

Wholesale Revenue Metering Standard - Hardware – Baseline 21.0 Proposed

RMSC Meeting April 2, 2009

Neill Wong, Settlements, Metering Installations



- To add new subsection to Sec 6.9.1 – Selection of Current Transformer Ratios
 - d. “the minimum sustained current during normal operation shall not be less than 1% of primary tap, for the defined standard of ANSI 0.15S accuracy class”

- To modify subsection Sec 6.10.1 – Current Transformers

“Current transformers shall conform to the [IEEE ANSI C57.13 – 2008*](#) for 0.3 metering accuracy class or the Canadian Standards Association [CAN/CSA-C60044-1:07#](#) for 0.3 metering accuracy class. High accuracy current transformers shall conform to the [IEEE ANSI C57.13.6](#) for 0.15 and 0.15S metering accuracy class or the Canadian Standards Association [CAN/CSA-C60044-1:07](#) for 0.15 and 0.15S metering accuracy class.”

*Note: IEEE ANSI C57.13 – 2008 IEEE Standard Requirements for Instrument Transformers

#Note: CAN/CSA-C60044-1:07 Instrument Transformers – Part 1: Current transformers

- To modify subsection Sec 6.10.2 – Voltage Transformers

“Voltage transformers shall conform to the [IEEE ANSI C57.13 – 2008](#) for 0.3 metering accuracy class or the [respective](#) Canadian Standards Association [CAN/CSA-C60044-2:07](#), [CAN/CSA-C60044-3:07](#), or [CAN/CSA-C60044-5:07](#) for 0.3 metering accuracy class.”

Note: CAN/CSA Standards for inductive (Part 2), combined (Part 3) and capacitive voltage transformers (Part 5)

- To modify subsection Sec 6.10.3 – Electronic Current Transformers

“Electronic current transformers shall conform to the **respective IEEE ANSI C57.13 – 2008 and IEEE ANSI C57.13.6 – 2005*for 0.3, 0.15 and 0.15S metering accuracy class or the respective Canadian Standards Association CAN/CSA-C60044-1:07 and CAN/CSA-C60044-8:07 # for 0.3, 0.15 and 0.15S metering accuracy class.** Electronic current transformers shall have 5 Amp rated secondary output for the IESO-administered market. “

* Note: IEEE ANSI C57.13.6 – 2005 IEEE Standard for High-Accuracy Instrument Transformers

Note: CAN/CSA-C60044-8:07 Instrument Transformers – Part 8: Electronic Current transformers

- To modify subsection Sec 6.10.4 – Electronic Voltage Transformers

“Electronic voltage transformers shall conform to the **respective IEEE ANSI C57.13 – 2008 and IEEE ANSI C57.13.6 for 0.3 and 0.15 metering accuracy class or the respective Canadian Standards Association CAN/CSA-C60044-1:07 and CAN/CSA-C60044-7:07** *for 0.3 and 0.15 metering accuracy class.”

*Note: CAN/CSA-C60044-7:07 Instrument Transformers – Part 7: Electronic Voltage transformers

- To add subsection Sec 6.10.5 – Monitoring Requirements – New Electronic Instrument Transformers

Pending revisions from RZ

.

- Added to Section 16 – Glossary of Terms:

“continuous current rating factor”

The number by which the rated primary current of a current transformer is multiplied to obtain the maximum primary current that can be carried continuously without exceeding the limiting temperature rise from 30 °C above average ambient air temperature. The RF of tapped-secondary or multi-ratio transformers applies to the highest ratio, unless otherwise stated.

- Added to Section 16 – Glossary of Terms:
“High accuracy instrument transformer”
References to ANSI 0.15 and 0.15S (superior) accuracy class for current transformer type