



**BSEE Performance Based Risk Inspection**

Inspection Form: Dropped Objects PBRI

BSEE Inspector Printed Name: \_\_\_\_\_ Date Recorded: \_\_\_\_\_

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Location (Area Block and Name): \_\_\_\_\_ Rig/Plat ID: \_\_\_\_\_

Designated Operator: \_\_\_\_\_ Operator Representative: \_\_\_\_\_

Facility/Rig Contractor: \_\_\_\_\_ Contractor Representative: \_\_\_\_\_

*PIC=Person In Charge OP=Operator Rep*

Compliance (C) - PBRI (PB)	Number	Task Mark if Completed-	Task Mark if Not Completed-	Task Mark if Not Applicable-	Additional Documentation Required	BSEE Inspector(s) Task Initials	District or OSM	Operator SME	Task Time Estimate	<b>Procedure / Tasks</b>  <i>(Words in parentheses are intended to inform the person administering the evaluation and do not need to be asked.)</i>	<b>Comments Section</b> <b>Note: Deficiency &amp; comments document below</b>
PB	1							N/A	10min	<p>Does the Operator / Contractor have a dropped object prevention program implemented at the subject facility? If applicable, ask for the latest dropped object inspection(s). Quickly review and determine if any corrective actions should have been undertaken in a timely manner based on the dropped object inspection(s) / hazard hunt(s).</p> <p>Inspection should be scheduled at a suitable frequency taking into account the types of activities being undertaken in an area and should identify all potential opportunities for items to become dislodged or damaged during normal operations.</p> <p>These inspections should look at the primary and secondary methods (i.e. secondary retention) of securing for items and if either is defective then this should be identified and remedied accordingly through a Mechanical Integrity / work order system.</p> <p>Have the Operator explain the type of secondary retention device on the A2B (i.e. chain, wire rope sling, etc.). How does the operator/contractor ensure the A2B secondary retention is secure and in adequate condition?</p>	
PB	2							OP/PIC		<p>When was the last Hazard Hunt conducted by the operator / contractor for dropped objects on the subject facility? BSEE teams should walk the facility with platform representative and look for:</p> <ul style="list-style-type: none"> <li>• Unsecured objects stored or unsecure at height</li> <li>• Items left on top of containers / skid frames / grating etc</li> <li>• Items stored inappropriately at height</li> <li>• stacking material next to handrails</li> <li>• Items that are locally modified / homemade and not certified</li> <li>• Items loaded with inadequate means to secure properly</li> <li>• Uncertified lifting equipment (slings, rigging, etc...not up to date)</li> </ul>	

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PB	3							OP		<p>Does the subject facility have guidelines for the use of restricted access areas - e.g., Red, Yellow, Green - for lifting / dropped object risks? Are there policies regarding working under suspended loads?</p> <p>Are the areas identified and communicated to personnel? How are floorhands (and other positions) made aware of these zones (i.e. onboarding/orientation, formal training, pre-tour meeting, etc.?). Request documented evidence on how this is effectively covered with all applicable personnel.</p> <p>During your time at the platform / rig, were the areas enforced by crewmembers and/or supervisors?</p>	
PB	4							OP/PIC		<p>Does the Operator / Contractor have training requirements for the prevention of dropped objects? Pull the POB to provide BSEE the opportunity to sample audit exposed workers, front line supervisors, worksite leads, etc.</p> <p>Does training include - No-Go Zones, Restricted Access Zones, Tools at Height, Tubular and Equipment Handling, Winches and Tuggers, Lifting and Hoisting</p> <p>Are minimum requirements for lifting and hoisting, rigging and crane operators in place? - Controls for safe lifting operations</p> <p>Are there training requirements for awareness and isolation of stored energy, including potential energy?</p> <p>Note - can you conclude there are Dropped Object Prevention Schemes implemented that include risk-mitigation training for personnel exposed to Dropped Object risks.</p>	
PB	5							OP		<p>When Reviewing Recent JSAs associated with lifting or material handling, verify the following:</p> <p>1)JSAs shall address the control of objects with the potential to fall.</p> <p>2) JSAs shall address the work area was visually inspected for loose items (fasteners, bolts, covers, etc.) and debris.<b>[NOT PRE-PRINTED, e.g. Hazards identified in a canned JSA]</b></p> <p>3) JSAs shall address that any areas below elevated work decks / mezzanine decks with the potential for dropped objects are secured with barrier and warning tags identifying the hazard.</p>	

