

Specialist Inspection Services

An aerial photograph of a large offshore oil rig in the middle of a vast blue ocean. The rig is a complex structure with a tall central derrick and various platforms. It is surrounded by several smaller support vessels, some of which are connected to the rig by long lines. In the background, there are distant landmasses and mountains under a clear sky.

SIS your essential business partner for
comprehensive & professional Derrick Building,
Inspection, Maintenance, Repair & Operational Services
to the Oil & Gas and Marine Industry.

Roles of the Service Company

- What are their Roles?
- What is the relationship
- How does this tie in with Dropped Objects Prevention
- How can we improve the relationship

What are their Roles?

They provide services:

- Personnel to perform the various tasks
- Equipment to be used onboard either by themselves or the Drilling Contractors
- Sometimes they provide both

What is their relationship?

The Service companies work hand in hand with the operators and drilling contractors to:

- Ensure the provision of trained and professional personnel
- Ensure the provision of equipment is up to current specification
- Ensure that the task at hand is performed in a safe manner

How does this tie in with Dropped Objects Prevention?

Lets look at areas where they tie in:

At the work shop / manufacturing stage

- Have provisions been made for secondary retention?

On the way to the rig

- Have DROPS checklist been used prior to shipping the equipment

Onboard the rig

- Is the equipment checked by personnel onboard the rig when it arrives and prior to use?

How does this tie in with Dropped Objects Prevention?

Onboard the rig

- Do the service hands have enough information to ensure that the equipment is “fit for purpose” regarding potential Dropped Objects?

During operations

- Do the personnel performing the tasks have the appropriate training for working at heights? If so, are they using the right tools for the job?

Departing the rig

- Is the equipment checked by personnel onboard the rig before it gets back loaded?

How can we improve the relationship?

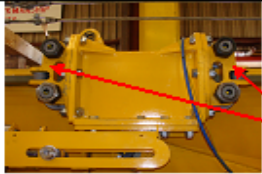

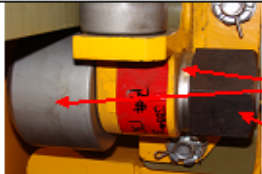
At the work shop

- Manufacturers or service companies have planned or implemented a program for the installation and inspection of secondary retention on their equipment?
- Provide Inspection Books or Picture Books for the equipment




On the way to the rig

- DROPS checklist are used prior to shipping

How does this tie in with Dropped Objects Prevention?

Item No.	Description/Action	Part Numbers	Inspection Results			
			Matches Item Yes	Matches Item No	Action Required	Corrected
1	Upper PRS-5 Column					
	2 Roller Housing Assembly Located on the Upper Column	1x-Roller Housing, PN M844000268-1 1x-Roller Housing, PN M844000268-2				
	3 Roller Housing Mounting Bolts (8 Roller Housing Assembly Total) Located on the Top and Bottom of Each Carriage Assembly(4 Total on two Assembly on each side of carriage) (3 bolts, washers, nuts and cotter pin per assembly) Check Nuts, and Cotter pins are in place and secure.	3x-Cotter Pin, PN 51403-16-S 3x-Flat Washer, PN 50818-N-C 3x-Slotted Hex Nut, PN 50518-C 3x-Modified Bolt, 1-1/8-7 x 3.25, PN 130142				
	4 Roller Assembly (16 Rollers Total on Upper Column) Located on the upper and lower carriage of the upper column Check Nut is tight and torque to 250-275 FT LBS. Use Loctite on threads	1x-6" Cam Follower, PN P844000001-06 1x-Hex Nut, PN 73784 1x-Lock Hi Collar Washer, PN 51140-C Loctite Blue, PN 53200-2421				

How does this tie in with Dropped Objects Prevention?

	Item No.	Description/ Action	Part Numbers	Matches Item		Action Required	Corrected
				Yes	No		
	1	Roller Jaw					
	2	2x - Pivot Jaw Arm Pin One on each Arm Check all bolts and lock wire are in place and secure.	2x-pivot pin retainer, PN96040 4x-Hex bolts, PN50005-6-C5D 4x-regular lock washer, PN50906-C Lock wire, PNZ6001				
	3	4x - Jaw Knuckle Pin One Pin on each Knuckle Check all bolts and lock wire are in place and secure.	4x-2in. link pin retainer, PN 110547 8x-Hex bolts, PN50006-6-C5D 8x-regular lock washer, PN50906-C Lockwire-PNZ6001				
	4	4x - Roller Pin One Pin for each Roller Check all bolts and lock wire are in place and secure.	4x-pivot pin retainer, PN96040 8x-hex bolts, PN50006-6-C5D 8x-regular lock washer, PN50906-C Lockwire-PNZ6001				

Click on Item number to view items point of retention.

How does this tie in with Dropped Objects Prevention?

DESCRIPTION					
CERTIFICATION / DOCUMENTATION		Yes	No	NA	Remarks
1	Does the inspection plate show that certification is valid?				
2	Are the doors, hinges and locks secure?				
3	Is there any corrosion or holes that something could fall out?				
4	Are the items inside secure or stacked safely?				
5	Are there any loose objects that could fall from the roof or elsewhere?				
6	Check the fork lift recess holes for loose objects.				
7	Is a cargo net used?				
8	Ensure there are no potential snagging hazards.				
9	Have the slings and shackles been checked for damage and wear? Are all split pins in place and secure?				
10	Is the correct paperwork (including DROPS Check) in place?				
Name		Signature			Date

How can we improve the relationship?

