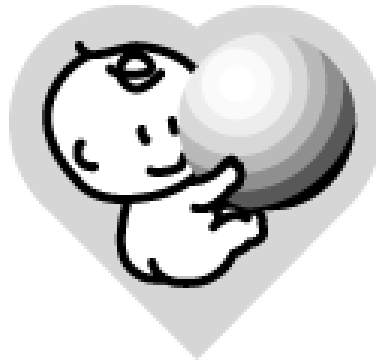


**Juki Group  
Guideline  
for  
Environmental Protection**

**<5th edition>**

**ECO MIND**



Revised: April 1, 2010

Established: September 1, 2003

**JUKI CORPORATION**

Corporate Planning Department

## Introduction

We, Juki Corporation, established the Juki Group Guideline for Environmental Protection in September 2003. Seven years have passed since.

People's concerns about the global environment and their approaches to it are deeper and faster growing than they have been in the past. Environmental issues have become an inseparable part of our lives. Irrefutable changes such as rising sea levels, abnormal hurricane patterns, and rises in air and water temperatures around the world alert us to the urgent need for CO<sub>2</sub> reduction.

The environmental regulations set for companies under law have also changed greatly over the course of the decade. In Japan, the Act on the Promotion of Global Warming Countermeasures, the Act on the Rational Use of Energy, and the Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. have all been revised. Other countries, meanwhile, are observing the RoHS Directive on the restriction of the use of certain hazardous substances in electric and electronic equipment (in force since July 2006) and the REACH regulation on chemical substances and their safe use (in force since June 2007). Worldwide approaches to the environment have been rapidly advanced through environmental regulations imposed by law.

Amidst this trend, we have closely considered the change in our environmental impact through the relocation of our head office. In the process, we have reviewed and updated the Juki Group Guideline for Environmental Protection by adding a new set of eco-keywords to the existing ECO-MIND DECLARATION and Environmental Action Policy.

I would like you to understand the concepts behind the following guidelines and to diversify and deepen our approaches to environmental preservation at Juki by carrying them through.

April 1, 2010

Juki Corporation

**Akira Kiyohara**

Senior Managing Director and  
Environmental Management Representative

### ■ History of amendment

Edition	Date	Major contents
Original	2003.9.1	- Newly prepared
2nd edition	2003.10.1	- The description related to laws was enriched.
3rd edition	2004.4.21	- Overseas manufacturing subsidiaries were added as the parties subject to the guideline. - Paragraph related to the green procurement was added.
4th edition	2006.3.24	- Descriptions were changed to match the target established for the Juki Group. - "5. Report on the activity result" was added. Content and frequency of the report to the headquarters were clarified. - "Juki Group environmental data report" (Format 3) was modified.
5th edition	2010.4.1	- Revision of "ECO-MIND Declaration" (Review of Environmental Action Policy) - Change in the department name used in the text to a name in function (XX department). - Change in a format name of "5. Report on activity result " and a submission frequency (from every three months to once a month). - Back cover: Change in address of headquarters and department name, etc.

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### Attached document

Form 1: Notice of appointment/change of environment management representative

Form 2: Table of legal requirements

Form 3: Juki Group environmental data report

### Related information

Form: Action plan and report on environmental activities (form for reporting to the Group Management Council)

## 1. Scope of application

This guideline is applied to the domestic and overseas manufacturing related Juki Group companies.

