



Generation Control



Background

This online course is delivered through [Spark! By OES-NA](#). The course is intended to address aspects related to generation control and maintaining it with respect to the operation of the Bulk Electric System. Topics covered in this course include: function of a Balancing Area, “Area Control Error” Concepts, NERC Performance Standards, Automatic Generation Control, process for load forecasting, dispatching related to control and balance. It is intended to provide operating personnel with the knowledge necessary for maintaining generation and load balance. Each lesson is culminated with a review and quiz. Upon completion of the lessons, there is a final assessment that consists of 10 multiple choice questions. Individuals must attain a passing grade of 70% on the final assessment in order to be awarded the NERC CEHs.

Course Level

Not Applicable

Target Audience

This course is intended for: new operators to the system that will have the responsibility of generation control; transmission operators who want to expand their knowledge of generation control; individuals who desire the overall philosophy of controlling generation and its impacts to the Bulk Electric System; and those individuals trying to understand generation control as part of NERC Certification Preparation.

NERC Continuing Education Hours

TOTAL: 1.5 CEHs

Standards: 1.5 CEHs

Ops Topics: 1.5 CEHs

Sim: 0.0 CEHs

NERC Emergency Training Requirement

1.5 hours of Emergency Training

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Course Content

The course steps through lessons related to the Balancing Area function and its responsibilities related to maintaining generation/load balance on the Bulk Electric System. Each lesson identifies and explains the various aspects related the following content:

- Function of a Balancing Area and Balancing Authority
- Area Control Error Concepts
- NERC Performance Standards related to balancing
- Automatic Generation Control
- Process for forecasting load
- Dispatching resources for Control and Balance

Delivery Schedule

Since the course is delivered on an individual basis via the Internet, individuals have the ability to set their own pace and schedule for completion of the course. Registered students are provided with 6 months from the time of registration to complete the course.

Student Requirements

- Students must sign-in using their individual log-in and password to access the course.
- Students are required to provide their NERC SO Certification # and other applicable contact information during the course registration process.
- Students must complete all course material prior to attempting the final assessment.
- Students must successfully earn a 70% grade on the final activity assessment.
- Students must submit a course evaluation form. (Level of completion is not measured, but full completion is desired)

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