Appendix 7: Examples for Reference

Examples of program incentive elements:

1. Assessment Incentive – Grantee will propose incentive amounts to offer owners to cover retuning assessment services

Example: 100% of costs up to \$X

2. Implementation Incentive – Grantee will propose incentive amounts to offer during the implementation phase of retuning

Example: \$X to cover complimentary upgrades/energy conservation measures (ECMs) identified in walkthrough OR % of total costs up to \$X

3. Performance Incentive – Grantee will propose amounts to offer for verified savings achieved after retuning

Example: \$.25/kWh Saved up to \$X

Examples of participant eligibility criteria:

- 1. Building types include houses of worship, affordable housing and Class B and C commercial buildings
- 2. Participant is responsible for energy bills
- 3. Participant is able to secure permission to complete suggested no- and low-cost measures
- 4. Participant is committed to improving indoor environmental quality (IEQ) and implementing no- and low-cost measures identified in the investigation phase
- 5. The building is older than 2 years
- 6. Participant is able to provide utility data to benchmark in EPA Portfolio Manager

Example elements of a standardized building retuning checklist:

- 1. Identify any HVAC, HVAC controls, pumps or ductwork issues that can be addressed in retuning
- 2. Separate checklists or sections of checklists for buildings with rooftop units, economizers, ducted vs. ductless or packaged
- 3. Identify any immediate interior or exterior lighting or lighting controls issues that can be addressed
- 4. Identify any domestic water systems issues that can be addressed
- 5. Identify any areas of infiltration/exfiltration in building envelope through blower door testing and/or infrared camera investigation that can be addressed

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- 6. Identify and remediate any occupant comfort issues and identify IEQ concerns that arise from pollutant migration among dwelling units, common areas and/or commercial spaces
- 7. Identify any indoor air quality, mold or humidity issues through testing procedures for CO2, volatile organic compounds (VOCs), fine particulate matter (PM2.5), mold, radon, lead, etc. as appropriate
- 8. Identify any building automation system or digital direct controls (DDC) issues that can be addressed
- Separate checklists for buildings with Building Automation Systems/Energy Management Systems (BAS/EMS)/trending capability vs. no BAS/EMS/trending capability
- 10. Where no BAS/EMS exists, identify opportunities to install basic BAS with digital direct control that enables the implementation of setbacks and modulation of equipment when appropriate
- 11. Identify and remediate any commercial kitchen operations issues that can be addressed in retuning (if applicable)

Examples of potential complementary upgrades offered to pilot program participants in the implementation phase.

- 1. HVAC equipment tune-up, controls updates, revised set points/set-backs and automated scheduling, potentially including, as appropriate, the following:
 - a. Reduce minimum outside air flow
 - b. Correct economizer operation
 - c. Eliminate simultaneous heating and cooling
 - d. Repair compressed air leaks
 - e. Reduce supply air static pressure set points
 - f. Eliminate chilled water short-circuiting
 - g. Improve chiller and/or other equipment sequencing
 - h. Correct refrigerant charge
 - i. Improve equipment scheduling
 - j. Reduced air flow in constant volume air handling systems
- 2. Smart Thermostat installation plus basic building controls hardware enabling digital direct control of major equipment for the purposes of ongoing commissioning
- 3. LED lamp upgrades/CFL replacements
- 4. Lighting controls and occupancy sensors
- 5. Installing signs to turn off lights when not in use

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- 6. Reducing envelope air infiltration using caulk and spray foam, air sealing
- 7. Replacing worn weather stripping on exterior doors and windows
- 8. Duct sealing and attic insulation
- 9. Turning on electronic devices' energy-saving features
- 10. Low-flow shower heads and aerators
- 11. Water heater thermostat/timer set point adjustment
- 12. Insulating exposed water heater and refrigerant pipes
- 13. Installing timers on water coolers
- 14. Refrigeration upgrades, controls, ventilation measures for commercial kitchens as applicable

Examples elements of O&M documentation include the following:

- 1. Facility and systems descriptions, equipment inventory
- 2. Usage guidance by system
- 3. Operating parameters, including heating and cooling temperature set points and setbacks
- 4. Maintenance procedures to ensure persistence of savings, including maintenance plans, checklists, records, and spare parts inventory
- 5. Utility data measurement and reporting
- 6. Training plans and materials
- 7. Regulatory requirements and permits