

September 18, 2015

Hon. Kathleen H. Burgess
Secretary
New York Public Service Commission
3 Empire State Plaza
Albany, NY 12223
by email to secretary@dps.ny.gov file using DMM system

Re: Case No. 14-E-0561, Petition for Approval of Siemens Embedded Micro Metering Modules
(Hereafter referred to as SEM3) for Multi-Tenant Meter applications

Dear Secretary Burgess:

Siemens Industry Inc. ("Siemens") hereby submits a supplement to its December 22, 2014 petition for approval of Siemens' SEM3 metering system for use as an electric meter for sub-metering of revenue-based accounts. This supplement includes additional information and responds to deficiencies found in Siemens' initial application by the staff of the New York Department of Public Service (NYDPS). The deficiency letter is the attached. The following are also attached:

(1) Additional information in response to the NYDPS Staff deficiency letter to Siemens dated December 23, 2014;

(2) Letter of Intent provided by 1 John Street, Brooklyn, New York, filed in Case No. 14-E0179; and

(3) NYDPS Staff deficiency letter to Siemens dated December 23, 2014.

Respectfully Submitted,

Drew Stephen Hancock
Application Engineer
Siemens Industry Inc. EM business unit
Email: hancock.steve@seimens.com
Phone Office: 770-326-2130
Phone Cell: 678-428-9974

Additional information in response to New York Department of Public Service Staff
deficiency letter
to Siemens dated December 23, 2014

1. Staff Request: American National Standards Institute ANSI C12.20 test data is required from a recognized independent laboratory indicating the SEM3 electric submeter meets the ANSI 0.5 accuracy class requirements.

Siemens Response: The meter has been tested by Underwriters Laboratories (UL) to the requirements of ANSI C12.20. UL is an approved, nationally-recognized test lab, and the meter was tested in order to meet the requirements of acceptability. The test result documents are contemporaneously being submitted to the New York Public Service Commission (Commission), with a request for protection of trade secret and confidential commercial information, pursuant to Public Officers Law §§ 87(2) and 89(5), and the Commission's implementing Regulation 16 NYCRR § 6-1.3. Siemens has requested that the submission be forwarded to Kenneth Resca, Utility Consumer Program Specialist 4, Office of Consumer Service/Consumer Advocacy, New York State Department of Public Service (NYDPS).

2. Staff Request: The ANSI test schedule performed by the independent laboratory should include the current transformers used to monitor energy flow to end users. The current transformers should be bushing type transformers. The use of split core transformers to monitor energy flow may not provide the in service accuracy criteria needed to comply with ANSI.

Siemens Response: As part of the SEM3 system, only Solid Core current transformers (CT) were considered for the ANSI C12.20 approval, and for approval by the NYDPS.

3. Staff Request: A manufacturer's type of designation, together with a brief description of general and physical characteristics, including ratings, size, shape, adjustments and the type of service to which the meter may be applied.

Siemens Response: The SEM3 metering system is being submitted as an electric meter for sub-metering for use on revenue-based accounts. The SEM3 metering system consists of the following components:

- Part number US2:SEM3Controller – A Main Controller Device is used for Voltage connection for the system and in order to configure parameters of the system, such as voltage, system, communications protocols, meter elements (1, 2, or 3 pole meters) and Current Transformer (CT) and/or Potential Transformer (PT) ratios. One Controller can configure parameters, and can be used to communicate with up to 45 meter modules.
- US2:SEM3RACK* - *=3, 9, 15, or 21 Meter modules, depending on how many meter modules are installed in the system. Racks are connected serially to the SEM3 Controller using rack cables.
- US2:SEM3CAB*inch - *= 6, 12, 24, or 36 – Rack Cables are Cat 5 style cables that conduct power and communications from the meter modules to the controller. These differ from standard Cat 5 cables, because they are 600Volt insulated cables and are approved for use within electrical gear as part of the SEM3 system.

