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# **ENERGY STAR® Products**

## **Enhanced Testing and Verification: Accreditation Bodies, Labs and Certification Programs**

*Kathleen Vokes, US EPA*

[vokes.kathleen@epa.gov](mailto:vokes.kathleen@epa.gov)

# Agenda



- Overview of Enhanced Testing and Verification Requirements for ENERGY STAR
- Lab accreditation requirements
  - Qualification testing
  - Verification testing
- Proposed requirements for administering testing
  - Certification programs
  - Quality assurance testing
- Issues for further discussion
  - Option for product certification
  - Applicability of requirements across all ENERGY STAR products

# 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

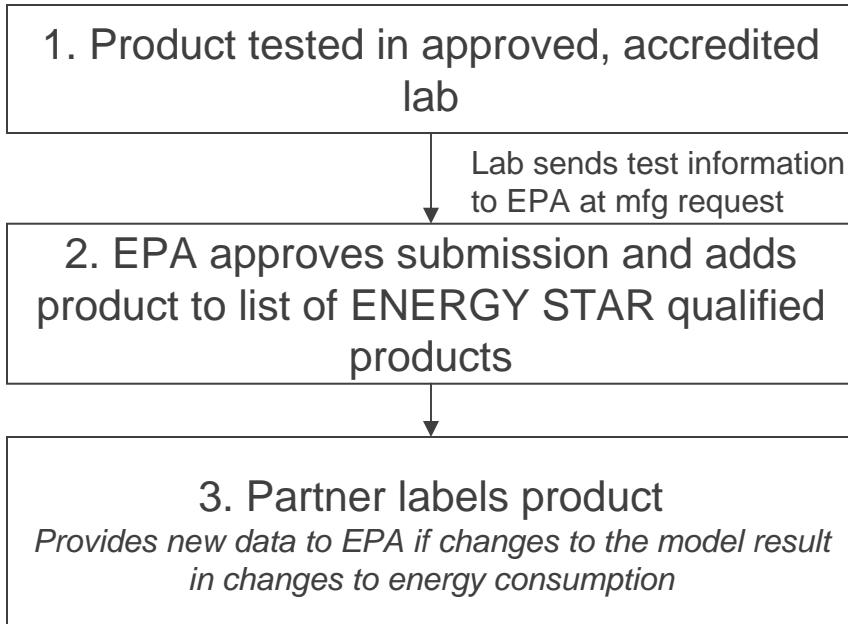


## Market-Based Testing

Scope: All ENERGY STAR Product Categories

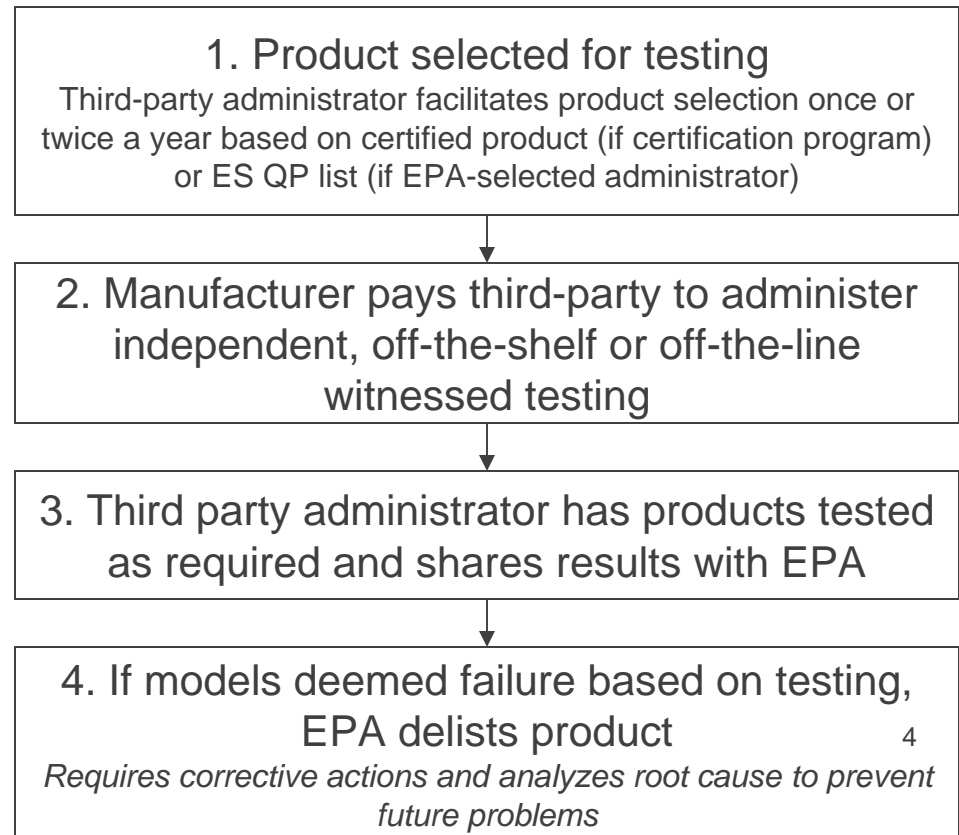
### Qualification Testing

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



# Lab Accreditation



- Requirements for accreditation bodies
  - Need to register with ENERGY STAR and provide information about lab accreditations, including applications in process and list of accredited labs
  - Conduct round robin testing of accredited laboratories if appropriate
  - Signatory, in good standing, to the International Laboratory Accreditation Cooperation (ILAC), APLAC, or NACLA Mutual Recognition Arrangement (MRA)
    - Verifies, by evaluation and peer assessment, that its signatory members are in full compliance with ISO/IEC 17011
    - Verifies that accredited laboratories comply with ISO/IEC 17025.
- Labs will need to be accredited by an approved accreditation body
  - ISO/IEC 17025 or equivalent, including appropriate and current ENERGY STAR test procedures within the scope of accreditation
  - Accreditation shall not be set to expire within the time necessary to complete verification testing and follow-up. Or, if set to expire within that period, confirmation of pending renewal of accreditation will be required.
- Use of in-house labs will be considered on a product-level basis
- Interim approval of labs will be considered on a short-term basis for new specifications that are effective immediately to allow time for labs to secure appropriate accreditation

