Memorandum

To: Technical Advisory Committee

**FROM:** CHERYL JENKINS, PROJECT MANAGER and SAM DENT, TECHNICAL LEAD - VEIC

subject: TRM Version 5 Draft 1 Review – Existing Measures

date: 10/23/15

**Cc:** ANNETTE BEITEL, SAG

VEIC has submitted the first group of measure edits and new measures for review by the Technical Advisory Committee. This draft is not a complete TRM and only has redlines of sections and measures that have been worked on and discussed at the TAC meetings to date. A second group of measures will be delivered on November 25th, and the first full draft of the v5.0 TRM will be provided on December 18th.

Presented below are three summary tables. The first provides the measures found in this first submitted group with a brief description of what has changed, whether it is being considered an errata, and a link to the corresponding SharePoint Tracker Item(s).

| **Measure # and Name** | | **Errata?** | **Brief description of what changed** | **Tracker Item(s)** |
| --- | --- | --- | --- | --- |
| Sections 1-3 | | N | Hotel and Motel and Low-use Small Business Definitions. | [Update Building Types and Definitions in Glossary to be consistent with Building Types used in the IL-TRM Measures](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=339&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| Proposed new section 3.8 Measure Incremental Cost Definition. | [Update Deemed Measure Cost Descriptions](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=326&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| Proposed additions to Section 3.2 to account for business closures | Top of Form  [Clarification of First Year Savings and In-Service Rate in the case of Business Closures](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=293&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form |
| 4.2.3 | Commercial Steam Cooker | N | Formatting edits to algorithm for clarity and improved reference. | [Commercial Steam Cooker](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=320&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.2.6 | ENERGY STAR dishwasher | N | ENERGY STAR standard update. Reworked measure to more accurately reflect calculation.  Improved reference. | [Standard update for commercial dishwashers](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=304&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.2.8 | ENERGY STAR Griddle | N | Fixed error in Daily Idle Energy Calculation. Errata if algorithms used - correct if deemed savings used.  Improved reference. | [Error in Griddle Algorithm](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=295&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.2.9 | ENERGY STAR Hot Food Holding Cabinets | N | Improved reference. | None |
| 4.3.1 | Storage Water Heater | N | Changed methodology from deemed approach to algorithm. | [4.3.1 Storage Water Heater Tank Sizes](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=312&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.3.2 | Low Flow Faucet Aerators | N | Fixed EPG factor dependent on water temperature. | [Error in EPG\_elec and EPG\_gas values for Low Flow faucet aerators](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=321&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.3.7 | Multifamily Central Domestic Hot Water Plants | N | Updated DeOreo reference. | [Update reference to DeOreo Aquacraft evaluation, to final version](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=287&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.4.1 | Air Conditioner Tune up | N | Removed SEER test for <65kBtu - now EER test for all. Added explanation of test methodology. | [C&I Central AC Tune Up](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=298&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.4.14 | Pipe Insulation | N | Allow for custom 3E Plus derived entry. | [Use 3E Plus for Heat Loss](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=360&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.4.19 | Demand Control Ventilation | N | Added heating savings for electrically heated buildings (resistance and heat pump). | [4.4.19 DCV Heating and Cooling Equipment Types](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=311&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.4.24 | Small Pipe Insulation | N | Allow for custom 3E Plus derived entry. | [Use 3E Plus for Heat Loss](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=360&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.4.27 | Energy Recovery Ventilator | N | Removed reference to previously deleted table of building characteristics and replaced with table showing occupied hours. | None |
| 4.5.3 | High Performance and Reduced Wattage T8 Fixtures and Lamps | N | Adjustment of T12 baseline. Note: Additional changes to measure likely as VEIC will perform table review and measure baselines pulled out in to master table. | Top of Form  [T-12 Baseline](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=341&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425)Bottom of Form |
