

# Ancillary Services Manual Update: Automatic Fuel Swap Capability Testing

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**Business Issues Committee**

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# New: Ancillary Services Manual Section 8

## Automatic Fuel Swap Capability Testing

# Applicable Units

**Automatic fuel swap tests are required each capability period by combined cycle generation units that:**

- Participate in the Con Edison MOB program
- Can automatically swap from gas to oil

# Testing Requirements

Each Applicable Unit must demonstrate a swap from natural gas to oil after one of the following:

- Actual loss of gas pressure
- Simulated loss of gas pressure
- Operator-initiated swap

# Testing Requirements (Continued)

## The swap must occur:

- Within a time consistent with the **design parameters** of the unit
  - Must not exceed **60 seconds**
- While the unit remains synchronized to the transmission system and in stable operation

# Testing Frequency

- Each GO must successfully demonstrate each Applicable Unit's fuel-swap at least **once** each NYISO Capability Period.
- Results of a successful real-time automatic swap are valid.
- Tests must be coordinated with both NYISO and Con Edison.

# Testing Procedure

- The GO shall develop its own testing procedure for **each Applicable Unit**.
- These procedures shall be provided to Con Ed and the NYISO.

# Documentation of Testing

**GOs of Applicable Units must document for each test:**

- Date, start-time, and duration
- Test resolution

**Documentation of successful tests goes to the NYSIO manager of Operations Engineering.**



# Documentation of Testing (Continued)

**In event of a failed test, the GO must:**

- Identify cause(s) of failure
- Undertake remedial actions to resolve failure,
- Keep Con Edison and the NYISO informed about the progress of the remedial actions.

**GO shall be given reasonable opportunity to reschedule following remediation.**

# Next Steps

- Present to:
  - OC for Approval (March 16, 2018)

# Questions?

# The Mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefits to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policy makers, stakeholders and investors in the power system



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