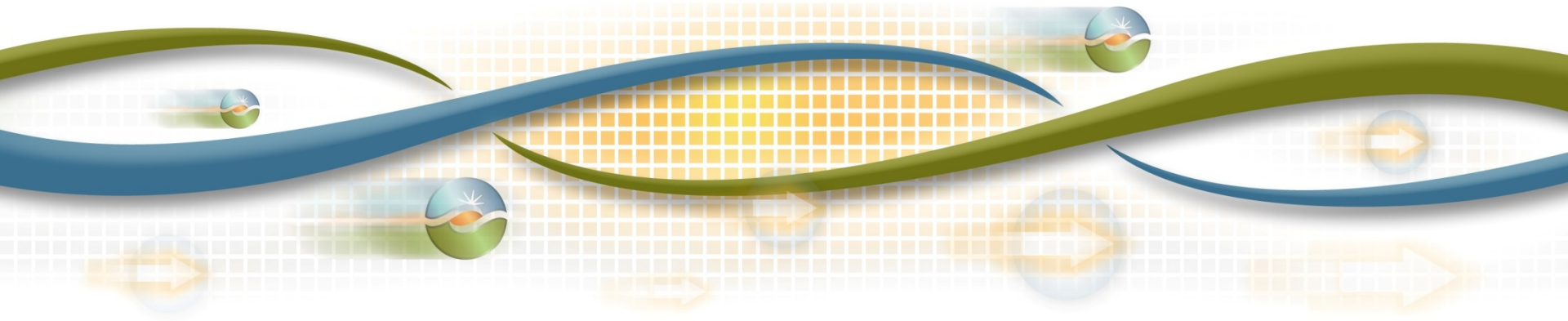




California ISO
Shaping a Renewed Future

Meter Program Validation (For Non Telemetry sites)

Meter Engineering and Analysis
May 16, 2013



This document is only for the meters which do not provide Real time data to California ISO.

Objective: To have the CAISO validate that the meter recorded projected values in the correct registers.

Please Note:

- Must make appointment with CAISO in advance

<http://www.caiso.com/Documents/G014-AppointmentScheduling-RIG-MeteringFieldwork.pdf>

- Existing sites must schedule a SLIC that coincides with appointment. SLICs are scheduled through Scheduling Coordinator (SC).

What to Bring

- Metering Load Box to inject values into the meter.
- Test leads, enough to connect multiple meters to test under the same load for Main and Backup meters.
- Laptop computer to verify load, configuration, or to correct common errors.

Common Problems

These should be verified and fixed before the testing.

- Ke values
- Meter multiplier
- PT/CT Ratio
- Meter Certification form not matching meter program
- Not having adequate equipment to perform the test correctly
- Not making an appointment AND scheduling a SLIC

Testing the meter

- The data should be broken down into the following segments:
 P_{MAX} is taken as Generator's max output found on the metering certification form.

CAISO Meter Engineering Representative may give different specified values to simulate.

15min of 100% P_{MAX} Delivered-Load

15min of 50% P_{MAX} at 50% PF Delivered-Load

 VARS will be looked at

15min of 100% P_{MAX} Received-Generation

15min of 50% P_{MAX} at 50% PF Received-Generation

 VARS will be looked at

Note: If more than one meter is being tested, be sure to give yourself enough time to put 1 hour worth of data in all the meters.