

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



OFFICE OF
AIR AND RADIATION

June 23, 2015

Dear Large Network Equipment (LNE) Manufacturer or Other Interested Party:

The U.S. Environmental Protection Agency (EPA) welcomes your input on the attached Draft 2 Version 1.0 ENERGY STAR[®] Large Network Equipment (LNE) specification, as well as the attached Final Draft LNE Test Method developed by the U.S. Department of Energy (DOE). Comments on these documents are due no later than **July 24, 2015**.

The release of these drafts follows a series of monthly webinars aimed at enabling close work with stakeholders to resolve outstanding issues related to the ENERGY STAR eligibility requirements and test method for LNE. These drafts reflect the discussions generated by those webinars and written feedback shared by stakeholders in response to webinar topics. EPA appreciates the productive engagement of stakeholders in the development of these drafts.

The goals of the Draft 2 specification and supporting documents are to: 1) refine and add new definitions to provide greater clarity on product type and product family; 2) share the Agency's proposed plan for test and report in Version 1.0 as requirements in other areas such as power supply efficiency and energy efficient features. The goal of the Final Draft Test Method is to provide an update on the proposed testing of LNE.

The Draft 2 specification includes the changes highlighted below followed throughout the document by noteboxes explaining the rationale for the proposed changes. These noteboxes strive to address all significant comments shared with EPA following the release of Draft 1.

- EPA proposed several significant changes to key definitions including LNE, modular and fixed, a new definition for module, and an expanded definition of product family for modular products. Physical Network Ports now also include fiber-optic ports.
- EPA proposes inclusion of fiber-optic ports within the scope of this specification up to 40Gb/s or greater link rate capability.
- EPA has clarified that power factor requirements only apply to ac input power supplies.
- EPA has clarified that active state efficiency requirements will not be included in Version 1.0 of this specification, rather certified products will be required to generate and report data that will support setting active levels in Version 2.0. The other pass/fail requirements such as power supply efficiency and energy efficiency features will ensure Version 1.0 delivers savings.
- EPA has proposed a family structure for modular products and stated the Agency's interest in and considerations for a family structure for fixed products, though a fixed product family structure is not proposed in this draft.
- EPA has added standard language on the definition of a representative model(s) in a product family.

Additionally, the following are some key elements of the proposed changes in LNE Final Draft Test Method:

- DOE has added test procedures for High Port Count products, as well as configuration requirements pertaining to High Port Count testing.
- DOE has increased the center-point and widened the range of the allowable ambient temperature required during testing.
- DOE has changed the requirements for how to measure the power of products that have multiple PSUs.

Stakeholders are encouraged to provide feedback on the specific concepts and definitions presented in these documents, as well as any comments of a more general nature, to largenetwork@energystar.gov by **July 24, 2015**. EPA will host a webinar on **July 8, 2015 from 12-2 PM Eastern** to encourage further discussion. **Please click [here](#) to register for the webinar.**

Communication between EPA and stakeholders is critical to the success of the ENERGY STAR program. Please direct specification related questions to Katharine Kaplan, EPA, at Kaplan.Katharine@epa.gov, or 202-343-9120; or John Clinger, ICF International, at John.Clinger@icfi.com, or 215-967-9407. Please direct any specific test method questions to Bryan Berringer, DOE, at Bryan.Berringer@ee.doe.gov, or 202-586-0371.

Sincerely,

A handwritten signature in cursive script that reads "Katharine Kaplan".

Katharine Kaplan
U.S. Environmental Protection Agency
Manager, ENERGY STAR Product Development and Program Admin

Enclosures:

Draft 2 ENERGY STAR Large Network Equipment. Specification
Final Draft Large Network Equipment Test Method
Response to Stakeholder Comments on Draft 2 LNE Test Method
Final Draft Test Reporting Template for Large Network Equipment