



ENERGY STAR® Imaging Equipment Tier 2 Online Stakeholder Meeting

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Presentation Overview



- Welcome and Introductions
- Meeting Goals
- Background on Imaging Equipment Tier 1 Specification
- Overview of Tier 2 Issues
 - Tier 2 criteria
 - External Power Supply (EPS) specification
 - New product technologies, categories, or markets
 - Duplexing requirements
 - Recovery or default-delay time requirements
- Overview of Comments Received
- Overview of Non-qualified Data Collection
- Stakeholder Discussion
- Timeline and Summary of Action Items
- Adjournment

Today's Goals



- Outline EPA's planned process for developing Tier 2 energy efficiency criteria
- Explain and answer any questions about changes to the EPS requirements
- Uncover any elements in spec. stakeholders feel need addressing in this process
- Discuss if process/timeframe for collection of non-qualified data is reasonable

Key Elements of Tier 1



- Products covered: Copiers, Digital Duplicators, Mailing Machines, Multifunction Devices (MFDs), Printers, and Scanners
- Typical Electricity Consumption (TEC) and Operational Mode (OM) approaches
- Reference to other ENERGY STAR specs for products with DFEs, EPSs, and additional cordless handsets
- Duplexing requirements tied to product type, color capability, and speed
- Default delay time requirements tied to product type, size format, and speed
- Multiple units sometimes required for test
- Tier 1 effective on April 1, 2007

Imaging Equipment Program



- As of November 2007, **33** partners have qualified over **1,500** products under Tier 1

	Products	Partners
MFDs	579	22
Printers	565	20
Copiers	163	11
Scanners	109	7
Digital Duplicators	72	4
Fax Machines	44	8
Mailing Machines	6	1
TOTAL	1538	33

Tier 1: Imaging Equipment Savings



In 2007 alone:

- 87 billion pounds of CO₂ will be avoided
 - Equivalent to annual emissions of 7.5 million cars
- 28 billion kWh of energy will be saved
 - Equivalent to lighting almost 23 million homes for one year
- \$2 billion (USD) will be avoided in consumer energy costs

Establishing Tier 2 Criteria



- Tier 2 effective date: April 1, 2009
- To be addressed:
 - Tier 2 TEC levels
 - Tier 2 standby levels for large format OM products and mailing machines
 - Other elements based on today's discussions?
- TEC and standby levels will be determined from a review of qualified and non-qualified data.
- Goal: to award the ENERGY STAR to approximately the top 25% of the market in terms of energy efficiency

Tier 2: External Power Supply (EPS)



For imaging products using a single-voltage external ac-dc or ac-ac power adapter must use an ENERGY STAR qualified adapter, or one that meets the ENERGY STAR EPS specification when tested to the ENERGY STAR test method.

- Present: To qualify under imaging equipment Tier 1 requirements, imaging products with EPS must also meet ENERGY STAR EPS Tier 1 requirements.
- July 2008: *Expected effective date for EPS Tier 2 requirements.*
Imaging products with EPS may still qualify under EPS Tier 1 requirements.
- April 2009: To qualify under imaging equipment Tier 2, imaging products with EPS must meet EPS Tier 2 requirements.

Tier 2: New Product Technologies



- Are there other technologies that manufacturers anticipate gaining market share in the near future?
- What are the power consumption profiles of these technologies?
- Would current test procedures need to be modified for these new technologies?
 - If so, what type of modifications does industry propose?

Duplexing Requirements



- Should the speed thresholds in which duplexing requirements come into effect be adjusted for any of the relevant product types?
 - i.e., TEC printers, copiers, and MFDs; color and mono
- Is there any other part of the duplexing requirement that may merit adjustment?

Recovery/Default-Delay Time Requirements



Recovery Time Background

- After much discussion, no recovery time requirement was included for Tier 1, but EPA agreed to revisit the issue for Tier 2
- Concern was that machines with excessively long recovery times might have much higher rates of power management disabling than those with short recovery times
- Including a requirement would mean coming to consensus on a test procedure for recovery time(s) and what limit(s) should apply
- Are there current data available to inform this question about
 - Product recovery times?
 - Delay time changes from default?
 - Power management disabling?

Stakeholder Discussion



QUESTIONS?

Comments Received



Question/Comment	Imaging Product Category
Will there be a standby requirement for mailing machines in Tier 2, as currently there is none in Tier 1?	Mailing machines
How will ENERGY STAR incorporate the new European regulation, Energy-using Product (EuP) Program, in Tier 2?	All
Will there be the next scheduled revision (a Tier 3 effective date) included in the Tier II draft?	All
Unless equipment has quicker recovery time, many users will find slow recovery time unacceptable and hence disable such power management features.	All

Non-Qualified Data



- Tier 2 power / energy levels to be set with processes similar to Tier 1
- ENERGY STAR OPS system has sufficient data for qualified products
- Need similar amount of data for non-qualified models to know where 25% levels may be

Stakeholder Discussion



- EPA invites you to provide feedback on other topics of interest to review during the imaging equipment specification revision process

Action Items from Today's Call



1. Further discuss check scanners with ink jet endorsers (EPA and NCR)
2. Investigate Europe's EUP and impacts on ENERGY STAR (EPA)
3. Provide non-qualified data by January 11 (industry)
4. Evaluate data on products' ability to duplex and market penetration of such capability; share data behind any decisions with stakeholders (EPA)
5. Post conference call materials to the ENERGY STAR Web site (EPA)
6. Conduct general market research to determine ENERGY STAR market penetration (EPA)
7. Draft a letter providing clarification on the EPS changes for IE manufacturers to reference or show customers (EPA)
8. Evaluate dates of manufacture for EPSs and IE products and how these dates will work together (EPA)
9. Discuss effective date of EPS spec. since July 2008 is less than the usual nine months away (EPA)
10. Provide feedback on any new technologies or products to consider for Tier 2 (industry)
11. Review IEC 62301 for changes that may be needed to ENERGY STAR standby definitions (EPA)
12. Perform calculations on "Active2" – "Active1" data submitted on qualified products to investigate recovery time (EPA)
13. Clarify labeling requirements for US and non-US markets (EPA)
14. Investigate if older TEC data worksheet could be used in place of non-qualified data template (EPA)

Anticipated Timeline for Imaging Equipment Specification Revision



November 21, 2007

EPA officially launched revision process

January 11, 2008

Deadline for partners to submit non-qualifying testing data

February 2008

Distribute Draft 1 Tier 2 specification

May 2008

Distribute Draft 2 Tier 2 specification

July 2008

Distribute Final Tier 2 specification

December 11, 2007

Conduct online stakeholder meeting to collect feedback

January 16, 2008

Partner comments due on Tier 2 issues

March 2008

Host stakeholder meeting to discuss Draft 1 specification

June 2008

Host stakeholder meeting to discuss Draft 2 specification

April 2009

Tier 2 effective date

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Adjournment



THANK YOU!