



A DROPS Implementation Story by TESCO

Introduction to Tesco



Tesco Corporation is the premier oilfield service company providing Rig Mechanization, Tubular Services and Rig Maintenance for customers' operations throughout the world.







Benefits: TESCO Casing Drive System™





DROPS - "PIT" Project



BACKGROUND:

- ➤ TESCO had experienced an increase in dropped objects incidents with the potential to cause injury, disability and/or death.
 - ➤ 17 Dropped Objects Globally in Q1 2013
 - > 35 Dropped Objects Globally by Q4 2013
- Industry is taking dropped objects more seriously. Majority of our clients have dropped object prevention programs and are expecting their suppliers to abide by or exceed their policies.
- First PIT project aimed at HSE to implement a new program and process within TESCO, as part of the TESCO 3.0 strategy.

Project Team



- Project Sponsor Randy Nemeth
- Project Leader Don Elam
- **Project Manager** Shawn Tkatch
- Project Support:
 - James Ward
 - Simon Blackwood
- Project Team Members:
 - Nick Nesterenko
 - Bill VanDerende
 - Kevin Nikiforuk
 - Paul Meeks
 - Juan Hernandez
 - Robert Stoltje
 - Jeremy Dill



Scope Statement (message from the Sponsor)



"To develop and implement a recognized and industry leading DROPS program, aligned to TESCO QHSE standards, that is fully measurable, sustainable, and can be used as a tool for all BU's in our workshops and service locations to prevent dropped objects and ensure personnel safety."





Kick Off Workshop – May 2013











Action Plan: Tasks



Eleven main tasks with 100+ sub-tasks identified to develop and implement a Dropped Object Prevention Program for TESCO.

