



ENERGY STAR® Program Requirements for TVs, VCRs, DCR TVs with POD Slots, Combination Units, Television Monitors, and Component Television Units

Partner Commitments

Commitment

The following are the terms of the ENERGY STAR Partnership Agreement as it pertains to the manufacturing of ENERGY STAR qualified televisions (TVs), videocassette recorders (VCRs), digital cable-ready (DCR) TVs with point of deployment (POD) slots, combination units, television monitors, and component television units. The ENERGY STAR Partner must adhere to the following program requirements:

- comply with current ENERGY STAR Eligibility Criteria, defining the performance criteria that must be met for use of the ENERGY STAR certification mark on TVs, VCRs, DCR TVs with POD slots, combination units, television monitors, and component television units and specifying the testing criteria for TVs, VCRs, DCR TVs with POD slots, combination units, television monitors, and component television units. EPA may, at its discretion, conduct tests on products that are referred to as ENERGY STAR qualified. These products may be obtained on the open market, or voluntarily supplied by Partner at EPA's request;
- comply with current ENERGY STAR Identity Guidelines, describing how the ENERGY STAR name and mark may be used. Partner is responsible for adhering to these guidelines and for ensuring that its authorized representatives, such as advertising agencies, dealers, and distributors, are also in compliance;
- qualify at least one ENERGY STAR labeled TV, VCR, DCR TV with POD slot, combination unit, television monitor, or component television unit model within two years of activating the TV, VCR, DCR TV with POD slot, combination unit, and component television unit portion of the agreement. When Partner qualifies the product, it must meet the specification (e.g., Tier 1 or 2) in effect at that time;
- provide clear and consistent labeling of ENERGY STAR qualified TVs, VCRs, DCR TVs with POD slots, combination units, television monitors, and component television units. The ENERGY STAR label must be clearly displayed on the top/front of the product, on the product packaging, in product literature (i.e., user manuals, spec sheets, etc.), and on the manufacturer's Internet site where information about ENERGY STAR qualified models is displayed;
- provide to EPA, on an annual basis, an updated list of ENERGY STAR qualifying TV, VCR, DCR TV with POD slot, combination unit, television monitor, and component television unit models. Once the Partner submits its first list of ENERGY STAR labeled TV, VCR, DCR TV with POD slot, combination unit, television monitor, and/or component television unit models, the Partner will be listed as an ENERGY STAR Partner. Partner must provide annual updates in order to remain on the list of participating product manufacturers;
- provide to EPA, on an annual basis, unit shipment data or other market indicators to assist in determining the market penetration of ENERGY STAR. Specifically, Partner must submit the total number of ENERGY STAR qualified TVs, VCRs, DCR TVs with POD slots, combination units, television monitors, and component television units shipped (in units by model) or an equivalent measurement as agreed to in advance by EPA and Partner. Partner is also encouraged to provide ENERGY STAR qualified unit shipment data segmented by meaningful product

characteristics (e.g., capacity, size, speed, or other as relevant), total unit shipments for each model in its product line, and percent of total unit shipments that qualify as ENERGY STAR. The data for each calendar year should be submitted to EPA, preferably in electronic format, no later than the following March and may be provided directly from the Partner or through a third party. The data will be used by EPA only for program evaluation purposes and will be closely controlled. If requested under the Freedom of Information Act (FOIA), EPA will argue that the data is exempt. Any information used will be masked by EPA so as to protect the confidentiality of the Partner;

- notify EPA of a change in the designated responsible party or contacts for TVs, VCRs, DCR TVs with POD slots, combination units, television monitors, and component television units within 30 days.