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PB	6							OP/PIC		<p>Is the lift area controlled and do personnel understand the necessary actions to take if the load falls or swings?</p> <p>Prior to commencing the lift; the lift area, landing area, and load travel path must be assessed and action taken to prohibit incursion by personnel not involved in the lifting and hoisting operation. Barriers and signs are to be used where necessary.</p> <p><b>At time of inspection</b> - determine what lifts were scheduled to be made for the day (JSAs, lifting plans, etc in place) - verify areas are assessed</p> <p>Do the operating procedures require workers to firmly secure tools while ascending and working at heights?</p> <p>Is the crane horn working and is it used to signal the start of a lift?</p> <p>Is the horn used for any other signals, and are the personnel aware of what these signals mean? Is this covered in safety briefings/onboarding?</p> <p>Are the personnel on deck alerted that a lift is starting by other means? (e.g. radio, air horn)</p>	
PB	7							OP/PIC		<p>Does the Operator / Contractor have a tubular handling checklist?</p> <ol style="list-style-type: none"> <li>1) Did the contractor communicate to the workforce the hazards associated with pipe handling?</li> <li>2) Is the pipe handling system fully functional? Have there been any recent malfunctions that needed troubleshooting?</li> <li>3) Are interlocking safety systems confirmed to be functional prior to starting the job?</li> <li>4) Did the contractor verify that systems are dimensionally correct for tubular handling equipment including ALL of the following - Slips and elevators; pipe racking system (PRS); finger board spacing</li> <li>5) If the casing or tubing is handled by a 3rd party contractor: does the Operator or Contractor verify the tubular running system is correctly sized? Do they verify the interlocks are in use and functional prior to the start of the job?</li> </ol>	

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PB	8							OP/PIC		<p>Cargo Handling - General</p> <p>Does the Operator / Contractor check the suitability of the items being shipped and transferred to the facility? Excessive rust, damage, loose fittings, etc?</p> <p>No loose items that are potential debris or unsecure items while being lifted to/from platform</p>	
PB	9							OP/PIC		<p>Cargo Handling - Lifting and Rigging</p> <p>Does the Operator / Contractor inspect the padeyes prior to lifts? Who/which role is designated with this responsibility? Does the operator require an MOC and HA for the fabrication of a padeye?</p> <p>Are the lifting slings in good condition and certified for use? How does the Operator / Contractor ensure slings don't get twisted / tangled during the lift? If this occurs, what is the response action?</p> <p>Are all shackles associated with the lift four part shackles?</p> <p>Are shackle nuts tight to the shackle bolts with cotter pins in place and turned back correctly?</p> <p>How does the Operator / Contractor address the potential complications when lifting large load with unique size / dimensions? How does the Operator / Contractor ensure the load remains secure throughout the entirety of the lift and does not shift?</p> <p>Is the hazard of slings becoming slack identified in the JSA when moderate weather / sea state is present, or when a load needs to be repositioned? Eg – load landed, swell comes up, and slack in slings caught around fitting / parts / equipment that drop off lift</p>	
PB	10							OP/PIC		<p>Cargo Handling - Boxed and Container Cargo</p> <p>Are the contents inside the container secured and tubular items chocked to prevent movement?</p> <p>Are items protruding outside of the basket or the container - snag or contact risk?</p> <p>Processes in place to confirm and verify the Safe Working Load, Tare Weight and Maximum Gross Weight? Sign-off? Is the weight of the cargo on the manifest verified before starting the lift?</p>	

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PB	11							OP/PIC		<p>Cargo Handling - Tubulars and Other Special Loads</p> <p>Pre-inspection - checked pipe bundles internally and removed debris - wood pieces, litter, loose tools, etc</p> <p>All end caps and thread protectors are securely fastened</p> <p>All load bundles externally inspected (around the vicinity of the load) for unsecured items (left tools, wooden chucks, etc.)</p> <p>All cylinders secured - primary and secondary with divider</p>	
PB	12							OP/PIC		<p>Do personnel involved know the environmental limits (e.g., maximum permissible wind speed) for the lift? Are weather conditions (sea state, wind speed) documented on the Safe Lifting Plan / Permit to Work prior to the lift? Are the environmental factors re-assessed immediately prior to the lift and constantly monitored throughout the lift?</p> <p>Prior to a lift, the lifting and hoisting PIC must verify that the environmental conditions are within permissible limits and suspend the lift (properly initiate SWA) if limitations are exceeded. The lifting team members must be informed of the "STOP the Job Criteria" with respect to environmental limits (e.g., lightening, wind speed).</p>	
PB	13							OP/PIC		<p>IF APPLICABLE - Are there requirements in place, either in JSAs or SOPs, that require flaggers for utilizing rig floor equipment such as Pipe racking systems, elevator, etc.?</p> <p>If on a Nabors platform rig - please confirm due to a Corrective Action in a recent event on 2/14/2021</p>	
PB	14							OP/PIC		<p>Ask offshore personnel if they are aware of any dropped objects in the last year? See what records are available on the incident(s), and team will determine onshore if it was reported to BSEE.</p> <p>As a result of the incident, if applicable, were any correction / preventative actions put into place?</p> <p>If applicable: Question personnel regarding recent (past 6 months) incidents that involved dropped objects and/or personnel safety during lifting operations and the results/corrective actions of any incident investigations.</p>	<p>OSM should have these incidents/questions prepared in advance, but when we ask personnel about them, try to determine if they are aware of any incident(s)/corrective actions before we identify them.</p> <p>How does operator report dropped objects to BSEE? Is it only associated with cranes?</p>

