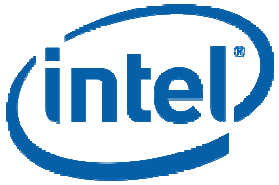

EnergyStar V4 – draft 3
Consolidated Spec Feedback
24 July 2006

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Key Messages to EPA

- Intel appreciates EPA's efforts in Draft3 to provide an Energy Star specification that accommodates both industry and EPA needs
- Of specific note to Intel were:
  - EPA's openness to consider a Workstation TEC system
    - Direct and transparent interaction with consultants allowed for speedy and efficient progress in coming to agreement on TEC constraints
  - Adoption of 3-tier Desktop classification system
  - Flexibility in wired network test methodology (low/high link speeds)
  - Extended idle time measurement window (10min)
- As a result of this positive progress, Intel has minimal additional spec feedback on Draft3 (see subsequent pages)

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Recommendations for Final Energy Star Spec

- Electronic Labeling proposal
  - Intel has concluded there is no conflict with EPA's proposed electronic labeling provision and Intel's On-Screen Branding requirements (see complementary memo provided by Intel)
  - There are, however, some technical concerns Intel shares with industry partners on the duration of display of the Energy Star logo
    - Microsoft "Fast Boot" initiative outlines options to reduce overall boot time to a target of ~7 seconds for total BIOS execution time (http://www.microsoft.com/whdc/system/sysperf/fastboot/fastboot-winxp.mspx)
    - Intel Rapid BIOS effort has been able to reduce total BIOS execution time to <4 seconds (for systems without option ROMs)
    - Electronic labeling requirement of minimum 5 second Energy Star logo display would extend overall system startup time
      - Likely to incur negative customer perception of both the Energy Star brand and the overall PC product

Recommended alternatives:

1) reduce logo display time to "as long as boot process allows"
2) Pursue desktop icon proposal from ITI

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Recommendations for Final Energy Star Spec

- Tier I Compliance Duration
  - Tier I compliance begins July 1, ’07 under the rationale that most new product introductions occur at one of two pre-existing market windows
    - “Back to School” = Q2 or “Holiday Refresh” = Q3
  - A change to Energy Star compliance requirements off-cycle to natural market windows and without grandfathering creates tremendous industry/market confusion

Recommend extend Tier I compliance timeline through June ’09 with TierII compliance to begin July 1, ‘09

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Recommendations for Final Energy Star Spec

- Data sets indicate sleep and standby limits for Integrated Desktops exceed standard desktop systems
  - Recommend incremental S3/S5 power budget for Integrated Desktop to be validated with data submissions (4 Aug 2006)
- External power supply
  - Unclear of EPA's reasoning for setting maximum output power requirements on external power supplies?
    - High wattage EPS costs will limit practical use of such devices already
  - Suggest removal of max power limitation or provide reasoning for including a power limit
- Internal power supply
  - The specific requirement of "power supply connecting to the mains through a single cable with no intermediate circuitry" eliminates opportunity for UPS enabled systems qualifying
  - Potential detriment to Energy Star viability in geographies with less reliable power infrastructure

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