Performance for Special Distinction

In order to receive additional recognition and/or support from EPA for its efforts within the Partnership, the ENERGY STAR Partner may consider the following voluntary measures and should keep EPA informed on the progress of these efforts:

- consider energy efficiency improvements in company facilities and pursue the ENERGY STAR label for buildings;
- purchase ENERGY STAR labeled products. Revise the company purchasing or procurement specifications to include ENERGY STAR. Provide procurement officials' contact information to EPA for periodic updates and coordination. Circulate general ENERGY STAR labeled product information to employees for use when purchasing products for their homes;
- ensure the power management feature is enabled on all ENERGY STAR qualified monitors in use in company facilities, particularly upon installation and after service is performed;
- provide general information about the ENERGY STAR program to employees whose jobs are relevant to the development, marketing, sales, and service of current ENERGY STAR labeled product models;
- feature the ENERGY STAR label(s) on Partner Web site and in other promotional materials. If information concerning ENERGY STAR is provided on the Partner Web site as specified by the ENERGY STAR Web Linking Policy (this document can be found in the Partner Resources section on the ENERGY STAR Web site at www.energystar.gov), EPA may provide links where appropriate to the Partner Web site;
- provide a simple plan to EPA outlining specific measures Partner plans to undertake beyond the program requirements listed above. By doing so, EPA may be able to coordinate, communicate, and/or promote Partner's activities, provide an EPA representative, or include news about the event in the ENERGY STAR newsletter, on the ENERGY STAR Web pages, etc. The plan may be as simple as providing a list of planned activities or planned milestones that Partner would like EPA to be aware of. For example, activities may include: (1) increase the availability of ENERGY STAR labeled products by converting the entire product line within two years to meet ENERGY STAR guidelines; (2) demonstrate the economic and environmental benefits of energy efficiency through special in-store displays twice a year; (3) provide information to users (via the Web site and user's manual) about energy-saving features and operating characteristics of ENERGY STAR qualified products, and (4) build awareness of the ENERGY STAR Partnership and brand identity by collaborating with EPA on one print advertorial and one live press event;
- provide quarterly, written updates to EPA as to the efforts undertaken by Partner to increase availability of ENERGY STAR qualified products, and to promote awareness of ENERGY STAR and its message.



ENERGY STAR® Program Requirements for TVs, VCRs, DCR TVs with POD Slots, Combination Units, Television Monitors, and Component Television Units

Eligibility Criteria (Version 2.2)

Below is the product specification for ENERGY STAR qualified TVs, VCRs, DCR TVs with POD slots, Combination Units, Television Monitors, and Component Television Units (Version 2.2). A product must meet all of the identified criteria to be labeled as ENERGY STAR by its manufacturer.

- 1) **Definitions:** Below is a brief description of TVs, VCRs, DCR TVs with POD slots, TV/VCRs, TV/DVDs, VCR/DVDs, TV/VCR/DVDs, Television Monitors, Component Television Units and other terms as relevant to ENERGY STAR.
 - A. **Television (TV):** A commercially available electronic product consisting of a tuner/receiver and a monitor encased in a single housing. The monitor usually relies upon a cathode-ray tube (CRT), liquid crystal display (LCD), plasma display, or other display device. The TV is designed to receive and display a television signal broadcast by antenna, satellite, or cable. To qualify, the TV must be capable of being powered from either a wall outlet or a battery unit that is sold with an AC adapter. For purposes of this agreement, this definition includes analog and digital televisions in addition to televisions that require additional power to receive and process signals that contain information and/or data for electronic programming guides. Television products with a tuner/receiver and computer capability (e.g., computer input port) may qualify as ENERGY STAR under this specification as long as they are marketed and sold to consumers as televisions (i.e., focusing on television as the primary function). However, products with a tuner/receiver and computer capability that are marketed and sold as 1) computer monitors or 2) dual function televisions and computer monitors are not included in this specification.
 - B. **Television Monitor:** An electronic product intended to display a video signal from an external tuner or other video source such as a VCR or DVD Player on a CRT, LCD, plasma display, or other display device. To qualify, the television monitor must be capable of being powered from either a wall outlet or a battery unit that is sold with an AC adapter. For purposes of this agreement, this definition includes analog and digital television monitors. Television monitors with computer capability (e.g., computer input port) may qualify as ENERGY STAR under this specification as long as they are marketed and sold to consumers as television monitors (i.e., focusing on television/video as the primary function). However, products with computer capability that are marketed and sold as 1) computer monitors or 2) dual function television and computer monitors are not included in this specification.
 - C. **Digital Cable-Ready (DCR) TV with Point of Deployment (POD) Slot:** A TV with at least one digital tuner (e.g., DSS, VSB or QAM) or at least one digital video input (e.g., IEEE 1394, DVI, iLink) which also incorporates a removable Point of Deployment (POD) slot. The removable POD separates a DCR TV from the cable operator's proprietary conditional access system, thereby enabling portability of the host to other cable networks.
 - D. **Videocassette Recorder/Videocassette Player (VCR):** An electronic product designed to play and/or record video tape. To qualify, the VCR must be capable of being powered from either a wall outlet or a battery unit that is sold with an AC adapter. For purposes of this agreement, this definition includes analog and digital videocassette recorders/videocassette players.
 - E. **TV/VCR Combination Unit:** A system in which the TV and VCR are combined into a single unit and which meets all of the following criteria: the VCR is included in the television casing; it is not

