Are You Ready to Ship Your Products to Mexico and South America?

TÜV Rheinland IA Service
April 2009
Are You Ready to Ship Your Products to Mexico and South America?

- Established Certification Requirements
  - Mexico
  - Argentina
  - Brazil
  - Other Countries in South America

<table>
<thead>
<tr>
<th>Rank in world</th>
<th>Country</th>
<th>GDP (million US$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>USA</td>
<td>13,860</td>
</tr>
<tr>
<td>2</td>
<td>China</td>
<td>7,043</td>
</tr>
<tr>
<td>3</td>
<td>Japan</td>
<td>4,417</td>
</tr>
<tr>
<td>4</td>
<td>India</td>
<td>2,965</td>
</tr>
<tr>
<td>5</td>
<td>Germany</td>
<td>2,833</td>
</tr>
<tr>
<td>6</td>
<td>UK</td>
<td>2,147</td>
</tr>
<tr>
<td>7</td>
<td>Rússia</td>
<td>2,076</td>
</tr>
<tr>
<td>8</td>
<td>France</td>
<td>2,067</td>
</tr>
<tr>
<td>9</td>
<td>Brazil</td>
<td>1,838</td>
</tr>
<tr>
<td>10</td>
<td>Italy</td>
<td>1,800</td>
</tr>
<tr>
<td>12</td>
<td>Mexico</td>
<td>1,346</td>
</tr>
<tr>
<td>23</td>
<td>Argentina</td>
<td>523,7</td>
</tr>
<tr>
<td>30</td>
<td>Venezuela</td>
<td>335</td>
</tr>
<tr>
<td>34</td>
<td>Colombia</td>
<td>320,4</td>
</tr>
<tr>
<td>44</td>
<td>Chile</td>
<td>234,4</td>
</tr>
</tbody>
</table>

Source: CIA World Factbook
MEXICO - Introduction

Population - 108,700,891

Language - Spanish (Official)
Mayan, Nahuatl, and other regional indigenous languages

Voltage - 127 V
Frequency - 60 Hz
MEXICO - NOM/NYCE Requirements

NOM-NYCE – Mexican regulated mark for electronics. Include household electronics, office equipment and data processing equipment. The 3 main standards are:


MEXICO - NOM/ANCE Requirements

NOM-ANCE – Applicable for household electric devices, electric hand held tools, the key standard for electric devices:

MEXICO – Power Plugs

Type A
Flat blade attachment plug

Type B
Flat blades with round rounding pin
MEXICO – Summary

- NYCE is the certification body for Electronic Equipment and ANCE is the certification body for Electrical Equipment
- Mexico is a CB Scheme Member
- Language for applications and user manuals is Spanish
- Length of license is 1 year
- Product distribution methods is critical in obtaining cost effective product certifications
ARGENTINA - Introduction

Population - 40,301,927

Language - Spanish (official), English, Italian, German, French

Voltage - 220 V

Frequency - 50 Hz
ARGENTINA - Accreditation

Scope of Accreditation and Recognition

Organization Bodies are accredited by National Certification Body by OAA (www.oaa.org.ar), and recognized by the Government in the following fields:

- **Electrical and Electronic Products**
  Disposition of Recognition: Disposition No. 1143/99

- **Toys**
  Disposition of Recognition: Disposition No.1191/2003

- **Steel for Construction**
  Disposition of Recognition: Disposition No.1191/2003
ARGENTINA - Requirements

All products within the scope of application of Resolution 92/98 to be commercialized in Argentina, either locally manufactured or imported into the country, must have a certificate issued by an Accredited and recognized Certification Body in Argentina.

Products falling into mandatory certification system

- Low voltage equipment (under AC 1000V or DC 1500V)
- Household equipment, office equipment, audio and video, etc.

