

**Peters, Sophia**

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**From:** ES Audio/DVD  
**Sent:** Wednesday, July 08, 2009 6:02 PM  
**To:** ES Audio/DVD  
**Subject:** FW: ENERGY STAR Audio/Video Specification 2.0 Sample Test Data and Comments

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**From:** Larry Copley [mailto:lcopley@biamp.com]  
**Sent:** Thursday, June 18, 2009 5:50 PM  
**To:** ENERGY STAR Audio Video  
**Cc:** Doug Doornink  
**Subject:** ENERGY STAR Audio/Video Specification 2.0 Sample Test Data and Comments

To: EnergySTAR Audio Video

From: Larry Copley, Biamp Systems Corporation.

Subject: Comment on proposed EnergySTAR Audio Video Specification 2.0.

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#### **ENERGY STAR® Program Requirements for Audio/Video Version 2.0 DRAFT 1 -**

##### **Product Classifications:**

1) **Commercial Product:** Any AV product manufactured primarily for use in a public or commercial setting. Typical markets for Commercial AV products include: Schools and universities, government, military, office, healthcare, legal, retail, museums, churches, sports arenas, entertainment, and transportation. A commercial product has at least @@ of the following characteristics: TBD.

2) **Residential Product:** Any AV product manufactured primarily for use in a private residence for personal rather than commercial purposes. For purposes of this specification, any product that does not meet the definition of a commercial product shall be considered a residential product.

**Note:** In order to explicitly categorize products as "Residential" or "Commercial" for purposes of ENERGY STAR qualification, EPA will need to identify a discrete set of characteristics specific to commercial products. EPA is interested in input from manufacturers as to an appropriate set of characteristics

Recommend replacing term Commercial Product with Professional Product to be consistent with terminology used by InfoComm Professional Audio Video Association.

One distinguishing characteristic unique to Professional products is the duty cycle for operating in Active Mode. Within the Professional Audio Video products industry, Active Mode duty cycles tend to be much longer than the 1 – 5 hours per day estimated for Residential products. Usage patterns will often mirror a business' hours of operation such that the AV system will be operated in active mode for 10 to 24 hours per day, 5 to 7 days per week. With this usage pattern, energy savings in the Active Mode becomes a much more important consideration as a potential source of energy savings.

a) **Mandatory Auto-Power Down:** To qualify for ENERGY STAR, AV products must offer APD functionality that is enabled by default, unless standards governing the primary functionality of the equipment require it to remain in active mode such as for Mass Notification and Emergency Communications Systems (proposed ANSI/UL 2572).

**Note:** The proposed mandatory APD requirement is intended to promote power down of components that are not in use, in order to minimize the net power consumption of the AV product. EPA will consider exceptions to this requirement for specific products.

Mandatory Auto-Power Down exception should be provided for products where functional standards prohibit this function such as proposed UL 2572 and EN-54-16.

### **Systems Based EnergySTAR Specification for Professional Audio Video Installations -**

Although Power Amplifiers provide an opportunity for large measureable energy savings through use of the most efficient technologies, many other types of Professional Audio Video products will be much more difficult to classify and compare due to unique functionalities provided. It is much more difficult for example to devise a standard unit of measure for signal processing applications. Therefore, there has been some preliminary discussion within the Professional Audio Video Industry of the potential to develop a System Based EnergySTAR Specification to compliment the current Product Based proposal. The industry is currently in the midst of developing an ANSI standard on System Energy Management that could support this effort.

Precedent for System Based approaches has been established by the [EnergySTAR Home](#) program where building materials, lighting, heating, air conditioning, major appliances, controls and the builders are certified by EnergySTAR and work in concert to maximize efficiencies throughout the home. There are also [EnergySTAR Energy Management Guidelines](#) that would likely tie in as well.

Thank you for the opportunity to comment.

Regards,

**Larry Copley | Compliance Engineer**

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