possible to measure the power requirements of the two components separately without removal of the television casing; and the system is connected to the wall outlet through a single power cable. To qualify, the TV/VCR must be capable of being powered from either a wall outlet or a battery unit that is sold with an AC adapter. For purposes of this agreement, this definition includes analog and digital TV/VCRs.

- F. TV/DVD Combination Unit: A system in which the TV and DVD are combined into a single unit and which meets all of the following criteria: the DVD is included in the television casing; it is not possible to measure the power requirements of the two components separately without removal of the television casing; and the system is connected to the wall outlet through a single power cable. To qualify, the TV/DVD must be capable of being powered from either a wall outlet or a battery unit that is sold with an AC adapter. For purposes of this agreement, this definition includes analog and digital TV/DVDs.
- G. VCR/DVD Combination Unit: A system in which the VCR and DVD are combined into a single unit and which meets all of the following criteria: it is not possible to measure the power requirements of the two components separately without removal of the casing; and the system is connected to the wall outlet through a single power cable. To qualify, the VCR/DVD must be capable of being powered from either a wall outlet or a battery unit that is sold with an AC adapter. For purposes of this agreement, this definition includes analog and digital VCR/DVDs.
- H. TV/VCR/DVD Combination Unit: A system in which the TV, VCR, and DVD are combined into a single unit and which meets all of the following criteria: the VCR and DVD are included in the television casing; it is not possible to measure the power requirements of any of the components separately without removal of the television casing; and the system is connected to the wall outlet through a single power cable. To qualify, the TV/VCR/DVD must be capable of being powered from either a wall outlet or a battery unit that is sold with an AC adapter. For purposes of this agreement, this definition includes analog and digital TV/VCR/DVDs.
- I. Component Television Unit: A television system composed of two or more separate components (e.g., display device, tuner, and power supply or display device and tuner/power supply) marketed and sold as a television under one model or system designation. The system may have more than one power cord. For purposes of meeting the standby power criteria, the total standby power for the system is considered. To qualify, the Component Television Unit must be capable of being powered from either a wall outlet or a battery unit that is sold with an AC adapter. For purposes of this agreement, this definition includes analog and digital Component Television Units.

Component TV units with computer capability (e.g., computer input port) may qualify as ENERGY STAR under this specification as long as they are marketed and sold to consumers as televisions (i.e., focusing on television as the primary function). However, component units with a tuner/receiver and computer capability that are marketed and sold as 1) computer monitors or 2) dual function televisions and computer monitors are not included in this specification.

- J. Analog: For purposes of this agreement, analog units have an NTSC, PAL, or SECAM tuner and may have analog video inputs (e.g., composite video, component video, S-video, RGB).
- K. Digital: For purposes of this agreement, digital units include at least one digital tuner (e.g., DSS, VSB or QAM) or at least one digital video input (e.g., IEEE 1394, DVI, iLink). Products with an analog tuner and both analog and digital inputs should be considered digital units.
- L. Electronic Programming Guide (EPG): An interactive, onscreen menu of TV listings that downloads program information (e.g., time, date, description of TV programs, etc.) from the vertical blanking interval of a regular TV signal.
- M. Standby Power/Mode: Standby power use depends on the product being analyzed. At a minimum, standby power includes power used while the product is performing no function. For many products, standby power is the lowest power used while performing at least one function.

