

HP Comments on the Draft 3 Computer Specification
7/28/06

To compliment the feedback provided through ITI, HP has the following feedback about the draft 3 computer spec.

1. TEC coefficients:
 - HP is anxious to know what coefficients will be established for the TEC calculation. HP's hopes there will be a period of industry review and feedback prior to finalization.
2. Labeling and education:
 - Include a desktop link to EPA ENERGY STAR website. This would serve as an enhancement to electronic labeling as well as a link to date educational material that the EPA can control.
 - Display of logo at boot up for 5 seconds seems excessive.
3. Mobile Workstation differentiation: Please see the attached note Steve Ortmann sent on June 20.

From: Ortmann, Steve
Sent: Tuesday, June 20, 2006 2:10 PM
To: Osdoba.Katharine@epamail.epa.gov
Subject: RE: 3 Tier Approach for Notebooks?

Katharine,

Specifically, we are looking for relief which will allow us to qualify Mobile Workstations. The problem is similar to the PC vs. WS.

Mobile WS are a smaller portion of sales but energy savings and E* compliance remains a concern of our customers.

A potential starting point would be to define a Mobile WS as;

Category A (Mobile Workstation) Definition:

Must have the following to qualify:

Marketed as a Mobile Workstation

and

must have at least 2 of the following to qualify:

- Minimum 15 in. Display
- Two or more processor cores
- 2GB or more of installed DRAM

Greater than 128 MB of dedicated graphics memory separate from system DRAM

Category B Definition: Anything not qualifying as a category A.

In Table 1: Tier 1 Energy Efficiency Requirements under notebook product type:

Standby (Off Mode): $\leq 2W$

Sleep Mode: $\leq 3W$

Idle State:

Category A: 30W

Category B: 20W

I have attached some data for you review.

Model		EPA specs. Version 4 draft 1	EPA specs. Version 4 draft 2	Discrete Graphics			
Note:				17" mainstream	17" Workstation	15.4" mainstream	15.4" Workstation
S0, Idel, LCD off, Wireless on, (W)	N/A	≤ 21	≤ 20	25.50	31.77	28.73	28.73
S3 Power (W)	No WOL		≤ 3	1.75	1.75	1.83	1.83
	Yes WOL	≤ 5	≤ 3.75	2.28	2.28	2.38	2.38
S4 Power (W)	No WOL		≤ 1.75	1.70	1.70	1.79	1.79
	Yes WOL	≤ 1	≤ 2.45	2.23	2.23	2.30	2.30
S5 Power (W)	No WOL		≤ 1.75	1.70	1.70	1.79	1.79
	Yes WOL	≤ 1	≤ 2.45	2.23	2.23	2.30	2.30
Adapter only Power (W)			≤ 0.75	0.13	0.29	0.13	0.13

Note:

S3 power depend on the memory configuration
S0 depend on system configuration such CPU, Memory, Panel, and others
Power varies with model and configuration
Notebook connected to the network