

STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

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August 30, 2013

Ms. Kathleen Burgess Secretary
New York State Public Service Commission
Three Empire State Plaza
Albany, NY 12223-1350

Re: Case 07-M-0548 – Proceeding on Motion of the Commission Regarding an Energy Efficiency Portfolio Standard.

Dear Secretary Burgess:

On June 20, 2011, the Commission issued an order in Case 07-M-0548¹ that organized all approved Energy Efficiency Portfolio Standard (EEPS) programs into specific Classification Groups, and established a specific list of approved energy efficiency measures for each Classification Group. The order also authorized the Director of the Office of Energy Efficiency and the Environment (OEEE) to make consensus additions of measures to the list of measures established for a Classification Group. In addition, the order authorized the Director of the OEEE to make minor changes to the New York Standard Approach for Estimating Energy Savings from Energy Efficiency Programs, "Technical Manual" used to guide savings calculations. Minor changes are limited to updated data and calculations to reflect changes to factors such as energy codes and standards, product specifications, and evaluation results. Finally, the order allowed the Director of the OEEE to make substantive consensus modifications to the Technical Manual.

The Commission outlined the following process to effect consensus changes:

1. The exact text of the intended modifications shall be presented in writing to the members of the Implementation Advisory Group (IAG) consisting of designated

¹ Case 07-M-0548, Energy Efficiency Portfolio Standard (EEPS), Order Approving Modifications to the Energy Efficiency Portfolio Standard (EEPS) Program to Streamline and Increase Flexibility in Administration (issued June 20, 2011).

representatives of all program administrators. A copy shall be provided to members of the Evaluation Advisory Group (EAG).

2. The IAG and EAG shall be afforded a reasonable opportunity to review the intended modifications and to advise the OEEE Director as to the proposal.
3. If any member of the IAG objects to the intended modifications by making a written objection to the OEEE Director within a reasonable period of time established by the OEEE Director for the receipt of objections, the intended modifications may not be implemented without referral to and approval by the Commission.
4. If no member of the IAG makes a written objection to the intended modifications within a reasonable period of time established by the OEEE Director for the receipt of objections, the intended modifications may be implemented by the OEEE Director, without referral to and approval by the Commission, by filing the exact text of the modifications with the Secretary to the Commission in Case 07-M-0548 and by posting an update or supplement to either the Table of Classification Groups or the Technical Manual on the Commission's website.

On May 21, 2013 Consolidated Edison proposed that Primary Refrigerators be added to Class 2 – Residential Electric Bounty/Recycling Programs. On July 12, 2013 Consolidated Edison revised its proposal in response to Staff concerns. The revised proposal was provided to the members of the IAG and the EAG by electronic mail. No written objections to the revised proposal were received within the time frame agreed to with members of both groups. In addition, Staff has reviewed the measure and determined that it is cost-effective.

There are two revisions to the Technical Manual which I am considering as “minor changes.” The first is a correction to Record of Revision number 7-13-11 approved on July 31, 2013 where a table pertaining to boilers lists the term “thermal efficiency” (referring to steam boilers) instead of the correct term “combustion efficiency”. The second is a correction to two tables containing efficiency standards used for determining incentives for various sizes of boilers and furnaces that were incorrectly identified as “required” instead of “recommended”.

On July 19, 2013 DPS staff proposed a change to the Effective Useful Life (EUL) listing for light emitting diodes (LEDs) to correspond to nationally accepted standards established by the Design Lights Consortium. The EUL listing resides on the DPS website and is considered an extension or appendage of the New York Standard Approach for Estimating Energy Savings from Energy Efficiency Programs (“Technical Manual”). The EUL of a measure is necessary in calculating its lifetime energy savings. NYSERDA submitted a revision to the DPS proposal on July 30, 2013 to add a reference to LED standards established by Energy Star®. The revised proposal was provided to members of the IAG and EAG by electronic mail. No written objections to the proposal were received within the time frame agreed to with members of both groups.

In accordance with the authority granted in the Commission's June 20, 2011 order, I find that the proposed measure addition has the consensus support of the IAG. Accordingly, I approve the addition of Primary Refrigerators to the Class 2 – Residential Electric Bounty/Recycling Programs. The enclosed Attachment 1 reflects this addition, and an updated Table of Classification Groups reflecting this addition is available on the Department's website.

