

HP General Specification for the Environment (GSE) Revision History

HP Standard 011-0 General Specification for the Environment (GSE) - Overview

Revision M, 07-Aug-2009

- Updated revision information to be consistent with other sections of this standard series. No technical changes were included in this section.

Revision L, 01-Aug-2008

- Updated Abstract and Scope to be consistent with other GSE documents, including the term "HP owned brand products."
- Added the Supplier Verification clause (taken from the GSE Restricted Materials standard) so it applies to all GSE requirements.
- Added reference to new HP Standard 011-4 GSE Product Requirements.
- Deleted references to HP Standard 011-3 GSE Battery Requirements, which has been incorporated into the GSE Restricted Materials Standard and the new GSE Product Requirements Standard.

Revision K, 10-Sep-2007

- Added minor updates for clarity.
- Deleted Applicability (section 3) and references to bundled products.
- Added statements identifying that the HP brand includes the Compaq brand and that non-HP brand must comply with applicable legal requirements.
- Updated URLs as needed.

No Revision J was issued, to align all documents to the same revision letter.

Revision H1, 20-Oct-2006

- Made clerical change to update the document owner and group name.
- Deleted the old HP drawing number from title.

Revision H, 19-Jul-2005.

- Renumbered and reformatted A-5951-1745-1 document to HP-00011-00. Revision H was the first revision of this document.
- Reworded and clarified introductory text.

HP Standard 011-1 General Specification for the Environment - Restricted Materials

Revision M, 07-Aug-2009

- Added Switzerland's built-in battery cadmium and lead requirements
- Added arsenic
- Brominated Flame Retardants: added restriction for PC boards and substrate laminates.
- Deleted one cadmium exemption
- Added dimethylfumarate (DMF)
- Added Di- μ -oxo-di-n-butylstanniohydroxyborane (DBB)
- Updated formaldehyde requirement (excluding pallets and wood packaging)
- Added halogenated diphenyl methanes back in
- Added separate fluorinated greenhouse gases requirement
- Deleted four Lead exemptions
- Deleted Mercury exemptions and added Mercury in Fluorescent lighting limits
- Updated ODS, HFC and PFC tables to match the JIG

- Removed 5 ppm limit from polychlorinated naphthalenes and tributyl tin compounds
- Added phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)
- Added Chlorinated Flame Retardants (CFRs) to the Polyvinyl Chloride (PVC) section
- Added Wood, Paper, and other Plant-based Products requirement based on Lacey Act
- Added reference to RoHS supplementary information specification
- Updated CAS numbers as needed
- Updated references and internal links as needed

Revision L, 01-Aug-2008

- Changed Compaq brand to HP owned brand in Scope
- Incorporated existing battery material requirements into this standard.
- Deleted the Hg in carbon-zinc battery restriction and added alkaline zinc to existing alkaline-manganese restriction.
- Deleted 0.4% lead restriction for rechargeable type batteries because this is no longer a regulation.
- Added remaining uses of brominated flame retardants and PVC as requirements for parts, components, materials or products when specified in HP product and component specifications.
- Changed and added formaldehyde requirements to align with the regulations
- Removed halogenated diphenyl methanes since they do not apply to HP products
- Added the lead in RIG Faraday rotators exemption.
- Added new ozone depleting substances (HFCs, Table 6) and all ODS restricted from products and use in the manufacturing process
- Added the PAH requirement (based on German GS marking)
- Changed the PCB and PCT limit to 50 ppm from 5 ppm
- Moved the plastic marking requirements to the new product requirements standard
- Added a note that biphenyl is used interchangeably with diphenyl to Table 2
- Added four regulated chlorinated hydrocarbons to Table 3
- Added a table of radioactive substances (Table 9)
- Revised the chemical substance requirements and added new requirements
- Updated the References section and renumbered the tables throughout.

Revision K, 10-Sep-2007

- Added statement that all references to HP brand products in the GSE include Compaq brand products.
- Redefined homogenous material to align with the UK guidance.
- Added perfluorooctane sulfonates (PFOS) restriction.
- Revised the nickel restriction to align with the regulation.
- Incorporated the TBBP-A interim specification and redefined the restriction for all brominated flame retardants in external case plastic parts of products.
- Combined all the lead restrictions into one section.
- Incorporated the details to lead in PVC cables (proposition 65) specification.
- Removed the "Lead in Polyvinyl Chloride (PVC) Coating for internal cables" since this is covered under the RoHS lead restriction.
- Re-alphabetized the substances and renumbered the sections in paragraph 3.0.
- Updated URLs as needed.

Revision J, 20-Oct-2006

- Added HP RoHS Compliance Interim Specification restrictions.

- Changed the Certain Azo Colorants restriction to 30 ppm, from 1000 ppm, to comply with regulations.
- Updated the TBBP-A interim specification and linked with the brominated flame retardant section.
- Clarified that the restrictions all apply at the homogenous material level.

Revision H, 19-Jul-2005

- Renumbered and reformatted A-5951-1745-1 document to HP-00011-01.
- Changed the PVC requirement by dropping the 5 ppm limit and maintaining the “must not be used in external housings” requirement.
- Clarified the azo colorants table description
- Corrected CAS numbers and element names as needed, and added reference to the Montreal Protocol.