IT PROJECT - TESCO DROPS PROGRAM - TASK LIST	Rev2			PIT Manager - Shawn Tkatch
ask Name	Planned Start Da ▼	Finish Date ▼	Planned Duratic ▼	Assigned To
- Perillon		5/31/2013	10 days	Assigned To
Changes to Perillon for DROPS Program	5/20/2013	5/31/2013	10 days	
Review the changes identified in Workshop	5/20/2013	5/22/2013	3 days	Bill VanDerende, Juan Hernandez
Make changes to Perillon	5/23/2013	5/31/2013	7 days	Bill VanDerende, Juan Hernandez
Verify and ensure Perillon access for necessary staff	5/20/2013	5/31/2013	10 days	Bill VanDerende, Juan Hernandez
- DROPS Program	5/17/2013	7/17/2013	44 days	
12a - DROPS Global Membership	5/17/2013	7/17/2013	44 days	
Acquire DROPS Online Membership for TESCO	5/17/2013	5/24/2013	6 days	Don Elam
Register Project Team for DROPS Forum July 17th in Houston	5/20/2013	5/24/2013	5 days	Don Elam
Project Team attend DROPS Forum July 17th in Houston	7/17/2013	7/17/2013	1 day	Don Elam
2b - Define TESCO DROPS Program	******	6/3/2013	11 days	
Define DROPS definition for TESCO	5/21/2013	5/24/2013	4 days	Don Elam
Define DROPS severity classification and Matrix for TESCO	5/28/2013 5/20/2013	6/3/2013 5/28/2013	5 days	Don Elam Nick Nesterenko
Define and Recommend Red Zone awareness for TESCO DROPS Program 12c - Customize the DROPS Global Program for TESCO	5/20/2013	6/25/2013	7 days 27 days	NICK Nesterenko
Full familiarization with DROPS Online material	5/20/2013	5/24/2013	5 days	Juan Hernandez
Develop first draft of TESCO DROPS Program	5/27/2013	6/7/2013	10 days	Juan Hernandez
Project Team review meeting of TESCO DROPS Program draft (Set up Meeting)	6/10/2013	6/10/2013	1 day	Juan Hernandez
Revise 2nd draft of TESCO DROPS Program	6/11/2013	6/14/2013	4 days	Juan Hernandez
Project Team review meeting of 2nd draft (Set up Meeting)	6/17/2013	6/17/2013	1 day	Juan Hernandez
Finalize TESCO DROPS Program	6/18/2013	6/20/2013	3 days	Juan Hernandez
TESCO DROPS Program approval by HSE Director	6/21/2013	6/24/2013	2 days	Juan Hernandez
Present TESCO DROPS Program at Midpoint Meeting for group discussion	6/25/2013	6/25/2013	1 day	Juan Hernandez
- Documentation	5/17/2013	6/21/2013	26 days	
3a - Tubular Services Job Packet	5/17/2013	6/21/2013	26 days	
Review all documentation and determine which docs require revision to include DROPS	5/17/2013	5/24/2013	6 days	Nick Nesterenko
Revise documentation to include DROPS	5/27/2013	6/7/2013	10 days	Nick Nesterenko
03b - Top Drive Rentals Job Packet	6/10/2013	6/21/2013	10 days	Nick Nesterenko
3b - Top Drive Rentals Job Packet	5/17/2013	6/21/2013	26 days	
Provide TD Rentals Job Packet	5/17/2013	5/24/2013	6 days	Juan Hernandez
Review all documentation and determine which docs require revision to include DROPS	5/27/2013	5/31/2013	5 days	Jeremy Dill
Revise documentation to include DROPS	6/3/2013	6/7/2013	5 days	Jeremy Dill
03c - DROPS Standard	5/20/2013	6/21/2013	25 days	BF-1-81
Develop DROPS Standard for TESCO Include Safeway in DROPS Standard	5/20/2013 6/10/2013	6/11/2013	15 days 2 days	Nick Nesterenko Nick Nesterenko
Document approval from Quality and HSE Depts	6/12/2013	6/21/2013	2 days 8 days	Nick Nesterenko
03d - Incident Investigation Standard	6/10/2013	6/21/2013	10 days	NICK NESTEINO
Review and revise Incident Investigation Standard to include DROPS	6/10/2013	6/14/2013	5 days	Nick Nesterenko
Document change approval from Quality and HSE Depts	6/17/2013	6/21/2013	5 days	Nick Nesterenko
03e - Various Document Creation, Review and Revision	5/17/2013	6/21/2013	26 days	
Develop Workshop Audit Tool for DROPS prevention	5/27/2013	6/21/2013	20 days	Nick Nesterenko
Implement Hazard Hunt for DROPS in Observation Cards and receive Q and HSE approval on revisio	5/27/2013	6/7/2013	10 days	Don Elam
Define Critical Lifts and ensure documentation is updated	5/17/2013	5/31/2013	11 days	Robert Stoltje
Add DROPS section to existing JSA form and receive Q and HSE approval on revision	5/27/2013	6/7/2013	10 days	Robert Stoltje
Review/Revise RES form to ensure high attention to DROPS engineering requests	5/20/2013	6/7/2013	15 days	Kevin Nikiforuk
Review/Revise 8 Min Point Document to include DROPS	5/23/2013	6/5/2013	10 days	Paul Meeks
Review/Revise Tagging Work Instruction to implement DROPS prevention	5/23/2013	6/12/2013	15 days	Juan Hernandez
Review/Revise Top Drive Rig Up Checklist to include DROPS	5/23/2013	6/5/2013	10 days	Bill VanDerende
