

Power Management System Operations

Course Number

10302

Course Duration

2 days

Audience

This course is designed for Solar Field Employees and Customer Operators and Maintenance Technicians who are required to commission, configure, operate, and maintain a Solar-supplied Power Management System (PMS) installed on a plant equipped with multiple generator packages.

Prerequisites

Students should have successfully completed a Solar Operations and Maintenance Principles course on a generator package or have equivalent experience. Successful completion of a Solar Power Generation Principles and Applications course would be an advantage, as would basic knowledge of the Solar TurboTronic 3 or TurboTronic 4 control system.

Course Description

This short training course will familiarize the students with the overall function and operation of a Solar Power Management System. These systems are designed and customized to suit the specific requirements of a customer site installation and operating philosophy. Therefore, a generic project will initially be used to explain the installation, basic functionality, and operation of the PMS. Various operating scenarios will then be used to demonstrate the system operation and response to changing conditions or operational requirements. For customer classes, the project-specific system will then be discussed in detail, with similar scenarios used to illustrate the system operation.

Course Objectives

On completion of this course, the student will be able to:

1. Describe the basic operation of a typical Solar Power Management System
2. Describe the hardware and communications interface used in a typical Solar Power Management System
3. Describe the configuration and operation of a typical Solar Power Management System
4. Describe the configuration and operation of the project-specific Solar Power Management System

Reference Material

Students receive a workbook, which is designed for classroom use and for reference purposes on the job. For customer courses the workbook will be supplemented by project-specific data such as engineering specifications, electrical schematics, operating instructions, display system screens, and system images, as applicable.