



ENERGY STAR® Products

Enhanced Testing and Verification: Water Coolers and Vending Machines

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Agenda



- Overview of enhanced testing and verification requirements for ENERGY STAR
- Products covered
- New proposed requirements for Water Coolers and Vending Machines
 - Certification programs
 - Lab accreditations for qualifying and verifying products
 - Frequency of testing
- Discussion of considerations for Water Coolers and Vending Machines
 - Obtaining models for testing and the unique distribution channel
 - 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

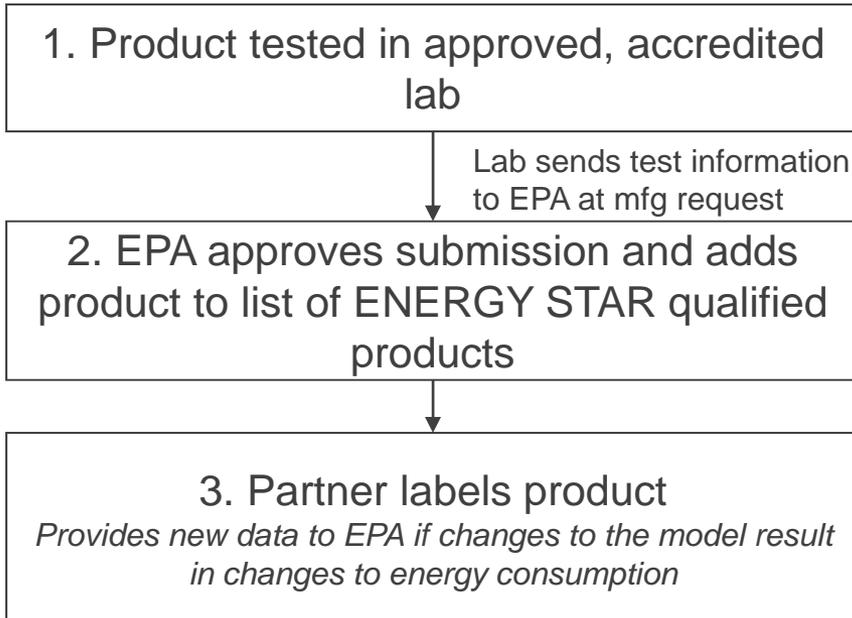


Market-Based Testing

Scope: All ENERGY STAR Product Categories

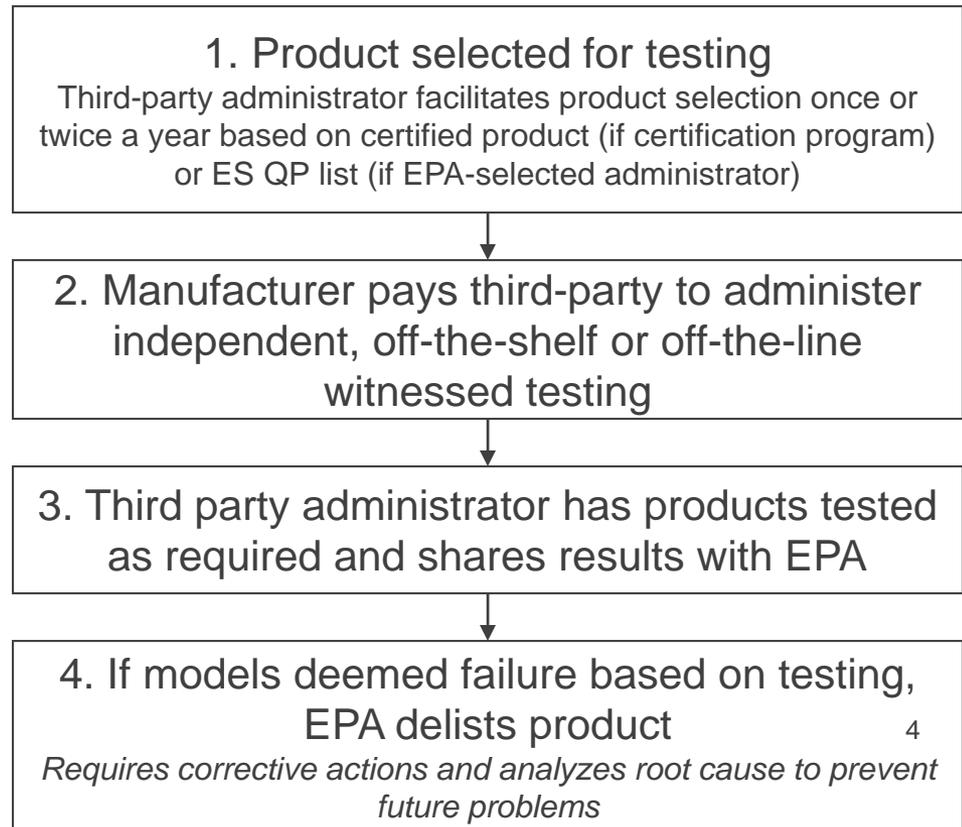
Qualification Testing

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



Equipment Covered



- Vending Machines
- Water Coolers

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 on a product-specific basis
- Product testing should be conducted as written in product specifications
- 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 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

Third-Party Verification Testing: Obtaining Products



- Preferred option is to obtain products from the marketplace
- Other option for prohibitively expensive items or for items not available “off-the-shelf”
 - Random selection of product off production line
 - Testing at manufacturer laboratory under supervision

Third Party Testing: Partner Responsibilities



- Partner is required to pay for third-party certification of product
 - Verification testing will be included in the fee
 - Testing will occur at least annually (for subset of all certified products)

Considerations for Water Coolers and Vending Machines



- Laboratory accreditations
- Obtaining samples for testing given unique distribution channel
- Model after vent fan certification and verification testing requirements

http://www.energystar.gov/ia/partners/product_specs/program_reqs/vent_fans_prog_req.pdf

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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Web site: www.energystar.gov/testingandverification