| 4.5.4 | LED Bulbs and Fixtures | N | Adjusted language for PAR, MR, and MRX Lamps. NOTE: Pending additional edits on cost assumptions, and potentially pulling measure data in to master table. | [Refine PAR, MR and MRX Base Watt Algorithm (LEDs and CFLs)](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=357&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.5.10 | Occupancy Sensor Lighting Controls | N | Update to costs, kW connected and % savings. | [Occupancy Sensor Lighting Controls - addl Energy Savings Factor](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=344&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 4.5.14 | Commercial ENERGY STAR Specialty Compact Fluorescent Lamp | N | Adjusted language for PAR, MR, and MRX Lamps. | [Refine PAR, MR and MRX Base Watt Algorithm (LEDs and CFLs)](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=357&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| New | Industrial Air Curtains | N | New Measure | [Industrial Air Curtains](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=332&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| New | Heat Recovery Grease Trap Filter | N | New Measure | Top of Form  [Grease trap filter](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=272&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form |
| 5.1.1 | ENERGY STAR Air Purifier | N | Updated using more recent ENERGY STAR calculator. | [5.1.1 Air Purifier - update ESTAR calculation](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=299&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.1.2 | ENERGY STAR and CEE Tier 2 and 3 Clothes Washers | N | Added unknown DHW/ known Dryer and known DHW/unknown Dryer to tables. Added decimal place to % of combustion table to bring calculated and algorithm derived values closer. Fixed parentheses issue. | [Few edits to RES CLothes Washer](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=305&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.1.3 | ENERGY STAR Dehumidifier | N | Removed old ENERGY STAR spec values. Fixed hour assumption listing - calculated deemed values correct. | [Dehumidifier calculation hours](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=296&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.1.8 | Refrigerator and Freezer Recycling | Y | Added customers value on lost amenity to measure cost | [Update Deemed Measure Cost Descriptions](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=326&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.2.1 | Advanced Power Strip Tier 1 | N | Changed name of existing measure (Smart Strip) as propriertary name by single manufacturer. | [Optimize measure name to industry-standard term](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=307&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.3.4 | Duct Insulation and Sealing | N | Added semi-conditioned space savings by use of Thermal Regain Factor. | [5.3.4. Duct Insulation and Sealing](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=318&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.3.8 | Ground Source Heat Pump | N | Updated DeOreo reference. | [Update reference to DeOreo Aquacraft evaluation, to final version](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=287&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.3.12 | Ductless Heat Pumps | Y | Removed /1000 from kW calculation since capacity is already in kBtu. Note: Pending additional changes in relation to Cadmus evaluation. | [Ductless Heat Pump - kW units error](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=297&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.4.2 | Gas Water Heater | N | Updated DeOreo reference. | [Update reference to DeOreo Aquacraft evaluation, to final version](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=287&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.4.3 | Heat Pump Water Heater | N | Updated DeOreo reference. | [Update reference to DeOreo Aquacraft evaluation, to final version](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=287&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.4.4 | Low Flow Faucet Aerators | N | Updated DeOreo reference. | [Update reference to DeOreo Aquacraft evaluation, to final version](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=287&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| Adding ISR assumptions for Efficiency Kits | [Update ISR for Efficiency Kits](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=350&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.4.5 | Low Flow Showerheads | N | Adding ISR assumptions for Efficiency Kits | [Update ISR for Efficiency Kits](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=350&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.5.2 | ENERGY STAR Specialty CFL |  | Adjusted language for PAR, MR, and MRX Lamps. | [Refine PAR, MR and MRX Base Watt Algorithm (LEDs and CFLs)](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=357&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| 5.5.6 | LED Specialty Lamps | Y | Changed name of existing measure (LED Downlight) to LED Specialty Lamps. Made consistent with CFL Specialty assumptions. Removed default efficient wattages as always actuals used. | [Update LED Savings Parameters for non-standard, non-direction LED projects](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=314&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| Adjusted language for PAR, MR, and MRX Lamps. | [Refine PAR, MR and MRX Base Watt Algorithm (LEDs and CFLs)](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=357&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| Attachment B | Non Energy Benefits | N | Added Residential Whole House Retrofit NEB assumptions | [Adding non-energy benefits to residential "whole house" measures and multi-family measures](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=317&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |
| Added Commercial Retrofit NEB assumptions | [Adding non-energy benefits to C&I .](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=352&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) |