## 2. Construction of the guideline

Categories		Items	Outline	
1. Deployment of the policy	P	Establishment of the environmental policy	※	Establish the environmental policy. Or, clarify the position of environment among the existing management policies.
		Appointment of the environment management representative	※	Appoint a responsible person for environmental protection.
		Extraction of environmental aspects		Review and extract environmental aspects.
		Establishment and deployment of environmental goal	*	Establishment and deployment of environmental targets based on the policy.
2. Compliance to the laws and regulations		Understanding of applicable laws and regulations	※	Preparation of a table of laws and regulations applicable to the company.
		Improvement of management system		Appointment of an individual to be in charge. Secure personnel having qualification.
3. Implementation of green procurement		Implementation based on the laws and regulations		Compliance to the legally specified values. Reports to the authorities.
		—		Compliance to the “Juki Group Green Procurement Activity Guideline”.
4. Operational control	D	Prepare procedures for management		Areas related to environmental targets, such as energy management, waste management, chemical substance management, procurement management, etc.
		Education and training		Education and training regarding handling/operation of facilities.
		Collection of environmental data	*	Energy (electricity, fuel oil, gas), water consumption, volume of waste, volume of chemical substance usage.
5. Countermeasures against environment pollution risk		Estimation of pollution risk and countermeasures		Illegal disposal of industrial waste, leakage from oil tank or waste fluid tank, discovery of soil pollution, and loss of PCB parts.
		Study of the information disclosure level		Recipient of disclosed information in case of an environmental problem.
6. Evaluation of the activities	C A	—		Evaluation by the environment management representative and president.

※: Items to be reported to Juki headquarters (Environmental department) at the time of establishment or amendment.

\*: Items for which the content and values are to be reported to Juki headquarters (Environmental department) annually or at the specified frequency. (Refer to “5. Report on the activity result” for the details.)

### 3.ECO MIND Declaration

Revised: April 1, 2010

Established: October 1, 1998

#### **Environmental Philosophy**

JUKI group recognizes that activities of enterprises are closely related to the global environment, and is making efforts to:

1. Contribute to the local community and society by environment-conscious activities.
2. Provide people around the world with environmentally friendly products.
3. Play an active role to hand down a better global environment to future generations through continuous activities.

#### **Environmental Action Policy**

1. Prevent global warming by promoting energy-saving in all business activities and use resource efficiently by implementing the 3Rs (Reduce, Reuse, and Recycle).
2. Provide products with less environmental load by planning, researching, developing, procuring, and manufacturing with environmental influences in mind.
3. Contribute to countries and regions by modifying environmental conservation activities to suit local conditions wherever Juki does business as a global company.
4. Observe environmental laws and other agreed requirements, and prevent environmental pollution.
5. Actively disclose environmental information.
6. Raise "awareness of ecological problems" among employees through educational campaigns.

## 4. Guideline

### 4.1 Deployment of the policy

#### 4.1.1 Preparation of environmental policy

- (1) Prepare your policy regarding environmental management (environment policy) in writing based on the Juki Group “ECO MIND Declaration” (P.2). It needs not be an independent document as the “environmental policy”, and instead, you can clarify your intention regarding “environment” in your existing management policy. While you can freely choose a format, it is required for the president of your company to fully recognize the importance of environmental issue and to relay the message to his subordinates in a top-down approach.
- (2) The impact of your activity to environment may be different depending on the type and scale of your business. Your environmental policy should not be generalized, and instead, it should be characterized for your company. Furthermore, try to include the following content as much as possible and describe them in your policy.
  - ① Continuous improvement
  - ② Prevention of pollution
  - ③ Compliance to environment-related laws and regulations
- (3) Try to clearly state your activities in a concrete way.  
No good example: “We will aim to become an environment friendly company.”  
Good example: “We will promote energy saving.” “We will reduce industrial waste.”

#### 4.1.2 Appointment of environment management representative

- (1) President is required to appoint environment management representative, and your environmental protection activities shall be implemented according to this guideline under the responsibility and authority of the environment management representative.
- (2) The environment management representative shall be registered in the table of environment management representatives at the Juki headquarters. In case of a change of registration content (new appointment or change of environment management representative, or change of contact number, etc.), inform Juki headquarters (Environmental department) by issuing the “Notice of appointment/change of environment management representative etc” <Form 1>.
- (3) Appoint a secretarial staff under the environment management representative as a contact window to Juki and to other Juki Group companies. In case of a change to the secretarial staff, inform Juki headquarters (Environmental department) by using the same format as in the case of (2) above.

