

# Green Procurement Standards

ULVAC Group

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# Introduction

The ULVAC Group views the preservation of the global environment to be one of the important challenges facing humanity. In all areas of its business activities, using the technology that we have developed so far as well as the technology that we will develop going forward, the ULVAC Group contributes to the improvement of environmental preservation and to the progress of realizing a more livable planet and enriching all of society.

Specifically, we will consider the environment when developing, designing, and manufacturing products as well as when products are used by customers, when providing maintenance and other services, and all the way through to product disposal, thereby contributing to the establishment of a recycling society based on the following clearly defined points of our Environmental Policy:

1. Conserve energy, reduce use of natural resources, and protect the environment in manufacturing processes,
2. Conserve energy, reduce use of natural resources, and protect the environment when developing products (systems and their components), and
3. Provide products that can contribute to energy conservation, reduced use of natural resources, and environmental protection.

To provide environmentally-friendly products and services, procurement of materials that impose less of a burden on the environment (i.e., "Green Procurement") is essential in the procurement stage. The ULVAC Group positions green procurement as a key means of achieving its environmental policy. In November 2003, we developed the "Green Procurement Standards" and we are committed to activities to procure environmentally-friendly materials.

Today, legal regulations for environmental initiatives in Europe and other areas, such as the WEEE Directive and RoHS Directive, are becoming increasingly strict while social demands for such initiatives are becoming increasingly strong. Given such circumstances, the ULVAC Group will incorporate these directives and demands into the Green Procurement Standards and set voluntary goals to ensure implementation of green procurement.

Based on recognition that green procurement is an important responsibility that companies should assume, the ULVAC Group conducts a survey and assessments of business partners and items to purchase with regard to environmental burden.

Implementing such activities is difficult without the consent of our business partners. We appreciate their understanding and cooperation, which we will value with the intent of promoting further collaboration.

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# **I. The ULVAC Group's Environmental Activities**

## **1. "Basic Environmental Philosophy" and "Environmental Action Guidelines"**

### **1-1. Basic Environmental Philosophy**

The ULVAC Group views the preservation of the global environment to be one of the important challenges facing humanity. By giving consideration to environmental preservation in all areas of its business activities, including manufacturing processes and products, and by providing products to society that can contribute to environmental preservation, the ULVAC Group contributes to the progress of realizing a more livable planet and enriching all of society.

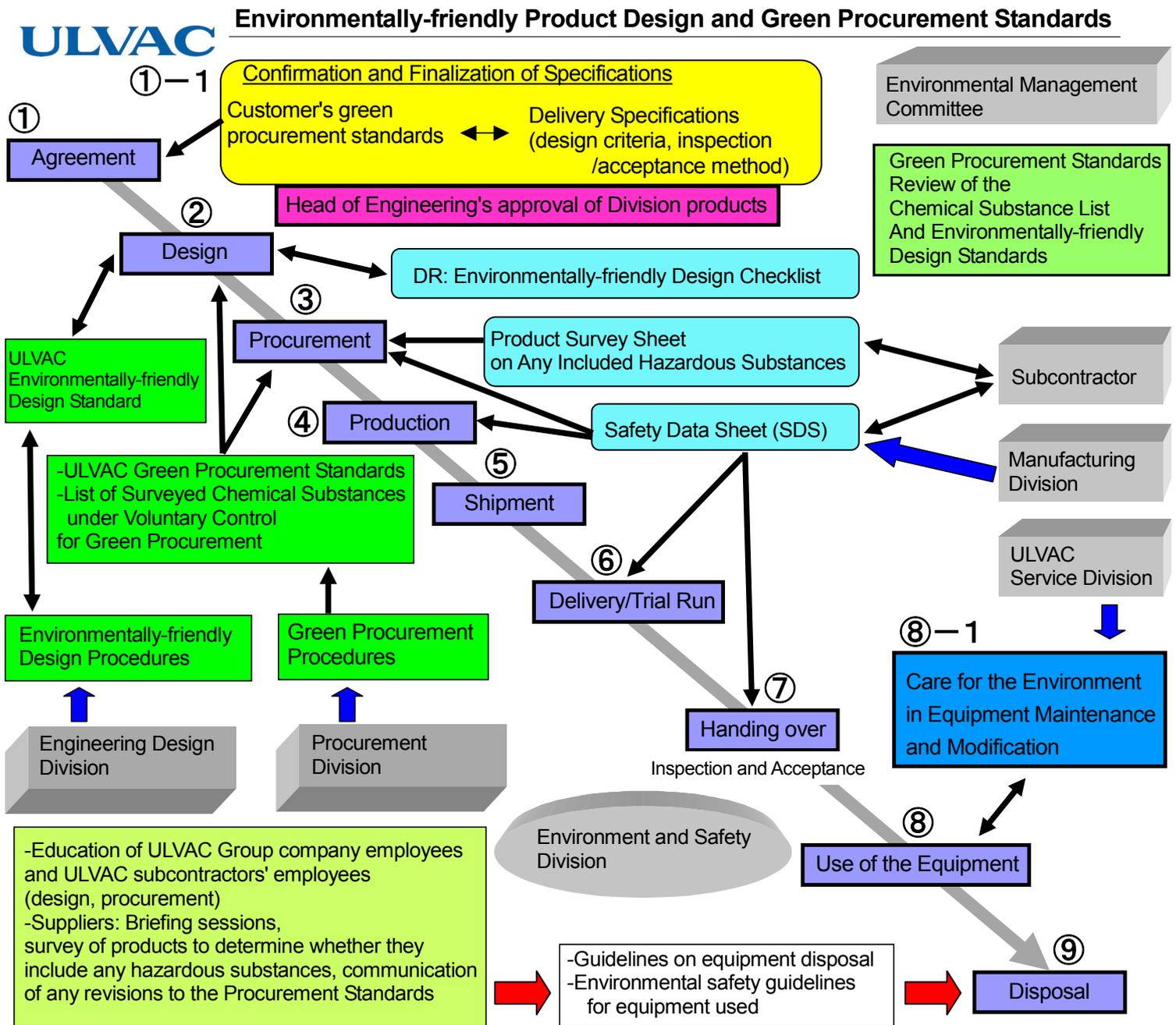
### **1-2. Environmental Action Guidelines**

