DRILLING

LAST UPDATE 2012

TRAVELING BLOCK

D-100 **IS AN OPERABLE CROWN BLOCK SAFETY DEVICE INSTALLED TO PREVENT THE TRAVELING BLOCK FROM STRIKING THE CROWN BLOCK?**

Authority: 30 CFR 250. 404 **Enforcement Action: S**

DEFINITION:

Crown block safety device - Normally a device (manual or electronic) installed to prevent the block from striking the crown.

Note: The crown block safety device is not to be actuation tested when the crown block is loaded with the drill pipe, casing, or work string.

INSPECTION PROCEDURE:

1. Inspect the rig to verify the installation of a crown block safety device (manual or electronic).
2. Visually inspect position of manual device above cable drum to verify the distance for cable shutdown.
3. Verify that the device (manual or electronic) has been reset after drill-line slipping operations.
4. Verify that the device (manual or electronic) is in service and witness the proper operation of the device.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when:

1. The crown block safety device is not installed or operable.
2. The manual device is not installed above the cable drum a sufficient distance for cable shutdown.
3. The manual or electronic device has not been reset after drill-line slipping operations.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each drilling unit inspected.

D-101 **IS THE CROWN BLOCK SAFETY DEVICE CHECKED FOR PROPER OPERATION AT LEAST ONCE EACH WEEK, AFTER EACH DRILL-LINE SLIPPING OPERATION, AND ARE THE RESULTS ENTERED INTO THE DRILLER'S REPORT?**

Authority: 30 CFR 250. 404 **Enforcement Action: W/S**

INSPECTION PROCEDURE:

Check driller's report to verify that the crown block safety device is checked for operation weekly and after each drill-line slipping operation.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if a required check is not recorded in driller's report.

Issue a rig shut-in (**S**) INC if the required checks are not performed.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each drilling unit inspected.

DIRECTIONAL SURVEY

D-110 **ARE INCLINATION SURVEYS OBTAINED ON ALL VERTICAL WELLS AT INTERVALS NOT EXCEEDING 1,000 FEET DURING THE NORMAL COURSE OF DRILLING?**

Authority: 30 CFR 250. 461(a)(1) **Enforcement Action: S**

INSPECTION PROCEDURE:

Inspect records of inclination surveys, noting intervals, for compliance.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when the required inclination survey has not been taken or the 1,000 foot interval has been exceeded.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected.

D-111 **ARE DIRECTIONAL SURVEYS GIVING BOTH INCLINATION AND AZIMUTH OBTAINED ON ALL DIRECTIONAL WELLS AT INTERVALS NOT EXCEEDING 500 FEET DURING THE NORMAL COURSE OF DRILLING?**

Authority: 30 CFR 250. 461(b) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Inspect records of directional surveys, noting intervals, for compliance.
2. Verify that the information is recorded electronically.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when the required directional survey has not been taken or the 500-foot interval has been exceeded.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-112 **ARE DIRECTIONAL SURVEYS GIVING BOTH INCLINATION AND AZIMUTH OBTAINED ON ALL DIRECTIONAL WELLS AT INTERVALS NOT EXCEEDING 100 FEET IN ALL PORTIONS OF THE HOLE WHEN ANGLE CHANGES ARE PLANNED?**

Authority: 30 CFR 250. 461(b) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Inspect records of directional surveys, noting intervals, for compliance.
2. Verify that the information is electronically recorded.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when the required directional survey has not been taken or the 100-foot interval has been exceeded.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-113 **ARE DIRECTIONAL SURVEYS GIVING BOTH INCLINATION AND AZIMUTH OBTAINED AT INTERVALS NOT EXCEEDING 500 FEET PRIOR TO OR UPON SETTING SURFACE OR INTERMEDIATE CASING, LINERS, AND AT TOTAL DEPTH ON ALL WELLS?**

Authority: 30 CFR 250. 461(a)(2) **Enforcement Action: S**

INSPECTION PROCEDURE:

Inspect records of directional surveys, noting intervals, for compliance.

1. A composite diameter directional survey or a composite measurement-while-drilling (MWD) directional survey including a listing of the directionally computed inclinations and azimuths on a well classified as vertical will be acceptable as fulfilling the applicable requirements of this paragraph.
2. In the event a composite MWD survey is run, a multi-shot survey shall be obtained at each casing point in order to confirm the MWD results.
3. Verify that the information is recorded in electronic format.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when the required directional surveys have not been taken or the 500-foot interval has been exceeded.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

MOVING DRILLING RIGS

D-120 **ARE ALL WELLS IN THE SAME WELL-BAY, WHICH ARE CAPABLE OF PRODUCING HYDROCARBONS, SHUT-IN BELOW THE SURFACE WITH A PUMP-THROUGH-TYPE TUBING PLUG AND AT THE SURFACE WITH A CLOSED MASTER VALVE PRIOR TO MOVING DRILLING RIGS AND RELATED EQUIPMENT (OR AS OTHERWISE APPROVED BY THE DISTRICT MANAGER)?**

Authority: 30 CFR 250. 406(b) **Enforcement Action: W/C**

Note: All producible wells located in the affected well-bay must be shut in below the surface and at the wellhead when:

1. A drilling rig or related equipment is moved on and off an offshore platform, this includes rigging up and rigging down activities within 500 feet of the affected platform;
2. A drilling unit is moved or skidded between wells on a platform; and
3. A MODU is within 500 feet of a platform and until the MODU is in place, secured, and ready to begin drilling operations.

