

Fujitsu Group Green Procurement Direction



We care for the Earth.

April 1, 2016 (Edition 7.0)

Fujitsu Limited

Corporate Purchasing Unit
Corporate Environmental Strategy Unit
Corporate Product Technology & Monozukuri Development Unit

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1. Fujitsu Group Green Procurement Direction

1.1. Purpose

Fujitsu Group is promoting environmental protection activities in all of our business categories and purchasing lower-environmental-load products from all over the world.

This Green Procurement Direction describes fundamental philosophy of Fujitsu Group's green procurement activities and specifies what we would like suppliers to fulfill.

1.2. Scope

This Direction has been established as a common direction of the entire Fujitsu Group companies, and applies to procured products or goods that are applied to products sold by Fujitsu Group to customers as well as to their suppliers themselves.

In this Direction, "procured products or goods" shall mean material, components, units, accessories, packaging materials, OEM/ODM products, equipment, software and services, etc., except for office automation equipment, stationery, or business consumables, etc., which are internally used in Fujitsu Group. Fujitsu Group Companies in this Direction shall mean subsidiaries or affiliates of Fujitsu Limited, which are shown on page 14.

If any of Fujitsu Group companies presents its own direction because of its customers' specific requirements or a particular business style, suppliers are also requested to primarily observe the direction.

2. Green procurement requirements to be fulfilled by suppliers

Fujitsu Group requires its suppliers to observe mainly the following requirements shown in Table 1. Fujitsu Group promotes procurement from suppliers who observe these requirements.

Table 1 Green procurement requirements to be fulfilled by suppliers

	Requirements	Material/parts suppliers*	Non-Material/parts suppliers	Section
(1)	Establishment of EMS (Environmental Management System)	Required	Required	2.1
(2)	Compliance with regulations for Fujitsu Group specified chemical substances	Required	N/A	2.2
(3)	Establishment of CMS (Chemical substances Management System)	Required	N/A	2.3
(4)	Approaches to reducing CO ₂ emissions	Required	Required	2.4
(5)	Approaches to biodiversity conservation	Required	Required	2.5
(6)	Approaches to water resources conservation	Required	Required	2.6

^{*}Material/parts suppliers: suppliers whose deliverables are equipped to Fujitsu Group's products or suppliers of OEM/ODM products

2.1. Establishment of EMS (Environmental Management System)

Fujitsu group requires suppliers to establish an EMS. In principle, suppliers are requested to have an EMS certified by a third-party organization such as ISO14001. If you are a supplier which doesn't have an EMS certified by third-party organization, we will request you to establish any EMS which has PDCA cycle.

2.2. Compliance with regulations on Fujitsu Group specified chemical substances

Fujitsu Group has defined its own regulations on chemical substances related to Deliverables which are equipped to Fujitsu Group's products, or OEM/ODM products and packaging materials (hereinafter collectively called "Deliverables" in this Direction), and requested its suppliers to comply with the regulations.

1) Our concepts for chemical substances to be controlled:

With respect to the chemical substances, Fujitsu Group has defined herein substances by referring to those related to international laws such as EU's RoHS Directive or REACH Regulation, and the Class I substances specified by Japanese Chemical Substances Control Law, etc. In detail, please refer to the following. As for "Disclosure of information on deliverables", please refer to the Section 4.1.

2) Fujitsu Group specified Chemical substances:

Deliverables shall comply with the following regulations in the articles a) through e).

However, if there are particular designations or directions in a purchase specification, drawing or other similar kind of document that includes, for example, designation regarding other chemical substances, other "standards of ban", or other "exempted applications", such designations or directions will prevail.

"Packaging materials" herein also include the cases that they are packed by suppliers (or by a carrier that the suppliers entrust packaging) AND supplied directly to customers of Fujitsu Group without being unpacked by Fujitsu Group. In addition, also refer to the section 3.5 (Environmental considerations for packaging materials), which includes a few requests regarding environmental assessment.

[Note]

- As for fundamental ideas regarding control of Fujitsu Group specified chemical substances, also refer to "Guideline regarding non-containment management on Fujitsu Group specified chemical substances" (http://www.fujitsu.com/global/about/procurement/green/)
- The latest version of "Fujitsu Group Specified Chemical Substances List" is available at the following URL; http://www.fujitsu.com/global/about/procurement/green/

a) Banned Substances

• In principle, Deliverables must not contain chemical substances defined in "Fujitsu Group Specified Chemical Substances List" (Table 1).