- US2:SEM3LAMETER/US2:SEM3HAMeter – A meter module that contains the metrology for the metering system is used. It works in conjunction with the SEM3 Controller to convey metering information per circuit. Each meter module meters one pole/CT. Data is collected and compiled and made available from the Controller.
 - US2:SEM3SCCT* - *=50, 125, 250, 400, 600, 800, or 1200 Current transformers (CT). For the purposes of testing, 50, 125 and 250 amp CTs were used to simulate Class 100 and Class 200 meters.
 - The SEM3 metering system may be installed wholly in the electrical gear or in external suitable enclosures with the current transformers in the gear. Each system is fully assembled and commissioned to the metering requirements. The SEM3 system is UL listed to UL 916 and UL 61010 for safety requirements, and is included in the UL67 and UL 891 listing for Siemens Gear when factory assembled.
 - Any changes to the SEM3 metering system that could effect the performance and operation of the metering system would be reported by Siemens to the Commision. No such changes are contemplated at this time.
4. Staff Request: A statement by Siemens certifying that the device under consideration has been tested to, and meets, all the requirements of § 93:

Siemens Response:

I, Drew Stephen Hancock, Application Engineer, Siemens Industry Inc. EM business unit, hereby certify that the Siemens SEM3 under consideration has been tested to, and meets, all of the requirements of 16 NYCRR § 93.



 Signature

9/18/2015

 Date

5. Staff Request: A letter of intent from a building owner to use the Siemens SEM3 is necessary.

Siemens Response: Pursuant to 16 NYCRR § 93.5, please find attached a letter from Mr. Alphonso Lembo, dated April 20, 2015, representing 1 John Street LLC in sub-meter petition Case No. 14-E-0179, as evidence of a building owner's intent to use the SEM3 metering system.

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john
st.

April 20, 2015

Hon. Kathleen H. Burgess
Secretary of the Commission
New York State Public Service Commission
3 Empire State Plaza
Albany NY, 12223
Email: secretary@dps.ny.gov

Re: **Petition to sub-meter electricity, Case No. 14-E-0179 – Addendum**

Dear Secretary Burgess:

1 John Street LLC, the owner of the new condominium building at 1 John Street, Brooklyn NY 11201, ("Applicant") hereby submits this addendum to the original petition updating the description of the sub-metering system to be installed and the submeter/billing agent. The case number for the original petition is 14-E-0179.

Accordingly, the following documents are attached:

1. Siemens SEM3 specifications and product data
2. Priority Submetering Solutions Sample Bill
3. Updated Submetering ID Form


Description of the sub-metering system to be installed:

Applicant will utilize an Embedded Micro Metering Module (SEM3) electronic submetering system manufactured by Siemens. This submetering system is compliant with ANSI standard C12.20, Class 0.2. (Specifications and product data are attached.)

Submeter/billing agent:

Applicant will retain Priority Submetering Solutions as the submeter/billing agent. Electric bills from Priority Submetering Solutions will contain current and previous meter read dates, current and previous meter reading values, current usage in the period, billing summary, tax, and total amount due (among other things).

Sincerely,



Alphonse Lembo
Project Manager

CC: Elizabeth Katz

20 Jay Street, Suite 1003, Brooklyn NY 11201

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90 CHURCH STREET, NEW YORK, NY 10007-2919
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Secretary

December 23, 2014

Drew Hancock
Siemens Energy Management
5400 Triangle Parkway
Norcross, GA 30092

Re: Case 14-E-0561 – Petition to approve the Siemens SEM3 electric submeter for use in revenue based accounts.

Dear Mr. Hancock,

Staff of the Department of Public Service (Staff) has found deficiencies in Siemens Energy Management (Siemens) filing to approve the Siemens SEM3 electric submeter, and cannot proceed with the commission approval process to recommend the use of Siemens SEM3 electric submeter. As such, Staff requests the following additional information be provided for compliance to §93.

- American National Standards Institute ANSI C12.20 test data is required from a recognized independent laboratory indicating the SEM3 electric submeter meets the ANSI 0.5 accuracy class requirements;
- The ANSI test schedule performed by the independent laboratory should include the current transformers used to monitor energy flow to end users. The current transformers should be bushing type transformers. The use of split core transformers to monitor energy flow may not provide the in service accuracy criteria needed to comply with ANSI;
- A manufacturer's type of designation, together with a brief description of general and physical characteristics, including ratings, size, shape, adjustments and the type service to which the meter may be applied;
- A statement by Siemens certifying that the device under consideration has been tested to, and meets, all the requirements of §93;
- A letter of intent from a building owner to use the Siemens SEM3 is necessary.

By this letter, Siemens is advised that Staff cannot proceed with the commission approval process until the deficiencies in the application are corrected, and the information and materials requested above can be reviewed.

Sincerely,

Kenneth Resca
Office of Consumer Service