Review/Revise Fault Report to include DROPS	5/23/2013	6/5/2013	10 days	Nick Nesterenko
Review/Revise the Work Scope documeny to include DROPS	5/23/2013	6/5/2013 6/5/2013	10 days	Bill VanDerende
	5/23/2013	6/5/2013	10 days 10 days	Bill VanDerende Nick Nesterenko
Review/Revise the Rig Floor Orientation document to include DROPS				Nick Nesterenko
Develop Field Audit document for TS and include DROPS	5/23/2013			
Develop Field Audit document for TS and include DROPS Review/Revise Field Audit document for TD and include DROPS	5/23/2013	6/5/2013	10 days	
Develop Field Audit document for TS and include DROPS Review/Revise Field Audit document for TD and include DROPS Reviser/Revise Top Drive Maintenance documentation to include DROPS	5/23/2013 5/23/2013	6/5/2013 6/12/2013	15 days	Robert Stoltje
Develop Field Audit document for TS and include DROPS ReviewRevise Field Audit document for TD and include DROPS ReviserRevise Top Drive Maintenance documentation to include DROPS - Equipment Focus	5/23/2013 5/23/2013 5/17/2013	6/5/2013 6/12/2013 7/12/2013	15 days 41 days	
Develop Field Audit document for TS and include DROPS ReviewPrevise Field Audit document for TD and include DROPS ReviserPrevise To prive Maintenance documentation to include DROPS - Equipment Focus 40 a - TD Rental Fleet DROPS Hazard Identification	5/23/2013 5/23/2013 5/17/2013 5/20/2013	6/5/2013 6/12/2013 7/12/2013 7/12/2013	15 days 41 days 40 days	Robert Stoltje
Develop Field Audit document for T3 and include DROPS Review/Revise Field Audit document for TD and include DROPS ReviseRevise Top Drive Maintenance documentation to include DROPS 1- Equipment Focus 94a - TD Rental Fleet DROPS Hazard Identification MH-Identify components requiring special attention due to high potential for DROPS	5/23/2013 5/23/2013 5/17/2013	6/5/2013 6/12/2013 7/12/2013	15 days 41 days 40 days 5 days 5 days	
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95 - TMF and R&D				
Work with Engineering and R&D to revise STD-0024 to include DROPS hazard identification	5/27/2013	6/14/2013	15 Days	Kevin Nikiforuk
Work with Engineering to develope an internal specification document for DROPS which will be the standard for all equipment manufactured by TESCO	5/23/2013	7/3/2013	30 Daus	Kevin Nikiforuk
06 - Proactive Hand Tool DROPS Prevention	5/20/2013	6/7/2013	15 days	
Research Hand Tool DROPS prevention devices and provide recomendations to Project Team	5/20/2013	5/31/2013	10 days	Kevin Nikiforuk
Research SRL for workshops and provide recommendations to Project Team	5/20/2013	5/31/2013	10 days	Kevin Nikiforuk
Create a tools and material inventory list to ensure no tools/materials are left in the mast	6/3/2013	6/7/2013	5 days	Kevin Nikiforuk
	5/17/2013	6/14/2013		Kevin Nikiroruk
7 - TESCO DROPS Committee			21 days	
Define DROPS Committee requirments and responsibilities	5/17/2013	5/30/2013	10 days	Don Elam
Create DROPS Committee Charter	5/31/2013	6/7/2013	6 days	Don Elam
Identify DROPS Committee members in each district and confirm acceptance	5/17/2013	6/7/2013	16 days	Don Elam
Coordinate DROPS Committee Kickoff Meeting (Conf Call) to ensure full understanding by all				
members	6/10/2013	6/14/2013	5 days	Don Elam
98 - Communication	5/20/2013	7/26/2013	50 days	
08a - Internal - DROPS Program Awareness	6/3/2013	7/26/2013	40 days	
Develop communication material to inform employees of TESCO DROPS Program (ex. Posters,				
Intranet, Presidents Message)	6/10/2013	6/28/2013	15 days	Juan Hernandez
Launch communication within NABU districts	7/22/2013	7/26/2013	5 days	Juan Hernandez
Add DROPS Awareness to Q & HSE Focus Board in each Test District Work Shop	6/3/2013	6/14/2013	10 days	Don Elam, Robert Stoltje, Paul Meeks
Create New Hire Employee DROPS awareness material and ensure it is added to orientation	6/24/2013	7/12/2013	15 days	Nick Nesterenko
08b - Customer - DROPS Program Awareness	5/20/2013	7/26/2013	50 days	
Determine a strategy to make TESCO customers aware of our DROPS program (ex. Mailer, Word of				
Mouth, Sr. Mgmt meetings)	5/20/2013	6/7/2013	15 days	Juan Hernandez
Implement strategy to make customers aware of TESCO DROPS program	7/22/2013	7/26/2013	5 days	Juan Hernandez
08c - Bulletins and Dropped Object Communication	5/27/2013	7/5/2013	30 days	odan memandez
				man a
Confirm the method for customer communication when a drop has occured (include Legal)	5/27/2013	6/7/2013	10 days	Bill VanDerende