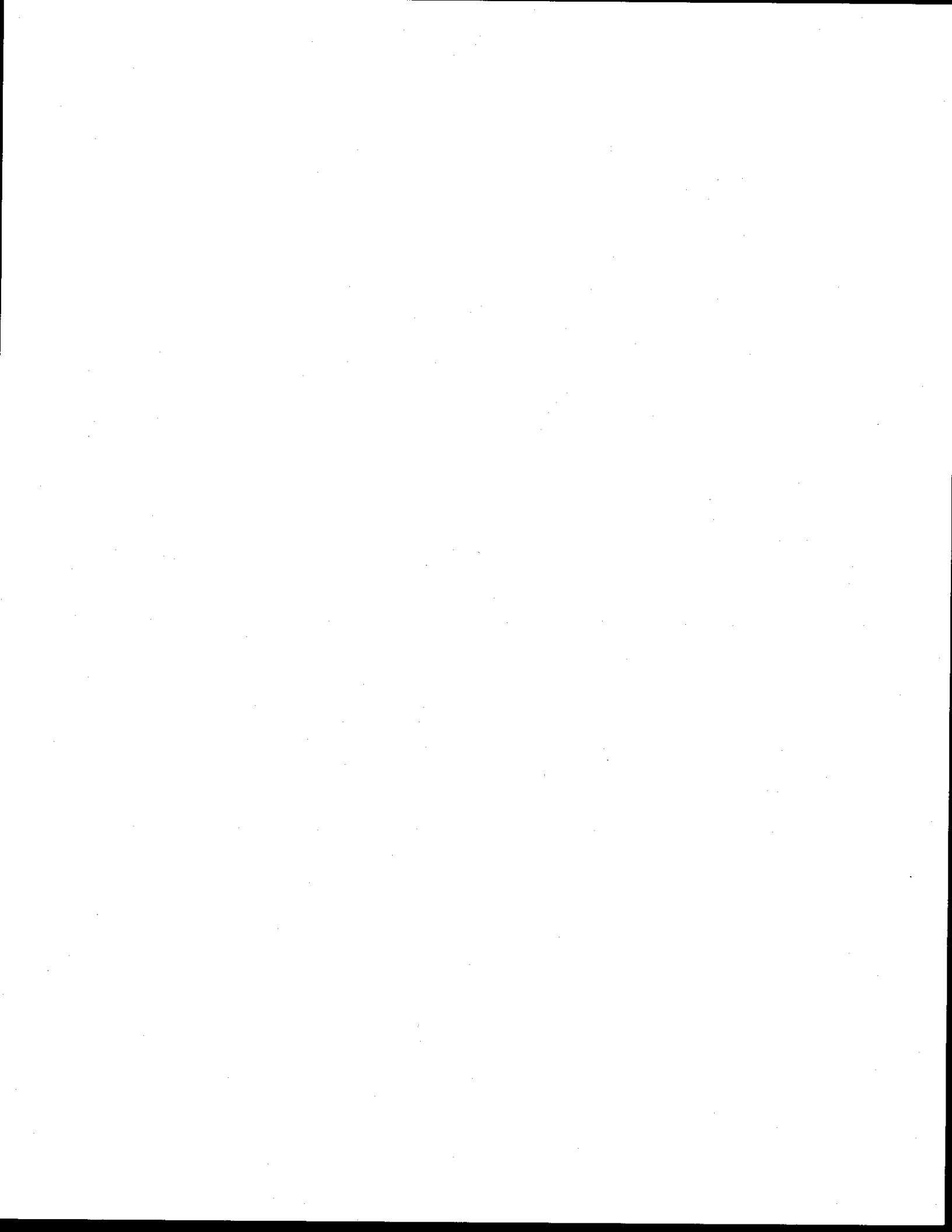
Also in accordance with the authority granted in the Commission's June 20, 2011 order, I find that the proposed changes to the Technical Manual and the EUL Table have the consensus support of the IAG. Accordingly, I approve these changes to the Technical Manual and the EUL Table, as well as the minor changes discussed above. The enclosed Attachments 2 and 3 reflect the changes to the EUL Table and Technical Manual, respectively, and an updated Technical Manual and EUL Table reflecting these changes is available on the Department's website.

Sincerely,



Colleen L. Gerwitz
Director, Office of Energy Efficiency
and the Environment

cc: Anthony Belsito
Debra LaBelle
Robert Roby



Class 2 - Residential Electric Bounty/Recycling Programs

Programs	Central Hudson	Residential Appliance Recycling Program (electric)
	RGE	Refrigerator and Freezer Recycling Program
	NYSEG	Refrigerator and Freezer Recycling Program
	Con Edison	Appliance Bounty Program
	Niagara Mohawk	Residential Recycling
	O&R	Residential Efficient Products Program
Measures	HVAC	Window or Wall air conditioner, Energy Star
		Dehumidifier
		Turn in events or drop off locations for recycling/ disposal of air conditioners
	Home Primary and Secondary Refrigerators /Freezers	Free pick up (or drop-off by customer) and recycling- disposal of working primary and secondary refrigerators and freezers 10-30 cubic feet, limit 2 units per customer
	HVAC	Free pick up of working window or through the wall air conditioners with eligible freezer or refrigerator for recycling-disposal.
Other	Compact florescent lamps, Energy Star, quantity limits apply w/ paid appliance rebate	

EULs of measures additional to those posted in the Appendix of the 7/18/11 order

Residential air leakage sealing: best practice materials and techniques – 20 years

Agricultural engine block heater timers – 8 years

Multifamily thermostatic radiator valves – 12 years

MF and C&I stairwell bilevel dimming light fixture/sensor – 10 years

C&I LEDs, fixtures and screw in lamps (other than refrigerated case):

- Placed on the Qualified Products List by the Design Lights Consortium (DLC)
 - 35,000 or 50,000 hours, according to the appropriate Application Category as specified in DLC's Product Qualification Criteria, Technical Requirements Table version 2.0 or higher.
- Placed on the Qualified Fixture List by ENERGY STAR®
 - 35,000 hours according to the appropriate luminaire classification as specified in the ENERGY STAR® Program Requirements for Luminaires, version 1.2
- Placed on the Qualified Lamp Products List by ENERGY STAR®
 - 15,000 hours (decorative) or 25,000 hours (all other), according to the appropriate lamp classification as specified in the ENERGY STAR® Program Requirements for Integral LED Lamps, version 1.4
- Uncertified: 25,000 hours.
- Divided by estimated annual use, but capped at 15 years regardless (consistent with C&I redecoration and business type change patterns).

