



SEMARNAT
SECRETARÍA DE MEDIO AMBIENTE
Y RECURSOS NATURALES



Border 2020
Fortaleciendo la Capacidad Regional para el Manejo Sustentable de Lantas a lo largo de la Frontera Texas-Mexico /
Strengthening Regional Capacity For Sustainable Tire Management
Along Texas-Mexican Border



Contaminated Material and Site Management
Used and Scrap Tire Management Plans
(Model)



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¿What is a Management Plan?

- **It is an instrument whose objective is to minimize generation and maximize evaluation of solid urban waste, special management waste and specific threat waste**
 - **Operates under environmental, technological, economic and social criteria.**
 - **Designed under the principles of shared responsibility and integrated handling.**
 - **Considers the set of actions, proceedings and feasible means, and involves producers, importers, exporters, distributors, traders, consumers, by-product users, and great waste generators, accordingly, as well as the three levels of government.**
 - **Encourages innovation in processes, methods, and technologies that apply.**
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To which waste sources does a plan apply?

For Process Wastes	For consumer product wastes
<p>Wastes generated while producing goods or services (identified generator)</p>	<p>Waste generated by population at large, while consuming a product (not identified generator)</p>
<p>High volume generators, including solid waste</p>	<p>Mandatory for: Producers, importers, exporters, traders of consumer goods, and other official agencies</p>
<p>Special interes in knowing the destination, promote minimization, and using the waste to its fullest potential</p>	<p>Special interes in promoting recycling, minmization, use of wast and the concensual application among all stake holders.</p>
<p>Benefit is to the advantage of the company or entity.</p>	<p>Benefit resides in the protection of natural resources, expanding the useful life of landfills, creates value chains.</p>



Applicable Strategies for Management Plans

- **Prevention Measures:** licenses, environmental impact assessment, assurance measures, fiscal measures.
 - **Shared Responsibility:** It is necessary for the various agents engaged in wastes, to assume their responsibility, but not in isolation, but within a coordinated action (rent of material or reagents, returning packaging, etc.).
 - **Fomentar** recycling and treatment plants, implementation of methods, recovery systems and techniques, and finally, energy evaluation.
 - **Reduction** in the amount and volume of waste generated and, when applicable, their own degree of threat.
 - **Process Reengineering** during redesign of the process, the products or the raw material used.
 - **Industrial Symbiosis** when several companies are pursuing to use the waste of their companies as a raw material for the processes of others.
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Official Contents of a Management Plan

NOM-161-SEMARNAT-2011

STANDARD THAT SETS FORTH THE CRITERIA TO CLASSIFY SPECIAL HANDLING WASTES AND TO DETERMINE WHICH ONES ARE SUBJECT TO THE MANAGEMENT PLAN; THE LIST OF ALL OF THEM; THE PROCEDURE FOR INCLUSION OR EXCLUSION OR SUCH LIST, AS WELL AS ELEMENTS AND PROCEDURES TO FORMULATE THE MANAGEMENT PLANS.



Application Field

This Official Mexican Standard (NOM) is mandatory throughout the domestic territory for:

- 1. Great generators of RME.**
 - 2. Great generators of RSU.**
 - 3. Great generators and producers, importers, exporters, traders, and distributors of products that, when disposed of, become special handling wastes, which are subject to a special handling.**
 - 4. The Federation States who intervene in the processes established pursuant to this norm.**
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Elements of a Management Plan

- I. General information**
 - II. Diagnosis of waste**
 - III. Proposed integrated forms of management**
 - IV. Description of final destination**
 - V. Operation, control and monitoring Mechanisms**
 - VI. Participants and activities**
 - VII. Dissemination and communication mechanisms**
 - VIII. Other elements depending on the mode of the MP, such as:**
 - a) Infrastructure involved**
 - b) Substitution of raw material**
 - c) Change of technology**
 - d) Adhesion mechanisms**
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List of RMEs subject to a Management Plan



- I. Health service waste**
 - II. Agro-plastic waste from intensive activity of the primary sector**
 - III. Organic waste from intense activity in the primary sector**
 - IV. Transportation activity waste**
 - V. Water treatment sludges**
 - VI. Waste from department stores or shopping centers**
 - VII. Construction waste**
 - VIII. Products that are disposed of once their useful life expires, such as:**
 - a) Technological Wastes**
 - b) Vehicles at the end of their useful life**
 - c) Containers and packaging material**
 - d) Used and scrap tires**
 - e) Electric Appliances**
 - f) Plastics**
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Tire Management Model