Confirm the method for internal communication when a drop has occured (Immediate BU alert etc.)	5/27/2013	6/7/2013	10 days	Bill VanDerende
Include the above in the appropriate Quality and HSE documentation and Work Instructions	6/10/2013	6/21/2013	10 days	Bill VanDerende
Receive approval from Q & HSE on documentation revisions	6/24/2013	7/5/2013	10 days	Bill VanDerende
99 - DROPS Analysis	5/20/2013	7/5/2013	35 days	
09a - DROPS Survey	5/20/2013	7/5/2013	35 days	
Develop a survey to receive feedback from the field and shop technicians on DROPS areas of				
concerns and prevention	5/20/2013	5/31/2013	10 days	Jeremy Dill
Distribute the survey to minimum 100 employees	6/3/2013	6/14/2013	10 days	Jeremy Dill
Receive 70% return rate of survey	6/17/2013	6/21/2013	5 days	Jeremy Dill
Analyse survey results and present to DROPS Project Team for action items	6/24/2013	6/28/2013	5 days	Jeremy Dill
	7/1/2013	7/5/2013		Jeremy Dill
Assign any actions resulting from the survey and follow up	5/22/2013	6/13/2013	5 days	Jeremu Dill
09b - Dropped Object Analysis	5/22/2013	5/31/2013		Juan Hernandez
Analyze historical dropped object incidents in NABU and trend severity, repeats, cause etc.		6/4/2013	8 days	
Identify areas where action can be taken to mitigate/eliminate reoccurance	6/3/2013		2 days	Juan Hernandez
Report back to Project Team and HSE Director on analysis and areas for action	6/5/2013	6/5/2013	1 day	Juan Hernandez
Implement action to address identified areas achievable within project timeframe	6/6/2013	6/13/2013	6 days	Juan Hernandez
0 - Training	5/17/2013	7/5/2013	36 days	
10a - Project Team Training	5/17/2013	6/14/2013	21 days	
Develop training material on DROPS Global program	5/17/2013	6/7/2013	16 days	Don Elam
Perform DROPS Global training for DROPS Project Team	6/10/2013	6/14/2013	5 days	Don Elam
10-b - Training Material - TESCO DROPS Program	6/17/2013	6/28/2013	10 days	
Develop training material on TESCO DROPS Program including new/revised documentation and	011112010	OIL OIL OIL	10 0035	
processes	6/17/2013	6/28/2013	10 days	Don Elam
10c - TESCO DROPS Program Training	7/1/2013	7/5/2013	5 days	DOILEIGH
				Don Elam
Perform TESCO DROPS Program training for TESCO DROPS Committee	7/1/2013	7/5/2013	5 days	
Lafayette - Train prior to program test	7/1/2013	7/5/2013	5 days	Paul Meeks
Alice - Train prior to ro program testing	7/1/2013	7/5/2013	5 days	Don Elam
Brittmoore - Train prior to program testing	7/1/2013	7/5/2013	5 days	Robert Stoltje
1 - Program Testing	7/8/2013	7/31/2013	18 days	
11a - NABU Pilot Test TESCO DROPS Program	7/8/2013	7/16/2013	7 days	
Lafayette - Run pilot test of process and documentation on minimum 5 jobs	7/8/2013	7/16/2013	7 days	Paul Meeks
Alice - Run pilot test of process and documentation on minimum 5 jobs	7/8/2013	7/16/2013	7 days	Don Elam
	7/8/2013	7/16/2013	7 days	Robert Stoltje
Brittmoore - Run pilot test of process and documentation on minimum 5 john			11 days	I lobert otolde
Brittmoore - Run pilot test of process and documentation on minimum 5 jobs	711712042			
11b - Audit and Adjust TESCO DROPS Program	7/17/2013	7/31/2013		Des Class Debug Cookie De 111 1
11b - Audit and Adjust TESCO DROPS Program Audit pilot test documentation and gather employee feedback on new DROPS program	7/17/2013	7/19/2013	3 days	
11b - Audit and Adjust TESCO DROPS Program Audit pilot test documentation and gather employee feedback on new DROPS program Recommend any TESCO DROPS Program changes to project team and Q & HSE Directors	7/17/2013 7/22/2013	7/19/2013 7/23/2013	3 days 2 days	Don Elam, Robert Stoltje, Paul Meeks
11b - Audit and Adjust TESCO DROPS Program Audit pilot test documentation and gather employee feedback on new DROPS program Recommend any TESCO DROPS Program changes to project team and Q & HSE Directors Implement any necessary approved changes to program and documentation	7/17/2013 7/22/2013 7/24/2013	7/19/2013 7/23/2013 7/30/2013	3 days 2 days 5 days	Don Elam, Robert Stoltje, Paul Meeks Don Elam, Robert Stoltje, Paul Meeks Project Team
11b - Audit and Adjust TESCO DROPS Program Audit pilot test documentation and gather emplogee feedback on new DROPS program Recommend any TESCO DROPS Program changes to project team and Q & HSE Directors	7/17/2013 7/22/2013	7/19/2013 7/23/2013	3 days 2 days	Don Elam, Robert Stoltje, Paul Meeks

