Errata and Clarifications for the DEER2020 Update Documentation Last updated January 18, 2019

In the process of implementing the Resolution E-4952 changes, the DEER team identified errors and a need for additional explanations in the DEER 2020 Update documentation. This document details those items.

- 1. <u>Page A-35, Section 5.1 Net-to-Gross for HVAC Measures:</u> Although not mentioned in the Resolution, new NTG values are documented in the DEER NTG 2020 Support Table and will take effect 2020-01-01. There are some issues in the resolution section, however, as shown below:
 - a. In the first paragraph, the 0.42 value in the text is inconsistent with the 0.45 value shown in Table 7: "HVAC3 reports an overall NTG for commercial HVAC maintenance measures of 0.42" as shown in the image that follows.

Table 7 - DEER2020 HVAC NTG Revisions

Measure		Current Values	DEER2020 Values	
Medauc		Reference	NTG	Reference
Commercial Refrigerant Charge	0.73	NonRes-sAll-mHVAC-RCA	0.45	HVAC3
All Other Commercial HVAC maintenance	0.60	Com-Default>2yrs	0.45	HVAC3

An incorrect value of 0.42 had been entered into PEAR. While the cited EM&V study reported an electric NTG value of 0.42, values are to be rounded to the nearest 0.05 for use in DEER.

- b. The same report also reported a gas NTG value of 0.25, but because quality maintenance (QM) is primarily an electric measure activity, the electric NTG value is used for both.
- c. A new NTG ID value was created "NonRes-HVAC-maint" to replace the existing NTG ID "NonRes-sAll-mHVAC-RCA" as shown in the image that follows.

NTG_ID	Version	StartDate	ExpiryDate	NTG_Elec	NTG_Gas	Measure/Technology/ Building/Sector
Com-Default>2yrs	DEER2019	1/1/2019		0.6	0.6	Measures not covered by other NTG va
NonRes-HVAC-maint	DEER2020	1/1/2020		0.45	0.45	All HVAC maintenance measures include
NonRes-sAll-mHVAC-RCA	DEER2019	1/1/2019	12/31/2019	0.73	0.73	HVAC Maintenance: Refrigerant Charg

- d. Table 7 in the resolution incorrectly shows the NTG_ID of "Com-Default>2yrs" as the default for "All Other Commercial HVAC maintenance" measures. This is incorrect since the value in the Support Table was not changed in DEER, as shown in the preceding image.
- 2. Page A-46, Table 13, 2nd row: Capacity Expansion (CE) should not have been included in Table 13 containing the new Measure Application Types (MAT) as shown in the table that follows. Capacity expansion is considered a normal replacement MAT as explained in Resolution E-4818, on pg. 41, by stating that "Capacity expansions and the addition of new load mandate equipment upgrades and changes, and for these reasons we consider them a normal replacement [italics added] installation type...."

Table 1: Measure Application Types

Measure Application Type	Abbreviation
New construction	NC
Capacity Expansion	CE
Normal Replacement (includes Replace on Burnout)	NR
Accelerated Replacement	AR
Add-On Equipment	AOE
Building Weatherization (building shell and related components)	BW
BRO-Behavioral	BRO-Bhv
BRO-Retro-commissioning	BRO-RCx
BRO-Operational	BRO-Op

Furthermore, Capacity Expansion is not shown in E-4818 Table 1 (below) from which the new MATs are derived.

Table 1. Adopted Default Baseline Policy for All Sectors

Alteration Type	Delivery	Savings Determination	Shell & Bldg System and Add-On Equipment	Behavioral, Retro- commissioning, and Operational	Normal replacement	Accelerated replacement and repair eligible
New construction, expansions, added load	Any	Any	Code	N/A	Code	N/A
Existing buildings, including major alterations	Upstream & Midstream	Any	Code	N/A	Code	N/A
	Downstream	Calculated Deemed NMEC	Existing Existing Existing	Existing Existing Existing	Code Code Existing, Program	Dual Dual Existing
		RCT/ experimental	Existing	Existing	Design Existing	Existing
Non-building projects, including industrial and agricultural processes	Any	Any	N/A	Existing	Standard Practice	Dual

- 3. Page A-16, Table 14 Measure Savings Calculation Types: This table should have been labeled as "Measure Impact Types" (DEER/READI Support Table name = "MeasImpactType"). While there is no DEER Support Table that is labeled Measure Savings Calculation Type, there is a related DEER Support Table labeled "Impact Calculation Type" (table name= "MeasImpactCalcType"). While this is a minor error, it has caused confusion among some users.
- 4. <u>Page A-44, Section 5.4 Net-to-Gross for Accelerated Replacement Measure:</u> Although the section lists several previously-considered below-code NTG adjustment factors, the following text from the resolution best summarizes the resulting requirement:

"We thus establish an adjustment factor of 0.75 for accelerated replacement to be applied to all NTG values for the below-code portion of savings. This is a default value, and alternative

values may be proposed as part of a workpaper or for a custom project if that project is undergoing an ex ante review by Commission staff.

In both these cases an explicit disposition issued by Commission staff must be provided that accepts the proposed alternate. A proposed alternate is not allowed unless explicitly review and approved by Commission staff. In other words, passed thought [sic] workpaper and custom project alternative values are not allowed."