HP Standard 011-2 General Specification for the Environment - Packaging Requirements

Revision M, 07-Aug-2009

- Deleted Formaldehyde limits in wood packaging in Section 3.8.
- Added Section 3.9, Secondary Packaging Restrictions.
- Added Section 3.10 Wood, Paper, and other Plant-based Packaging restrictions.

Revision L, 01-Aug-2008

- Updated Scope for consistency with other GSE sections.
- Added reference to Supplier Verification.
- Added a Formaldehyde emission requirement for wood materials in Section 3.8.

Revision K, 10-Sep-2007

- Clarified that methyl bromide sterilization must not be used.
- Changed the PVC requirement statement, eliminating PVC as an acceptable packaging material.
- Added that all materials used in the packaging systems must be recyclable.
- Added exemption for small parts in General Material Coding (section 3.6).
- Added China-specific labeling requirements.
- Updated and clarified information on Japan, South Korea, Taiwan, and Slovakia labeling requirements.
- Updated Abstract, Applicability, and Scope for consistency with other GSE sections.

No Revision J was issued, to align all documents to the same revision letter.

Revision H, 19-Jul-2005

- Renumbered and reformatted A-5951-1745-1 document to HP-00011-02.
- Changed the PVC requirement statement by dropping the 5 ppm limit and maintaining the “must not be used in new package designs” requirement.
- Clarified the Taiwan requirements
- Deleted the Green Dot requirements.

HP Standard 011-3 General Specification for the Environment - Battery Requirements

This document was inactivated on 01-Aug-2008 and is no longer available.

Revision K, 10-Sep-2007

- Added statement that non-rechargeable type batteries must not contain lead exceeding 0.2% (2000 ppm) by weight, and non-rechargeable alkaline and carbon-zinc batteries must be hermetically sealed (new section 3.4).
- Revised paragraphs 3.1.2 and 3.1.3 to capture U.S. based restrictions on mercury in alkaline-manganese and zinc-carbon batteries at 0.0001% (1 ppm).
- Added statement that non-rechargeable alkaline and carbon-zinc batteries must be labeled with the battery manufacturer's brand name, model designation, expiration date (month and year) and country of origin.
- Added statement that all types of batteries must be labeled with a CENELEC style "crossed out wheelee bin" effective September 26, 2008
- Deleted the note that labeling requirement for The Netherlands must also be met (see section 4.2).
- Updated title of newly revised specification "HP Requirements for Lithium and Lithium-Ion Cells, Batteries, and Battery Packs" in paragraph 3.5.2.
- Updated Abstract, Applicability, Scope, and General statements for consistency with other GSE sections.

No Revision J was issued, to align all documents to the same revision letter.

Revision H1, 20-Oct-2006

- Made clerical change to identify new owner and group name.

Revision H, 19-Jul-2005

- Renumbered and reformatted A-5951-1745-1 document to HP-00011-03.
- Added references to transporting dangerous goods regulations and a correction of the Form 4 symbol.

HP Standard 011-4 General Specification for the Environment – Product Requirements

Revision M, 07-Aug-2009

- Requirements for statements in electronic media, software, or paper added throughout.
- Added new sections:
 - China, Korea energy efficiency labels Sections 3.3.2, 3.3.3, 3.3.4
 - Canada Product Substance Content label Section 3.4.4
 - Product Packaging Labels Section 3.5
 - Turkey RoHS Notices Section 4.2.6
 - Energy Efficiency User documentation Section 4.3
 - Lacey Act Plant and Plant Product Declaration Section 5.2
 - Product Energy Registration Section 6.2
 - Turkey Battery Registration Section 6.1.3
 - Energy Efficiency for EU, EPSs, China, and Korea Sections 7.1.4 through 7.1.7
- Updated the following:
 - Exception for Europe battery label
 - Battery Label table
 - WEEE Wheeled Bin label conditions
 - End of Life Labels: Shorter WEEE statement added.
 - EPS label requirements
 - California take-back notice section
 - Battery Registration requirements for Taiwan
 - Worst case power requirements for EPSs Tables 14 and 15
 - Changed the term "Wheelee bin" to "wheeled bin"
 - Japan and China RoHS label and user notice clarifications
 - Clarification of US Mercury Containing Product label

- References
- Appendixes – new Korea RoHS Compliance Declaration in table 24 and added references in Tables 20 and 21.
- Deleted Section 3.1.8, Rechargeable Battery Recycling Corporation label–North America

Revision L, 01-Aug-2008

- Initial release. This document was released at Revision L to be consistent with other standards in this series. It was created to capture all product environmental requirements that are not covered in the GSE Restricted Materials and Packaging Sections.
- Requirements previously specified in the Battery section of the GSE (HP Standard 011-3), the Design for Recyclability Standard (HP Standard 007-1), and the PSG Design for Environment Standard series have been incorporated into this document. Material restrictions for batteries have been incorporated into the Restricted Materials section of the GSE (HP Standard 011-2).
- New requirements include product end-of-life labeling, energy efficiency labeling, substance content labeling, regulatory notices and declarations, and product performance requirements (energy efficiency).

The GSE documents were previously released as **A-5951-1745-1 Revision G, General Specification for the Environment**. In July 2005, that specification was divided into four sections and renamed and renumbered to be HP Standards.