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PB	15							OP/PIC		Does the operator provide training specifically related to dropped and falling objects? Is the training provided to each employee who may create or be exposed to drop hazards?	
PB	16							OP/PIC		<p>Does Operator/Contractor Drop Object prevention plan/program discuss which equipment and practices shall be considered prohibited and removed from practice:</p> <ul style="list-style-type: none"> <li>a. Uncertified lifting equipment including 'home-made' lifting devices.</li> <li>b. Home-made or customized tools.</li> <li>c. Use of welding rods, wire or tie wraps instead of properly engineered split pins or safety pins.</li> <li>d. Use of two part shackles on any long term or permanently suspended equipment and on personnel lifting devices, or in any application where the pin can roll under load and unscrew.</li> <li>e. Use of hooks on any part of the rigging on winch lines in derricks, masts and other dynamic environments.</li> <li>f. Wire slings wrapped around beams.</li> <li>g. Unsecured water bottles, radios, phones, hand tools, etc. at height.</li> <li>h. Use of scaffolding equipment for permanent structures or mountings, including uncertified use of scaffold for lifting equipment.</li> <li>i. Leaving fall arrestors un-retracted when not in use.</li> </ul>	
PB	17							OP/PIC		<p>Does operator/contractor follow their Management of Change (MOC) procedure prior to mounting any new fixture to existing structures or equipment, including additional secondary securing methods, or installing new equipment at height?</p> <p>Have any new fixtures / equipment been added in the last 6 months? Document the equipment and location on facility - photograph if applicable</p>	
PB	18							OP/PIC		<p>Can the operator/contractor explain the various types of I-beam clamps used for different applications across the facility/rig?</p> <p>Have I-beam clamps been identified as potential Dropped Object hazards in the JSA for Rope Access / Construction / Working at Heights permit for their installation / retrieval?</p> <p>How does the operator/contractor ensure that I-beam clamps are secure?</p>	

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PB	19							OP/PIC		<p>Does the Operator / Contractor have any policy that allows for high angle kickout bypass, or any lifting device bypass, for the facility being inspected?</p> <p>What additional barriers are put into place if a bypass is implemented during a lift?</p> <p>At the time of the inspection, can the inspector determine if any recent bypasses have taken place? If yes, please request documentation of the sign-off and/or process associated with the bypass.</p>	
C	1							OP/PIC		<p>G110 - DOES THE LESSEE PERFORM ALL OPERATIONS IN A SAFE AND WORKMANLIKE MANNER AND PROVIDE FOR THE PRESERVATION AND CONSERVATION OF PROPERTY AND THE ENVIRONMENT?</p>	

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C	2							OP/PIC		I-161 - ARE SLINGS OF ALL TYPES, GRADES, AND CONSTRUCTIONS IDENTIFIED AS REQUIRED IN API RP 2D, PARAGRAPH 5.2.4b?	
C	3							OP/PIC		I-162 - ARE SLINGS PROPERLY STORED WHEN NOT IN USE IN ACCORDANCE WITH API RP 2D, APPENDIX G, PARAGRAPH G.5.2.1?	
C	4							OP/PIC		I-181 - DO ONLY QUALIFIED PERSONNEL PERFORM RIGGING OPERATIONS IN ACCORDANCE WITH API RP 2D, PARAGRAPHS 2.44, 3.1.3, AND 3.1.4?	
C	5							OP/PIC		I-182 - ARE CRANES OPERATED ONLY BY QUALIFIED PERSONNEL IN ACCORDANCE WITH API RP 2D, PARAGRAPHS 3.1.1?	
C	6							OP/PIC		I-190 - IS ALL MATERIAL-HANDLING EQUIPMENT OPERATED AND MAINTAINED IN A MANNER THAT ENSURES SAFE OPERATIONS AND PREVENTS POLLUTION?	



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C	7							OP/PIC		I-143 - HAVE PRE-USE INSPECTIONS BEEN PERFORMED PRIOR TO USE (TYPICALLY DAILY) BY A QUALIFIED CRANE OPERATOR/INSPECTOR WITH RECORDS MAINTAINED AT AN APPROPRIATE LOCATION FOR A PERIOD OF FOUR YEARS, IN ACCORDANCE WITH API RP 2D, PARAGRAPHS 4.1.2.2 AND 4.2.2?	
C	8							OP/PIC		I-183 - ARE CRANE INSPECTORS QUALIFIED IN ACCORDANCE WITH API RP 2D, PARAGRAPH 2.43?	
C	9							OP/PIC		I-131 - HAVE THE CORRECT STATIC/ON-BOARD AND DYNAMIC/OFF-BOARD LOAD RATING CHARTS BEEN ESTABLISHED FOR ALL CRANES; AND ARE THEY VISIBLE TO THE CRANE OPERATOR WHILE AT THE CONTROL STATION?	
C	10										
C	11										

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