history.



Overview of Operating Statuses

MISO's operating procedures provide consistency and enable MISO to quickly adjust to various system conditions.

NORMAL OPERATIONS: day-to-day operation of the bulk electric system.

ABNORMAL OPERATIONS: events that do not put the electric system at risk. Typically related to data, tools and infrastructure issues.

CONSERVATIVE OPERATIONS: prepare for potential event and to prevent a situation or event from deteriorating. Minimizes maintenance on transmission and generation assets.

EMERGENCY OPERATIONS: event that has the potential to, or actually does, impact system reliability.

Communication Protocols

Notifications of operating status changes are made to key state emergency contacts and others through MISO Communications System e-mail notifications and the public website. In the event of emergencies that may result in load interruptions, MISO directly contacts key state officials by telephone.

MISO's Operating Procedures and Related Documents

More information about MISO's Reliability Operating Procedures can be found at misoenergy.org.