Administration

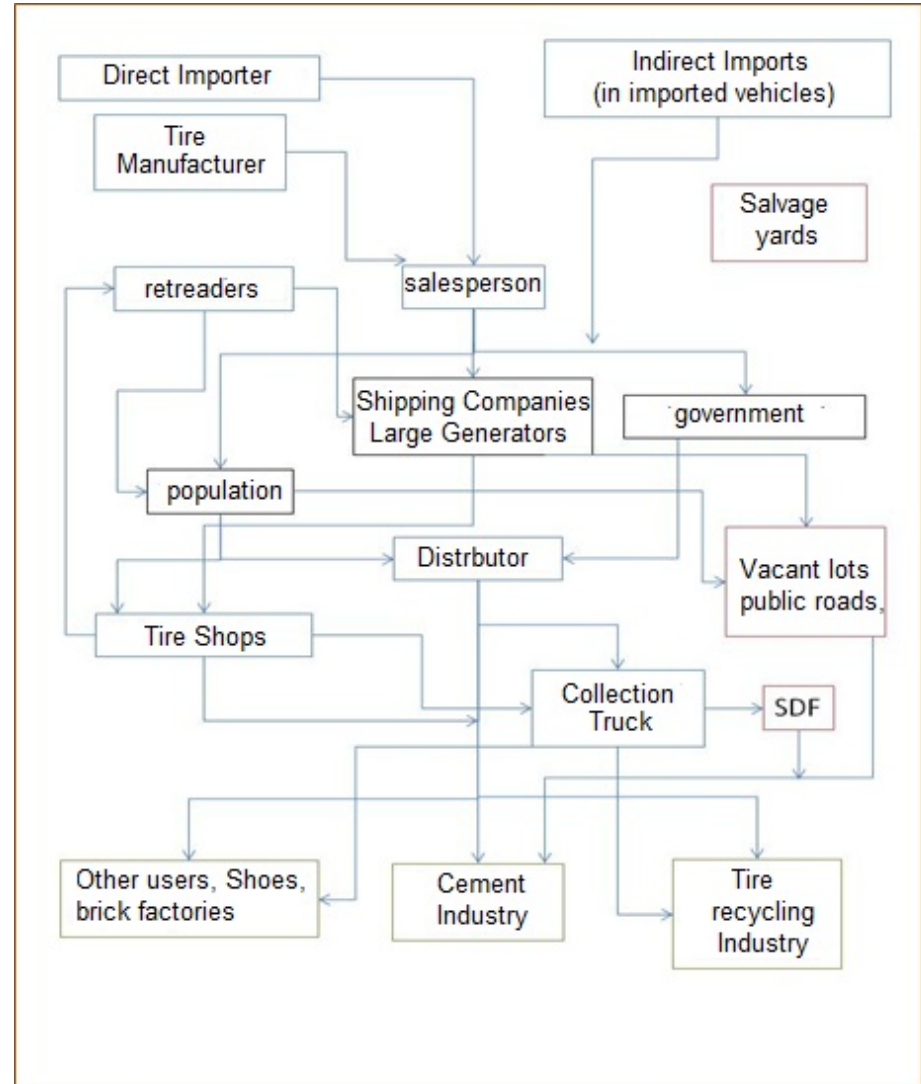
From 2004 – 2010

Forwarding tires to co-processing was supported.

