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Summary of the Groups Presentations
First Workshop – June 21, 2001

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Water and Air

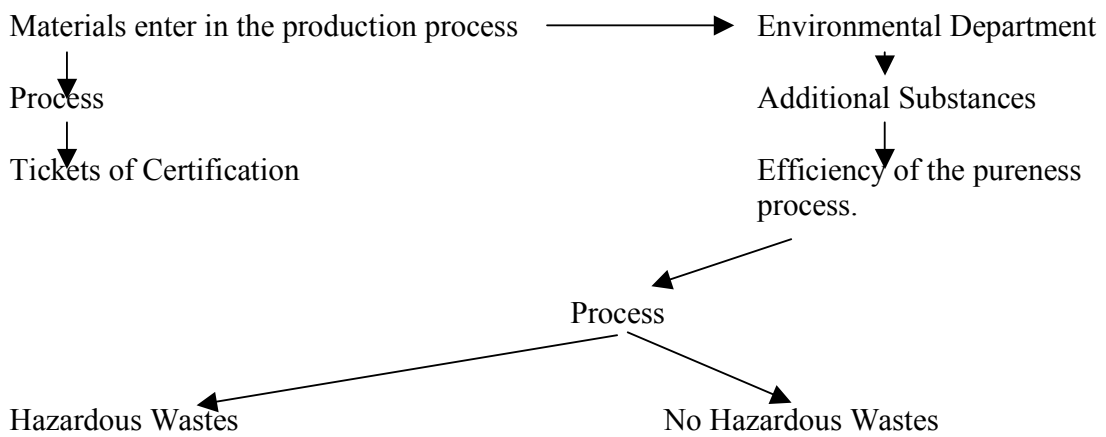
The project is produce small electrical components but it important to consider the environmental issues as the water, the air, the soil, and the energy. On a year and half, there is the idea to reduce in 50% of the water consumption. In order to get good successful, it is essential to review and change for better technology all the equipment of the water system. For example, we need to check what is the cafeteria conditions, the sanitarian places, the irrigation system for the green areas, the evaporation plants etc. The big part to complete the present project is to bring new technology as a solution alternative.

The atmospheric pollution is other worry issue of the company, for that reason will be priority task to reduce the smog and particles in internal sources as external sources. For instance, the internal sources are presented as target the welding process, residual of the paints, duties, organic vapors, smokers etc. The external sources are Heaters, Air conditions, chimneys, cars, trailers, trucks etc. To accomplish the objective we are going to develop the following steps. 1. We will give a general and specific training for the workers and staff of the company. 2. To hold a constant supervision of the all infrastructure with related with the program. 3. According to the Kyoto and Argentina agreements, we are going to complete all the legal requirements.

Group II
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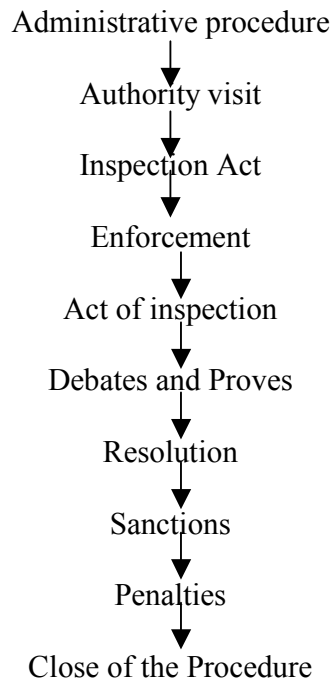
Hazardous Wastes

General Flow Diagram



Group 3
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Daniel H. Villa a.

Legal Framework



Group 4
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Gas and Electricity

We have the gas and electricity as sources of the energy, which should be supervised all the time to avoid any kind of environmental problems. For example, we need to establish the following program to put into action.

