



# Trapping of shackle identification plate cable



## QSE alert

Associated non-conformity code: EV.0000001187

*This document contains public information and it is intended to share the lessons learnt from incidents and risk situations that could be of interest to others in the same sector as Acciona Energía.*

*This document may undergo updates due to the collection and analysis of better information, because of technical advances and the proposed measures etc. For this reason, it is very important to check with Acciona Energía for the latest versions of the issued alerts.*

### SCOPE

- World       Local. Country:
- All businesses       Construction       Production
- All technologies       Wind power       Hydraulic       Thermoelectric
- Photovoltaic       High voltage
- Others. Specify:

### FACTS

Incident in a wind farm during major corrective work to change the main shaft in Made 46 technology.

The crane driver was approaching with the lifting tools, a four-way bungee cord with four shackles for the technicians to fix on the gearbox lugs. During this operation a ring fitted to secure the identification plate on one of the shackles caught on the gearbox structure, specifically on a hose.



*Shackle identification plate caught on one of the gearbox hoses.*



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*Detail of ring securing identification plate to shackle.*

When the crane collected the cable to position the tool correctly, this caused it to break the gearbox hose causing an uncontrolled movement of the tool, which could have hit the technicians in the nacelle.

## LESSONS LEARNED

- Inadequate system for fixing the identification plate to the shackle.
- Before signs are given to the crane driver, the tools should be checked for proper placement with no elements that could interfere with the hook's movement.
- The technician giving indications to the crane driver must never lose sight of the load and concentration on the task.
- Remember that loads should be raised and lowered slowly.

## URGENT ACTIONS FOR IMMEDIATE APPLICATION

- Eliminate the ring of twisted cable for the identification plate. This information must be engraved on the shackle itself. This measure must be applied to any element in a similar situation.
- Disseminate the contents of this alert to everyone involved in similar operations.