- In details of the target substances, "Standards of Ban" and calculation methods of concentration, etc., refer to "Fujitsu Group Specified Chemical Substances List" (Table 1) and its notation.
- Notwithstanding above, if exempted application(s) in "Fujitsu Group Specified Chemical Substances List" is(are) applicable to the Deliverables, such containment will be exempted from the restriction of the ban.

b) Reportable Substances

- Reportable Substance(s) shall be taken hold on the presence or absence in Deliverables, and if
 Deliverables meet "Conditions of Deliverables to be reportable" defined in "Fujitsu Group
 Specified Chemical Substances List" (Table 2), its total mass, purpose of use, and application
 area, etc., shall be reported to Fujitsu Group.
- In details of target substances, "Conditions of Deliverables to be reportable", contents to be reported or managed, and calculation methods of concentration, etc., refer to "Fujitsu Group Specified Chemical Substances List" (Table 2) and its notation.
- Substance may be added to Reportable Substances when the obligation of information transmission becomes necessary according to international regulations such as REACH Regulation. In such cases, Fujitsu Group may ask suppliers to provide information before revising this Direction.

c) Control Substances

- In the case that Deliverables meet "Conditions of Deliverables to be controlled" defined in "Fujitsu Group Specified Chemical Substances List" (Table 3), with respect to "Control Substance", its total mass, purpose of use, and application area, etc., shall be managed and recorded.
- In details of target substances, "Conditions of Deliverables to be controlled" and calculation methods of concentration, etc., refer to "Fujitsu Group Specified Chemical Substances List" (Table 3) and its notation.

d) Prohibited Substances in manufacturing process

- During manufacture of Deliverables, it is prohibited to use Fujitsu Group specified "Prohibited Substances" that are defined as "Ozone Depleting Substances" in "Fujitsu Group Specified Chemical Substances List" (Table 4), except for HCFCs. Meanwhile, if you use HCFCs, please work to reduce the emission and/or the use.
- In this regard, however, the use of Prohibited Substances is exempted from the restriction if they are used in indirect manufacturing process such as analytical determination and product development, or in a freezing/an air-conditioning machine.

e) Other restricted substances in delivery destination counties or areas

Other than the substances defined in a) through d) above, Deliverables shall at all time comply
with laws and restrictions applied in delivery destination countries or areas, for example, where
Deliverables are delivered to overseas sites of Fujitsu Group.

For your reference, please refer to the following principal laws and restrictions in Japan and overseas that are related to chemical substances in products. However, since it is hard to provide whole lists here, please confirm by yourselves.

Japan:

- Chemical Substances Control Law (CSCL)
- Industrial Safety and Health Law
- Law for Promotion of Effective Utilization of Resources (3R Law): Requirements for information disclosure of restricted chemical substances
- Law Concerning the Protection of the Ozone Layer through Control of Specified Substances and Others Measures (Ozone Layer Law)

Overseas:

- EU member nations: RoHS Directive, REACH Regulation (Restriction)
- Swiss: ChemRRV
- Norway: Norwegian Product Regulations
- USA: TSCA (Toxic Substances Control Act)
- China: China RoHS: Administration on the Control of Pollution Caused by Electronic

Information Products

2.3. Establishment of CMS (Chemical substances Management System)

Fujitsu Group requires establishment of CMS of material/parts suppliers. As typified by RoHS directive, REACH regulation of European Union, so-called "China RoHS" and Japanese "J-Moss", it has been becoming necessary in every supply chain to severely control certain chemical substances in products. Responding to this, each company in such supply chains, as their social responsibilities, needs to implement proper and effective management of chemical substances in their products.

Also, industries are promoting standardization of Chemical substances management methods in products to reduce corporate's burden, through the use of the "Chemical substances management guideline" (*1) published by Joint Article Management Promotion-consortium (JAMP) and the "JIS Z 7201: 2012" (*2) published by Japanese Industrial Standards Committee (JISC).

Fujitsu Group has created "CMS Check Sheet" in accordance with the above documents. It is designed to clarify action items that Fujitsu Group would like its suppliers to take.

The principal elements of CMS that Fujitsu Group would like its suppliers to manage are shown in Table 2.