- (1) The ULVAC Group designs, manufactures, sells, and repairs electronic device production equipment, semiconductor device production equipment, industrial equipment, and research and development equipment and their components, as well as conducts other business activities related to advanced materials, device control, surface analysis, coating, and so forth. The Group endeavors to reduce the environmental burden resulting from these activities.
- (2) In order to review and enhance our organizations and operation to achieve environmental management, the ULVAC Group will continue to review and improve our environmental management system.
- (3) The ULVAC Group aims to improve environmental preservation in our business activities. In these efforts, the Group will identify activities that adversely do or may affect the environment and aim to achieve the voluntary management standards that we set out, as well as to observe public standards, including environmental laws and regulations.
- (4) The ULVAC Group endeavors to reduce the environmental burden resulting from manufacturing processes and products. These efforts are part of contamination prevention under our basic policies of reducing use of natural resources, promoting energy conservation, and reducing waste.
- (5) The ULVAC Group contributes to environmental protection by pursuing the development of environmentally-friendly products in a proactive manner and by extensively providing such products to society.
- (6) To implement the policy, the ULVAC Group sets out environmental objectives and goals based on the requirements of laws and regulations, our perspective of the environment, opinions of stakeholders, and so forth. In addition to regularly reviewing environmental objectives and goals, the Group implements environmental management activities within the range technically and economically feasible.
- (7) While implementing and maintaining the policy through the environmental management system, the ULVAC Group endeavors to improve the environmental management level by communicating the policy to all employees through environmental education provided to raise their awareness. In addition, the Group makes the policy available to the public.

## 2. Environmentally-friendly Product Design

In accordance with the Basic Environmental Philosophy and Environmental Action Guidelines, the ULVAC Group is committed to reducing environmental burdens by taking into consideration the product lifecycle through our efforts to achieve environmentally-friendly design (in business activities and products) as a business operator and through collaboration with parties concerned.

The Group considers all these activities to be part of "environmentally-friendly design."



## II. Concept of Green Procurement in the ULVAC Group

### 1. Purpose and Scope of Application

#### 1-1. Purpose of Green Procurement

The ULVAC Group aims to deliver environmentally-friendly products to customers, preserve the global environment, and establish a recycling society by carrying out environmentally conscious business activities as well as developing and designing products that impose less of a burden on the environment.

#### 1-2. What Is Green Procurement?

Green procurement refers to the procurement of products, services, and so on that impose less of a burden on the environment by achieving reduced volume, longer service lives, recycling, degradability, ease of disposal, energy conservation, and so on from suppliers who are proactively committed to environmental conservation activities.

#### 1-3. Scope of Application of Green Procurement

This standards document applies to all suppliers of the ULVAC Group and procurement activities for all items to be delivered from such suppliers.

\* Items to be procured include raw materials and other materials, parts, units, and packing materials to be incorporated into ULVAC products as well as gasses, drugs, equipment (including accessory parts), and so on used in ULVAC Group manufacturing processes.

Note that among all items to be procured, we may investigate raw materials and other materials, parts, units, and packing materials to be incorporated into ULVAC products ("**production materials**") as to whether they contain substances that are hazardous to the environment.