From 2010 – 2012

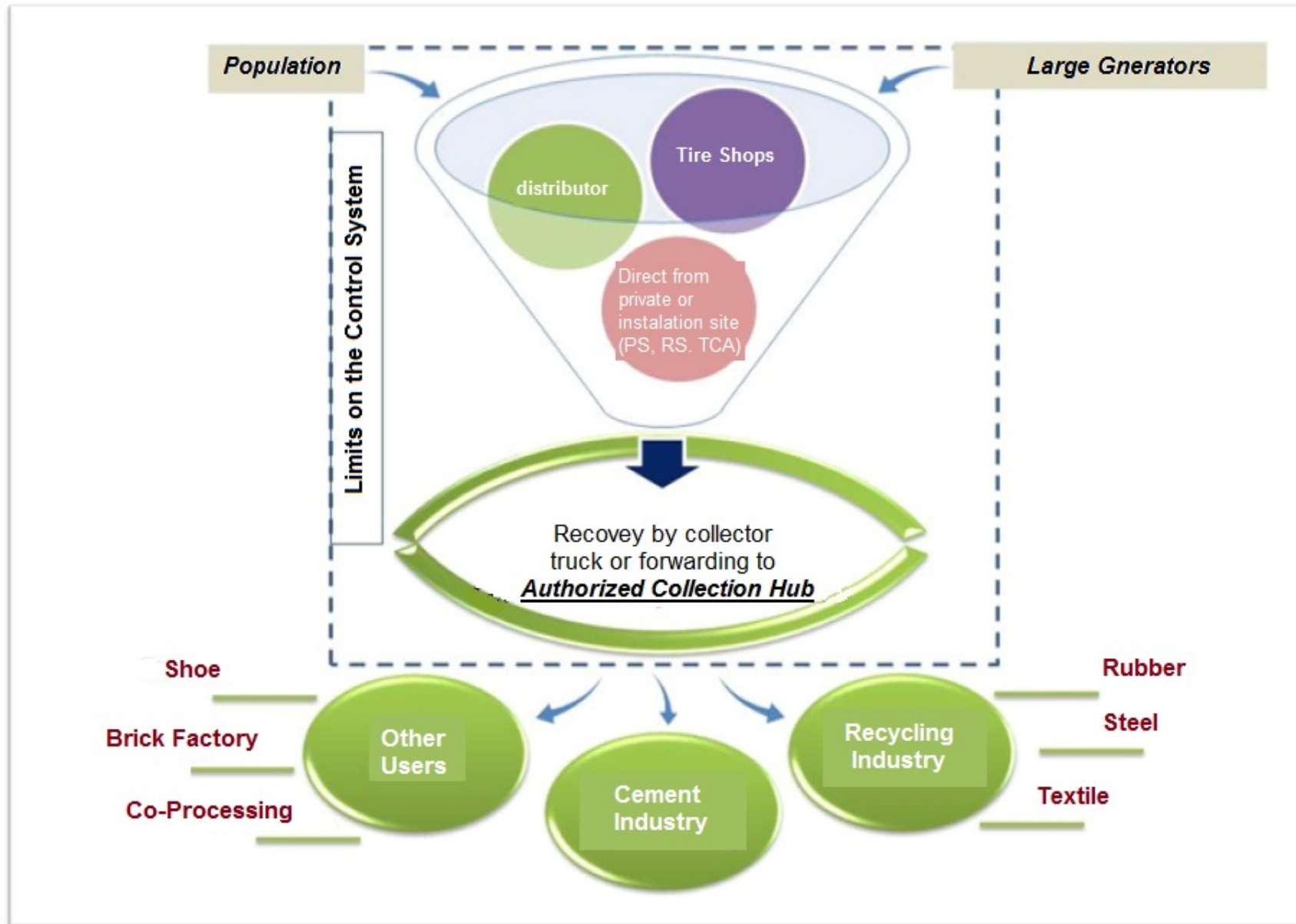
Creation of the Collection Hubs (Centros de Acopio) in BC was supported, as well as the acquisition of crusher equipment (Sonora, Tamaulipas, Nuevo León), and Chihuahua requested a crusher altogether.

Functions





Tire Management Model





Objectives and goals for Tire Management (proposal)

A) .- Prevent environment pollution that occurs due to inadequate handling of mobile vehicles used tires in the State of Tabasco.

- **During the first stage: Reduce poor disposal of tires by 50%, with annual improvements of 10 per cent.**
- **Gradually reduce the presence of tires in the environment.**
- **Prohibit disposal of tires in dumpsites, landfills, when the infrastructure is further developed.**



Objectives and goals for Tire Management (proposal)

B) .- To achieve the maximum use of thermal material per tire, considering:

- **Creation of Authorized Collection Hubs at the municipal and state levels, for tire storage and control.**
 - **Foster the creation of authorized micro and small industries, as well as coprocessing activities.**
 - **State and municipal governments to incorporate the acquisition of recycled rubber products in green purchases (public signage, parks, landscapes).**
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Objectives and goals for Tire Management (proposal)

C).- To have a control system for used vehicle tires from all actors and subjects to the State of Tabasco.

- **Preparation and application of Construction Guides, operation and closing of Municipa or State Collection Hubs.**
 - **Inventory and incorporatio of large generators, importers and distributors of the Management Plan.**
 - **Design and development of a regional informatio system for used and scrap tires.**
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