After suppliers' self-checking, furthermore, Fujitsu Group visits suppliers and implement audits regarding CMS on the basis of their CMS Check Sheets to check suppliers' situations of establishment and operation of CMS. According to the audit result, Fujitsu Group may request the suppliers to improve unsatisfactory performance in their CMS operation and also provide some advice if necessary. However, if no improvement comes out, Fujitsu Group might reconsider business relationship to such suppliers.

In detail about CMS establishment and other related processes, Fujitsu Group will explain respectively to applicable suppliers.

- *1: "Chemical substances management guideline" can be downloaded from the JAMP's website. (http://www.jamp-info.com/english)
- *2: JIS Z 7201: 2012, "Management of chemical substances in products-Principles and guidelines" Issued on August 20, 2012 can be browsed on the JISC's website.

 (http://www.jisc.go.jp/eng/index.html)

Table 2 Management items in CMS

No. Management items Outline of the required actions Clarifying CMS policies by corporate or busing representative Definition of Management Criteria Clarifying management procedures and criteria requirements from laws, industry standards customers Clarifying products, processes, construction elements and chemical substances to be manage Establishment of Objectives & Planning for Implemented Process Definition of Organizational System, Responsibilities and Authority Clarifying products, processes, construction elements and chemical substances to be manage Clarifying objectives and reviewing implement process Clarifying responsibilities and roles in each division related to the management Taking into account compliance with the defining requirements at design and development stage. Acquisition and Verification of Information of Chemical Substances in Products Constructing information acquisition scheme, a acquiring information of chemical substance contained in delivered items.
Definition of Management Criteria Clarifying management procedures and criteria requirements from laws, industry standards customers Definition of Scope of Management Clarifying products, processes, construction elements and chemical substances to be managed. Establishment of Objectives & Planning for Implemented Process Definition of Organizational System, Responsibilities and Authority Design and Development Taking into account compliance with the defination requirements at design and development stage. Acquisition and Verification of Information of Chemical Substances in Products Clarifying management procedures and criteria requirements and chemical substances in Products Clarifying products, processes, construction elements and chemical substances in Products Calcrifying management procedures and criteria requirements and chemical substances in Products Clarifying responsibilities and reviewing implement process Clarifying responsibilities and reviewing implement and reviewing implement process Clarifying responsibilities and reviewing implement and reviewing implement process Clarifying responsibilities and reviewing implement and reviewing implement process Clarifying responsibilities and reviewing implement and reviewing imp
requirements from laws, industry standards customers 3 Definition of Scope of Management Clarifying products, processes, construction elements and chemical substances to be managed. 4 Establishment of Objectives & Planning for Implemented Process Process 5 Definition of Organizational System, Responsibilities and Authority related to the management. 6 Design and Development Taking into account compliance with the defining requirements at design and development stage. 7 Acquisition and Verification of Information of Chemical Substances in Products acquiring information of chemical substances in delivered items.
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of Chemical Substances in Products acquiring information of chemical substances in Contained in delivered items.
contained in delivered items.
8 Purchase Management Conveying requirements to suppliers.
9 Acceptance Verification Implementing conformity check of delivered ite
with one's defined criteria when receiving delive
items.
10 Process Management Clarifying processes in which composition
chemical substances vary and controlling properation. Also implementing distinction control and prevent
of contamination.
11 Shipping Verification Implementing conformity check of shipping produ
with one's defined criteria or standards.
12 Traceability Constructing traceability scheme of products a
delivered items.
13 Change Control Clarifying procedures in case that composition
chemical substances is likely to be influenced, su as changes of design, process, supplier, etc.,
14 Non-conformity Response Clarifying procedures when unconformable produ
come out
15 Training Clarifying education contents
16 Management of Documentation and Implementing documentation of managem
Records procedures or instructions, and controll
appropriately.
 17 Communication (Provision of Information) 18 Performance (State of Implementation) Evaluating CMS implementation status, and are status.
18 Performance (State of Implementation) Evaluating CMS implementation status, a Evaluation and Improvement improving performance.
19 Management Review (Correction by Reviewing and correcting problems by
Management) management

Management items and required actions are subject to change, if necessary.

2.4. Approaches to reducing CO₂ emissions

Fujitsu Group requests suppliers to make efforts to reducing CO₂ emissions.