#### 4.1.3 Extraction of environmental aspects

- (1) Extract information which has impact to your internal environment and information which may have impact to environment outside of your company (environmental aspects \*1) by referring to the following 【Examples of environmental aspects】 or <Material 1> “Environment and corporate activities” (P.10).  
Environmental aspects of your company will be one of the useful data for establishing and deploying environmental targets.

\*1 Environmental aspects: “An element of an activity by an organization or product or service which may have an interactive relationship with environment. (JIS Q 14001:2004)” It is something that may have an impact to environment.

#### 【Examples of environmental aspects】

- Energy consumption: Electric power, heavy oil, light oil, other fuel oil, city gas, etc. (volume)
- Water consumption (volume)
- Release of waste (volume), recycle (volume)
- Consumption of paper, such as copy paper (volume)
- Plant equipment/facility: Chemical substances used in heat treatment, surface treatment, cleaning, plating, painting, etc. (Refer to “4.2.1 Understanding of applicable legal requirements”.)(Types, volume)
- Purchasing of raw material/subsidiary material: Material, packaging material, lubrication oil, etc. (volume)
- Decision making in business activities: Product planning, introduction of facilities, introduction

of systems, selection of procurement source/product, education, etc.

#### 4.1.4 Establishment and deployment of environmental policy

- (1) Establish your company's environmental policy by referring to the following ideas.
  - ① An activity which will demonstrate some concrete action in line with the environmental policy.
  - ② An activity which will improve the environmental aspects as recognized in 4.1.3(1).
  - ③ An action related to laws applicable to your company. (Refer to "4.2 Compliance to the laws and regulations" for understanding of the applicable laws.)
  - ④ An action which is established as the environmental target of Juki Group.
- (2) Establish your target values. Clarify "what to achieve" "how much" by "when", and quantize your target as much as possible. In case reduction of energy consumption or waste is established as the target, it may be difficult to judge from the total quantity only due to the change of production volume or business volume. In such cases, establish a target value in the basic unit (\*2) because year-to-year comparison or evaluation may not be correct if monitored by the consumption volume or the released volume.

\*2 Basic unit: A value obtained by converting the total energy consumption volume or total water consumption volume into a volume per certain unit, such as per employee or per sales amount.

- (3) Deploy your company target to each department (top-down approach). If you already have a system for objective management, utilize the system. Furthermore, clarify an objective among the department objectives that is related to environment, and manage it as the "environmental target".

##### 【Example of environmental target】

- Reduce electric power consumption by 10% comparing to the year 2000. (Based on the ratio to the sales amount.)
- Reduce waste volume by 30% comparing to the previous year.
- Study for total abolishment or replacement of trichloroethylene used in the cleaning facility. (An example that environmental target was selected from the department objectives.)

- (4) In order to achieve environmental target, make the target to be a concrete one and monitor the progress of achievement periodically.
- (5) Regarding the environmental target, prepare a report on the progress at the end of each fiscal year. Based on that result, compare with the environmental policy, and review your target item and target value every year. (Continuous improvement).

#### 4.2 Compliance to laws and regulations

"Laws and regulations" are the laws of country, and under such laws and regulations, there are "enforcement ordinances" and "enforcement regulations" which describe the details. Furthermore, under those ordinances and regulations, there may be "regulations of local government" that local governments at the prefecture or city/town level establish based on the laws for restriction at even severer level taking the characteristics of the local community into consideration. It is a basic requirement from a business management viewpoint to correctly understand the laws and regulations. Incidentally, paragraph 4.2.1 describes the procedure and format based on the Japanese domestic laws. For overseas subsidiaries, establish your own by using them as a guideline.