### 2. Green Procurement Promotion Standards

As part of promoting green procurement, the ULVAC Group confirms whether the levels of suppliers' environmental preservation activities meet the criteria and whether suppliers contribute to environmental preservation efforts.

We ask our suppliers to proactively cooperate to meet the criteria contained in this Standards Document.

#### 2-1. Matters Related to Environmental Preservation Activities Performed by Suppliers to the ULVAC Group

In addition to the existing procurement criteria, such as matters related to quality (Q), cost (C), and delivery (D), the ULVAC Group positions suppliers' environmental efforts (E) as one of our procurement criteria; when doing business, we prioritize suppliers who make greater environmental efforts. The following describes the selection/evaluation criteria related to suppliers' environmental efforts (E).

- 1) The supplier has built an ISO 14001 Environmental Management System (EMS) that has been certified by a third party or has a plan to have such a system certified.  
We consider the Eco-Management and Audit Scheme (EMAS, Regulation of the Council of European Union "Environmental Audit and Audit Scheme") certification and the Kyoto Environmental Management System Standard (KES) certification to be equivalent to the ISO 14001 certification.
- 2) If the supplier does not have ISO 14001 or equivalent certification, the supplier's efforts must fulfill the following criteria.
  - (1) The supplier has a "corporate philosophy," "policy," "voluntary standards and targets," and "implementation plan for achieving the policy and targets" for environmental preservation.
  - (2) The supplier has assigned a person to be responsible for environmental preservation management and established an organization, committee, and so forth for environmental preservation efforts, and the supplier conducts appropriate environmental management with targets for reducing environmental burdens.
  - (3) The supplier observes laws and regulations related to environmental preservation.
  - (4) The supplier has an internal audit system for its environmental preservation efforts.
  - (5) The supplier makes environmental preservation efforts regarding the following matters proactively (a system exists and assessment is conducted based on voluntary criteria and operation of the system).

a. Energy management, b. Waste management, c. Chemical substance management, d. Environmental risk management, e. Product assessment (including environmentally-friendly design education), f.

Environmental preservation education

(6) The supplier has clearly defined a method for responding to emergency situations related to environmental preservation.

## **2-2. Matters Related to Environmental Preservation for Items Procured by the ULVAC Group**

Assessment of supplies is conducted from the following viewpoints with respect to the reduction of environmental burdens. We may ask suppliers to disclose the results of assessment of their supplies.

1) Matters related to the reduction of environmental burdens caused by supplies

(1) Effective use of resources

A. Resources are used with care.

a. Using less natural resources (e.g., water, woods, and metal), b. Reducing the amount of packing materials, c. Reducing materials used for manufacturing, d. Reducing waste matter from manufacturing and minimizing generated waste

B. Reuse is taken into consideration.

a. Ease of reuse, b. Longer service lives

C. Recyclability is considered (use of recycled materials, reuse of parts).

a. Degradability, ease of conducting the crushing process, and other ease of treatment/disposal are taken into consideration.

(2) Efficient use of energy

A. Efforts are made to minimize energy used throughout the entire lifecycle (manufacturing, transport, and other phases) of materials to be delivered.

B. Efforts are made to improve the energy efficiency of materials to be delivered, such as low power consumption and low standby power consumption.

(3) Provision of information

A. Environmental information on supplies is provided.

## **2-3. Matters Related to Chemical Substances Included in Supplies**

The ULVAC Group conducts a survey on the inclusion of chemical substances that are subject to Group-specified voluntary control in supplies as an effort to reduce the environmental burden imposed by such items.

1) Classification and handling of chemical substances under voluntary control

The chemical substances under voluntary control by the ULVAC Group are described in the List of Surveyed Chemical Substances under Voluntary Control for Green Procurement. These substances are grouped into Level I, "substances prohibited from use or attachment," and Level II, "chemical substances under voluntary control"

(1) Level I, "substances prohibited from use or attachment," are substances that significantly impact human health or ecosystems, the use of which is prohibited or restricted by national or international law, or prohibited by ULVAC Group's voluntary control, and consequently prohibited from use or attachment (hereafter, "use") in Group products.

(2) Level II, "chemical substances under voluntary control," are substances that do not fall under the Level I category but are targeted by national or international law or by ULVAC Group's voluntary control for which use should gradually be reduced. (This level includes some chemical substances that have a designated deadline for elimination.)

2) Revision of the "List of Surveyed Chemical Substances under Voluntary Control for Green Procurement"

The list is subject to change due to the future expansion of the body of knowledge as well as revisions and changes to laws and regulations. The ULVAC Group will revise the List of Surveyed Chemical Substances under Voluntary Control for Green Procurement as necessary to promote the most appropriate activities. For the latest content, please refer to our website.

