



ENERGY STAR® Products Enhanced Testing and Verification: Roof Products

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Agenda



- Overview of enhanced testing and verification requirements for ENERGY STAR
- New proposed requirements for Roofing Products
 - Certification programs
 - Lab accreditations for qualifying and verifying products
- Discussion
 - Leveraging existing certification programs under CRRC
 - Lab accreditations

Key Elements of Enhanced Testing Requirements



- Testing and reporting prior to qualification
 - Ensure that EPA has testing information on all products prior to labeling
 - Require test data from accredited labs that is representative of the product in the marketplace
- Continued testing after qualification
 - Verify that products continue to meet the ENERGY STAR requirements regardless of changes in the production process
 - Provide consumers with confidence that ENERGY STAR products are delivering the savings they expect

ENERGY STAR Enhanced Testing and Verification – Market-Based Testing Program

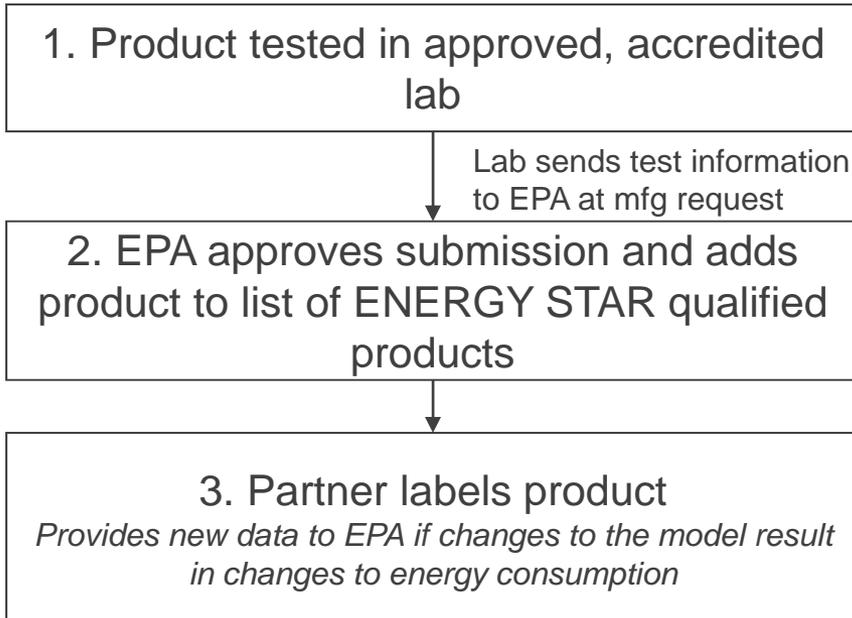


Market-Based Testing

Scope: All ENERGY STAR Product Categories

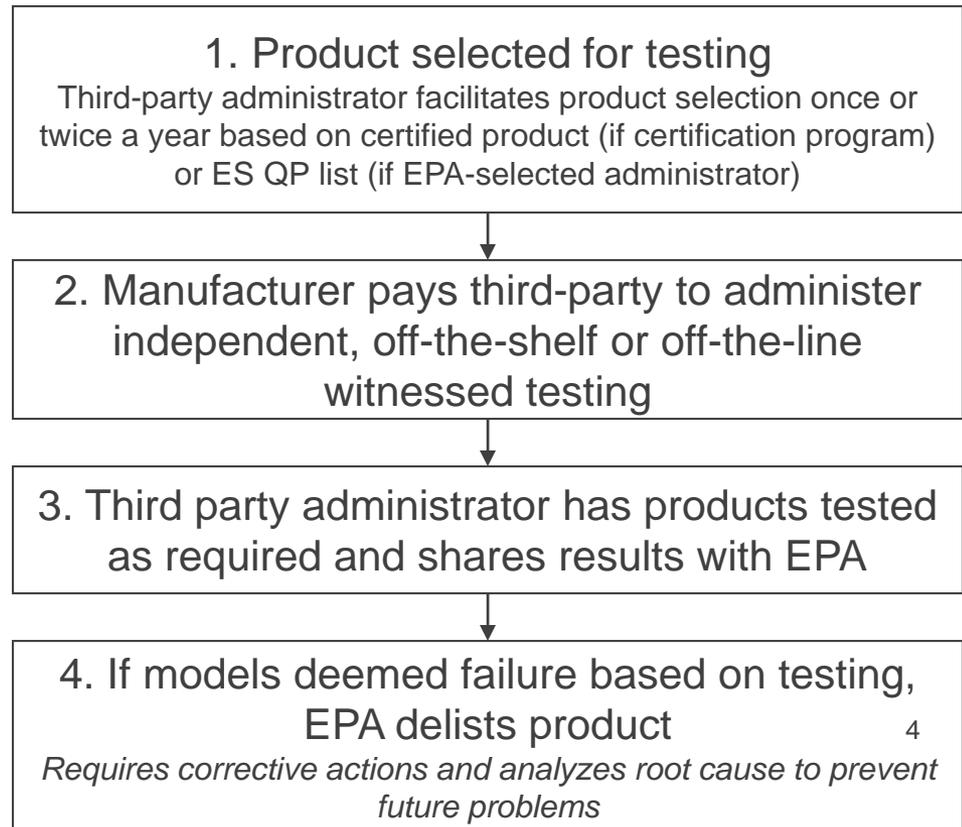
Qualification Testing

Purpose: Ensure that testing is conducted as required by ENERGY STAR specification and that lab submits test results to EPA that are representative of products sold to customer



Verification Testing

Purpose: Ensure that products continue to meet ENERGY STAR requirements



Third Party Certification and Verification Testing



- Laboratory requirements – preference to third-party labs with considerations for manufacturers in-house labs
- Formal market-based certification programs to administer testing
- Verification testing to be conducted on all products within certain timeframe
- Potential for multiple certification/verification programs to serve this function
 - Off-the-shelf testing where possible
 - Combination of random testing and selected products
- Challenge testing requirements

Third Party Testing – Program Administration



- Third-party entity will administer certification and verification testing program (more than one third-party may offer such programs as long as they meet the qualification criteria)
- Qualifications
 - Proficiency in measurement testing or statistics
 - Demonstrated impartiality regarding the outcome of testing
 - Quality control measures (e.g., ISO/IEC Guide 65:1996)
 - May not require membership for product to be certified
 - Need to be approved by EPA
- Responsibilities
 - Identify and select qualified laboratories for testing
 - Work with manufacturers to test ENERGY STAR products for both initial qualification and verification purposes
 - Ensure testing remains on schedule
 - Provide detailed test reports and summaries of results to EPA/DOE

Third Party Qualification Testing



- Third-party independent lab will be required by default
 - In-house labs may be allowed
- To certify product, manufacturer must provide information on the distribution of product (for purposes of conducting verification testing)

Third-Party Verification Testing: Laboratory Requirements



- Third-party independent accredited lab will be required by default
- Witness testing may be allowed on a product-specific basis

Third-Party Verification Testing: Selecting and Obtaining Products



- Selected by third-party program, allowing for input from EPA/DOE and other stakeholders
- Must test all certified products at least every three years
- Need to ensure that products still available on market and that the current specification applies
- Preferred option is to obtain products from the marketplace – need to consider appropriateness of random selection of product off production line

Considerations for Discussion



- Leveraging existing certification programs under CRRC
- Lab accreditations

Next Steps



- Comments due April 30, 2010
 - ENERGYSTARVerificationProgram@energystar.gov
- Complete draft including product-specific requirements – May 2010
- Finalize Requirements – July/August 2010
- Phase-in requirements for certification programs

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Please send general comments and questions to:
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