##### 4.2.1 Understanding of the applicable laws and regulations

- (1) By referring to "Table 1: Example of facilities and corresponding laws and regulations" (P.6), review your environment related facilities, equipment (incinerating facility, dehydrating facility, cleaning facility, drying facility, boiler, etc.), chemicals used and releases.
- (2) Based on the result of (1) above, fill in your facility, chemicals or wastes related to the "applicability judgment items" in "Table of legal requirements" <Form 2> in the "applicable items of your company" column. In order to make judgment as to whether the item is applicable to the law or not, it is necessary for you to understand your own record (scale and capacity of your facility, types and volume of chemicals used, types and volume of waste, etc.) corresponding to the content described in the "applicability judgment item" column.
- (3) Compare the items recognized as applicable in (2) above and the content of "applicability judgment item", and enter the result of your judgment in the "applicable (○) • not applicable

(×)” column.

- (4) Once the applicable law/regulation is identified, investigate for the concrete compliance actions (matters applicable to your company, regulation value, existence or non-existence of qualified personnel, reporting requirement, etc.) and summarize them in the “requirements” column of “Table of legal requirements” <Form 2>.
  - ※ As for investigation of the concrete compliance actions, refer to the laws by visiting the website of the Ministry of Internal Affairs and Communications. A system providing the data on laws and regulations: <http://law.e-gov.go.jp/cgi-bin/idxsearch.cgi>
  - ※ For some of the laws and regulations, a pamphlet is published by Organization for Small & Medium Enterprises and Regional Innovation, Japan, an independent administrative institution, and you can refer to those laws and regulations by visiting the website of the institution.  
Various materials: <http://www.smrj.go.jp/keiei/kankyo/data/index.html>
- (5) Investigate for any regulations by the local governments relating to your applicable items (you may consult with the local government offices), and add those regulations, if any, in the same table.
- (6) Establish a channel to obtain information and appoint an individual to be in charge so that your company will be able to react to new establishment or changes of laws and regulations.
- (7) When your company has a plan to introduce new facility or equipment, check with the supplier if there is any law or regulation applicable to the facility/equipment. If there is, add it to the “Table of legal requirements” <Form 2>, and investigate for the details of the requirements.
  - ※ If you already have a document summarizing the requirements by laws and regulations, any format other than the “Table of legal requirements” <Form 2> will do.

#### **4.2.2 Improvement of management system**

- (1) Clarify an organization (individual) to be in charge of measuring and recording of regulated values and of storing hazardous substances.
- (2) Secure qualified personnel and managers required by laws and regulations.  
(Example: Manager in charge of pollution control, manager in charge of hazardous substance and safety, etc.)
- (3) Clarify the action to be taken at the time of accident (oil tank, boiler, etc.) as required by laws and regulations and the route for instructions within the company and reports to external organizations (police department, fire department, public health center, etc.). In case of accident, be sure to inform Juki headquarters (General Affairs Department) as well.

#### **4.2.3 Implementation based on the regulations**

- (1) Comply with the restrictions as required by laws and regulations. Furthermore, record the result of monitoring and measurement that will become evidences of compliance. (In some cases, the period for record storage may be required by laws and regulations.)
- (2) In case an abnormal value is observed, take emergency action immediately.
- (3) Report to the governmental agencies regarding the facilities under legal control.