Products exempted from mandatory certification

- Medical Devices
- Fixed Telecom Installations
- Built-In Equipment for further production which won’t be placed on the market
- Products with a rated current above 63A
- Products below 50V
- etc.
ARGENTINA – Products below 50V

Products exempted from the mandatory certification system:

- Products below 50V with an autonomous power source (battery operated)
- Products below 50V with an external power supply (including those that may also operate with batteries). Nonetheless, following conditions must be met:
  - The power supply must have a valid certification for the Argentine market
  - The user’s manual of the product must indicate the technical characteristics of those power supplies that can be used together with the product, or the specific model to be used
  - The user’s manual must indicate the risk of using a different power supply other than the one specifically indicated

Products below 50V subject to the mandatory certification system:

- Luminaries and supply systems for luminaries, supplied by power sources directly connected to AC power networks at more than 50VAC.
- Diachronic lamps and their lamp holders
- Hand-held power tools
- Electric fence energizers
- Electronic muscle stimulators for fitness activities
Electronic components, plugs, fuses, and cables for electrical installation **need** an Argentina S-mark certificate in order to be imported and commercialized in the country. Type or lot approval are not available for these products.
ARGENTINA – Certification System - Type Approval

- Certification based on the evaluation of a sample of the product (type testing acc. to relevant standards)

- No modifications allowed

- No assessment of the series production of the product

- The Type Logo must be displayed on the product, but does not allow the use of the certification body logo

- The product is subject to a periodic market surveillance
ARGENTINA – Certification System – S Mark Approval

- The certification covers the series production of the product

- Modifications of the product, previously evaluated and approved by the certification body, are allowed

- Annual factory inspection required

- The certification body logo, along with the proprietary logo of the accredited certification organization, must be placed on the product

- Compulsory market surveillance
ARGENTINA – Certification System - Lot Approval

- The Lot approval is only valid for the imported or manufactured lot of products (it is only useful for a particular shipment)

- The certificate is based on the evaluation of the lot of products according to IRAM 15
  - complete test of one product
  - reduced test on rest of products

- The safety Logo must be displayed on the product, but does not allow the use of a TÜV Rheinland mark of conformity

- The lot number must be displayed on every product belonging to it

- No market surveillance
ARGENTINA – Power Plugs

Type 1 - Two pin for class II products

Rated voltage 220V / 50Hz (230, 220-240 is acceptable)
Plugs are of Class I with earth contact (3 connectors) and Class II without earth contact (2 connectors)
Plugs must be tested according to relevant IRAM 2063/IRAM 2073 and certified by an Argentinean Certification Body with Argentina S-mark
- 250V/10A Class I (IRAM 2073)
- 250V/20A Class I (IRAM 2073)
- 250V/10A Class II (IRAM 2063)

Type 2 - Oblique flat blades with ground for class I products

Connector and power cord must have an international Certification (VDE, etc.)
ARGENTINA – Documents for customs clearance

Documentation to be presented by importer/distributor in order to process clearance of products at customs

Authenticated copy of certificate

Authenticated copy of Authorization to import the products and use the certificate signed by the license holder

Market surveillance Notification Letter (if applicable)
ARGENTINA – Summary

- OAA is responsible for Certification Body accreditations and Lab Accreditations in Argentina
- IRAM is organization responsible to issue Argentinean standards and it is also a accredited body
- IEC standards are acceptable in Argentina
- Argentina is a CB Scheme member country
- Language for applications, labels and user manuals is Spanish
- Factory inspection requirements are dependent on the type of certification granted
- Market Surveillance is mandatory for S-Mark and Type Approvals
  - First surveillance within the first 180 calendar days from the license's date of issuance. Factory Inspection every year – can be done by TÜV Rheinland.
  - First surveillance within 90 calendar days from the license's date.
BRAZIL - Introduction

Population - 190,010,647

Language - Portuguese (official), Spanish, English, French

Voltage - 127/220 V (depending on the City)
Frequency - 60 Hz
BRAZIL - Requirements

Mandatory certification list:
http://www.inmetro.gov.br/qualidade/prodCompulsorios.asp

- Electro-medical equipments
- Hazardous location equipments
- Electrical cords, cables and plugs
- Protective devices, such as circuit breakers
- etc