Onboard the rig

- DROPS checklists are used upon arrival as part of the equipment inspection procedure (combination of checklist and Picture Book)

During operations




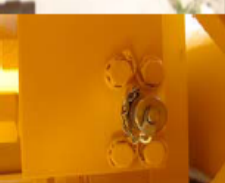
- Personnel have written risk assessments for the tasks, awareness is raised at pre-job meetings and toolbox talks regarding the rigs working at height procedures and tools at height requirements

Departing the rig

- All equipment prior to back loading can be checked using checklists


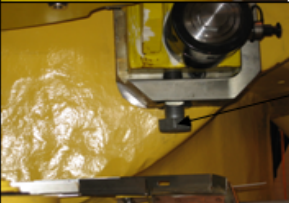


How does this tie in with Dropped Objects Prevention?

Dropped Objects Survey Report - Travelling Equipment - Area 4 PLS

Item No	Photo	Ref	Description / Location	Fastening Method	How to Inspect	
ROLLER JAW						
1		PLS002	2x - Pivot Jaw Arm Pin One on each Arm	Primary Retention : Bolt Secondary Retention: Lockwire	Inspection Procedure : Check all bolts and lock wire are in place and secure. Condition : () Pass () Fail Comments :	Signature
2		PLS003	4x - Jaw Knuckle Pin One pin on each knuckle	Primary Retention : Bolt Secondary Retention: Lockwire	Inspection Procedure : Check all bolts and lock wire are in place and secure. Condition : () Pass () Fail Comments :	Signature
3		PLS004	4x - Roller Pin 1 pin for each roller	Primary Retention : Bolt Secondary Retention: Lockwire	Inspection Procedure : Check all bolts and lock wire are in place and secure. Condition : () Pass () Fail Comments :	Signature
4		PLS005	Load Hold Manifold Clamp Assembly One at back of jaw	Primary Retention : Bolt Secondary Retention: Lockwire	Inspection Procedure : Check all bolts and lock wire are in place and secure. Check fittings for leaks and insure they are tight. Condition : () Pass () Fail Comments :	Signature

How does this tie in with Dropped Objects Prevention?

Dropped Objects Inspection Book - Travelling Equipment - Area 4 - MDDM AC Drilling Motor

Item No	Photo	Ref	Description / Location	Fastening Method	How to Inspect	
1		ACM001	Hydraulic quick release assembly locking the motor to the load frame tight. One assembly on each location. Eight assemblies, one on each corner of each motor.	Primary Retention : Bolts Secondary Retention: N/A	Inspection Procedure : Check assembly for loose parts. Condition : () Pass () Fail Comments :	Signature
2		ACM002	Motor adjustment bolt tight with pal-nuts installed. One bolt with pal-nut on each location. Four bolts, one on bottom corners of each motor.	Primary Retention : Bolt Secondary Retention: Pal nut and lock wire	Inspection Procedure : Check all bolts and pal-nuts are in place and secure. Condition : () Pass () Fail Comments :	Signature
3		ACM003	Encoder assemblies lock tab retention bolts tight and lockwired. One lockwired bolt on each lock tab. Four lock tabs, two on top of each motor.	Primary Retention : Bolts and washers Secondary Retention: Tabs and lock wire	Inspection Procedure : Check all bolts and lockwire are in place and secure. Condition : () Pass () Fail Comments :	Signature
4		ACM004	Encoder assembly cover retention bolts tight with nord-lock washers and loctite installed. Three bolts with nord-lock washers on each cover. Two covers, one on top of each motor.	Primary Retention : Bolts Secondary Retention: Nordlock washers	Inspection Procedure : Check all bolts are in place and secure. Condition : () Pass () Fail Comments :	Signature

How does this tie in with Dropped Objects Prevention?

COMPANY		IDENTITY No.			
DESCRIPTION					
CERTIFICATION / DOCUMENTATION		Yes	No	N/A	Remarks
1	Lifting Certification				
2	Pressure test				
3	Third Party Liability Insurance				
4	Deck Loading Satisfactory				
5	Electrical Certification				
6	Supervisor Competency Certificates				
7	Maintenance Records				
8	IVB Certification / Documentation (where applicable)				
9	Has DROPS Check been performed on this item?				
OFFSHORE INSTALLATION MANAGER					
Name		Signature			Date
ELECTRICAL		Yes	No	N/A	
1	Purge and shut-downs operational				
2	Equipment suitably rated for proposed site				
3	Exterior cabling and transit satisfactory				
4	Vents and fire dampers operational				
5	Emergency lighting operational				
6	Ground bonding complete				
7	Drawings available and relevant				
8	Electrical insulation and connections satisfactory				
9	Battery in satisfactory				
10	Fire/gas detection operational**				
11	Has DROPS Check been performed on this item?				
* When item 11 is satisfactorily completed by the ET, he should indicate by signing in the 'Remarks' column Having inspected the above equipment I recommended that the CIM does / does not** give permission for its operation on board					
					**Delete as appropriate
RESPONSIBLE ELECTRICAL PERSON					
Name		Signature			Date

Review

What are their Roles?

- Providing services

What is the relationship

- Assisting their clients with providing trained and certified equipment

How does this tie in with Dropped Objects Prevention

- Taking ownership and accountability regarding the elimination of potential Dropped Objects

How can we improve the relationship

- Implement changes to their Management System and installing checklists

Thank you