



Weatherization PY 15 Policy Rollout

Technical Resources

Division of Energy Resources

Goals

- To better understand process changes based on new policy and regulations
- To better understand technical resources available to meet policy requirements

Technical References

- Policy Manual/ State Plan
 - Standard Work Specifications (SWS)
 - SWS Field Guide
 - Deck of Cards (will be sent out when complete)
 - Allowable Measures Chart
 - FAQ, ie. EC Motor, Foundations
 - Technical Forms
 - Client Forms
 - *WA 8.9 Manual (Session 2)*
 - *WA 8.9 Manual Addendum (Session 2)*

Presentations

- Overview of technical resources:
 - SWS Field Guide Overview (Ben)
 - Allowable Measures Chart (Ivan)
 - Contractor Training (Jake)
 - Required Forms--Technical (Dean)
 - Required Forms--Client (Dean/ Ben)

Technical Review Committee

- Bruce Anderson,
- Dan Colburn,
- Anthony Fryer,
- Mark Garafano,
- Jeff Gladis,
- Bob Hoium,
- Randy Mattfield,
- Cal Mayfield,
- Jake McAlpine,
- Paul Morin, TEC
- Bruce Nelson,
- Katie Riemer,
- Don Sivigny, DLI
- Bob Staples,
- Dean Tran,
- Ben Tucker.

AMC-Allowable Measures Chart

- Changes to align with:
 - Standard Work Specifications (SWS)
 - WPN 12-09 Definitions
 - ECM (Energy Conservation Measure)
 - Ancillary Costs
 - IRM (Incidental Repair Measure)
 - HSM (Health and Safety Measure)
 - Consistency
 - Ie. Air sealing wall tops health and safety
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AMC-Allowable Measures Chart

Examples:

Energy Conservation Measure (ECM)	Ancillary Items (Cost must be included in SIR for associated individual ECM)	Incidental Repair Measure (IRM) (Cost must be included in SIR for whole unit package of ECM)	Health and Safety Measure (Separate cost justification. Not included in SIR)
Attic insulation	Eave baffles, hatch dam, dams for heat producing devices	Attic vents. Minor roof repair to preserve insulation. (if identified as IRM in Grantee Plan)	Minor repair of leaking roof that may create moisture/mold issue in attic insulation. (if identified as H/S measure in Grantee Plan)
Wall insulation	Sealing high and low openings in balloon framing	Sealing unusual openings as in void areas between double ceilings. Minor roof repair to preserve insulation. (if identified as IRM in Grantee Plan)	Minor repair of leaking roof that may create moisture/mold issue in new wall insulation. (if identified as H/S measure in Grantee Plan)

AMC-Allowable Measures Chart

- Without further adieu, the changes to the AMC!

AMC-Frequently Asked Questions

- Electronically Commutated (EC) Motor
 - See handout
- Foundations
 - Masonry Foundations
 - Wood Foundations

Forms Committee

- Diane Bender
- Amy Lohse
- Harry Entwistle
- Chris Petroskas
- Katie Riemer
- Phil Anderson

Required Forms

- Section 4.3 of the MN WX Manual
 - Change in the language
 - Change in required tests due to SWS and QCI ---CAZ
 - Change in format
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Technical Forms

- Auditor Data Collection (optional)
 - Includes auditor mechanical and CAZ
- Blower Door
- Contractor Mechanical
- Inspector Mechanical
- QCI Form

Audit Form

- A tool, not a requirement
- Auditor must gather all data needed according to the section 4.4 of MN WX Policy

Blower Door and House Pressure Form

- CAZ replaces worst case draft test
 - Different look
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Mechanical Form

- For Contractor Mechanical Form
 - Includes CAZ
- Inspector Mechanical Form
 - CAZ is recorded in the Blower Door Form

QCI Form

- Final Inspection form is a part of QCI process
 - Section 4.6 of the MN WX Policy
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Clean and Tune (Tool)

- Gas Furnace and Boiler
 - Oil Furnace and Boiler
 - Removes “Replacement” guidance
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Client Forms