Standby power use occurs during what is referred to as the standby mode of the product. Specifically, for this specification, standby power is defined as the power being used when the product is connected to a power source, produces neither sound nor picture, does not transmit nor receive program information and/or data (excluding data transmitted to change the unit's condition from "standby mode" to "active mode"), and is waiting to be switched to "on" (active/play mode) by a direct or indirect signal from the consumer, e.g., with the remote control.

- N. **Download Acquisition Mode (DAM):** The product is connected to a power source, may be producing sound and/or picture, and is downloading channel listing information according to a defined schedule for use by the electronic programming guide. The power requirement in this mode is typically greater than the power requirement in standby mode and less than that in active mode.
- O. **Active/Play ("On") Mode:** The product is connected to a power source, produces sound and/or picture, and/or records or plays a videotape or DVD. The power requirement in this mode is typically greater than the power requirement in standby mode.
- P. **Off Mode:** An operating condition where the product is still plugged into the mains, but has been disconnected from an external power source. This mode is usually engaged by the consumer via a "hard off switch." This mode (and hard off switch) is usually found outside the US market.
- Q. **Disconnect:** The product has been unplugged from the mains and therefore is disconnected from all external power sources.

2) Qualifying Products: Any TV, TV with EPG, VCR, DCR TV with POD slot, TV/VCR, TV/DVD, VCR/DVD, TV/VCR/DVD, Television Monitor, or Component Television Unit that is marketed to the consumer as such and meets the respective product type definition in Section 1 is eligible to earn the ENERGY STAR. As explained in Sections 1.A., 1.B., and 1.H., this specification does not cover products with computer capability that are marketed and sold as 1) computer monitors or 2) dual function televisions and computer monitors.

3) Energy-Efficiency Specifications for Qualifying Products: Only those products listed in Section 2 that meet the following criteria may qualify as ENERGY STAR.

Table 1: Energy-Efficiency Criteria for ENERGY STAR Qualified TVs, VCRs, DCR TVs with POD Slots, TV/VCRs, TV/DVDs, VCR/DVDs, TV/VCR/DVDs, Television Monitors, and Component Television Units.

Product Category	Phase I Standby Mode (effective 7/1/02)	Phase II Standby Mode (effective 7/1/04)	Phase III Standby Mode (effective 7/1/05)
TV	≤ 3 Watts	Analog: ≤ 1 Watt *Digital: ≤ 3 Watts	≤ 1 Watt
VCR	≤ 4 Watts	≤ 1 Watt	≤ 1 Watt
Television Monitor	Analog: ≤ 1 Watt Digital: ≤ 3 Watts	→	≤ 1 Watt
Component Television Unit	≤ 3 Watts	→	≤ 1 Watt
TV/VCR Combination Unit	≤ 6 Watts	→	≤ 1 Watt
TV/DVD, VCR/DVD, and TV/VCR/DVD Combinations	≤ 4 Watts	→	≤ 1 Watt
DCR TVs with POD Slots	No POD Installed: ≤ 3 Watts POD Installed: ≤ 15 Watts	→	→

Illuminated Display Allowance: Under Phase III, manufacturers may add an additional 1 Watt to the 1-Watt specification for VCRs, TV/VCR Combination units, TV/DVD Combination units, VCR/DVD Combination units, and TV/VCR/DVD Combination units with an illuminated or backlit display (e.g., clock) or other electronic status indicator (e.g., recording status or video mode indicator). For example, a TV/DVD Combination unit *with an illuminated display* must consume 2 Watts or less to qualify for ENERGY STAR beginning July 1, 2005. All other TV/DVD Combination units must consume 1 Watt or less to qualify.

***NOTE:** This allowance does not apply to Analog or Digital TVs, Analog or Digital Television Monitors, Component Television Units, and DCR TVs with POD Slots under Phase III.