The next table provides a list of those tracker items still pending and the progress made to date.

| **Remaining Tracker Issues** | **Progress to date** |
| --- | --- |
| Top of Form  [Error in Lighting IFkWh interaction factors](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=306&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Modeling in process - will be using Chicago as proxy for state as closest to weighted average for both HDD and CDD. This would be a more accurate value than simply taking a straight average of the 5. |
| Top of Form  [Clarification of Boiler Tune-Up Combustion Efficiency](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=313&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Discussed in TAC. Will review relative efficiencies and make proposal at future TAC. |
| Top of Form  [New Measure - Cycling Refrigerated Compressed Air Dryers](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=338&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Still to be reviewed/discussed |
| Top of Form  [Updating Incremental Cost for Small Commercial Programmable Thermostats and Gas High Efficiency Furnace](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=362&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Awaiting workpaper |
| [Non-Residential Lighting Operating Hours Data Aggregation](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=355&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) | Awaiting updated workpaper with additional proposal following Navigant data added. |
| Top of Form  [LED Bulbs and Fixtures](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=347&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Planning review of costs and potentially removing measure details in to master table. |
| Top of Form  [Default Fixture Wattage Reference Table](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=345&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Discussed at TAC- will create table for 11/25 |
| Top of Form  [Averaging Controls for Steam Pipe Systems without Thermostat Radiator Valves](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=319&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Still to be reviewed/discussed |
| Top of Form  [Modulating Dryers](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=328&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Still to be reviewed/discussed |
| Top of Form  [High Efficiency Condensing RTUs](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=330&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Still to be reviewed/discussed |
| Top of Form  [Thermal Equalizer Destratification Fans](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=331&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Still to be reviewed/discussed |
| Top of Form  [Update incremental measure costs - ASHP, CAC, ductless mini-splits](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=323&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Still to be reviewed/discussed |
| Top of Form  [Metered data for ASHP, Mini-split algorithm](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=324&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Still to be reviewed/discussed |
| Top of Form  [Air Sealing and Insulation Measures Adjustment Factor Update. Review TRM v metering / billing study results](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=336&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425)Bottom of Form | Multiple TAC discussions. VEIC aim to propose straw man for 11/3 |
| Top of Form  [HVAC Optimization (Economizer Repair & Optimization)](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=354&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Reviewed and discussed in TAC. Revised workpaper loaded - will be reviewed |
| Top of Form  [Include prescriptive residential air sealing measures](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=333&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Needs TAC discussion |
| Top of Form  [Differentiate the Residential Programmable Thermostat Measure based on Thermostat Capabilities](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=294&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Due for 10/27 TAC discussion. Awaiting final evaluation results |
| Top of Form  [Advanced Power Strip - Tier 2](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=348&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Due for 10/27 TAC discussion. |
| Top of Form  [Residential Air Conditioner Decision Tree](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=356&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Discussed in TAC. Awaiting revised workpaper |
| Top of Form  [WHFd - fix EQuest modeling autosizing issue](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=300&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Modeling in process - will be using Chicago as proxy for state as closest to weighted average for both HDD and CDD. This would be a more accurate value than simply taking a straight average of the 5. |
| Top of Form  [Discuss if eQuest models should be used to develop C&I Lighting CFs](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=301&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Modeling in process - will be using Chicago as proxy for state as closest to weighted average for both HDD and CDD. This would be a more accurate value than simply taking a straight average of the 5. |
| Top of Form  [Update Pump and Fan Hours assumption](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=303&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Modeling in process |
| Top of Form  [Update Deemed values from Nicor 2011-2014 plan](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=315&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | 3 workpapers - will be discussed in upcoming TAC |
| Top of Form  [HP and RW T8 Fixtures](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=316&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | VEIC will perform table review and clarification of ballast factor. Discussed at TAC. |
| Top of Form  [Residential Behaviour Change](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=361&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Needs TAC discussion |
| Top of Form  [Incorporate IECC2015 Code Changes](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=359&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Discussion that this should be done - providing both 2012 and 2015 as baseline for NC dependent on permit date. Progress being made. |

This final table provides tracker items that will not be in the 11/25 deliverable as they have either been closed, are repeats of other tracker items, are more general in nature, or will be tackled in the Full v5.0 Draft.

|  |  |
| --- | --- |
| **Items that will not be in 11/25 deliverable:** | **Comments** |
| Top of Form  [Res Thermostats - add furnace fan savings for homes with heat pumps](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=343&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Decided to put on hold as there are concerns around programmable thermostats and heat pumps |
| Top of Form  [Missing and Broken Links in TRM Sections](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=310&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Improved format of reference folders. Direct linking possible by moving to web-based database. |
| Top of Form  [Revise minimum R-value of residential insulation measures](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=322&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Unlikely to be implemented as algorithms already over claiming as per ODC evaluations |
| Top of Form  [Standardization of Algorithm Terms](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=335&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Will attempt to fix some in first full draft. Possible reliability review process. |
| Top of Form  [Update ISR for aerators, showerheads, CFLs](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=325&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Repeat of Tracker entry from Hammad Chaudhry (Nicor). |
| Top of Form  [Compressed Air](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=342&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Discussed making Compressed Air its own section on 10/20. Will confirm ok to proceed and then implement in first full draft. |
| Top of Form  [Footnote Formatting](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=349&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Will implement in full draft |
| Top of Form  [Improving TRM documentation, quality, transparency, and replicability](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=358&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Reliability reviews will improve. Process still to be defined. |
| Top of Form  [New measure request for Tier 1 commercial Advanced Power Strip](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=308&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | No draft measure workpaper, and note indicates no plans for IL at this time |
| Top of Form  [New measure request for RES Advanced Power Strip - Tier 2](http://portal.veic.org/projects/illinoistrm/_layouts/listform.aspx?PageType=4&ListId=%7b79849E28-9AFD-4B3C-853F-E5AB4C6EFFDC%7d&ID=309&ContentTypeID=0x01006E8072940DC21C438869CEF567E36425) Bottom of Form | Repeat tracker entry |