Table 1: Example of facilities and corresponding laws and regulations

Examples of business activities and their impact to environment.	Equipment · facilities	Example of related laws
① Emission of smoke etc. as a result of burning, composing, decomposing and other disposition of items. ② Emission of coarse particulate as a result of mechanical processing, such as breaking or selection, of items. ③ Emission of bad smell or ozone depleting substances as a result of manufacturing, fabricating or cleaning.	①②Boiler, heating furnace, incinerator, dryer, fusion furnace, concentrating or distilling facility, crusher, grinder, cutter, diesel/gas/gasoline engine etc. ③ Manufacturing facility, fabrication facility, cleaning facility, etc.	<ul style="list-style-type: none"> <li>• Air Pollution Control Law</li> <li>• Offensive Odor Control Law</li> <li>• Law concerning the Protection of the Ozone Layer Through the Control of Specified Substances and Other Measures</li> <li>• Law concerning the Improvement of Pollution Prevention systems in Specified Factories</li> <li>• Law concerning Special Measures against Dioxins</li> </ul>
① Water drainage from plant or business facility into public waters. ② Water drainage from plant or business facility into sewage system.	Cleaning facility, filtering facility, separation facility, dust collecting facility, water rinsing facility, condensation reaction facility, distilling facility, human waste treatment facility, kitchen facility, sewage disposal facility, waste disposal facility, oil tank, etc.	<ul style="list-style-type: none"> <li>• Water Pollution Control Law</li> <li>• Sewerage Law</li> <li>• Purification Tank Law</li> <li>• Law concerning Special Measures for the Protection of Lake Water Quality</li> <li>• Law concerning Special Measures for Protection of the Environment of the Seto Inland Sea</li> <li>• Law concerning the Improvement of Pollution Prevention systems in Specified Factories</li> </ul>
Activities related to atmosphere or water, underground infiltration of substance (hazardous substance) by spraying of pesticide.	Cleaning facility using Halogen family organic solvent, heavy metal disposal facility, gardening facility.	<ul style="list-style-type: none"> <li>• Water Pollution Control Law</li> <li>• Sewerage Law</li> <li>• Soil Contamination Countermeasures Law</li> </ul>
Generation of noise or vibration as a result of business activities at plant and place of business.	Rolling machine, machine press, hydraulic press, shearing machine, wire forming machine, blast machine, compressor, forming machine, drum barker, etc.	<ul style="list-style-type: none"> <li>• Noise Regulations Law</li> <li>• Vibration Regulations Law</li> <li>• Law concerning the Improvement of Pollution Prevention systems in Specified Factories</li> </ul>
Release of waste as a result of business activities and reuse of waste or recycle as a resource.	Refuse, large refuse, burnt residue, sludge, waste oil, waste acid, waste alkali, waste plastic, waste metal, waste glass, waste rubber, PCB, etc.	<ul style="list-style-type: none"> <li>• Waste Management and Public Cleansing Law</li> <li>• Law for Promotion of Effective Utilization of Resources</li> <li>• Fundamental Law for Establishing a Sound Material-Cycle Society</li> <li>• Law concerning Special Measures for Promotion of Proper Treatment of PCB Waste</li> </ul>
Consumption of electric power, oil, coal, etc. as a result of business activities.	Oil products, coal, city gas, electric power, etc.	<ul style="list-style-type: none"> <li>• Law concerning Rationalization of the Use of Energy</li> <li>• Fire Defense Law (related to hazardous substance)</li> <li>• High Pressurized Gas Safety Law</li> </ul>
Consumption of water and raw material as a result of business activities.	Water, paper, wood, metal material, parts, chemical substance, etc. (excluding the ones consumed as a fuel)  Well.	<ul style="list-style-type: none"> <li>• Law Concerning Reporting, etc. of Releases to the Environment of Specific Chemical Substances and Promoting Improvements in Their Management (PRTR Law)</li> <li>• Law for Promotion of Effective Utilization of Resources</li> <li>• Law concerning the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.</li> <li>• Poisonous and Deleterious Substances Control Law</li> <li>• Industrial Water Law</li> </ul>

Note) It should be noted that not all laws are listed in the above “Example of Related Laws”. As for the details, check the “Table of legal requirements” <Form 2>.

### 4.3 Implementation of Green Procurement

Green procurement means to procure parts and materials for JUKI products not only based on the conventional criteria of quality, cost and lead time, but also by evaluating from the viewpoint of non-use of hazardous chemical substances and the supplier's attitude toward environmental protection activities based on the criteria established by JUKI.

In order to offer products with environmental considerations, implement Green Procurement according to the "Juki Group Green Procurement Activity Guideline" separately provided.

