

Agenda

- -Developing more sustainable products
- -Supplier requirements



Johnson Johnson

World's most comprehensive and broadly based manufacturer of health care products, as well as a provider of related services, for the consumer, pharmaceutical, and medical devices and diagnostics markets.

- More than 250 operating companies
- Approximately 118,700 employees
- Operate in 57 countries
- 3 Segments: Pharmaceuticals, Medical Devices & Diagnostics, and Consumer
- > 2009 Sales \$61.1 Billion



Products That Save & Improve Lives









Sustainability in the 1940's

"We must use our resources wisely, avoiding waste of both raw materials and scrap, while we seek substitutes for things already in short supply. We must employ replaceable materials where we can, must let forests restore themselves as we cut, must prevent loss and pollution of water, and must halt wasteful erosion of soil. ... Sound business demands their employment, just as it demands reduction of waste in a factory or store." [Or Forfeit Freedom, by Robert Wood Johnson, Doubleday & Company, Garden City, New York, 1947, pp. 37-38]

Vision & Strategy

Healthy People, Healthy Planet, Healthy Business

Healthy Planet

EHS Standards

2010 Goals





Product Stewardship Vision

What is J&J's product stewardship vision?

- Use of life cycle thinking
- Continuous improvement greenER products
- Create business value by meeting customers needs





EARTHWARDS TM: Process and Goals

EARTHWARDS ™ is a process and a group of tools that can be used to systematically build greener more environmentally sustainable products.

The goals of EARTHWARDS ™ are:

- Help business and development teams understand environmental impacts of the product using life cycle thinking
- Identify areas of opportunity to improve the environmental footprint
- Uncover opportunities for credible environmental claims (using FTC guidelines)

Materials/Ingredients

Chemical look up (DfE)
Material Use Reg Summary (DfE)
Watch list (DfE)
Gaia



Energy Guides, checklists, best practices



Water Guides, checklists, best practices

Compliance

C2P

DfE regulatory metrics

- -Electronics
- -Material use
- -Battery



Waste

Guides, checklists, best practices

Life Cycle Thinking

Checklist, LCA light tool, examples



Recognition

Score Card GreenER product catalog, jnj.com



Innovation

Guides, best practices



Packaging

Protocol (DfE)
Guide (DfE)
Plastic selection guide\
Compass



The EARTHWARDS™ process uses life cycle thinking to improve the environmental performance of products in the following areas:







Examples of Improvement Tools





EARTHWARDS ™: Chemical Look Up Tool

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LifeScan Carrying Case

Environmental Improvements:

- •Removed latex elastic bands and replaced with lycra
- •PVC materials on the cases were substituted with Thermoplastic Polyurethane (TPU), a safer alternative
- •Since then, they have added eight more RoHS compliant meters to their product line. (RoHS is the directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment).







PACKAGING PROTOCOL

About this Document

The Packaging Protocol is a checklist to help designers ensure and document compliance with applicable packaging requirements. Filling out the Protocol will also assist you in creating an Essential Requirements Technical File.

The Protocol contains links to detailed explanations in the Packaging Reference Guide. For more detail on individual packaging requirements as you complete the Protocol, please refer to the appropriate section of the Packaging Reference Guide.

The Protocol is now a standalone Excel File (.xls, 429 KB)(previous versions were embedded in the Excel DfE Tool).

Instructions

Download a copy and save it to your local drive. The Packaging Protocol will be in Read-Only until it is saved to your local drive.

Note: Macros must be enabled for the Protocol to work properly. When the Protocol is downloaded and opened in Excel 2007, you may see a Security Warg that \"Macros have been disabled.\" Macros must be enabled each time you open the Protocol. To enable macros, click the \"Options...\" button adjacent to the Security ming, choose \"Enable this content,\" then click \"OK.\" After you have enabled macros, click on the Add-Ins tab in the Excel toolbar to see the Packaging Protocol navigation of the Security was a security was a security with the content, of the Security was a security was

