



March 27, 2025

Nicholas Ritts
Engineering Manager
National Grid
300 Erie Boulevard West
Syracuse, NY 13202

SENT VIA ELECTRONIC MAIL

Dear Mr. Ritts:

By letter dated November 19, 2024, National Grid requested “similarity approval”¹ of the Arteche CRE-7 Current Transformer (Arteche CRE-7) to be used in electric metering applications in New York State. National Grid is seeking approval of the Arteche CRE-7 based on its similarity to the previously approved Arteche CRB-17 Current Transformer (Arteche CRB-17).² Department of Public Service staff (Staff) has determined that the Arteche CRE-7 shall be approved via similarity.

Both the CRE-7 and CRB-17 are Arteche dry type medium voltage current transformers designed for use in outdoor revenue grade billing applications. The CRE-7 is a 5kV class current transformer whereas the previously approved Arteche CRB-17 is a 15kV class current transformer. National Grid states that the Arteche CRE-7 uses the same materials and is of similar design to the previously approved Arteche CRB-17. Additionally, the Arteche CRE-7 meets the requirements of the International Electrical and Electronic Engineers (IEEE) Standard Requirements for Instrument Transformers, specifically IEEE 57.13. National Grid states it intends to purchase and use the CRE-7 in revenue metering applications if approved.

Public Service Commission (Commission) regulation 16 NYCRR §93.4 allows for Staff to approve metering devices with minor differences from a previously approved metering device of the same type (similarity approval) where “*minor variations in mechanical construction which are not of such character as to affect the electrical operation.*” Furthermore, Staff shall be notified of the specific changes to a previously approved metering device and reserves the right to make the final determination.

In accordance with the provisions of 16 NYCRR §93, Staff reviewed National Grid’s application along with a sample of the Arteche CRE-7 current transformers and test reports. Staff directed National Grid personnel to conduct additional accuracy and functionality testing on the Arteche CRE-7. Staff witnessed this testing at the National Grid Electric Meter Shop on February 5, 2025, which included a sample of IEEE 57.13 tests. Staff found that the Arteche CRE-7 met the minimum requirements set by Commission standards. Furthermore,

¹ See, 16 NYCRR 93.4.

² Case 17-E-0292, Petition of Arteche USA for Approval of the Arteche Medium Voltage Metering Class Instrument Transformers., (order issued January 24, 2018).

Similarity Approval: Arteche CRE-7 Current Transformer

based on the results of tests witnessed by Staff, and those performed by National Grid Engineering personnel, the Arteche CRE-7 meets the requirements of 16 NYCRR Part 93 and IEEE 57.13

Staff has determined that the differences between the previously approved Arteche CRB-17 and the Arteche CRE-7 are insignificant and do not warrant the additional process required for approval by the Commission. Consequently, the Arteche CRE-7 shall be approved via similarity. The Arteche CRE-7 current transformer is therefore approved for use in electric metering applications in New York State. A copy of this letter will be filed in Case 17-E-0292. If you have any questions regarding this matter, please do not hesitate to contact me by email at Steven.Cornick@dps.ny.gov, or by telephone at (518) 265-2129.

Sincerely,

A handwritten signature in black ink, appearing to read "Steve Cornick", with a horizontal line underneath.

Steve Cornick
Utility Consumer Program Specialist 3
Office of Consumer Services

e-cc: Cody Doyle (National Grid)
Ryan Geiger (National Grid)
Johanna Miller, Chief, Consumer Advocacy