Firstly, supplier clarify its intention to address reducing CO₂ emissions. Secondly, supplier starts actual activities on it with numerical target or policy. Thirdly, it would be best if supplier conducts the activities in cooperation with outside organization or its upstream suppliers.

*Note: In this Direction, the term "CO₂" means general greenhouse gases including CO₂, N₂O, CH₄, SF₆, HFC, PFC, etc.

<Stages concerning environmental conservation activities>

Fujitsu group defined a criterion of measuring environmental conservation activities situation. Below figure represents the environmental conservation activities situation expanding and improving gradually.

[Stage 1: Activity announcement]

It is a stage where companies understand the meaning of environmental conservation activity and express their will to make efforts as a corporation.

[Stage 2: Activity implementation (including Stage 1)]

It is a stage where companies are conducting substantive activities internally.

This stage requires that companies are conducting any activities with either numerical target, policy or plan. It would be ideal if numerical target could be set because the activity status can be measured easily and the PDCA cycle can be followed smoothly. If it is difficult to set the numerical target, please take into account promoting activities with policies or plans based on your long-term direction of the activities.

[Stage 3: Activity expansion (including Stage 2)]

It is a stage where companies are expanding their activities from the internal to the external level.

The extended scope of activities is carried out in Stage 3. This stage includes not only the internal activities but also the process of encouraging the upper stream supply chain and collaborative review tasks with external organizations.

Encouraging the upper stream supply chain to take the approach will allow you to reinforce the activities in the entire supply chain.

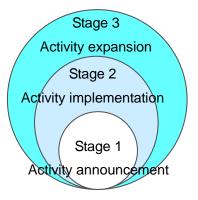


Figure: Stages of environmental conservation activities situation

2.5. Approaches to biodiversity conservation

Fujitsu Group requests suppliers to make efforts to biodiversity conservation.

Firstly, suppliers are required to understand various relationships between biodiversity and themselves and to start actions for it within their possibilities. It will be ideal if this activity also will be improved same as the reducing CO2 emissions activities above.

2.6. Approaches to water resources conservation

The increase of global water demand and the shortage of water resources are becoming international issues because of rapid population increase and progression of water pollution. Therefore, water resources conservation is required in business activities. We would like suppliers to make efforts to the water resources conservation within their possibilities. The examples of activities are as follows:

- Reduction of usage of water (Prevention of leaving water running, Water-saving of toilet, Cyclic use of industrial water/clean water, use of rainwater)
- Prevention of water pollution(Purification of factory effluent, Regular water quality inspection)
- Cleanup activities of rivers and lakes
- Headwater forest conservation activities (Recharge activities of water resources)

3. Requests for implementation of environmental assessment of products

Suppliers are requested to comply with laws or regulations applied to Deliverables. Moreover, as far as you can, please do the following environmental assessments of Deliverables.

However, if there are particular designations or directions in a purchase specification, drawing or other similar kind of document, such designations or directions will prevail.

3.1. Marking deliverables that use a small secondary battery

Deliverables that use a small secondary battery shall indicate a recycle or other legal mark in accordance with the Law for Promotion of Effective Utilization of Resources.

3.2. Energy saving

The operating and standby power consumption levels of deliverables shall be as low as possible and shall fulfill the following requirements:

1) Use of power saving function

A deliverable that can have a power saving function shall be able to automatically reduce the power consumption of components other than the main power supply and/or separate a part of the system by means of an operator operation or schedule function.

2) Compliance with the Law concerning the Rational Use of Energy

If a deliverable is specific equipment designated by the law, the following requirements shall be fulfilled.

- The energy consumption efficiency must be indicated based on the law.
- Consideration shall be paid to the target of energy consumption efficiency specified by the law

and efforts shall be made to achieve the target.

3) Compliance with the International Energy Star Program

When a deliverable is subject to the International Energy Star Program, the power consumption standard specified by the program shall be fulfilled.

3.3. Consideration on recycling

Considering ease of recycling, deliverables shall fulfill the following requirements:

1) Unification of plastic materials

The plastic materials used for deliverables shall be unified as far as possible.

2) Use of plastic materials that can be easily recycled

The use of thermosetting plastics, which are difficult to recycle, shall be avoided and general-purpose plastics, which are easy to recycle, shall be used, as far as possible.