### 4.4 Operational Control

#### 4.4.1 Making procedures for the controlled items

- (1) Prepare procedures for implementation of the selected environment target, and execute the plan according to the procedure.
- (2) Prepare procedures to comply with the laws and regulations applicable to your company, and execute the plan according to the procedures.
- (3) Prepare procedures to execute activities based on the "Juki Group Green Procurement Activity Guideline", and execute the plan according to the procedures.
- (4) Prepare procedures to cope with emergencies ("Refer to "4.5.1 Estimation of pollution risk and countermeasures".), and execute the plan according to the procedures.
- (5) The procedures established in (1)~(4) above shall be reviewed whenever a problem occurred and annually, and shall be amended to meet the reality as necessary.

Table 2 Example of management category and items requiring procedures

Management category	Example of items requiring procedures
Energy management	<ul style="list-style-type: none"> <li>• Procedure for facility introduction criteria and selection.</li> </ul>
Waste management	<ul style="list-style-type: none"> <li>• Procedure for understanding and reduction of released volume including waste.</li> <li>• Procedure for selection and subcontracting of transportation and disposal of waste.</li> <li>• Procedure for management of manifest (industrial waste management form).</li> <li>• Categorization criteria and its procedure for waste released from places of work.</li> </ul>
Chemical substance management	<ul style="list-style-type: none"> <li>• Procedure for management and work for ×× processed fluid.</li> <li>• Procedure for storage method (place) and volume management of hazardous substance.</li> </ul>
Purchasing management	<ul style="list-style-type: none"> <li>• Evaluation of procurement source (for products) and procedure.</li> <li>• Promotion of using recycled items, purchasing criteria and procedure. (office stationeries, etc.)</li> </ul>
Others	<ul style="list-style-type: none"> <li>• Procedure for storage and leakage checking of PCB parts.</li> <li>• Procedure for leakage checking of heavy oil tank.</li> <li>• Procedure for actions to be taken at the time of accident for ×× facility.</li> </ul>

#### 4.4.2 Implementation of education and training

- (1) Clearly convey your president's intention regarding the environment activities to all the employees and make sure to deliver your company's environment policy so that the activities can be executed under a top-down approach.
- (2) Explain to the individual whose work (handling of chemicals inside the facility, drained water treatment, etc.) will have a great impact to the environment in the case of emergency or under normal circumstances the level of impact that individual's work will have (may have) to the environment. Furthermore, provide appropriate education and training so that the employee can prevent accident, including failure of work, and take appropriate action when accident actually occurs and check the level of his or her capability before actually assigning that individual to work.

#### 4.4.3 Collection of environmental data

- (1) Collect and understand actual values for the items selected as environmental target so that necessary countermeasures can be taken.

- (2) Collect actual values for the following items annually even if they are not selected as environmental target, and prepare “Juki Group environment data report” <Form 3>.
- ① Energy consumption volume (electric power, heavy oil, light oil, other fuel oil, city gas, etc.)
  - ② Greenhouse effect gas emission volume (Carbon dioxide).
  - ③ Substance input volume (= purchased volume)
  - ④ Paper purchased volume (OA paper for office work)
  - ⑤ Water resource input volume/drainage volume
  - ⑥ Waste release volume (recycle volume, disposal volume, etc.)
  - ⑦ Chemical substance consumption volume (transfer volume, release volume, etc.)

## 4.5 Action against environment pollution risk

### 4.5.1 Estimation of pollution risk and countermeasures

- (1) Identify the possible cases in the case of emergency due to natural disaster, machine failure, human error, etc. Furthermore, clarify the actions to be taken corresponding to each case and instruction and report route including external organizations (police department, fire department, public health center, etc.).

