

NOV's DROPS key activities:

Development

Participate in development of industry standards based on lessons learned and best practices.

Consciousness

Make people conscious of the risks and consequences when neglecting to follow the NOV guidelines and industry standards.

Courses

Create DROPS related courses and assign people that are in any manner part of the process of DROPS prevention or interaction with different parties.

Training

Develop and train NOV Employees, making it a second nature to integrate secondary retention and dropped object prevention in new and existing designs.

Preventive Engineering

Executing cross product group DROPS reviews of new designs, mitigation by preventive engineering.

Procedures

Create and maintain procedures describing how to follow up on DROPS issues, mitigation by reactive engineering.

Surveys

Offer Rig equipment surveys analyzing equipment state, and compliance to defined requirements. As a result, implement product upgrades and optimize inspection schemes.

Develop and maintain DROPS related monthly updated metrics:

- Average number of days a DROPS issue is aging prior to closure.
- Number (trends) of opened and closed cases.
- Analyze DROPS issues by type, application and product

Awareness

Increase DROPS awareness by creation and maintaining an internal NOV DROPS website publishing the above.

Please contact NOV Aftermarket at RA-AM@nov.com with reference to Rigdoc document 115752095 for further assistance.

Document name: NOV Global DROPS and its position in the Oil and Gas market.
First issue date: October 6th, 2021
Revision: 01

We are working together within our industry of Oil and Gas to reduce the number of incidents related to dropped objects.

The key success factor identified to fulfill our mission is clear and open communication between all involved.

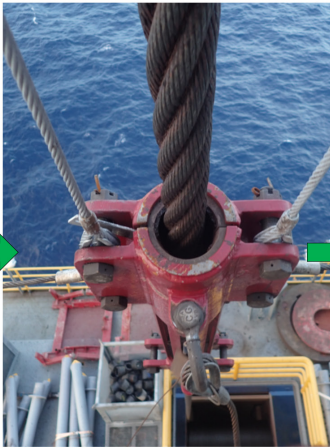
DROPS Global

DROpped Object Prevention Scheme

Mitigation through reactive and preventive engineering

Reactive Engineering

By reduced parts and complexity.



Product Improvement Notification

Date: 02 February 2021
Bulletin Number: 000001894-PIN Revision: 01

Subject: Availability of new rollers: Fast Line Stabilizer to reduce maintenance and potential dropped objects.

Product Model: Roberies Fast Line Stabilizer

Effectivity: All Derricks

Affected Assemblies: All Derricks

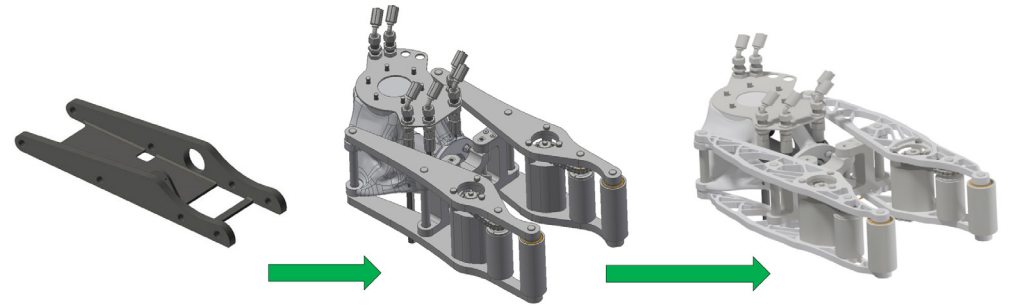
Objective: To inform the industry about the availability of 8.000.00000 fast line stabilizer, which reduces maintenance and inspections of the fast line stabilizer.

Description: The new stabilizer has:
 • No moving parts,
 • Two sets extremely wear resistant guide bushings replacing eight roller assemblies,
 • Reduced number of parts to minimize risk of dropped objects (i.e. 89 down to 26, 38003 comparing roller type with new design),
 • Can be installed using the same cable setup and replace the conventional roller type fast line stabilizer without modifications,
 • In 800000 recent field tests have further demonstrated very little wear on the drill line.

Picture 1: Design of new stabilizer **Picture 2:** New stabilizer top view

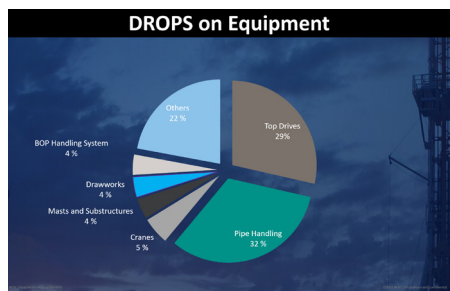
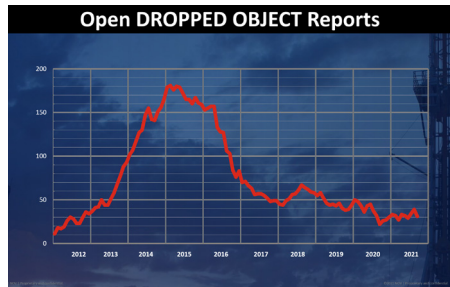
Preventive Engineering

By reduced parts and weight.



Metrics and performance

DROPS dashboard, showing trends and DROPS activity to allow monitor, manage and steer performance.



NOV DROPS representative locations



Communication

Using system structure for incident reporting and NOV follow up to closure serving customer needs.



Continuous improvement

Best practices and lessons learned actively integrated in old and new designs.

