

MILAGRO Logistics overview

Permits and clearances
Shipping and Importation
Customs
Infrastructure

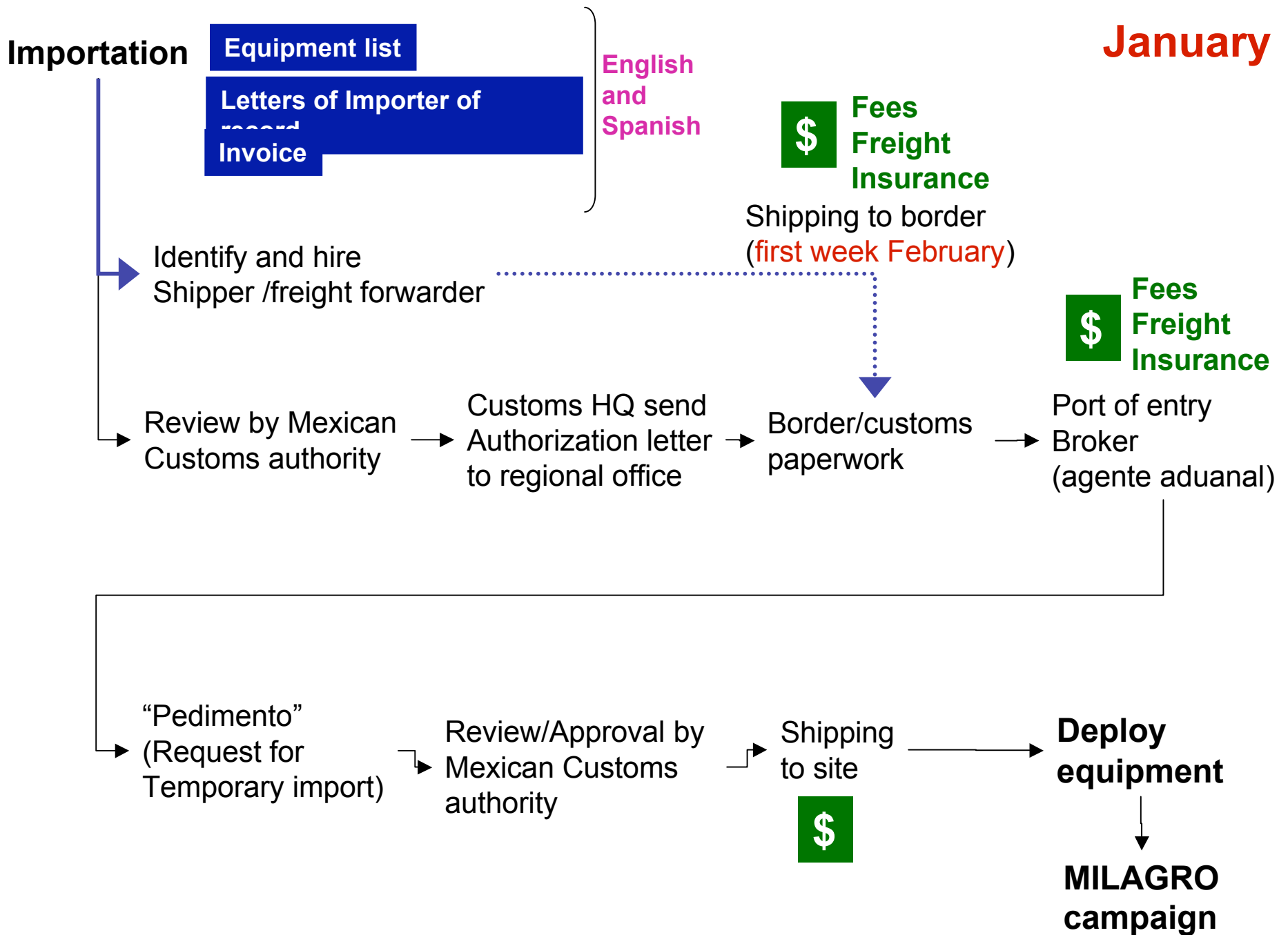
26 October 2005

Permits and clearances

- **Research permit:** SRE (foreign affairs ministry)
 - SCT (SENEAM, DGAC): frequencies, aircraft, balloons, profilers
 - SEDENA (Defense Ministry)
 - SEMARNAT (Environment Ministry)
- Submitted by US Embassy Science & Tech Office (includes aircraft clearances)
- Minimum of 90 days for authorization

Permits and clearances

- Shipping invoices for temporary importation
 - Comprehensive shipping manifest
 - Full and detailed descriptions
 - Serial number(s)
 - NO personal items (NONE) or standard office supplies (i.e. blank CD's, notebooks, pens and pencils, etc.)