6a. Have you considered opportunities to make component able, returnable or retillable? See Section 2.2.2.3 New users should read the Welcome Page carefully. 6b. Are components reusable, refillable, or returnab are support systems in place or developing? See Section 2.2.2.3 6c. If the packaging system includes reusal irnable or refillable components, is there an infrastructure for reuse in all markets in See Section 2.2.2.3 Resources to help you fill out the Protocol which reuse is claimed? 1. In all markets? The following is a list of guestions in the protocol, with links to Guidebook Sections the 2. In the CEN countrie uring Technical Files per EN 13429? download a copy and keep this page open as you work through the protocol. 6d. If the ing system includes reusable, returnable or refillable components, are they specifically identified as reusable? Essential Requirements (ER) Technical File completed, if required? **Ouestion** . The Technical File form is included in a separate t in the Packaging Protocol (.xls version, download Are any materials banned in any of the countries identified in Section 2.1. A sample Essential Requirement Technical File is provided in Section 3.3.3. 2a. Are heavy metals and hazardous substance requirements met? . For general info on the Essential Requirements: S Section 2.2.2.2 2b. Are Certificates of Compliance with neavy metals, hazardous substance, and wood treat each supplier? 8. This question applies only to products marketed to consumers (could include over the counter pharmaceuticals): If the product is to See Section 2.2.3 be marketed in applicable markets, e.g., Taiwan, Australia, Canada, Japan, New Zealand, South Korea, are the free space A. For South Korea: See 2.2.3.6. requirements met for each country? B. For Australia: See 2.2.3.1. C. For Canada: See 2.2.3.2. D. For New Zealand: See 2.2.3.5. 3a. Are you using packaging that contains polyvinyl chloride (PVC)? E. For Taiwan: See 2.2.3.7. F. For Japan (applies only to cosmetics): See 2.2.3.4. 3b. If so, have you evaluated its removal according to the HP 2010 Paper & Packaging Goal This question applies only to products marketed to consumers (this may include pharmaceuticals): Markets including South Korea, See Section 2.2.3.6 in consideration of PVC restrictions and regulatory trends? Taiwan have specific packaging layer requirements. If the product is to be introduced in applicable markets, e.g., Taiwan, South Korea, are the packaging layer requirements met? 4. Which recovery route standard(s) does the component or functional unit meet? Mark all th 10a. This question applies only to rigid plastic containers: Does the container comply with applicable Rigid Plastic Container laws See Section 2.2.4 will be disposed of together must meet the standard for the same recovery route). (requiring recycled content/reuse/source reduction)? 10b. Do you have all the necessary documentation to certify compliance, including written certification of recycled content from each See Section 2.2.4 container supplier? 11a. Is the packaging system and/or its components subject to fees? See Section 2.3 for general fee information See Section 3.3.4 for a matrix of countries with fees 5a. Of the critical areas listed below and described in Section 2.2.2.3, which one is the critical eliminating or further reducing each component? (For each component, identify the appropri-11b. Is it feasible to use a material composition that will incur lower fees? See Section 2.3.3 for an explanation of fee differential 12a. Is appropriate environmental labeling employed on the package or label per Section 2.4? See Section 2.4 12b. If the environmental labeling indicates recycled content, is certification of the content on file or available from each supplier? See Section 2.4.2.6 5b. This question only applies to products to be sold in EU & other countries where the CEN required: Have you identified a test, study or specification that demonstrates each limitation 13. If an environmental claim has been used, has its meaning for each component been properly qualified (in print, alongside the See Section 2.4.3 and Section 2.4.3.1 14. Are you using paper packaging that contains post consumer recycled content (>30%) and or certified fiber content (Forest See Best Practices for Packaging, Section 1 - 1.1 Stewardship Council certification or equivalent) according to the HP 2010 Goals. Click to see the HP 2010 Goals Implementation Guide 15. Have you considered the impact of emerging environmental issues on the packaging? See Best Practices Section 2 Click to see a listing of emerging issues WW Environmental Affairs is tracking

16. Have you evaluated the \"Design Guide by Material Type\" for each packaging component to make the best choices and avoid using

1. Are any materials banned in any countries?

See Best Practices Section 3 and Section 3.1



LifeScan Ultra Test Strips

Environmental Improvements:

- •Antimony trioxide, a chemical on many materials of concern lists, including proposition 65, has been removed from all electrochemical diabetes test strips (replaced with Melinex)
- •All of the electrochemical strip cartons (55 million plus cartons annually) are sourced from third-party certified sustainable forests





earthwards scorecard

Pre-requis	e-requisites								
	Know materials, ingredients in your product								
	Identify and plan to address J&J Watch List materials								
	Know where product and packaging end up after use								
	Know whether agricultural or mined ingredients come from culturally or environmentally sensitive regions								
Complete	Complete life cycle screen to identify priority goals for the product (see separate screening question								
Goals: 10°	% improvement								
Materials	1 Meet consumer need with less material or								
	2 Use more environmentally preferred material (see list) or								
Packaging	3 Meet consumer need with less packaging or								
	4 Use more environmentally preferred packaging material (see list) or								
Energy	5 Make product more energy efficient in use or								
	6 Make manufacturing or distribution more energy efficient or								
Water	7 Make product more water efficient in use or								
	8 Make manufacturing more water efficient or								
Waste	9 Make product with less waste during manufacturing or								
	10 Recover more product, after use, for reuse or recycling								
Results	Achieved all pre-requisites + three other goals	9.7							













Earthwards: Creating Greener Products

- ➤ We have removed 1,024 tons of PVC from our products
- ➤ Removal of Mercury (Hg) preservative from blood donor screening
- Green chemistry in Active Pharmaceutical Ingredient Synthesis:
 - AIDs Rx Intelence process improved
 - 60% reduction in the use of methylene chloride
 - 540,000 liters/yr waste eliminated
- ASP Sterilizer does not use ethylene oxide



Supplier Standards

Global Standards for External Manufacturers

GUIDING PRINCIPLES - apply to all J&J companies,



Johnson-Johnson

STANDARDS FOR RESPONSIBLE EXTERNAL MANUFACTURING



GUIDING PRINCIPLES

The Johnson & Johnson Family of Companies (Johnson & Johnson) holds itself to high standards of ethical behavior, product, quality and social responsibility. These standards reflect our internal values and the espectations of external stakeholders, such as customers, regulators, investors and the public. Furthermore, we find huniness relationships are more productive and effective when they are built on trust, mutual respect and common values. As such, Johnson & Johnson seeks relationships with external manufacturers of finished goods and active pharmaceutical ingredients (herein referred to as external manufacturing partners) who share a common commitment to:



- 11 Comply with applicable legal requirements.
- Behave ethically and with integrity.
- 31 Integrate quality into business processes.
- 4) Treat people with dignity and respect,
- 51 Promote the safety, health and well-being of employees.
- Operate in an environmentally responsible manner and,
- 7) Implement management systems to ensure propoling performance and continual improvement.

We believe when these seven guiding principles are followed, business and communities resize economic, social and environmental benefits. We developed the following standards to assist us with selecting partners who operate in a manner consistent with these guiding principles and to assist our external manufacturing partners with understanding our expectations. We developed these standards mindful of the different legal and cultural environments in which our external manufacturing partners operate and internationally recognized expectations for business ethics, product quality, labor and employment, health and safety and the environment, Johnson & Johnson assesses conformance to these standards and, when necessary, works with as external manufacturing partners to identify agreed upon actions and adhedules in order to achieve improvement. Johnson & Johnson considers progress in meeting these standards and ongoing performance in its sourcing decisions.

Global Standards for External Manufacturers

STANDARDS 1.] Legal Compliance Johnson & Johnson's external manufacturing partners are

expected to operate in compliance with all applicable legal requirements related to business conduct, product quality, labor and employment practices, health and safety and environmental protection. They are expected to obtain all applicable permits and to operate in accordance with permit limitations and requirements at all times.

2.1 Ethics & Business Conduct

Johnson & Johnson's external manufacturing partners are expected to behave ethically and with integrity in all business transactions. As such, they shalt

- the Uphold standards for fair business practices including accurate and buthful advertising, fair compatition, and antitust.
- Prohibit the exchange of privileges, weiver of penalties or fines, or special benefits through payment of bribes, Riegal political contributions, or other liket payments or methods.
- Saleguard against improper use and disclosure of confidencial. or sensitive information including intellectual property, pricing, employee and patient information.
- Marriain an environment and innovation.
- Treat any animals used in memor and follow the prin and reduction of laboratory

'Integrate quality into business processes'

'Treat people with dignity and respect'

'Comply with applicable legal requirements'

'Behave ethically and with integrity'

STANDARDS

3.) Product Quality

Johnson & Johnson's external manufacturing partners are expected to meet agreed upon quality requirements in order to provide goods and services that consistently meet required specifications and customers' needs, perform as intended and are safe for their intended use. These requirements shall be defined in a Quality Agreement and product specifications agreed to by Johnson & Johnson and its external manufacturing partner.