Table 2: Energy-Efficiency Criteria for ENERGY STAR Qualified TVs with built-in EPG.		
Product Type	Standby Mode (effective TBD)	Download Acquisition Mode (effective TBD)
TV w/ built-in EPG	TBD through EPG Industry Working Group	TBD through EPG Industry Working Group

4) Power Measurement: Manufacturers are required to perform tests and self-certify those product models that meet the ENERGY STAR guidelines. The power requirement shall be measured from the outlet or power supply source to the product under test. The Partner shall measure the average true power (in watts) of the product. When performing measurements to self-certify a product model, the products under test must be in the condition (e.g., configuration and settings) shipped to the customer.

5) Test Criteria: To ensure consistency in measuring the power requirements for electronics products, this protocol should be followed. Outlined in Section A are the ambient test conditions that should be respected when performing power measurements. These conditions ensure that outside factors do not affect the test results and that the test results can be reproduced. Sections B and C describe the specifications for testing equipment and the test method, respectively. Section D reviews responsibilities, while Section E covers continuing verification.

A. Test Conditions

General Criteria:

Total Harmonic Distortion (Voltage):	< 3% THD
Ambient Temperature:	22°C ± 4°C

Terminations: External speaker terminals terminated per 3.6.2.2 (IEC 107-1)

Market-Specific Criteria:

Market:	United States	Europe and Australia	Japan
Voltage:	115 V RMS ± 3 V RMS	230 V RMS ± 10 V RMS	100 V RMS ± 5 V RMS & 200 V RMS ± 10 V RMS
Frequency:	60 Hz ± 3 Hz	50 Hz ± 3 Hz	50 Hz ± 3 Hz & 60 Hz ± 3 Hz

Note: Testing needs to be done only at a voltage and frequency in the above range. It is not necessary to test all combinations of high voltage/low frequency, high voltage/high frequency, etc.

B. **Test Equipment:** Manufacturers should measure and report the true standby power¹ requirements of the product. Doing so necessitates the use of a true power wattmeter. Because there are many wattmeters from which to choose, manufacturers need to exercise care in selecting an appropriate model. The following items should be considered when procuring equipment and performing the test:

1. AC Power Source (with sufficient output current for the test unit that meets the requirement for AC line voltage, frequency stability, and THD).
2. True Power Meter (with sufficient accuracy, resolution, crest factor rating, and bandwidth).
3. Oscilloscope with Current Probe (to monitor AC line current waveform, amplitude, and frequency. Optional but recommended).
4. True RMS Volt Meter (to verify voltage at the input of test unit. Optional if AC source output is sufficiently accurate).
5. Frequency Counter (to verify frequency at the input of test unit. Optional if AC source output is sufficiently accurate).

Crest Factor: Electronics equipment may draw current that is not sinusoidal.² While virtually any watt meter can measure a standard current waveform, it is more difficult to select a watt meter when irregular current waveforms are involved.

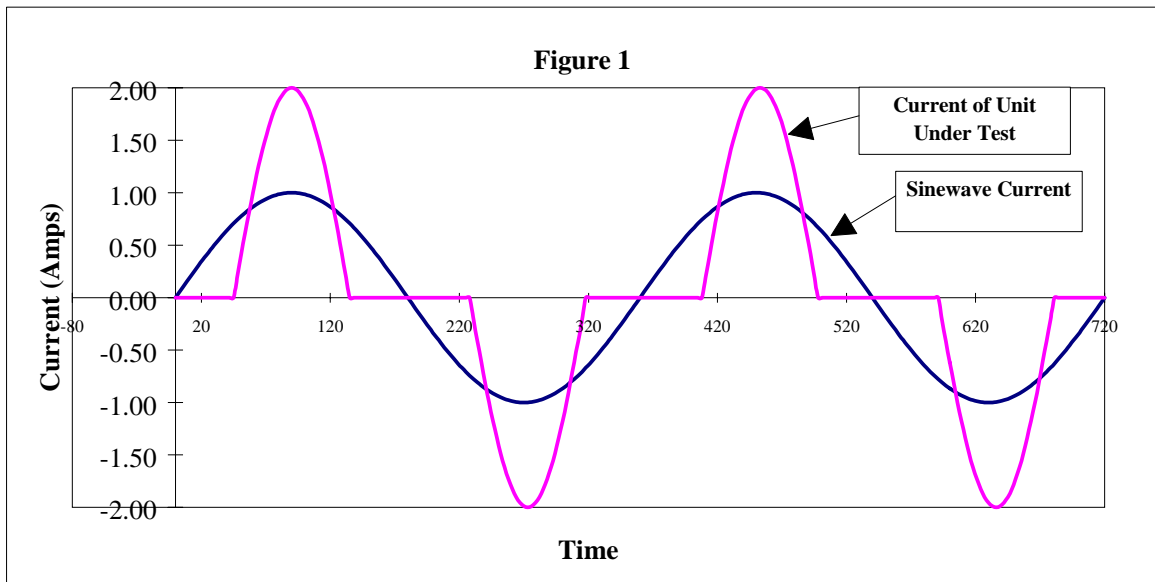
It is critical that the wattmeter selected be capable of reading the current drawn by the product without causing internal peak distortion (i.e., clipping off the top of the current wave). This requires a review of the meter's crest factor rating and the current ranges available on the meter. Better meters will have higher crest factor specifications and more choices of current ranges.