**Comments: Requests to use the ILAC and IAF infrastructure for accreditation bodies; Requests for more details to define accreditation; Concern about costs and need for accreditation**

# Verification Program Administration



- Manufacturing partners will work with verification program administrators to have products tested in accredited labs. Administrators will share test data with EPA/DOE
- Third parties providing certification and verification testing for ENERGY STAR must meet certain requirements to be approved and listed by ENERGY STAR
- Third parties will be selected by EPA/DOE to administer verification testing for products not covered by certification programs

# Quality Assurance Testing: Program Administration



- One third-party entity will be selected to administer testing program for a product category (the same third party may be selected to administer testing for more than one product category)
  - Selection criteria will include cost of testing as well as ability to satisfy qualification criteria
- Qualifications
  - Proficiency in measurement testing or statistics
  - Demonstrated impartiality regarding the outcome of testing
- Responsibilities
  - Identify and select qualified laboratories for testing
  - Work with manufacturers to obtain funds and information for required testing
  - Ensure testing remains on schedule
  - Provide detailed test reports and summaries of results to DOE/EPA

# 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



# Further Discussion

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- Option for product certification
- Applicability of requirements across all ENERGY STAR products

# Next Steps



- Comments due April 30, 2010
  - [ENERGYSTARVerificationProgram@energystar.gov](mailto:ENERGYSTARVerificationProgram@energystar.gov)
- Complete draft including product-specific requirements – May 2010
- Finalize Requirements – July/August 2010
- Phase-in verification testing requirements allowing adequate time for certification programs to be developed and lab accreditation to occur

# Contact Information



- Kathleen Vokes  
[vokes.kathleen@epa.gov](mailto:vokes.kathleen@epa.gov) // 202.343.9019
- Bijit Kundu  
[bkundu@icfi.com](mailto:bkundu@icfi.com) // 202.862.1157

Please send general comments and questions to:  
[ENERGYSTARVerificationProgram@energystar.gov](mailto:ENERGYSTARVerificationProgram@energystar.gov)