4.) Labor & Employment

Johnson & Johnson's external manufacturing partners are expected to treat people with dignity and respect. As such,



- m Not use forced, bonded, indentured or involuntary prison
- Not discriminate against or heress an individual on the basis. of race, color, religion, gender, pregnancy, HTV status, sexual orientation, nettonal origin, age, disability, veteran's status, marital status, or political affiliation.
- Not treat or threaten to treat an individual hership or inhumanally. Harsh or inhumene treatment includes sexual harassment or abuse, corporal purishment, coercion or verbel abuse.
- Avoid unserfe working conditions by providing sufficient rest. periods during the workday and honor agreed upon days off from work and maximum working hours.
- Pay wages for all hours worked and clearly communicate the weges that employees are to be paid to them in advence of commencing work. Communicate to all employees if overtime is required and the weges to be peld for such overtime.
- The Comply with Johnson & Johnson's Employment of Young Persons Policy and not employ anyone under the age of 16 and not employ anyone under the age of 18 to perform hazardous work.
- == Respect workers' rights to make informed decisions free of goerdon, threat of regrisel or unlewful interference regarding. their desire to join or not join organizations.
- Respect worker's rights to bergain collectively without unlawful interference

Global Standards for External Manufacturers



'Implement management systems to ensure ongoing performance and continual improvement.'

'Promote the safety, health and well-being of employees'

'Operate in an environmentally responsible manner'

7.] Management Systems

Johnson & Johnson's external manufacturing partners are expected to manage their activities systematically in order to meet the operating standards set forth in this document and to improve their operations continually. As such, they shall:



- Demonstrate top management commitment through policies, objectives, and formal processes for management
- Implement processes to control documents and records.
- Provide resources, including competent personnel and appropriate infrastructure, to ensure conformance to these
- Implement processes to control the production of Johnson. & Johnson products, manage change affectively and ansure customer requirements are satisfied.
- Implement processes to manage nonconformity and emergency situations related to products, processes and these standards, including the reporting of such events to applicable regulatory authorities and Johnson & Johnson es appropriate
- Identify and implement improvement actions, including affective complaint investigation, internal audit and corrective action processes.

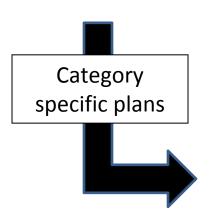
J&J's Global Standards for External Manufacturers

Program Elements Required for Implementation

- ✓ Communication of Expectations
- ✓ Prioritization/Risk Assessment
- ✓ Performance Assessment/Audit
- ✓ On-going Monitoring
- ✓ Incident Reporting
- ✓ Roles & Responsibilities
- Recordkeeping

Sustainable Procurement Efforts

- Procurement Category Focus
 - Chemical Suppliers, Metal Suppliers, Plastics Suppliers,
 Packaging Suppliers, Logistics, etc.



Packaging

- Category demographics
 - Total spend ~ \$X Billion
 - Consumer 2/3; Pharm 1/6; MDD 1/6
 - Total Suppliers ~2,000
- Key Material issues Sustainability
 - Environment Forest Products
 Management
 - Environment Energy Use/Carbon Footprint
- External Partners
 - EPA GSN
 - CDP
 - WWF-North America Forest + Trade Network
 - Wal-Mart SVN

- Action Plan
 - Engage key suppliers in CDP
 - Develop category specific RFP questions/integrate wood-products questionnaire
 - Enhance data collection processes for Annual Reporting and WWF
 - Education + Training (known, legal + certified sources)
- 2009 Goals/Objectives
 - 75% of participating suppliers complete CDP Supply Chain questionnaire
 - 100% known + legal sources
 - Increase Certified %
- 2012 & 2015 Objectives
 - TBD

Future of J&J's Efforts

- Procurement Category Focus
 - Chemical Suppliers, Metal Suppliers, Plastics Suppliers, Packaging Suppliers, Logistics, etc.