3) Suppression of use of polyvinyl chloride

Use of polyvinyl chloride on deliverables shall be suppressed as much as possible, except for cable coverings and electronic component insulators (such as heat-shrink sheets), in order to prevent dioxin production when the material is improperly disposed of.

4) Painting on plastics

Painting and plating on plastic material surfaces of deliverables shall be avoided as far as possible because they make it difficult to recycle the material.

5) Material identification marking

Delivered plastic components with a mass of 25 grams or more and a flat surface area of 200 mm2 or more shall be marked for material identification based on the pertinent JIS or ISO standard.

6) Materials of documents attached to deliverables

Manuals and documents attached to deliverables shall fulfill the following requirements:

- Recycled paper shall be used for all document pages.
- Or, eco-friendly virgin pulp, such as FSC certified papers, is used.
- Covers of documents shall be free from plastic coatings, which can be an obstacle for recycling.

3.4. Easy treatment and disposal

Considering easy treatment and disposal after their use, deliverables shall fulfill the following requirements:

Consideration for ease of separation and disassembly and reduction of composite parts
 It is necessary that deliverables can be divided and disassembled into identical material units
 with hands and general tools (such as Phillips screwdrivers, nutdrivers, wrenches, hexagon

wrenches, tweezers, nippers, pliers and/or hammers), except when use of special screws is mandatory to prevent modifications or when disassembly should be made difficult to prevent fires or ensure safety human body safety or for other reasons.

3.5. Environmental considerations for packaging materials

Suppliers are requested as much as possible to use packaging materials of deliverables that fulfill the following requirements:

(A) This article A shall apply to packaging materials that are supplied directly to customers of Fujitsu Group without being unpacked by Fujitsu Group. For example, software media and accessories sold with unit products and directly supplied to our customers.

1) Materials of Packaging materials

Packaging materials shall fulfill the following requirements:

- Any corrugated board shall contain used paper as its content at 70% or more.
- Paper materials shall be free of plastic coating, bonding of art paper or other materials.
 Non-petroleum solvent ink or vegetable oil ink shall be used as much as possible for printing on package.
- Polyvinyl chloride shall not be used, except when appropriate alternate materials are unavailable.
- Protective bags shall be made of paper or polyethylene, polypropylene or other plastic materials that can be easily recycled, except for special-purpose bags.
- Paper bags shall be free from plastic coatings or clear plastic sheets attached at openings.

2) Marking on packaging materials

Packaging materials shall fulfill the following requirement and be marked for material identification.

- Packaging materials by the Containers and Packaging Recycling Law shall be marked for material identification.
- (B) This article B shall apply to packaging materials that are unpacked by Fujitsu Group, which will be discarded or sold after delivery to Fujitsu Group.

1) General requirements

- Suppliers are requested as much as possible to reduce heavy metals containing Lead/Lead compounds, Mercury/Mercury compounds, Cadmium/Cadmium compounds Hexavalent Chromium/Hexavalent Chromium compounds and others.
- Suppliers are requested as much as possible to promote recycle and reuse.
- Suppliers are requested not to use Polyvinyl chloride, except when appropriate alternate materials are unavailable.
- Suppliers are requested as much as possible not to use materials difficult to recycle for

packaging materials such as urethane sponge.

2) Loading pallet

- Suppliers are requested as much as possible to use a loading pallet having a structure available to use repeatedly.
- Suppliers are requested as much as possible to use a loading pallet made of materials that can be recycled.
- Suppliers are requested as much as possible to reduce number of windings of stretching film.
- Suppliers are requested as much as possible not to use PP-band.

3) Packing boxes

- Suppliers are requested as much as possible to use corrugated board that contains higher content ratio of used paper.
- Suppliers are requested as much as possible to let packing boxes not to be mixed or attached by materials that interfere in recycle.
- 4) Inner packaging materials: buffering materials, trays, tapes, partition board
 - Suppliers are requested as much as possible to make simple packaging.
 - Suppliers are requested as much as possible not to bond different types of materials.
 - Suppliers are requested as much as possible to reduce adhesive tapes.
 - Suppliers are requested as much as possible to use common plastic materials such as PP, PE or PS for plastic packaging materials unless it's used for special purpose.
 - Suppliers are requested as much as possible to display material of plastic packaging materials based on JIS or ISO standards.