Voluntary certification list:
http://www.inmetro.gov.br/qualidade/prodVoluntarios.asp

- Luminaries
- Household
- Electronic appliances and components
- IT equipment
- etc
BRAZIL - Certification System

Certification Systems

- Mandatory Certification
  - INMETRO
  - TÜV

- Voluntary Certification
  - TÜVRheinland

Precisely Right.
Brazil – Power Plugs

- Until Dec 31\textsuperscript{st} 2009, there are more than 10 formats allowed to use in Brazil

  - Type A - Flat blade attachment plug
  - Type B - Flat blade with round grinding pin
  - Type C - Round pin attachment plug

- After Dec 31\textsuperscript{st} 2009, all plugs must follow the NBR 14136 format

  - Non-rewirable plug two poles without earthing contact, 10A 250V~, NBR
  - Non-rewirable plug two-poles with earthing contact, 10A 250V~, NBR 14136/02
  - Non-rewirable plug two poles with earthing contact, 20A 250V~, NBR 14136/02
  - Non-rewirable plug two-poles with earthing contact, 20A 250V~, NBR 1413602
INMETRO is the organization responsible for issuing laws and rules for Product Certification (not for telecom) and also responsible for accreditation of certification bodies and labs.

NBR is the organization responsible for issuing Brazilian Standards.

Brazil is a CB Scheme member – Accept CB test report for INMETRO certification.

Language for applications, labels, and user manuals is Portuguese.

Length of a license depending on the product, example:

- Certification of IT and Home appliance devices are valid for 1 year, Factory Inspection must be done every year.
- Certification of plugs and cords are valid for 2 years, Factory Inspection must be done every semester.
- Certification of electro-medical devices are valid for 5 years, Factory Inspection must be done every year.

There are other regulators such as ANATEL for telecom devices that demands in-country safety tests based on ANATEL standards.
Other Countries with Safety Regulations

- Few Countries have significant product safety regulations
  - Chile
  - Uruguay
  - Venezuela
  - Colombia
- Countries with no current regulations
  - Much of Central America
  - Caribbean

- These countries expect to see an internationally recognized safety mark on products
- The CE Mark is not considered as an acceptable mark since it is not administered by an independent 3rd party
On the Horizon for the Americas

- **Mercosur**
  - Agreement between Brazil, Argentina, Paraguay and Uruguay, they are creating harmonized standards (Example: Toys test standard is already harmonized)

- **COPANT**
  - The object of COPANT shall be to promote the development of technical standardization and related activities in its member countries with the aim of promoting their commercial, industrial, scientific and technological development in benefit of the economic and commercial integration and the exchange of goods and services, while facilitating cooperation in the intellectual, scientific, economic and social spheres

- **COPANT Compliance Goals**
  - To encourage the development of accreditation and certification systems based on international criteria
  - To promote the harmonization, homologation and mutual recognition of accreditation and certification systems

- **Electric Certification Pilot Project**
  - Underway for several years
## COPANT

### Member Countries

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Argentina</td>
<td>Barbados</td>
<td>Bolivia</td>
<td>Brazil</td>
</tr>
<tr>
<td>Canada</td>
<td>Chile</td>
<td>Columbia</td>
<td>Costa Rica</td>
</tr>
<tr>
<td>Cuba</td>
<td>Dom Rep</td>
<td>Ecuador</td>
<td>El Salvador</td>
</tr>
<tr>
<td>Grenada</td>
<td>Guatemala</td>
<td>Guyana</td>
<td>Honduras</td>
</tr>
<tr>
<td>Jamaica</td>
<td>Mexico</td>
<td>Nicaragua</td>
<td>Panama</td>
</tr>
<tr>
<td>Paraguay</td>
<td>Peru</td>
<td>St Lucia</td>
<td>Trinidad&amp;Tobago</td>
</tr>
<tr>
<td>United States</td>
<td>Uruguay</td>
<td>Venezuela</td>
<td></td>
</tr>
</tbody>
</table>

- There is also a relationship with Caricom (Caribbean community)
Questions??????