To determine the crest factor rating requirement of the meter and the proper current range settings, the peak current (amps) draw of the product under test in standby mode must first be measured. This can be accomplished using an oscilloscope with a current probe.

A current range on the meter must be selected that is sufficient to register the peak current. Specifically, the full scale value of the current range selected multiplied by the crest factor of the meter (for current) must be greater than the peak current reading from the oscilloscope by at least 15 percent to compensate for any measurement error. (Note: It is difficult to measure within 5 percent using an analog oscilloscope.) For example, if a wattmeter has a crest factor of 4 and the current range is set on 3 amps, the meter can register current spikes of up to 12 amps. If measured peak current is only 6 amps, the meter would be satisfactory. If, however, the current range is set too high, the meter may lose accuracy in measuring non-peak current. Therefore, some delicate balancing is necessary. Make sure that the crest factor is given for the current level that you desire for the meter that you are considering.

¹ True power is defined as (volts)x(amps)x(power factor) and is typically reported as watts. Apparent power is defined as (volts)x(amps) and is usually expressed in terms of VA or volt-amps. The power factor for equipment with switching power supplies is always less than 1.0; therefore, true power is always less than apparent power.

² The crest factor of a current waveform is defined as the ratio of the peak current (amps) to the RMS current (amps). The crest factor for a sinusoidal 60 Hz current waveform is always 1.4. The crest factor for a current waveform associated with a product containing a switching power supply will always be greater than 1.4 (though typically no higher than 8).



Frequency Response: Another issue to consider when selecting a wattmeter is the frequency response rating of the meter. Electronic equipment may cause harmonic waveforms that can lead to inaccuracies in the power measurements. For example, electronics equipment powered by switching power supplies typically produces odd harmonics up to the 21st. To ensure that the harmonics are properly addressed, ENERGY STAR recommends the use of a wattmeter with frequency response of at least 3 kHz. This will account for harmonics up to the 50th, which is recommended by IEC 555.

Resolution: Manufacturers should choose a wattmeter that can provide resolution of 0.1 W.

Accuracy: Catalogues and specification sheets for wattmeters typically provide information on the accuracy of power readings that can be achieved at different range settings. If the power measurement is very close to the energy-efficiency guideline specified in these Program Requirements (Eligibility Criteria), a test procedure with greater accuracy will be necessary. For example, if the ENERGY STAR specification is 1.0 watt or less *and* the resulting accuracy of the wattmeter at the test settings is ± 0.1 watts, then a power measurement of less than 0.9 watts will ensure that the product qualifies for ENERGY STAR.

Calibration: To maintain their accuracy, wattmeters should be calibrated every year with a standard that is traceable to the US National Bureau of Standards (NBS).