#### 【Example of emergencies and pollution risk】

- Failure of Ph meter of drainage facility. → Outflow of hazardous substance into river.
- Leakage of oil and waste fluid from oil tank and waste fluid tank. → Outflow into river, infiltration into soil.
- Illegal dumping of industrial waste by disposal contractor. → Creation of hazardous substance, infiltration into underground water and soil.
- Loss • outflow of PCB parts. → Infiltration of PCB (dioxin) into underground water and soil.

- (2) Prepare necessary equipment to cope with each identified emergency case.  
(Example: rubber gloves, oil absorption mat, waste cloth, neutralizer, etc.)
- (3) Make it known to all the people concerned so that the equipment prepared in (2) above can be used when accident has actually occurred.

### 4.5.2 Study of the information disclosure level

- (1) Select the organization for information disclosure and appoint a person (environment management representative, General Administration Department Manager, president, etc.) who will judge the level of disclosure in advance for each case identified under “4.5.1 Estimation of pollution risk and countermeasures” depending on the nature of accident, level of problem, scale of impact, etc. If such selection or appointment is made after the problem has occurred, it will be too late and it may become a fatal problem as a corporation.

#### 【Example of organization for information disclosure】

- Organization for notice • report as required by law (fire department, police department, public health center, municipal office, etc.)
- Juki headquarters (General Affairs Department)
- Mass media
- Local community residents
- Customers
- Business partners
- Shareholders
- Disclosure on website, etc.

- (2) In case an accident has actually occurred, review if a procedure for action has been established and if there is any problem in such a procedure.

## 4.6 Evaluation of activities

Environment management representative shall collect necessary information at the end of each fiscal year, report to president, and review the overall system.