### **III. Requests to Suppliers for Cooperation to Conduct the Survey**

The ULVAC Group is strengthening our efforts to deliver environmentally-friendly products to customers by using data on the status of suppliers' efforts toward environmental preservation and on substances posing environmental risks contained in materials supplied to the Group. The ULVAC Group may suspend business with suppliers who cannot meet our standards or meet the specified deadlines for establishing voluntary restrictions. The ULVAC Group asks each supplier to cooperate in conducting the following survey and in continuing to carry out environmental preservation activities toward the realization of a recycling society.

#### **1. Scope of the Survey**

##### 1-1. Suppliers' Efforts for Environmental Preservation Activities

- (1) All suppliers with whom the ULVAC Group does business

##### 1-2. Matters Related to Environmental Preservation Regarding Supplies

- (2) "Production materials" incorporated into ULVAC Group products

#### **2. Content of the Survey**

##### 2-1. Supplier's Efforts for Environmental Preservation Activities

- (1) As per the content of section II. 2. 2-1.

##### 2-2. Matters Related to Environmental Preservation Regarding Supplies

- (2) As per the content of section II. 2. 2-3.

#### **3. Method of the Survey**

We will distribute a questionnaire sheet to each supplier.

#### **4. Frequency of the Survey**

##### 4-1. Supplier's Efforts for Environmental Preservation Activities

- (1) The survey shall be conducted regularly (once every three years)
- (2) For new suppliers, the survey is to be conducted before commencing transactions and then regularly thereafter (once every three years).

##### 4-2. Matters Related to Environmental Preservation Regarding Supplies

- (1) The survey shall be conducted as required.

#### **5. Signing of Agreements on Green Procurement to Reduce Environmental Burdens**

We may ask each supplier to sign an agreement on green procurement and issue a letter of guarantee or certificate as necessary.

#### **6. Applicable ULVAC Group Companies**

Please refer to the ULVAC website.

This Green Procurement Standards document is subject to change due to future changes in laws and regulations or social trends.

## Revision History of the Green Procurement Standards

Version	Date revised	Reason and description
Ver. 1.1	Nov. 1, 2003	•New provision
Ver. 1.2	Mar. 1, 2004	•IV. List of Surveyed Chemical Substances under Voluntary Control for Green Procurement • Table 1-2: "Level II Chemical Substances under Voluntary Control" II -48 Elimination target date "July 2005" changed to "July 2004."
Ver. 2	Nov. 20, 2006	•Deleted Level III in II. 2-3. 1) "Classification and handling of chemical substances under voluntary control" to manage in two stages (Level I and Level II) instead of three stages •Deleted Appendix 2. ULVAC Green Procurement Supplies Questionnaire Sheet •Reviewed and revised the applicable ULVAC Group companies •Updated the contact telephone and fax numbers •Revised IV. "List of Surveyed Chemical Substances under Voluntary Control for Green Procurement" For details, see "Revision Record of IV. List of Surveyed Chemical Substances under Voluntary Control for Green Procurement"
Ver. 3	Sep. 20, 2008	•Deleted the contact information for the Procurement Management Department •Revised IV. "List of Surveyed Chemical Substances under Voluntary Control for Green Procurement" For details, see the Revision History of IV. "List of Surveyed Chemical Substances under Voluntary Control for Green Procurement" •Revised IV. "List of Surveyed Chemical Substances under Voluntary Control for Green Procurement" For details, see the Revision History of IV. "List of Surveyed Chemical Substances under Voluntary Control for Green Procurement"
Ver. 4	Dec. 9, 2008	•Revised IV. "List of Surveyed Chemical Substances under Voluntary Control for Green Procurement" For details, see the Revision History of IV. "List of Surveyed Chemical Substances under Voluntary Control for Green Procurement"
Ver. 5	Nov. 1, 2009	•Added "2-4. Handling of Chemical Substances with Response Targets (Targets for Complete Elimination)" •Added ULVAC Coating Corporation to the list of applicable ULVAC Group companies •Deleted IV. "List of Surveyed Chemical Substances under Voluntary Control for Green Procurement" from this Standard and released it publicly as the new "List of Surveyed Chemical Substances under Voluntary Control for Green Procurement"
Ver. 6	Sep. 12, 2011	Updated the applicable ULVAC Group companies
Ver. 6.1	Dec. 13, 2013	•Deleted the signature from the "Introduction" •Changed "Product Safety Department" to "Environment and Safety Department" • Changed "MSDS Product Safety Data Sheet" in the figure in "2. Environmentally-friendly Product Design" to "SDS Safety Data Sheet" •Deleted the table in "6. Applicable ULVAC Group Companies" •Deleted "Contact"
Ver. 7	Aug. 23, 2016	•Modified due to the updating of the "List of Surveyed Chemical Substances under Voluntary Control for Green Procurement"