

Metering Benchmark Status Report

DRAFT – 12/5/02

Presented to BAWG

December 19, 2002

Metering Benchmark Status Report – 12/19/02

- Validation of consistency between the NYISO and TO databases for billing.
- Requested each TO provide for each subzonal tie and gen
 - Station identification (name and circuit numbers)
 - PTID
 - Meter Authority and party responsible for the meter
 - Payments based on Meter Authority (TO's for load and gens)
 - If a MW or MWHR meter is used for the primary and backup source
 - If MV-90 access is used for the source
 - Are metering or relaying CTs and PTs used
 - Is information provided through ICCP, FTP or both
 - Are revenue quality meters used
 - Last Calibration date

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- **Current Objective**
 - Benchmark what's in the field today
 - Confirm Meter Calibration (through a survey process)
- **Long Term Objective** (accuracy, shortened billing cycle, and other enhancements)
 - Shorten time required to gather information to the NYISO for billing
 - Savings in manpower costs at TO and NYISO
 - Could shorten the time required to provide the information to the NYISO
 - May yield shorter turn around times for bills
 - Reduction in efforts to gather the data
 - Less meter readings in the field
 - Improved meter accuracy
 - Minimizes rebilling

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- NYISO Control Center Requirements Manual
 - 3.2.3 Calibration and Maintenance
 - 1 *Calibration Interval* – Calibration of equipment shall be preformed in accordance with manufacturer's recommended intervals and procedures. Where a manufacture does not provide calibration interval recommendations, the interval should be based on equipment stability as demonstrated by historic data. **In no case, however, should the calibration interval exceed two years.**

Metering Inventory Validation Status Report as of 12/06/02

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√ - indicates confirmation

	Information Provided	Confirmation TO Database with NYISO Database	Confirm MWHR meters used for billing	Confirm backup MWHR meters used for billing	Confirm Company uses MV90 access to gather information	Confirm Tariff Requirements for meter calibration are met	Confirm Revenue Quality Meters are Used
LIPA	√ - data pending	√	√	√	info pending	Many meters beyond 2 year time frame	info pending
ConEd	√	√	All ties except 1 (PSE&G)	All ties MW only except 1 (PSE&G - no backup)	None on Ties All but 4 gens have	√	None on Ties All but 4 gens have
O&R	√	√	info pending	info pending	none used	√ - except 1	√
CHG&E	√	√	√	mw backup	info pending	require data for 3 meters	info pending
National Grid	√ - data pending	√	a mix of MWHR and MW meters are used	many instances of no backup metering available	only on 2 meters	All meters reported in progress	info pending
NYSEG	√	√	√	Most are MWHR	All Primary except 5 ties	√	√
NYPA	√ - gen data pending	√	√	√	apx 2/3 of ties and gens are MV 90	√ - awaiting gen data	√
RGE	√	√	√	MW used for backup	12 of 14 ties no gens	√	√

Draft--For Discussion Only

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- Conclusions
 - NYSEG, RGE, NYPA have implemented revenue quality metering on ties
 - 94 of 227 ties have MV90 capability (predominantly NYSEG, NYPA, and RGE)
 - 65 of 286 gens have MV90 capability (predominantly ConEd and NYSEG)
 - Confirmed Meters have been calibrated within the 2 year window defined in NYISO Control Center Requirements Manual (excluding NIMO).
 - 165 of 227 primary meters on ties are MWHR
 - 283 of 286 gens have MWHR meters

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- Where do we go from here?
 - Significant Challenge Cycle Improvements
 - Metering quality improvements are required
 - MV-90 access on most meters will be required
 - Improved processes for modifying / revising information (being addressed through Web Based Reconciliation Project)
 - Requires improved efficiencies in producing timely bills
 - Development of Standards for metering
 - Standards for meters used for billing, SCADA, Voltage, MVAR, EDRP, End Use Metering
 - Meter Specifications
 - Meter Locations (stations) and consistency (i.e. gross output)
 - Rules to allow for the use of most accurate metering in billing
 - Consistency in handling 23 and 25 hour days
 - Technical Bulletin / Process for confirming Meter Calibration
 - Other Technical Bulletins
 - Direct metering from generators to the NYISO