

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



OFFICE OF  
AIR AND RADIATION

September 14, 2015

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

The U.S. Environmental Protection Agency (EPA) welcomes your input on the attached Final Draft Version 1.0 ENERGY STAR<sup>®</sup> Large Network Equipment (LNE) specification. Also included in this distribution is the Final LNE Test Method. EPA would like to thank the stakeholders who contributed valuable feedback that has informed this specification and test method development process.

The Final Draft document outlines the energy efficiency requirements that LNE would need to meet in order to earn the ENERGY STAR. Manufacturers may begin certifying LNE to the Version 1.0 specification immediately upon its finalization. Stakeholders will receive the Final LNE Specification later this month.

This draft reflects input received from stakeholders leading up to and in response to the Draft 2 specification including feedback shared over a series of focused webinars hosted between March and May that proved particularly helpful in solving outstanding issues with the testing of and eligibility criteria for LNE. Most recent feedback indicated support for much of the Draft 2, with requests for modifications to requirements for high speed optical ports, modular families, and power supplies. EPA has made some modest adjustments in response to these comments as highlighted below. Stakeholders will find EPA note boxes within the draft that highlight these changes and share EPA's rationale. EPA has also responded to all comments received in the accompanying comment response document.

- EPA has removed the exclusion of products with fiber optic ports with speed of 40Gb/s or greater.
- EPA has noted that Section 5 requirements apply to all products with a nameplate power rating greater than 250 watts.
- EPA has clarified that manufacturers shall select whether to test a product using the half-port or full-port test in the ENERGY STAR LNE Test Method.

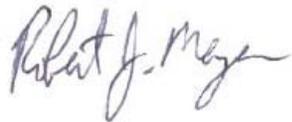
The Final LNE Test Method is also enclosed. The following modifications are reflected in the LNE Final Test Method (Rev. Sep. 2015) based on stakeholder comments and discussion:

- Lowered High Port Count Data port threshold: the threshold for the defining High Port Count Products has been reduced in the Final Test Method to be 105 ports.
- Widened ambient temperature requirement: the Final Test Method has been updated to require the ambient temperature to be greater than 25.0°C and less than 30.0°C during testing. Furthermore, the temperature measurement distance has been increased from 50mm to 2m.
- Updated snaked data traffic configuration guidelines: the Final Test Method has been updated to indicate that all ports connected using a single snaked traffic stream must have the same line speed and the same expected maximum throughput, rather than just the same line speed.

Any comments on the Final Draft Version 1.0 specification should be submitted via e-mail to [largenetwork@energystar.gov](mailto:largenetwork@energystar.gov) by **September 28, 2015**. EPA will host a webinar on **September 22, 2015 from 12-1 PM Eastern** to address any questions regarding this Final Draft and outline for stakeholders next steps regarding certification and listing of ENERGY STAR products. **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 RJ Meyers, EPA, at [Meyers.Robert@epa.gov](mailto:Meyers.Robert@epa.gov) or 202-343-9923; or John Clinger, ICF International, at [John.Clinger@icfi.com](mailto:John.Clinger@icfi.com), or 215-967-9407. Please direct any test method questions to Bryan Berringer, DOE, at [Bryan.Berringer@ee.doe.gov](mailto:Bryan.Berringer@ee.doe.gov), or 202-586-0371.

Sincerely,

A handwritten signature in black ink that reads "Robert J. Meyers". The signature is written in a cursive style with a large initial "R" and "M".

Robert Meyers  
Data Center Product Manager  
ENERGY STAR for LNE

Enclosures:

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