

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



OFFICE OF
AIR AND RADIATION

March 23, 2010

Dear ENERGY STAR[®] Set-top Box Manufacturer, Service Provider, or Other Interested Party:

The U.S. Environmental Protection Agency (EPA) would like to thank everyone who participated in and contributed to the ENERGY STAR Set-top Box (STB) stakeholder meeting on Friday, March 19, 2010 in Washington, DC. As noted in the meeting, EPA has proposed the following limits for of the Version 3.0 STB specification, with a proposed effective date of June 1, 2011 for Tier 1 and June 1, 2013 for Tier 2:

BASE FUNCTIONALITY	V3.0 Tier 1 (kWh/yr)	V3.0 Tier 2 (kWh/yr)
Cable	72	60
Satellite	72	60
DTA	35	24
IP	58	46
Terrestrial	22	18
Thin Client / Remote	22	18

ADDITIONAL FUNCTIONALITY	V3.0 Tier 1 (kWh/yr)	V3.0 Tier 2 (kWh/yr)
Additional Tuners	16	13
Additional Tuners OTA	8	6
DVR	45	36
High Definition	25	16
Removable Media Player	8	8
Removable Media Player / Recorder	10	10
Multi-room	25	22
CableCARD	15	15
DOCSIS	20	15

This proposal is a supplement to the Draft 1 Version 3.0 specification that was distributed for stakeholder review on February 22, 2010. Specifically, a Tier 1 base functionality allowance equal to 58 kWh/year is proposed for IP STBs, and a full selection of Tier 2 allowances are included for review. A chart illustrating the proposed Version 3.0 power allowances, as applied to the ENERGY STAR STB data set, is included at the end of this letter for your reference. The underlying data set will be posted to the ENERGY STAR Web site.

The proposed Version 3.0 limits have been developed with the intention of rewarding product designs that incorporate intelligent component and subsystem power management and effective

use of low-power operating states, in order to identify those products which simultaneously deliver both high-quality user experience and best-in-class energy efficiency.

The exchange of ideas and information between EPA and stakeholders continues to be critical to the success of ENERGY STAR. Manufacturers are strongly encouraged to e-mail comments on this Tier 2 proposal to STBs@energystar.gov by **April 9, 2010**.

To track EPA's progress in the STB specification revision process, visit the ENERGY STAR Product Development Web site at www.energystar.gov/RevisedSpecs and follow the link for "Set-top Boxes". Please direct any specific questions to Kathleen Vokes, EPA, at vokes.kathleen@epa.gov or Stephen Pantano, ICF International, at spantano@icfi.com.

Thank you for your continued support of ENERGY STAR.

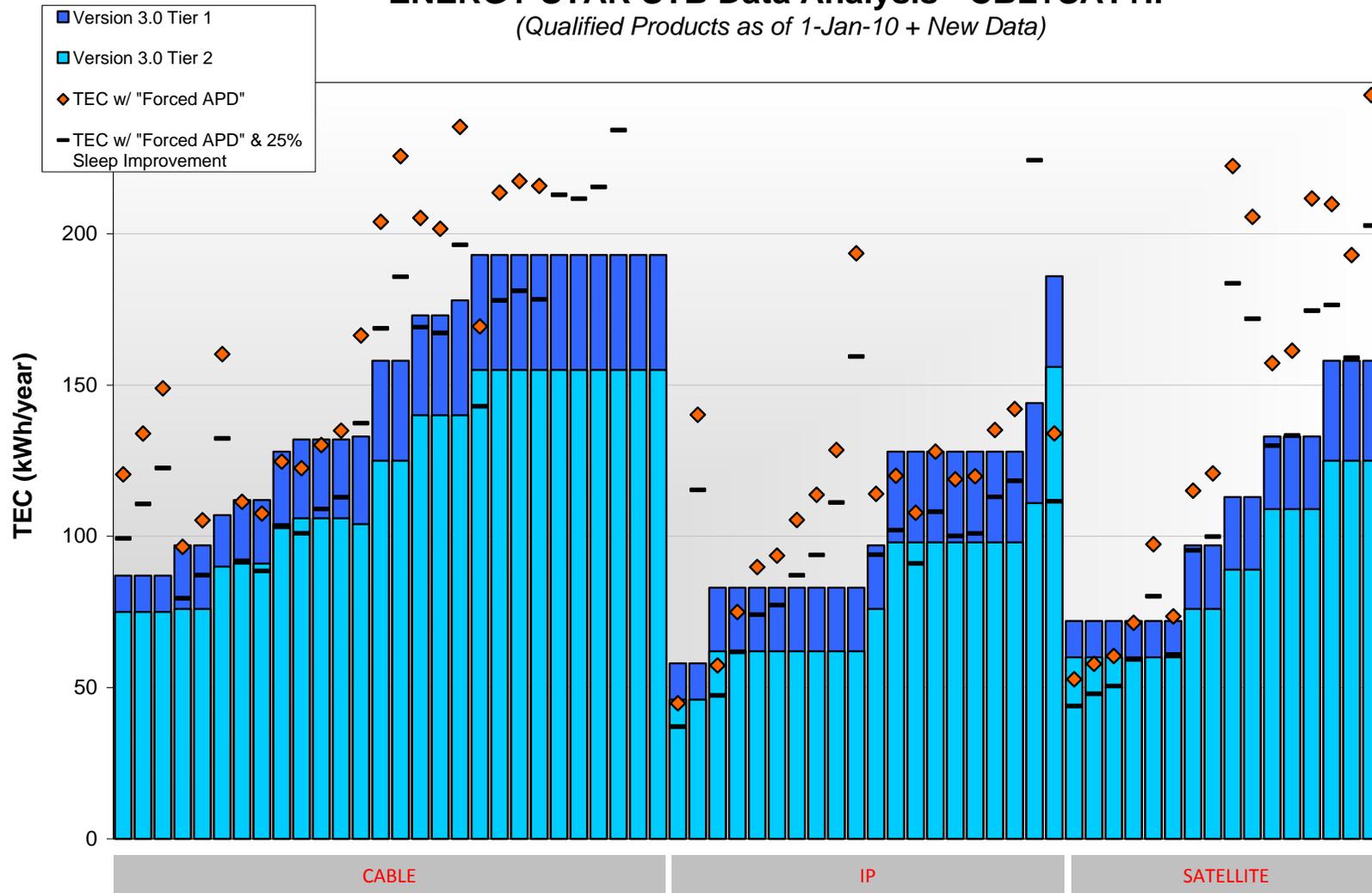
Sincerely,

A handwritten signature in black ink, appearing to read "Kathleen Vokes", with a long horizontal flourish extending to the right.

Kathleen Vokes
US Environmental Protection Agency
ENERGY STAR for Set-top Boxes

ENERGY STAR STB Data Analysis - CBL+SAT+IP

(Qualified Products as of 1-Jan-10 + New Data)



This chart shows ESTAR qualification levels, as determined by product base type and feature set, from the new Version 3.0 Tier 1 and Tier 2 proposals. The orange diamonds represent TEC values derived from the ENERGY STAR data set, assuming Automatic Power-down (APD) is active for each product. The black dashes represent the same products, assuming an additional 25% reduction in Sleep mode power consumption.