UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
AIR AND RADIATION

October 11, 2007

Dear ENERGY STAR® External Power Supply (EPS) Partner or Other Interested Stakeholder:

The U.S. Environmental Protection Agency (EPA) welcomes your input on the following Draft 1 Version 2.0 ENERGY STAR EPS specification. This document outlines the proposed new energy-efficiency requirements that EPS models would need to meet in order to earn the ENERGY STAR. It is intended that once final, this document will replace the current Version 1.1 specification.

Several aspects of the specification have been adjusted to more effectively recognize the most energy-efficient models available in today's market, including:

- Increasing the Active Mode efficiency requirements representing the average of measured efficiency at 25%, 50%, 75%, and 100% of rated output current;
- Reducing the No-Load power limits; and
- Adding a power factor requirement to the specification for power supplies with a nameplate output power of 75 watts or greater.

The Draft 1 Version 2.0 specification also includes the following noteworthy elements:

- Based on feedback from stakeholders regarding ac-ac design differences and data submitted to ENERGY STAR, EPA is proposing *separate No-Load requirements* for ac-dc and ac-ac models under the Version 2.0 specification in order to reflect the market and recognize opportunities for increased savings.
- EPA has not recommended any changes to the test methodology as outlined in a separate document titled "Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies (August 11, 2004)," which is available on the ENERGY STAR Web site.
- EPA has proposed a Version 2.0 effective date of July 1, 2008. This date coincides with California's Tier 2 effective date for its mandatory EPS standards (which will be more stringent than ENERGY STAR's Version 1.1 requirements).

<u>As you know, revisions to the EPS specification will have implications for ENERGY STAR specifications for several electronic product categories</u>:

Traditional ENERGY STAR Office Equipment and Consumer Electronics Specifications (i.e., computers, monitors, imaging, televisions, telephony, set-top boxes, and audio/DVD): EPA is committed to advancing power supply efficiency in all products as quickly as is reasonable. The timing by which EPS Version 2.0 requirements are adopted within each end-use product category specification will be made on a case by case basis, taking into account the current state of the market, status of any specification revisions, and other factors relevant to each product category. ENERGY STAR partners in the office equipment and consumer electronics categories will receive separate correspondence from EPA outlining the specific details for their product categories. A brief summary is provided below:

- *Computers and Imaging*: Current specifications for these product categories require partners to meet the EPS Version 1.1 requirements, where applicable. EPS Version 2.0 requirements will be effective for computers and imaging equipment at the same time the Tier 2 specifications for those products apply.
- *Televisions, Monitors, Set-top Boxes, and Audio/DVD*: Current specifications do not include explicit EPS requirements. However, revised specifications currently in progress or expected to begin this fall will incorporate the EPS Version 2.0 specification.
- *Telephony*: EPS requirements are a central part of the ENERGY STAR telephony specification. It is EPA's intent that the telephony specification adopt the EPS Version 2.0 requirements as they become effective (i.e., proposed effective date of July 1, 2008). EPA will amend the telephony specification accordingly.

Primarily Portable Products with Qualified EPSs: Manufacturers of products who participate in the ENERGY STAR program by incorporating ENERGY STAR qualified EPSs into their products that are not otherwise covered by the program (e.g., mobile phones, MP3 speaker systems, water filtration systems) should be aware that the EPSs in those products must meet EPS Version 2.0 as of its effective date; currently proposed as July 1, 2008. More information on this partner category is available at http://www.energystar.gov/ia/partners/product_specs/program_reqs/EUP_Partner_Commitments.pdf.

A masked version of the data-set used by EPA to determine the proposed energy-efficiency requirements in this Draft 1 Version 2.0 EPS specification is included as an attachment to this memorandum. Stakeholders are requested to **provide comments on the Draft 1 specification no later than November 9, 2007. Please send comments via e-mail to Robin Clark, ICF International, at rclark@icfi.com. In early to mid November, EPA will host a Webinar to discuss this Draft 1 specification**. More information on the Webinar and a Draft agenda will be forthcoming shortly. Comments received prior to the Webinar would be greatly appreciated and will allow for a more constructive conversation about this Draft 1 specification. All comments received will be posted to the ENERGY STAR Product Development Web site, unless the submitter specifically requests that their comments remain confidential.

The exchange of ideas and information between EPA, industry, and other interested parties is critical to the success of ENERGY STAR. To track EPA's progress in revising the ENERGY STAR EPS specification and to review comments, please visit the Product Development Web site at www.energystar.gov/productdevelopment and click on "Revisions to Existing Specifications."

Thank you in advance for your input and suggestions. As always, I can be reached at (206) 553-6377 or Fanara.Andrew@epa.gov.

Best regards,

Andrew Fanara
ENERGY STAR Product Development Team Leader
U.S. Environmental Protection Agency

Enclosures:
Draft 1 Version 2.0 ENERGY STAR EPS Specification
Masked Data-set Used to Determine Proposed Draft 1 Energy-Efficiency Requirements