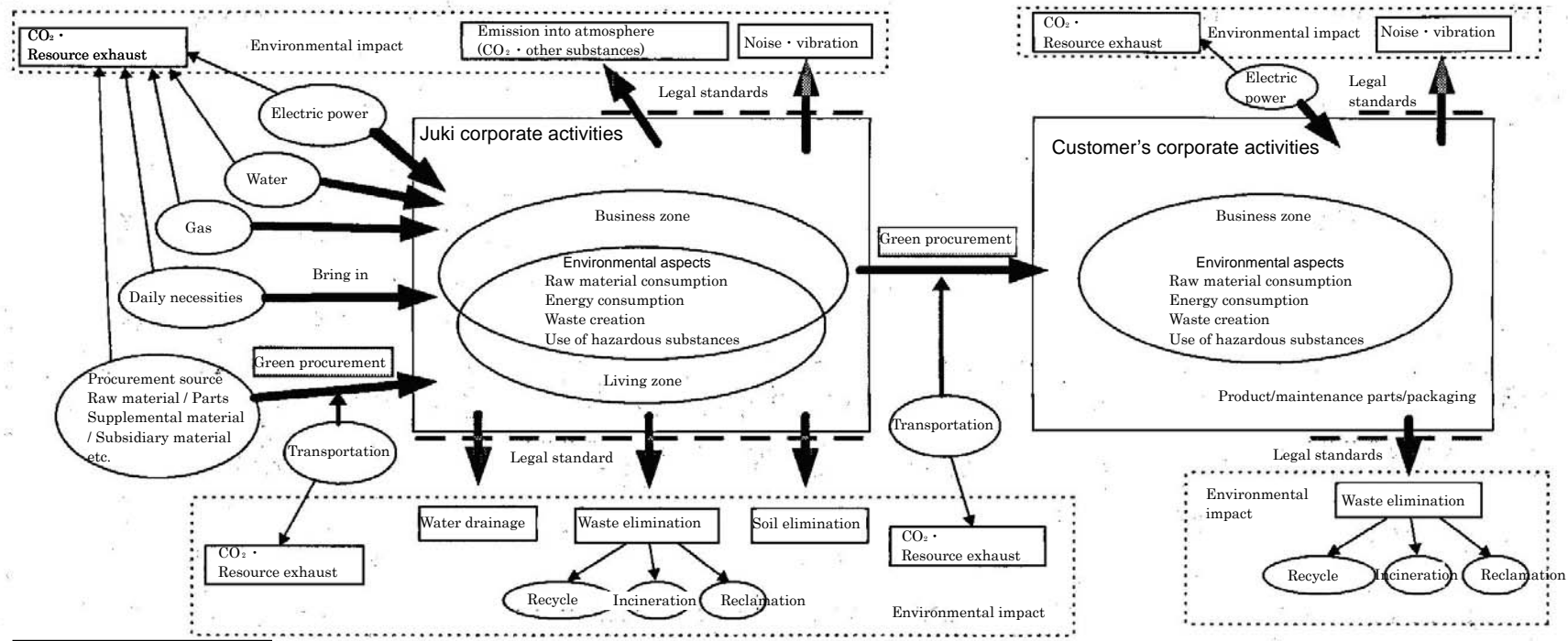
## 5. Report of activity result

Report the details of activities and result based on this guideline as described below to Juki headquarters (Environmental department).

Table 3 Content and frequency of report

Content of report	Remarks regarding the format	Frequency		
		Once a month	Once every six months	Once established/appointed/changed.
① Environmental policy	Free format (It shall be accompanied by a signature of the president, though.)			○
② Information regarding new appointment and change of environment management representative	“Notice of appointment/change of environment management representative <u>etc</u> ” <Form 1>			○
③ Table describing the requirements of laws and regulations	“Table of legal requirements” <Form 2> or any company format will do.			○
④ Environmental target (plan/result)	Use <u>the form for reporting to the Group Management Council (“Action plan and report on environmental activities”)</u> , and include the following in the report.  <input type="checkbox"/> Target and target value <input type="checkbox"/> Action for accomplishing the target <input type="checkbox"/> Achievement status of the target <input type="checkbox"/> Reflection and issue to the next term		○	
⑤ Environmental data	“Juki Group environment data report” <Form 3>	○		
⑥ Environment management manual	ISO14001 certified company.			○

● Environment and corporate activities



Environmental aspects and environmental impact

**INPUT**

Environmental aspects	Environmental impact
1. Use of electric power	1. CO <sub>2</sub> · Resource exhaust
2. Use of water	2. CO <sub>2</sub>
3. Use of hazardous substances	3. Amenity
4. Use of paper/wood	4. CO <sub>2</sub> · Resource exhaust
5. Use of iron/steel	5. CO <sub>2</sub> · Resource exhaust
6. Use of nonferrous metal	6. CO <sub>2</sub> · Resource exhaust
7. Use of nonmetal	7. CO <sub>2</sub> · Resource exhaust
8. Use of fossil fuel	8. CO <sub>2</sub> · Resource exhaust
9. Use of machine/equipment	9. CO <sub>2</sub> · Resource exhaust
Etc.	

**OUTPUT**

Environmental aspects	Environmental impact
1. Drained water	1. Water pollution
2. Release of hazardous substances	2. Air/water/soil pollution
3. Generation of paper scraps/wood chips	3. Waste elimination
4. Generation of iron scraps	4. Waste elimination
5. Generation of nonferrous scraps	5. Waste elimination
6. Generation of nonmetal scraps	6. Waste elimination
7. Generation of waste oil	7. Water pollution
8. Generation of noise/vibration	8. Amenity
9. Generation of exhaust gas	9. Amenity/air pollution
Etc.	

**Product**

Environmental aspects	Environmental impact
(When used)	(When used)
1. Use of electric power	1. CO <sub>2</sub> · Resource exhaust
2. Generation of noise/vibration	2. Amenity
(When disposed)	(When disposed)
3. Waste elimination	3. Waste elimination
Etc.	

**In emergencies**

Environmental aspects	Environmental impact
1. Damage to oil tank	Water pollution/soil pollution
2. Fire of warehouse, etc.	Air/water/soil pollution

# **JUKI CORPORATION**

Juki Group Guideline for Environmental Protection

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