1. To have a complete register of the equipment with all the details because will have a monitoring plan in each work area.
2. According to the season, we should change the equipment.
3. We are going to install a preventive system through the colors diversity as alarms.
4. General energy interrupters will be installed to catch immediately the disruption problem. Computers, air conditions, heaters, lights etc will be turn off when the people have finished their activities. If we apply all the suggestions of the program, it is possible to reduce at least 10% of the original consumption of total energy for the company.

Group 5
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Recycle Process

Example for a company with 500 employees

Areas	Aspects and Impacts
Cafeteria Offices Production	To reduce the consumption of cartridge and ink It is necessary to reduce 25% of the paper consumption, plastics. In other words, the main intention is to contribute to reduce the environmental problems and save costs for the company. A letter of the good intentions to produce new generation of chemistry professional to complete the big goal of a sustainable development.

Group 6
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Community Problems

All the time is important to improve the environmental program of the company. In order to get good successful, it is necessary to establish an internal and external strategy. For example, internet system, free space, letter news are part of the internal policy. As external activities we have the constant campaign with the community through the media, schools and conferences. Kids are the most important for the future.

Group 7
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Communication and Training

To start the communication and training program in any kind of company the induction process is essential to get an environmental security. For example, the following steps should be completed for the company to get good results.

Environmental aspect	Environmental impact	Finance impact
General	Permit to function	Penalties and ins.
Storage	Permit for substance	Management
Cafeteria	Control of wastes	-----
Manufacturing process	Constant training	Training cost
Offices	Constant training	-----
Nursery	Hazardous waste	-----
Hazardous waste place	Registration of products.	Final Disposal.

Second Workshop – June 28, 2001

Group I

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Water and Air

The goal in this team is to present the water problem in a Plant of Woods Products. Over use of water creates a challenge to reduce the consumption of it. And also the chemical conditions are the health worry to reduce the health impact. The first analysis is to identify the water quality from the city system. Normally, most plants receive water with a high level of salinity. The production process needs pure water and we need to reduce the salinity through the sulfuric acid to change the PH of the water. When the water is ready in a neutral PH, we can use the water for the production process. But when we finish it, the quality of the water is bad water to re-use. In other words, the water has too many heavy metals. This is the problem during the production process.

On the other hand, the cafeteria has too much consumption of the water with high addition of chemical products. Consumption of pure water is the big problem in different areas of the plant. For example, Green areas, Sanitariums etc. In order to reduce the consumption of the water and improve its quality, it is necessary to apply the following environmental strategies.

1. It is important to develop better infrastructure and technology in all plant areas. For example, a water treatment plant is essential to reuse the water in sanitarium and green areas.
2. The cleaning system need to use recycled water not pure water.
3. Air conditioning needs to have constant maintenance as well as the constant supervision to reduce the disposal of the grease in places that demand too much water.
4. The efficiency of the discharge control of the water is important to avoid environmental problem and more money for the company.

Second Workshop Group II
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Recycle Waste

Company

Paper
Boxes
Scrap

Pallets
Cartridges
Water

Use and reuse

Photocopy machine, typewriter etc.
Material of Package.
Scrap of the production process,
aluminum, glass, etc.
Material used for transportation.
Printer, scanners, toners.
Treatment of water
irrigation system for green areas.

House

Paper
Metals
Glass
Plastic
Organic Material
Wood
Personal Things

Use and Reuse

Paper, newspaper, notebooks, books
etc.
Aluminum, copper, iron etc.
Glasses.
Milk bottles, bags, gallons, etc.
Waste Food.
Old Furniture
Shoes, clothes, bags, etc.

General Material

Tires
Computers

Group III
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Legal Framework

To accomplish all the legal requirements completely and on time.

To bring up to date all the environmental rules and materials relating to them. For example, to use the Internet system for environmental purposes, to have constant compilation of the Official Diary as such as the constant communication with the Environmental Institutions.

It is necessary to define who is the responsible for each regulation.

It is essential to establish a constant training about legal regulations.

An integral monitoring program should be established.

A philosophy of the company should exist regarding a permanent plan to reduce in any kind of environmental pollution.

