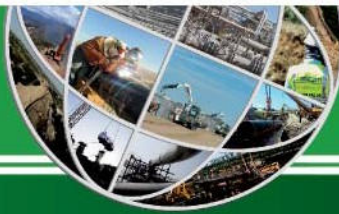


# LESSON LEARNT



SICIM  
QHSE

02/2017

Date:

February 2017

**OBJECT:** Pipe transport with trailers

## DESCRIPTION:

Pipe transport activity is performed in all pipeline projects. Many are the trips that are carried out by trailers to transport the pipes from the main stock yard to the secondary stock yard or directly to the RoW in order to proceed with the stringing. This activity, often outsourced to expert companies, is very risky because of the serious potential consequences. In the last years, in various SICIM projects, some accidents occurred with consequent the loss and fall of the cargo or the cargo surged forward and hit the driver's cabin.



Photo of some scenes of accidents that involved trailers carrying five 36" pipes and two 56" pipes in SICIM projects.

## PURPOSE:

Avoid the loss or accidental movement of cargo from trailers carrying pipes that can result in possible injury to the driver or community members or in damage to pipes, equipment and to third party property.

## SOLUTION:

Prepare, before the beginning of the activities, a detailed procedure and a complete risk analysis related to the pipes transport taking into consideration:

- Type of road to travel;
- Size of pipes that need to be transported;
- Type of means of transport.

The considerations must keep at a minimum the following references:

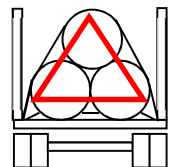
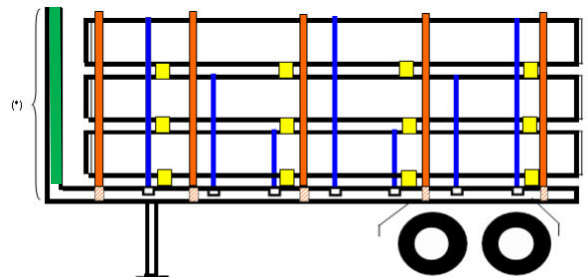
### — Straps:

- Minimum quantity 6 (to be verified with the pipe diameter);
- minimum width and lashing capacity of the straps must be calculated as a function of the dimensions of the pipes (eg.: transport of three 36" pipes: 6 x 7ton straps; transport of two 56" pipes: 9 x 12ton straps);
- block with straps each row of pipes to the trailer.

— Lateral steel load support and trailer headboard (■) at least 10 cm higher than the height of the highest row of the pipe.

■ Provide at least 4 pipe supports frames with neoprene mat or similar per every row.

**N.B.:** If there is the need to transport the pipes with a different configuration, the support frames must be constructed as shown in a technical report issued by an authorized technician.



For obvious stability reasons, it is always preferable to transport the pipes in more than one row with a triangle configuration (▲).

In case of itinerary with slopes, it is a good practice to anchor with straps the pipe bevels to the truck to prevent movements parallel to the direction of the travel (⚡).



## ADDITIONAL PRECAUTIONS

- Drive only approved and agreed roads;
- Always install the flashing beacons on the front and back of the truck;
- Use escort vehicles, where possible and required by law.