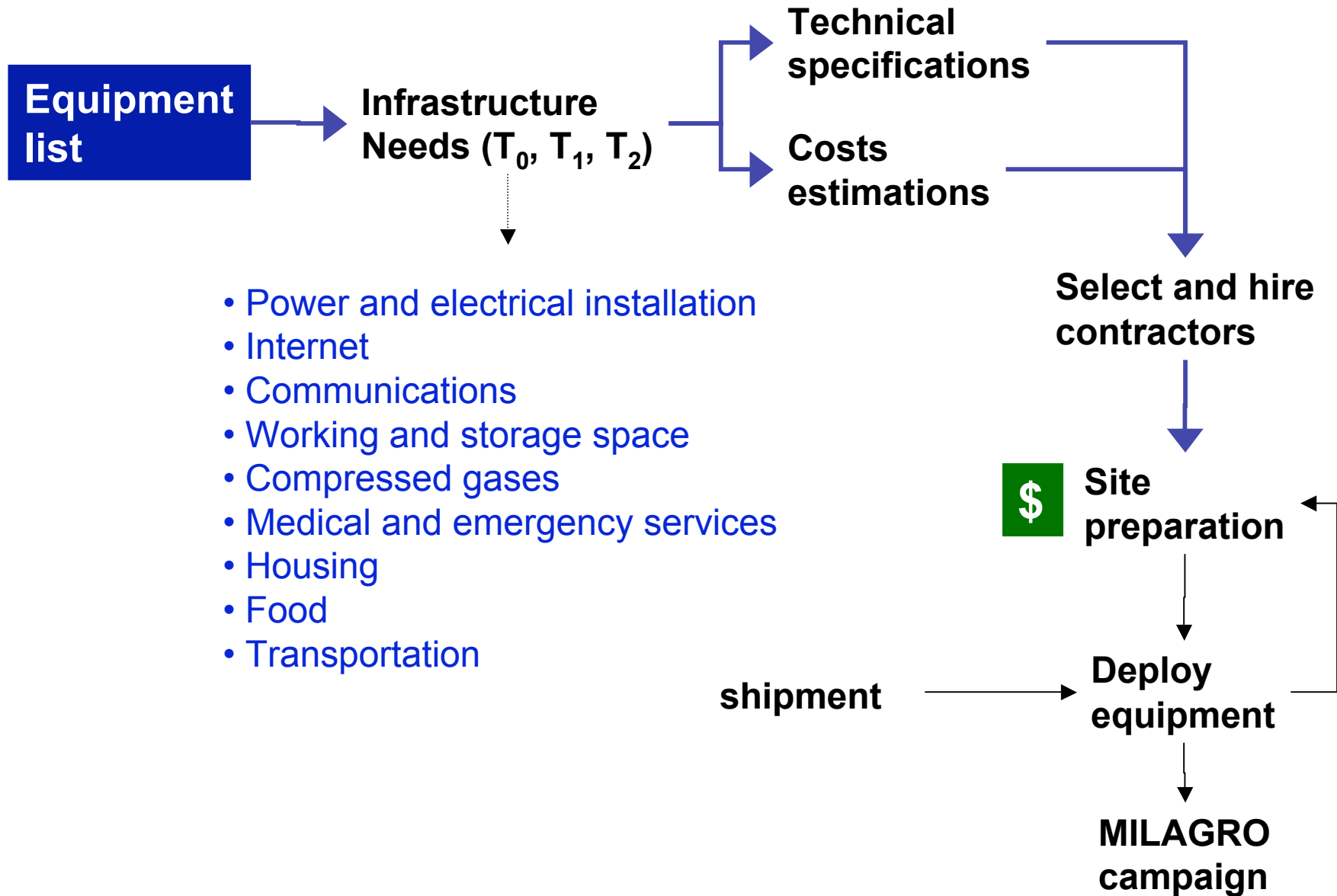
Permits and clearance

- Temporary Import of Vehicles
 - Title and registration
 - Pay deposit
 - 6 months permit
 - The authorized operator must always drive or be in the vehicle when circulating
 - 1 hour procedure at the border or through Mexican consulates in the USA.

