

# Reducing Costs of Implementation

Consumers' Perspective

# Other Jurisdictions

## NYISO

### New York State Electric Meter Engineers' Committee

#### Guide for Uniform Practices in

#### Revenue Quality Metering

2.4 The revenue quality installation should conform to Blondel's measurement theorem ---

----- **A neutral conductor that is grounded through high**

**impedance so that the "system" becomes effectively ungrounded can be excluded from the**

**conductor count.**

### 3.1.2 Policy Guidance - NYISO

The requirements of this document are applicable to all metering systems and equipment whose data are used for NYISO system operation and billing. Concerning the November 1999 NYISO online date, **to allow for timely and economical implementation of the NYISO Market, existing metering currently in operation for the NYISO (formerly NYPP), TO's, Eligible Customers and other applicable Participants, although not conforming to these requirements, need not be upgraded until such time that the need for upgrade or replacement is demonstrated to be operationally and economically required**, or if required by the NYISO or TO Tariff.

# Other Jurisdictions

## NEPOOL

### NEPOOL OPERATING PROCEDURE NO. 18

#### METERING AND TELEMETERING CRITERIA

#### VII. EQUIPMENT STANDARDS FOR NEW AND UPGRADED INSTALLATIONS

This section specifies standards for metering, recording and telemetering equipment that Participants install in all **new and upgraded** installations. **Participants are not precluded from maintaining or repairing existing equipment with like or improved components**, but Participants are required to choose equipment that meets all standards of this OP when they are replaced for **purposes other than maintenance or repair** (i.e. upgraded installations).

#### B. Specific NEPOOL Standards

All new and upgraded metering, recording and telemetering installations shall meet the following standards:

- 3 For all grounded wye system metering, three element meters and transducers shall be used.

# Transitional Arrangements

## 3.2 Transitional Arrangements

3.2.1 **Notwithstanding any other provision of this Chapter**, a person that owns a *metering installation* that is in service on the date of coming into force of this section 3.2 or that is brought into service between the date of coming into force of this section 3.2 and the *market commencement date* shall, unless an election is made by such person pursuant to section 3.2.2, apply for registration as a *metering service provider* and shall act as the *metering service provider* in respect of such *metering installation* from the *market commencement date* **until the earliest expiry date of any seal period** of any *meter* forming part of such *metering installation*. **Once such seal period expires, the metered market participant** for the *metering installation* **shall make such alternative arrangements** as may be necessary to comply with the provisions of this Chapter and of any policy or standard established by the *IMO* pursuant to this Chapter.

# Transitional Arrangements

## Obligations of MSP / MMP

### •**3.2 Transitional Arrangements** 3.2.1

- Commits transitional MSP to maintain, repair, replace until meter seal expiry
- Replacement activity prior to seal expiry COULD invoke “substantial refurbishment” event
- MMP not obliged to assume responsibility until meter seal expiry

### •**Intent of 3.2 ?**

- To maintain status quo until MSP process stabilized ?

# Transitional Arrangements

Propose: Component Replacement like-for-like

## **PROPOSE: add**

3.2.4 Notwithstanding Appendix 6.2, sections 1.2.1, 1.6.4, 1.7.4, 1.8.4, 1.9.4, 1.11.4, 1.12.3, and 1.13.3, a *metering service provider* designated as such pursuant to section 3.2.1 or 3.2.2 shall be permitted to repair or replace metering installation components like-for-like or replace with components meeting the requirements of this Chapter relating to the component.

# Enclosure Requirements

- **1.1.1 Meter Enclosure**
- All meters, test links, and fuses shall be contained within a *meter* enclosure **which may include suitable protective covers or sealing devices**. The communication equipment, such as an external modem or a telephone line switcher, may be located in a separate **locked secured** enclosure under strict control of the *metered market participant* provided that the equipment is supplied from an external power source; otherwise the communication equipment shall be contained in the *meter* enclosure.
- **1.1.2 Meter Enclosure Requirements**
- The *meter* enclosure shall comply with the following requirements:
  - a. the *meter* enclosure shall be secured by the *meter* service provider, in a manner approved by the *IMO*;
  - b. the *meter* service provider shall have access to the *meter* enclosure at all times;
  - c. persons other than the *meter* service provider shall not be given access to the *meter* enclosure;
  - d. the *meter* enclosure shall be sealed as far as practicable in a manner approved by the *IMO*;
  - e. seals shall be placed to ensure the detection of unauthorized access to the *instrument transformer* connections, *meter*, test links, test-link cover and fuses;
  - f. seals shall be individually numbered; and
  - g. seals shall be traceable to the *meter* service provider.
- **1.1.4 Test Blocks**
- Test blocks shall be installed inside the *meter* enclosure to allow the current and voltage from each *instrument transformer* and each *meter* to be individually determined.

# Enclosure Requirements

## Proposal

- **1.1.1 Meter Enclosure**
- All meters, test links, and fuses shall be contained within a *meter* enclosure **which may include suitable protective covers or sealing devices**. The communication equipment, such as an external modem or a telephone line switcher, may be located in a separate **locked secured** enclosure under strict control of the *metered market participant* provided that the equipment is supplied from an external power source; otherwise the communication equipment shall be contained in the *meter* enclosure.

# Who Pays ?

<b>Technical Sub-committee ?</b>	Just advise
<b>IMO ?</b>	Doesn't have to pay
<b>Transmitters ?</b>	Cost-based regulation - pass on to customer
<b>LDC ?</b>	
<b>Consumers ?</b>	End up paying Cannot pass on to customer

Requirements must be value-added  
and  
Cost-effective

# Recommendations

1. **Adopt NYISO standard for Blondel conformance of grounded-wye source transformer distribution**

**“A neutral conductor that is grounded through high impedance so that the “system” becomes effectively ungrounded can be excluded from the conductor count.”**

2. **Add clause 3.2.4**

3.2.4 Notwithstanding Appendix 6.2, sections 1.2.1, 1.6.4, 1.7.4, 1.8.4, 1.9.4, 1.11.4, 1.12.3, and 1.13.3, a *metering service provider* designated as such pursuant to section 3.2.1 or 3.2.2 shall be permitted to repair or replace metering installation components like-for-like or replace with components meeting the requirements of this Chapter relating to the component.

3. **Revise description of “enclosure”.**

“a *meter* enclosure **which may include suitable protective covers or sealing devices.**”