- Weatherization Service Agreement
- Standalone Agreement & Completion Certificate (new)
- Final Inspection
- Lead Safe Renovate Right Sign Off
- Client Participation (combined Education/Preparation)
- Safety Assessment (formerly notice of a Safety Problem)

Client Forms

- Safety Assessment--Mold and Moisture (when applicable, triggered by Safety Assessment)
- Client Refusal (when applicable)
- Deferral
- Change Order Form

Weatherization Service Agreement

- Revised and added to list of measures
 - Ex: Replace water heater, install pipe wrap
- Changed language regarding how changes to the agreement are communicated
 - **Removed:** *I understand that I will be informed in writing of the work to be completed prior to start of the weatherization work.*
 - **Added:** *Any changes to the list above will be communicated to me by (Service Provider)*

Weatherization Service Agreement

- **Added** to the disclaimer:
 - *I acknowledge that the appeals process for weatherization work has been explained to me by the energy auditor.*
 - *I understand the weatherization program requires multiple visits to my home and I agree to provide access to all auditors, contractors and/or crews, and inspectors as necessary.*

Client Participation

- Combines
 - Client Education
 - Client Preparation
- Preparation section
 - Combined items that must be removed into #1
 - **Added:**
 - *Move all items at least 3 feet away from walls, rim joists, (duct work, mech systems, appliances)*
 - *Move pictures and shelves from the following areas:_*

Client Participation

- Education section

- **Added:**

- *Use CFL or LED bulbs after the work has been completed*
 - *Recommended water heater temperature is 120 degrees*

- **Removed:**

- *Bleed radiators and add water to the boiler annually per the provided instruction sheet*

Safety Assessment Form

- Replaces “Notice of a Safety Problem Form”
 - A safety assessment of the building, including items not to be addressed by Wx is a DOE requirement
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Mold and Moisture

- Triggered by Safety Assessment form but has more detail about mold and moisture:
 - Cause of issue
 - Location of mold or moisture
 - Amount of mold
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Deferral Form

- **Added** language added to the beginning
 - Provides more information to the client around the meaning of a deferral
- **Revised** deferral reasons
 - Combined multiple items (7)
 - **Added** items from DOE State Plan (2, 3, 5, 6)
 - **Added** inaccessible crawlspace to list (10)

Deferral Form

- **Revised** deferral reasons – cont'd
 - Vermiculite: Revised form to accommodate Service Providers who choose to defer all homes containing vermiculite and those who will test and defer only when results are positive (9)
 - Removed items referencing abusive or threatening clients, drugs
 - Written notice required, do not have to use deferral form (see policy 3.8)

Change Order

- When:
 - Add
 - Delete
 - Change in Cost
- *Only need client's signature when a measure is added or deleted
-

Forms – In Progress

- Fuel Switch Request (when applicable)
- Life Cycle Fuel Cost Calculations for Fuel Switching (when applicable)

Variations

SWS Field Guide

- Standard Work Specifications (SWS)
 - The “how,” not the “what”
 - <https://sws.nrel.gov/>
- Minnesota WAP Weatherization Field Guide
SWS-Aligned Edition
 - <http://wxfieldguide.com/mn/>
 - http://wxfieldguide.com/mn/MNWxFg_Final_060115_Web.pdf

SWS Field Guide

3.1001.2 Chase Capping

Topic: Attics



Subtopic: Penetrations and Chases

Desired Outcome: Chase capped to prevent air leakage and moisture movement between the attic and conditioned space

For supporting material, see [Referenced Standards](#) and [Calculation of the Infiltration Credit](#).

Single-Family Homes

<input type="checkbox"/> Select All <input type="button" value="Print"/> <input type="button" value="Copy to Excel"/> <input type="button" value="Email"/> 			
	TITLE	SPECIFICATION(S)	OBJECTIVE(S)
<input type="checkbox"/>	3.1001.2a Pre-inspection	An inspection will be conducted for mold, water leaks, and water damage before sealing a chase Repairs will be completed before work begins	Repair moisture-related issues

Thank you and questions

- All forms will be finalized and uploaded to the Commerce Website.