Program and Standard





Ref. ST-HSES-20	Global Quality Document	Owner: BU HSES Manager
Rev. 0	Dropped Object Frevention	Approved by: Corp. Quality Syst. Mgr. Global Director HSE
Date: 31 st July 2013	Standard	Page 1

Amendments issued since publications

Mad No.	Date	Comments

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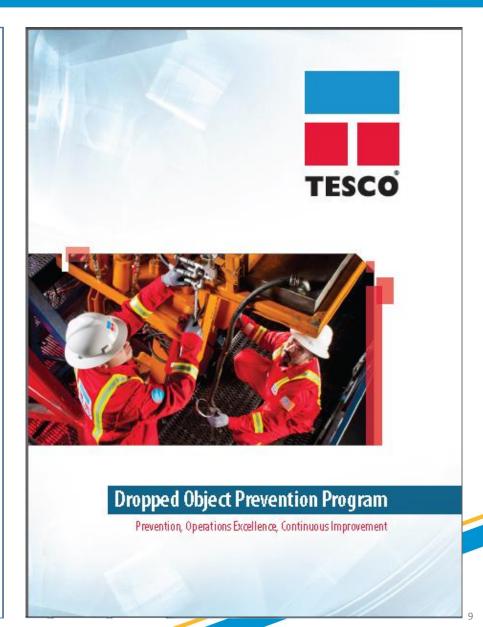
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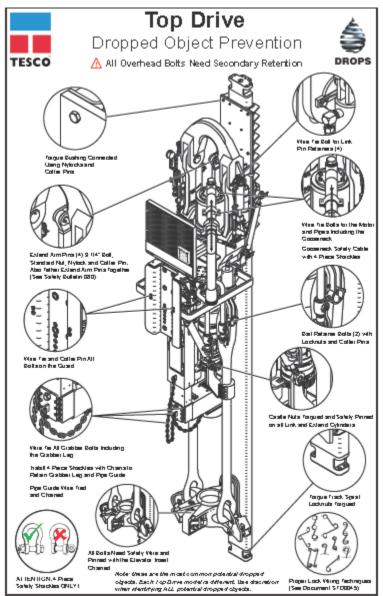
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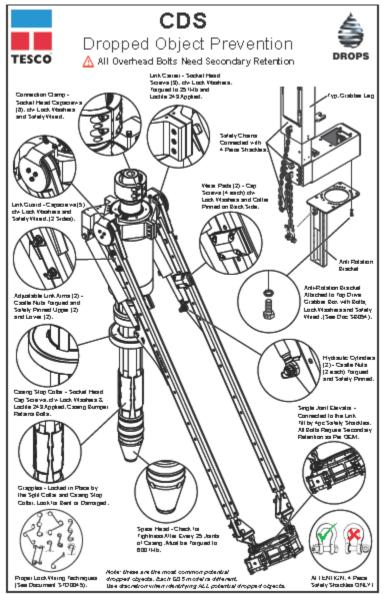
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Dropped Object Prevention Posters







DROPS Membership



Acquired DROPS Global Membership







Program in Effect!!





