Buying Energy Efficient Products with Low Standby Power

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Outline

• Energy efficient purchasing policies
• Basic approach to implementing the Executive Order on low standby power
• Status of Executive Order
• Future steps
Federal Purchasing Policies

• “Agencies shall select, where life-cycle cost-effective, ENERGY STAR® and other ...products in the upper 25 percent of energy efficiency as designated by FEMP.”

  Executive Order 13123 (1999) and FAR Chapter 23 (2001)

• “Each agency ...shall purchase products that use no more than one watt in their standby power consuming mode [or] ...products with the lowest standby power wattage ...”

  Executive Order 13221 (2001)
Energy Star™ and DOE/FEMP Efficiency Recommendations

- Non-residential lighting
- Electric motors and transformers
- Non-residential heating and cooling equipment
- Office equipment
- Residential HVAC, appliances, lighting
- Water-saving devices
- Roofing and windows
- Commercial food service [in preparation]
- Low standby power products – New

www.eren.doe.gov/femp/procurement
Basic Approach
Executive Order 13221

• Work with industry to create product list
  - Build on and reinforce Energy Star
  - Encourage voluntary data reporting
  - Minimize data requirements
  - Build product list from industry-certified data

• Disseminate information on standby power to educate Federal purchasers
  - Work with Defense Logistics Agency, General Services Administration, and others
Progress to Date

• Public/Industry Involvement
  - Public meeting held October 24, 2001
  - Ongoing meetings with major associations and interested manufacturers

• Interagency Coordination
  - DOE, EPA, GSA, DLA, and OMB

• Technical Issues
  - Define standby power
  - Provide standby power test guidelines
Progress to Date (con’t)

• Product list
  - Developed database based on manufacturer/vendor submissions
  - Defined and included sub-categories to address different types of products within a category
    • e.g, digital vs. analog TVs
  - Published list of products with minimal standby power in Federal Register December 31, 2001
  - Update product list and types as needed

• Education
  - Materials and web site: fact sheets, q’s and a’s, www.eren.doe.gov/femp/procurement
Products with Standby Power

1st Tier

- Computers & Office Equipment
- Phone Equipment (powered, cell, cordless)
- TV, VCR, DVD, Audio
- Major Appliances
  - Room AC
  - Clothes washer, Dishwasher
  - Microwave
- Other
  - Ceiling fans w/remote
  - Portable power tools
  - Desktop halogen lamp
  - Exercise equipment
2nd and 3rd Tier Categories

- **Computer and Office**
  - Computer speakers, modem, hub, PDA holder/charger, multifunction device, uninterruptible power supply

- **Video**
  - Digital video recorder, set-top boxes

- **Audio**
  - Component system, CD player, portable audio

- **Communications**
  - Telephone headset, answering machine, walkie talkie

- **Appliances**
  - Range, stove, coffee maker with clock, clothes dryer

- **Other**
  - Portable vacuum, general purpose battery charger, security system, exterior lighting
Typical Energy Savings: Low Power Standby
Next Steps

1) Compile and analyze data for first tier products
2) Designate “low standby levels” for product categories where sufficient data is available (e.g., TV, VCR, TV/VCR)
3) Define “low standby” as 1 watt as sufficient models become available
4) Coordinate with ENERGY STAR where possible and appropriate
5) Publish manufacturer-certified data for specific models
6) Work with office products manufacturers and ITI to collect data by July 2002
   - Recommend standby levels for first tier products (e.g., computers, printers, monitors, fax machines, copiers)
   - Resolve technical issues (e.g., sub-categories, test guideline)
Next Steps (con’t)

- Develop schedule with appliance manufacturers (AHAM) to determine how test procedures can be modified to include standby power.
- Determine schedule for adding 2\textsuperscript{nd} and 3\textsuperscript{rd} tier products.
- Work with GSA, DLA, wholesalers and retailers to highlight standby power data to Federal consumers.
- Organize press event for anniversary of E.O. (July 31).