- C. **Test Method:** Following are the test steps for measuring the true power requirements of the test unit in standby mode:
1. Power on all test equipment and properly adjust operation range.
 2. Connect the test equipment and unit under test.
 3. Check for normal operation of the test unit and leave all customer adjustment to factory default settings.
 4. Bring the test unit into standby mode (not off mode) either by using the remote control device or by using the ON/OFF switch on the test unit cabinet.
 5. Either verify that the wall outlet power is within specifications or adjust the AC power source output as described in Section A (e.g., 115Vrms \pm 3Vrms, 60Hz \pm 3Hz).
 6. Set the power meter current range. The full scale value selected multiplied by the crest factor rating ($I_{\text{peak}}/I_{\text{rms}}$) of the meter must be greater than the peak current reading from the oscilloscope.

7. After the unit under test reaches operating temperature and the readings on the power meter stabilize (approximately 90 minutes), take the true power reading in watts from the power meter.
 8. Record the test conditions and test data. The measurement time shall be sufficiently long to measure the correct average value to within a +10% - 0% error. If the device has different standby modes that can be manually selected, the measurement should be taken with the device in the most energy consumptive mode. If the modes are cycled through automatically, the measurement time should be long enough to obtain a true average that includes all modes.
- D. Responsibilities: ENERGY STAR's test criteria are not mandatory, but they will be distributed to outside parties such as buyers and the press. Following the test criteria and producing accurate test results will assist manufacturers in qualifying products as ENERGY STAR. Companies may determine the appropriate level of stringency and accuracy for their own testing based on their specific products.
- E. Continuing Verification: This testing procedure (protocol) describes the method by which a single unit may be tested and qualify for ENERGY STAR. An ongoing testing process is highly recommended to ensure that products from different production runs qualify for ENERGY STAR. A model may qualify as ENERGY STAR if testing indicates that 95 percent of the units sold under this model name/number will meet the specifications contained in these Program Requirements (Eligibility Criteria).

6) Effective Date: The date that manufacturers may begin to qualify products as ENERGY STAR will be defined as the *effective date* of the agreement. Any previously executed agreement on the subject of ENERGY STAR qualified TVs, VCRs, and TV/VCRs shall be terminated effective June 30, 2002.

A. TVs, VCRs, DCR TVs with POD Slots, Combination Units, Television Monitors, and Component Television Units

1. Phase I: The first phase of this specification, Phase I, shall commence on July 1, 2002. Upon signing this agreement, the Partner may begin to use the ENERGY STAR mark on product models, packaging, and other product-related materials that meet the Phase I specifications.

Any individual product models that were qualified by the Partner as ENERGY STAR under the previous Version 1.0 agreement may continue to be labeled with the ENERGY STAR mark (on the model, packaging or other product-related materials) in future production runs as long as 1) they meet the new Phase I specifications, or 2) if they don't meet the new specifications, their date of manufacture must be on or before June 30, 2002.

2. Phase II: The second phase of this specification, Phase II, shall commence on July 1, 2004. Specifications for Phase II shall apply to products with a date of manufacture after June 30, 2004. For example, a model qualified as ENERGY STAR on June 1, 2004 under the Phase I specification with a date of manufacture of June 15, 2004 may carry the mark as it filters through the distribution chain. However, a model with a date of manufacture of July 2, 2004 must meet the Phase II specification in order to qualify as ENERGY STAR.
3. Phase III: The third phase of this specification, Phase III, shall commence on July 1, 2005. Specifications for Phase III shall apply to products with a date of manufacture after June 30, 2005.
4. Grandfathering: Under Version 2.0 and its subsequent revisions, ENERGY STAR has made a significant change with regard to product qualification and labeling during specification transitions. **Please note that ENERGY STAR qualification is not automatically granted for the life of the product model as previously allowed under Version 1.0's grandfathering language.** To carry the ENERGY STAR mark, a product model must meet the ENERGY STAR specification in effect on the model's date of manufacture. For Phase I-III specifications and effective dates, refer to Table 1 in Section 3 above.

B. TVs with Built-in EPGs: The ENERGY STAR TV with built-in EPG specification shall commence on a **date to be determined with industry through the EPG Working Group**.

7) Future Specification Revisions: ENERGY STAR reserves the right to change the specification should technological and/or market changes affect its usefulness to consumers, industry, or the environment. In keeping with current policy, revisions to the specification are arrived at through industry discussions.