Strip curtain installation for reach-in coolers and freezers 4 years

Door gasket installation for reach-in coolers and freezers 4 years

RECORD OF REVISION					
Revision Number	Issue Date	Effective Date Range	Measure	Heading/Subsection of Tech Manual Change or Addition and Brief Description of Change/Addition	Location/Page in Tech Manual (October 15, 2010)
8-13-1	8/31/13	9/1/13 – 11/30/13	Furnaces and Steam Boilers	<p>Furnace and Boilers (Commercial): Corrects Record of Revision number 7-13-11 in two ways.</p> <p>1) Minimum efficiency for gas furnaces less than 225 kBtu/hr is 78% AFUE or 80% thermal efficiency (E_t)</p> <p>2) Minimum efficiency for steam boilers with greater than 2,500 kBtu/hr capacity is 80% combustion efficiency (E_c).</p>	Pg. 137
8-13-2	8/31/13	9/1/13 – 11/30/13	Boilers (residential) and Furnaces and Boilers (commercial)	<p>Boilers (Residential): Compliance Efficiency from which Incentives are Calculated Clarifies that the table containing the baseline efficiencies from which incentives are calculated is a recommendation by DPS and not policy.</p> <p>Furnaces and Boilers (Commercial): Compliance Efficiency from which Incentives are Calculated Clarifies that the table containing the baseline efficiencies from which incentives are calculated is a recommendation by DPS and not policy.</p>	Pgs. 49 & 137

Record of Revision Number 8-13-1

Furnace and Boilers (pg. 137)

Baseline Efficiencies from which Savings are Calculated

The baseline efficiency ($\bar{\eta}_{base}$) is defined by the 2010 Energy Conservation Construction Code of New York State (ECCNYS) as follows:

Equipment Type	Size Range	Minimum Efficiency
Furnace	< 225 kBtu/hr	78% AFUE or 80% E
	>= 225 kBtu/hr	80% E
Hot Water Boilers	< 300 kBtu/hr	80% AFUE
	>= 300 – 2500 kBtu/hr	75% Et and 80% Ec
	> 2500 kBtu/hr	80% Ec
Steam Boilers	< 300 kBtu/hr	75% AFUE
	>= 300 – 2500 kBtu/hr	75% Et and 80% Ec
	> 2500 kBtu/hr	80% Ec

Record of Revision Number 8-13-2

a. Boilers – Residential (pg. 49)

Compliance Efficiency from which Incentives are Calculated (Recommended)

Efficient boiler efficiency ($\bar{\eta}_{ee}$) is the manufacturer's nameplate efficiency for the installed boiler. The recommended minimum boiler efficiency for incentives is defined as follows:

Boiler Type	Size Range	Recommended Minimum Efficiency
Non-Condensing Hot Water Boilers	< 300 kBtu/hr	85% AFUE
	>= 300 – 2500 kBtu/hr	85% Et or 88% Ec
	> 2500 kBtu/hr	88% Ec
Condensing Hot Water Boilers	< 300 kBtu/hr	90% AFUE
	>= 300 – 2500 kBtu/hr	90% Et or 93% Ec
	> 2500 kBtu/hr	93% Ec
Steam Boilers	< 300 kBtu/hr	82% AFUE
	>= 300 – 2500 kBtu/hr	80% Et or 83% Ec
	> 2500 kBtu/hr	83% Ec

b. Furnaces and Boilers- Commercial (pg. 137)

Compliance Efficiency from which Incentives are Calculated (Recommended)

Efficient furnace or boiler efficiency ($\bar{\eta}_{ee}$) is the manufacturer's nameplate efficiency for the installed equipment. The recommended minimum efficiency for incentives is defined as follows:

Equipment Type	Size Range	Recommended Minimum Efficiency
Furnace	All	Tier 1: 92% AFUE Tier 2: 95% AFUE
Non-Condensing Hot Water Boilers	< 300 kBtu/hr	85% AFUE
	>= 300 – 2500 kBtu/hr	85% Et or 88% Ec
	> 2500 kBtu/hr	88% Ec
Condensing Hot Water Boilers	< 300 kBtu/hr	90% AFUE
	>= 300 – 2500 kBtu/hr	90% Et or 93% Ec
	> 2500 kBtu/hr	93% Ec
Steam Boilers	< 300 kBtu/hr	82% AFUE
	>= 300 – 2500 kBtu/hr	80% Et or 83% Ec
	> 2500 kBtu/hr	83% Ec