CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT

PURCHASE SPECIFICATION

FOR

METERING INSTRUMENT CURRENT TRANSFORMER

DATE	PREPARED BY	ISSUANCE/REVISION	APPROVAL PROCESS MANAGER/STD. SUPV.
7-25-1977		Issuance	
3-24-2003	Carl A. Nance	Revision	
7-13-2010	Carlos Tello	Revision	
04-27-2016	Ryan Maybin	Revision	
09-25-2017	Abdur Rahman, P.E.	Revision	

REASON FOR REVISION	*AFFECTED PARAGRAPHS*
Updated date for purchasing	N/A
Updated possible current ratings	4.1.2
Added extended range accuracy	4.1.4
Added electronic certified test record requirement	4.2.4, Attachment 1
Specified barcode serialization	4.2.5, Attachment 2, Table 1, Table 2
Specified barcode serialization	4.2.5, Delete Attachments 1 and 2, Tables 1 and 2

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1.0 SCOPE AND CLASSIFICATION

1.1 SCOPE

The City of Austin-Electric Utility Department is hereinafter referred to as Austin Energy (AE). This specification establishes the minimum requirements for operating characteristics and safety features of an instrument current transformer.

1.2 CLASSIFICATION

1.2.1 No deviation from this specification on the part of the bidder will be allowed. Any items supplied under this specification not in compliance with this specification shall be unacceptable.
1.2.2 The metering instrument transformer will be installed outdoor below an altitude of 1,000 meters and subjected to an annual ambient temperature variance of -25° to +55° C at 100% humidity.
1.2.3 Austin Energy bases CT sizing using the 55 deg C temperature rating

2. APPLICABLE SPECIFICATIONS/STANDARDS

All metering instrument current transformers conform to the latest standard including AEIC-EEI-NEMA Standard for instrument transformer (MSJ-11) and ANSI Standards (C57.13 .6. and C12.11) unless stated otherwise.

3. FUNCTIONAL REQUIREMENTS

Current transformer is required to be mounted in an enclosure or installed at the bushings of a pad mount transformer. The metering instrument current transformer will be used for indoor and outdoor applications.

4. PERFORMANCE REQUIREMENTS

4.1 ELECTRICAL

4.1.1 Voltage: 600 volt class
4.1.2 Possible current ratios: 600/5 with rating factor 2.0 (min) at 55 deg C, 2000/5 with rating factor 1.5 (min) at 55 deg C and 4000/5 with rating factor 1.0 (min) at 55 deg C.
4.1.3 High accuracy with extended range: class 0.15 accuracy at B 0.1, 0.2, 0.5, and up to 1.8 burdens at 60 cycles for all ratings.

4.1.4 High accuracy, extended range class 0.15 means that 1% of nominal current through the rating factor, accuracy is guaranteed to be ± 0.15%.

4.2 PHYSICAL

All transformers furnished under this specification shall meet mechanical requirements as followed:

4.2.1 All transformers shall have a retaining shorting device with terminal cover.
4.2.2 All transformers shall be clearly marked with CT size; 200/5, 400/5, etc., 1 ½" inch number size minimum.
4.2.3 All transformers shall be specified as Window or Bushing Type.
4.2.4 All transformers purchased shall include an electronic and paper certified test record

4.2.5 All transformers shall have a nameplate installed by mounting screws that provides the catalog number, ratio, and all ANSI required info.