Expendables

- Donations to UNAM (to be confirmed)
- Coordinated by NCAR/EOL
 - Letters of donation
 - Shipment including serial numbers
- Expendables:
 - Radiosondes (SMN, DOE, others)
 - Balloons (SMN, DOE, others)

Infrastructure



Power and electrical installation

- Enough power at T_0 and T_1 (400kVA), need site preparation according to needs.
 - Circuits? Amps? Voltage? Load centers? Panel boards? Power outlets? Circuit breakers? Etc.
- Power at T_2 but need installation and preparation according to needs
 - Circuits? Amps? Voltage? Load centers? Panel boards? Power outlets? Circuit breakers? Etc.
- Need backup power (UPS) for sites according to needs.

Internet and communications

- Internet access at T_0 , T_1 ; None at T_2 .
- Need to check bandwidth at T_1 . Sufficient?
- Internet connections to be installed where needed at T_0 and T_1 .
- Maybe satellite internet for T_2 .
- PBX full at T_0 and T_1 ; no phone (landline) service at T_2 .
- Need to contract for additional phone lines.
- Excellent cell phone signal at T_0 , T_1 ; fair at T_2 .
- May buy pre-paid cell phones at reasonable prices.
- Info will be at: <http://mce2.org> Website available Nov 1.

Working and storage space

- Rent trailers for T_0 , T_1 , and T_2 according to needs.
(estimate of US\$ 800 to 1000 per month per trailer)
- Available work space:
 - T_0 : need to check; maybe rent a trailer
 - T_1 : 900 ft² room. No desks, tables or chairs.
 - T_2 : 1,000 ft² small house. No desks, tables or chairs.
- Available storage space:
 - T_0 : May need to rent a trailer(s) or send to a CENICA office in Tecamachalco.
 - T_1 : 1,000 ft² space; maybe more
 - T_2 : >20,000 ft² warehouse available

Compressed gases

- What is needed? Send details on gases needs: type, purity, consumption (frequency, rate, total)... detailed specifications!!
- 3 companies: Praxair, Aga, and Infra
 - <http://www.praxair.com.mx/>, <http://www.aga.com.mx/>, <http://www.infra.com.mx/>
 - need to find out prices, availability in Mexico, payment methods, and delivery times per gas type.
- Status: check regulations (civil protection)
 - T_0 : need to follow internal institutional rules
 - T_1 : need a fenced area for cylinders, outside buildings.
 - T_2 : enough space.

Medical and emergency services

- Provide emergency medical information.
- Make sure your medical insurance covers Mexico.
- Do not eat at street vendors.
- Be responsible; follow safety and security guidelines recommended by US Embassy, UCAR Safety Officer, and Logistics (Mexico).

Housing:

- **T₀:** looking for a hotel close to T₀
 - With shopping mall and restaurants nearby
 - Within 20 min. driving distance.

T₁ and T₂:

- Zumpango Sports Complex: MXP\$ 850 per cabin
 - Cabins with one or two bedrooms for 4 to 6 people (double beds)
 - Use of facilities: tennis court, pool, running track...
 - Need to hire a cook for the time length
 - Located in a small town
- Hotel *Crowne Plaza* Pachuca: group rate MXP \$900 + taxes (17%)
 - Single or double
 - Internet access
 - Meeting room at Hotel if needed
 - Walking distance shopping mall, food court

Status:
No phone lines
No internet access

Food

- **T₀:**
 - To make sure that you have 2 or 3 restaurants within 15 min. walking distance. Full meal price may vary: MXP\$ 50 - 150.
- **T₁:**
 - University cafeteria
 - Convenience store (Oxxo) and supermarket < 1 mile away
- **T₂:**
 - Nearest small market: 2 miles
 - Supermarket: 15 miles (in Pachuca)
 - The small house will have a kitchen; may need a fridge and microwave.

Transportation

- Rent buses (maybe 2) and have routes between sites (T_0 , T_1 , T_2 , and housing)
- Operate according to schedule
- Have an additional van and driver at each site for special trips
- Paid by participants; cost to be estimated based on transportation needs.
- Recommendation: Do not rent car for Mexico City sites!

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