

<b>Business Practices for Test Energy</b>	
Issuing Position	Manager, System Services
Technical Support	Senior Engineer, System Services
Stakeholder / Approval Date: 01/31/2017	GSOC, Contracts and Business Analysis
Revised Date: 01/31/2017	Approved Date: <u>01/31/2017</u> By: <u>Patrick McGovern, Manager</u>

Date	Version Number	Revisionist(s)	Reason / Comments
12/07/2016	00		Business Practices for Test Energy
02/01/2017	01	Paul Turner	Business Practices for Test Energy / Clarification

GSOC is responsible for the safe and reliable operation of GTC’s transmission system, as well as generating facilities within GSOC’s balancing footprint that are connected to the GTC system. As such, testing of generation facilities must be coordinated with GSOC’s Control Center to ensure there will be no reliability or capacity impacts within the footprint as a result of the test. This coordination includes ensuring Southern Company is kept informed of any testing that could affect the Southern Balancing Area within which GSOC resides.

Due to the nature of test energy, the following business practice has been developed for scheduling and billing purposes.

Specifically:

1. Test energy<sup>1</sup> must be scheduled and tagged as “TEST ENERGY”. Test energy schedules are subject to imbalance and variance charges as outlined in the GSOC Generator Imbalance Service Agreement. Imbalance and variance charges may be waived during the pre-commercialization period of a generator only if such test energy sinks within the GSOC footprint and is scheduled and coordinated in accordance with the guidelines herein.

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<sup>1</sup> Test energy in this document refers to limited operations that are for the purpose of determining capacity ratings, reactive capability, and NERC compliance in accordance with Good Utility Practices. The notification timing requirements of this Business Practice are neither applicable to a plant’s normal operations and maintenance nor intended to apply to the plant’s ability to access the market following planned or unplanned outages.

2. Prior to the test period, GSOC is to be notified of prescheduled test dates and energy profile amounts via phone [(770) 270-7110 or (770) 270-7220] **and email** to [ecc@gasoc.com](mailto:ecc@gasoc.com) as well as [G2PCCBULKPWROP@southernco.com](mailto:G2PCCBULKPWROP@southernco.com). Emails must include "GENTEST" in the email subject line. Preschedule requests for any test energy must be provided at least three weeks prior to the test period for reactive testing and two (2) business days in advance for real power testing. Subsequent revisions to test dates or energy profile should be communicated in a similar manner to the GSOC Energy Control Center for approval<sup>2</sup>. Minimum information to be included is:
  - Type of generator tests to be conducted, e.g., real power and/or reactive power (production and/or absorption).
  - Expected generator MW and/or MVAR output amount (maximum and/or minimum).
  - Specific dates, times and durations of testing.
  - Alternate dates and times the testing could be conducted, if the preferred dates/times cannot be granted.
3. Via a NERC electronic-tag and at least one day prior to the beginning of the test period for each generator, a day-ahead, hourly energy schedule (energy profile) shall be submitted by 10:00 CPT to the GSOC Energy Control Center. The e-tag shall meet the following requirements:
  - Test energy should not be tagged or scheduled on the same e-tag used for non-test energy.
  - The e-tag must clearly state the words "TEST ENERGY" in the Comment field and must identify the unit supplying the energy in the Source field.
  - E-Tags with the words "TEST ENERGY" in the comment field must sink to a load within the GSOC pseudo balancing area.
  - The transaction type should be "Normal".
  - The transaction must have adequate transmission.
  - The e-Tag must conform to the Eastern Interconnection default ramping requirement of 10 minutes across the top of the hour.
4. Hourly variations of the projected energy profile will require adjustments to the NERC e-tag by the Purchasing-Selling Entity (PSE). The PSE responsible for tagging a test energy schedule shall ensure the e-tag is updated for the next available scheduling hour and future hours when future generation is expected to deviate from the amount on the latest approved e-tag.
5. In the event of loss of generation during a test, an immediate submission of an e-tag adjustment by the PSE is required. The e-tag adjustment must allow for the standard 20 minute notification period prior to implementation of the schedule change. Upon the return of generation, an e-tag adjustment by the PSE to reflect the return of generation will be allowed at the Top of the Hour (TOH).

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<sup>2</sup> Approval for generator testing will be confirmed through confirmation over the phone or email response **OR** via GSOC approval of the e-Tag *after* receipt of the requisite email and phone call.