INSERT DATE (IN	SERT TIME) : INSERT L	LOCATION		
The objective of this Haz Inspect all our Facilities for any uncontrolled obj- potential to fall. The Hazard Hunt applies to on and offshore. A (including Offices) should for potential dropped obje	and Locations ect that has a to all locations, all work-sites the inspected			A
unaccules toous at emper			source)	passion septimed. Of SAME FY LOOKING SEPTIMES.
Unsecured objects sh Items left on top of co Items stored inapprop Items that are locally Items loaded with ina-	TO LOOK ored or unsecure at height intainers / skid frames / grating etc. ristely at height modified / homemade and not certif doquate means to secure properly ipment (current code is INSERT CO	led	10 L	

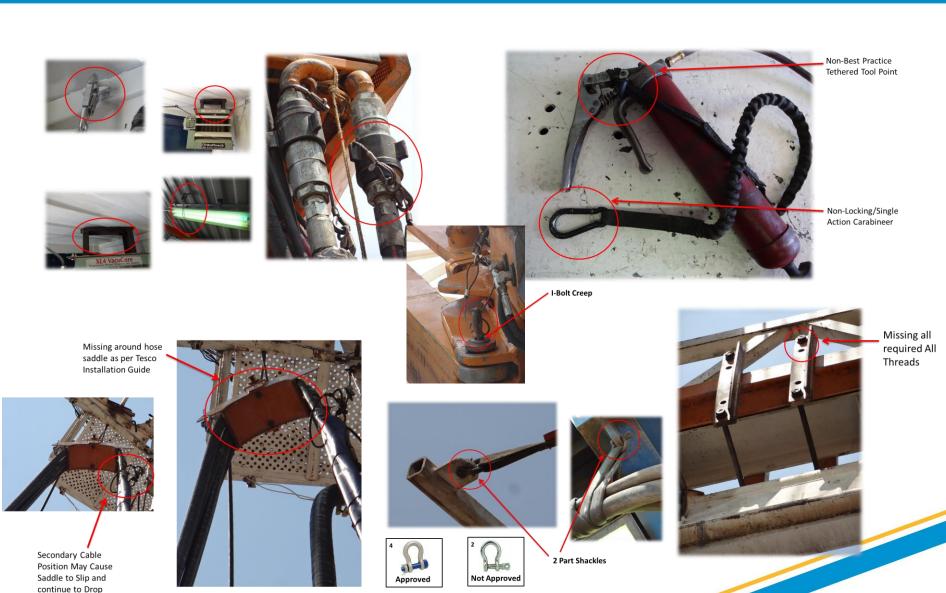
Rig Up Tesco Supervisor	Simon Beltran	
Onsite Tesco Supervisor	Keith Martin	
Tesco Field Inspectors	Nick Nesterenko	
	Andy Blair	
Customer Name	Devon Energy	
Customer Rep	Bruce Holman	
Date	8/21/13	
Top Drive	604	
Power Unit	604	





Hazard Hunt Findings





Corrective Actions



Corrective Actions Immediately Taken





STOP JOB with Corrective Actions

6

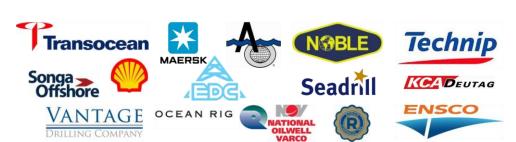
Dropped Tool Prevention



- Researched suppliers of tools designed for working at height
- Found Stopdrop Tooling to be the main industry approved supplier of safe tooling for working at heights.
- Stopdrop will customize tooling kits per customer requirements
- TESCO Top Drive Stopdrop Kit has been designed and purchased

About Stopdrop Tooling

- •8 Years in Business
- •80% of customers in the Drilling /Gas / Oil Industry
- •Actively engaged with the Oil & Gas Business: IADC, DROPS, IRATA.
- •Loyal customer base from reputable companies:





supervisor.