5) Methods of filling

- Suppliers are requested as much as possible to fill in a box by every unit specified in case the site specifies number of items in a box.
- Suppliers are requested as much as possible to place an item in the packing box with becoming as much bulk ratio as possible.

4. Information disclosure

Suppliers have to provide following information using the specified format by specified date when requested by a Fujitsu Group company.

4.1. Disclosure of information on deliverables

• Information of material used in deliverables, such as types of constituent materials and mass and/or concentration of each chemical substance

Note: Suppliers are required to provide information by several formats, such as JAMP information transmission tool (AIS, MSDSplus), Fujitsu Group original format, or a format specified by Fujitsu Group's customer.

- Information of non-containment of specified chemical substances
 Note: Suppliers are required to provide a Non-use certificate, Non-containment certificate, or
 Warranty of compliance with Fujitsu group requirement for chemical substance Form.
- Analysis data of deliverables
 Note: As for fundamental ideas regarding analysis of Fujitsu Group specified chemical substances,
 please also refer to "Guideline regarding analysis on Fujitsu Group specified chemical substances"
 (http://www.fujitsu.com/global/about/procurement/green/).
- OEM product assessment results if the Fujitsu Group company has requested this information in accordance with the Fujitsu-specified regulations on environmental assessment of products.
- Risks in terms of quality, performance and environment involved in changing production conditions of time-proven materials used in deliverables (4M change)

4.2. Disclosure of information on suppliers

• Status of environmental protection activities

Note: Suppliers are required to fill out Fujitsu Group Environmental Activity Survey Form.

[List of Fujitsu Group Companies]

No.	Company name		
01	Fujitsu Limited		
02	Fujitsu Isotec Limited		
03 Fujitsu IT Products Limited			
04	Fujitsu I-Network Systems Limited		
05 Fujitsu Interconnect Technologies Limited			
06 Fujitsu Advanced Engineering Limited			
07	07 Fujitsu Kasei Limited		
08	08 Fujitsu CoWorCo Limited		
09 Fujitsu Component Limited			
10	Fujitsu Fsas Inc.		
11	Shinano Fujitsu Limited		
12	Shimane Fujitsu Limited		
13	Fujitsu Peripherals Limited		
14	14 Shinko Electric Industries Co., Ltd.		
15	Fujitsu General Limited		
16	Transtron Inc.		
17	Fujitsu Network Solutions Limited		
18	Fujitsu Marketing Limited		
19	PFU Limited		
20	Fujitsu Frontech Limited		
21	Fujitsu Semiconductor Limited		
22	Fujitsu Computer Products of Vietnam, Inc.		

^{*}Fujitsu Group members may vary in the future.

[Revision record]		
Jun 25, 2001	(Edition 1)	Created
Jul 23, 2003	(Edition 2)	Revised in part.
Oct 28, 2003	(Edition 2.1)	Changed Fujitsu Group companies.
Nov 1, 2004	(Edition 3.0)	Set maximum concentration values for impurities, etc.
May 1, 2007	(Edition 4.0)	Changed specified chemical substances, Fujitsu Group companies, etc.
Jul 1, 2008	(Edition 4.1)	Added PFOS to specified chemical substances.
		Deleted DecaBDE as the exempted application for PBDE.
		Changed Fujitsu Group companies.
Oct 1, 2009	(Edition 4.2)	Revised specified chemical substances
		e.g. added new category as "Reportable Substances"
		Deleted three exempted applications
		Revised Fujitsu Group companies, etc.
Jan 21, 2010	(Edition 4.3)	Added 14 substances to Reportable Substances.
May 13, 2010	(Edition 5.0)	Added approaches of limiting or reducing CO2 emissions and biodiversity preservation
		Moved the details of Fujitsu Group specified chemical
		substances by creating Fujitsu Group Specified Chemical
		Substances List
Oct 25, 2010	(Edition 5.1)	Changed Fujitsu Group companies.
Oct 11, 2011	(Edition 5.2)	Revised in part (Clause4.2, Clause6.1, etc.)
Jul 9, 2013	(Edition 6.0)	Re-examination of EMS levels,
		Re-examination of Stages of limiting or reducing CO ₂
		emissions, etc.
April 1, 2016	(Edition 7.0)	Revised in Clause 2, List of Fujitsu Group Changed Fujitsu
		Group companies



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