Group IV
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Soil

Prevention of pollution of the soil demands diverse procedures for better environmental security. Maintenance department is the target area to accomplish the task. Disposal of Oil is the big problem, for this reason is suggested to create a disposal Center for Oil. In this center should take the decision to recycle of oil and separate the hazardous oil. All the separation procedures should be according to the legal framework. Also the financial impact is the other feature to consider because we need to spend more water and the company to spend more money. The objective for this point is to save money for other environmental activities. However, we know that community is the responsible of the damage of the environment. Finally the discharge to the drain and sewage impact are our responsibility.

Group V
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Diffusion Topic

To develop an integral diffusion program companies should consider both an internal and external program. To develop a diffusion plan in environmental terms, it is necessary to cover all the points into and out the company. For example, the company through the environmental department should develop materials of environmental diffusion to release to the schools, suppliers and customers. The company needs to show its interest to begin a real environmental program. All the diffusion programs should contain three very important characteristics to create high consciousness about the environmental policy of the company: Reduce, Reuse and Recycle are the main points in any kind of diffusion plan.

Group VI
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Communitaries Problems

Disposal of Tires

Sources

- a) Disposal of used tires

- b) Yonkers
- c) Mechanics shop
- d) Brick makers
- e) Trash
- f) Waste water
- G) Pollution of the Rivers

Effects

- 1. Vectors of infection
- 2. More Pollution
- 3. Security Problem
- 4. Bad Image
- 5. Pollution of the water, air, soil

Environmental Aspects

- 1. Day by day there is more number of vehicles.
- 2. Illegal Importations
- 3. Stores of tires do not have appropriate disposal.

Plans

- a) To use the tires in the construction
- b) To think about some recycling process.
- c) Investigation about tires use
- d) Concretization

Group VII
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Training

Training is needed for every body in the plant, because sometimes people do not know how they should dispose of the wastes. Managers, supervisors, workers need to be aware for a better environmental culture. Chemical products is the target issue in any kind of environmental training. Normally it is very difficult to give strong justification to develop environmental training programs. However, we have easy ways to show the importance of the environmental communication and training. For example if we use the health basis, the workers' environment etc. In any plant the human resources department is the key are to encourage the environmental training. If we have the infrastructure to give the environmental training we are completing the city, state and federal environmental norms and can pass any environmental audit. Legal framework is very clear on this topic. The environmental area needs to use training to create a culture of environmental sustainability. The following steps should be completed as an environmental program.

1. Training from Director and Manager until worker level.
2. According to position and function, it is necessary to detect all kind of necessities.
3. Specific training for technical persons in environmental impact.
4. At least basic training about ISO 14000 for everybody.
5. To verify that practice and theory are connected.

Group VIII
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Esteban Flores
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Hazardous Wastes

As hazardous waste this team presented the case of the oil. The companies in Juarez have consumed about 3,000,000 liters per year. The drain and trash of the oil waste to create an impact and damage for the water, soil, underground, flora and fauna. As a consequence of this environmental problem is the oncology process for the human being. For instance, the cancer developed in several parts of the human body. The legal failure to dispose properly of waste oil is a juridical amnesia. Until now there is not any kind of regulation. PROFEPA does not have worked over this issue. It does not have followed all the factors of this environmental problem. For example, a program for the automobilists should be established. This program should be content a center of collection as well as a register of the waste oil. Disposal and recycle phases of the oil have to motive and supported through the legal framework to create a consciousness and diffusion of the problem. An incentive plan will help to accomplish this goal, For example, a coupon system to exchange for new oil is an alternative action to improve the problem.

Financial Impact. Oil problem increase the costs to clean any sector and part of the company. The treatment of the water supply is more expensive. The agriculture production costs will be more uncertain and hard because the irrigation water system will have more problems for the oil content.

Objective: Recycle of the oil, regulation of the oil disposal, Legal framework diffusion and ecological consciousness.

Goal: To reduce 70% of water and soil pollution.

Responsible: Community

Cost of the Goal:?