Dropped Tool Prevention

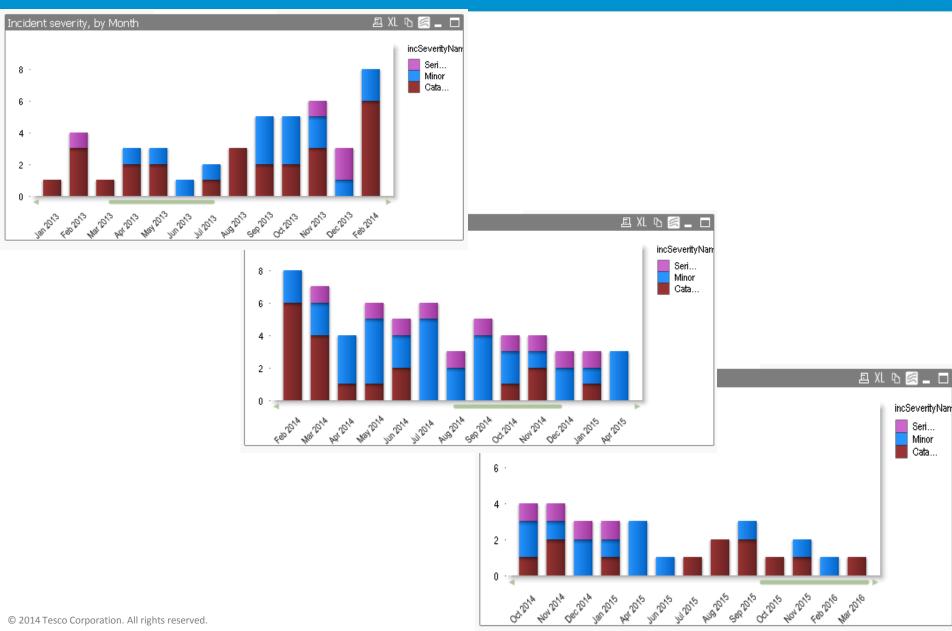




8,500 sold and not one head has come off!!

DROPS, HSE Minor-Catastrophic (128 total)





"Engineering Out"



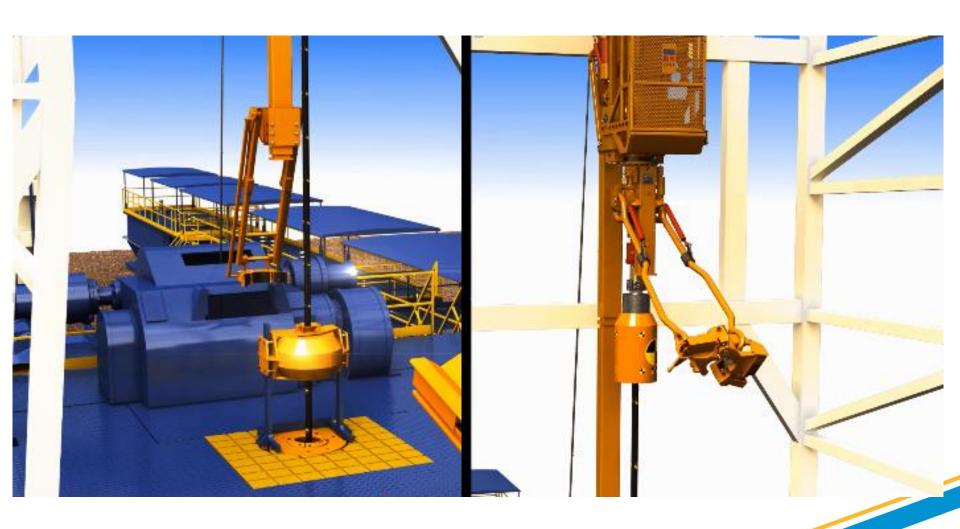
What Causes a Dropped Object?

- Poor Planning
- Poor Design
- · Poor Housekeeping
- · Poor Maintenance
- Lack of Risk Assessment Tools

- No Regular Inspection Procedures
- Carrying Equipment at Height
- Scrap and Debris Left Aloft
- No Lanyards on Tools Used at Heights
- Improperly Secured Loads

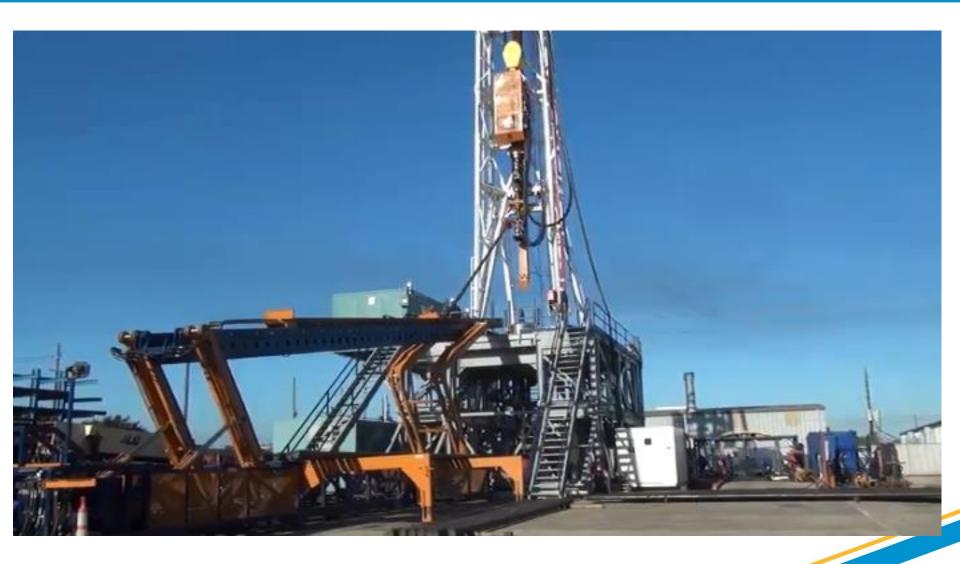
Rig Mechanization Vision





Rig Mechanization – Vision to Reality





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DROPS Forum and Training







Dropped Object Prevention Committee



Committee Chairman

Nick Nesterenko

Vice Chairman

Don Elam

District Location	Member #1	Member #2
Brittmoore, TX	Jaime Flores	Andy Blair
Alice, TX	David Gonzalez	Shawn Allen
Dixonville, PA	Eric Brownlee	Gary Boyer
Cheyenne/Douglas, WY	Igor Kalem	Josh McGurn
Kilgore, TX	Ezekiel Williams	Rafael Munoz
Lafayette, LA	Sterling Harris	Cody Darby
Saginaw, TX	Tom Kiesling	Cory Rodgers
Odessa, TX	Justin White	Scotty Reeves
Oklahoma City, OK	Ryan Nelson	Rob Simpson
Leduc, AB	Emillio Carrillo	Brad Bullick
Red Deer, AB	Darcy Jones	Matty Dober
Grande Prairie, AB	Jonathan Gagnon	Kent Onufriechuk
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Committee Workshop



Time (Central)	Task	Presenter / Facilitator
8:00 AM	Welcome / Safety Moment	Randy Nemeth
8:30 AM	Committee Member Introductions	CM Members
9:00 AM	Dropped Object Prevention Training Presentation	Chairman
9:45 AM	Q&A Session (15 min)	Nick Nesterenko
10:00 AM	Break (15 min)	
10:15 AM	Discussion of Plan of how to Launch Dropped Object Prevention Program in all NABU	Chairman
	Review Copy of Program	Chairman
	Review Copy of Standard ST-HSES-20	Chairman
12:00 PM	Lunch (1hr)	
1:00 PM	Review DROPS Posters	Chairman
	Review DROPS Calculators	Chairman
	Review Restricted Access Areas	Chairman
	Review Reliable Securing Booklet	Chairman
	Review TD & CDS Drops Review Posters	Chairman
	Review Hazard Hunt Poster	Chairman
	Review List of Revised Documents	Chairman
2:00 PM	Break (15 min)	
2:15 PM	Review 1 st Tesco Dropped Object Incident in accordance with ST-HSES-20	Chairman
3:00 PM	Drops Hazard Hunt Exercise	Chairman
4:45 PM	Closing and final Q&A Session (15 min)	Chairman

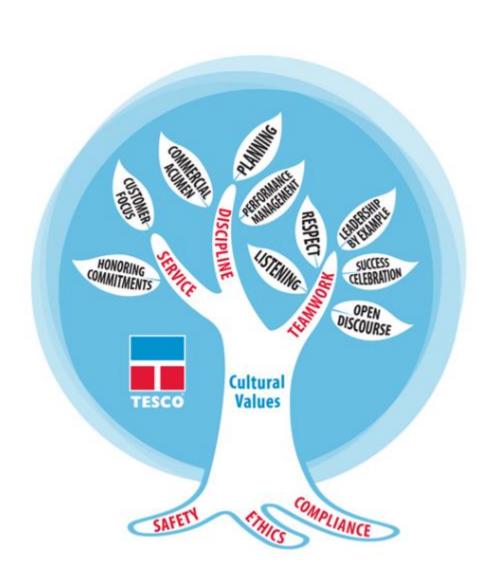
Committee Roll Out Package





Process and Culture of Safety









Thank You