INSPECTION PROCEDURE:

1. Inspect records to determine if the wells were shut-in below the surface with a pump-through-type tubing plug and at the surface with a closed master valve.
2. If moving operations are in progress during the inspection, check to see that the wells are shut-in at the surface with a closed master valve, and check records to verify the placement of a pump-through-type tubing plug below the surface.
3. The District Manager may approve other means of assuring the safety of the facility during moving operations.
4. A closed surface-controlled subsurface safety valve may be used in lieu of the pump-through-type tubing plug, provided that surface control has been locked out.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate that wells were not shut-in with a pump-through-type tubing plug and at the surface with a closed master valve prior to moving drilling rigs and related equipment.
Issue a component (**C**) shut-in INC for the drilling rig moving operation if wells in the same well bay are not shut-in with a pump-through-type tubing plug and at the surface with a closed master valve if moving operations are in progress during the inspection.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per inspection.

D-121 **IS THE MOVEMENT OF ALL DRILLING UNITS ON AND OFF LOCATION REPORTED TO THE DISTRICT MANAGER 24 HOURS PRIOR TO THE MOVEMENT, INCLUDING THE RIG NAME, LEASE NUMBER, WELL NUMBER, AND THE EXPECTED TIME OF ARRIVAL OR DEPARTURE?**

Authority: 30 CFR 250.403(a) **Enforcement Action: W**
30 CFR 250.403(b)

INSPECTION PROCEDURE:

Verify that the Operator has properly notified the District Manager of:

1. Arrival of the MODU on location.
2. Movement of a platform rig to a platform.
3. Movement of a platform rig to another slot.
4. Movement of a MODU to another slot.
5. Departure of all rigs from the location.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the proper notification has not been given.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each drilling unit inspected.

ESD SYSTEM

D-130 **IS AN OPERABLE ESD STATION LOCATED NEAR THE DRILLER'S CONSOLE ON PLATFORMS WHERE THERE ARE PRODUCING WELLS OR OTHER HYDROCARBON FLOW?**

Authority: 30 CFR 250. 406(a) **Enforcement Action: C**

Note: The offshore operator and contractor should be advised that the ESD station at the driller's console must be tested when installed and subsequent to each rig skid for system operability. The ESD station should be tested to shut in one well during initial installation of the ESD station and for system operability after the initial test. Furthermore, the ESD station near the driller's console shall be rotated and tested in order when testing other ESD stations on the platform.

INSPECTION PROCEDURE:

1. Verify that there is an ESD station near the driller's console during drilling operations.
2. Verify operation of the ESD station by testing in accordance with Appendix 10.

IF NONCOMPLIANCE EXISTS:

Issue a component shut-in (**C**) INC for drilling operation when an ESD station:

1. Does not exist at the required location.
2. Does not operate properly.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC for each complex inspected.

CASING PROGRAM
LAST UPDATE 2012

D-150 **IS CASING SET AS APPROVED?**

Authority: 30 CFR 250. 420 **Enforcement Action: W**

INSPECTION PROCEDURE:

Compare APD approved proposed casing setting depths to on-site records of actual casing setting depths for all strings of casing set.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC for each casing string not set as approved.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each casing string inspected.

D-151 **IS ANY PORTION OF AN ANNULUS OPPOSITE A PERMAFROST ZONE WHICH IS NOT PROTECTED BY CEMENT FILLED WITH A LIQUID WHICH HAS A FREEZING POINT BELOW THE MINIMUM PERMAFROST TEMPERATURE TO PREVENT INTERNAL FREEZEBACK AND WHICH IS TREATED TO MINIMIZE CORROSION?**

Authority: 30 CFR 250. 428(j) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

1. Check APD and drilling plan to identify permafrost zones and to verify that the annulus within permafrost zones are filled with cement or liquid whose freezing point is lower than the permafrost temperature and which is treated to minimize corrosion.
2. Witness permafrost zone cementing operations.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if operations have not yet resumed and records indicate that the fluid in the annulus does not have a freezing point lower than the temperature of the permafrost or if it is not treated to minimize corrosion.

Issue a rig shut-in (**S**) INC if operations are in progress and the fluid or cement in the annulus does not have a freezing point lower than the temperature of the permafrost or if it is not treated to minimize corrosion, if conditions permit.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-152 **HAS A PRESSURE-INTEGRITY TEST BEEN RUN BELOW THE SURFACE CASING, THE INTERMEDIATE CASING(S), AND LINER(S) USED AS INTERMEDIATE CASING(S), AFTER DRILLING AT LEAST 10 FEET BUT NO MORE THAN 50 FEET OF NEW HOLE BELOW THE CASING SHOE?**

Authority: 30 CFR 250. 427 **Enforcement Action: W/S**

INSPECTION PROCEDURE:

Inspect on-site records from the previous inspection to the current inspection date to verify that pressure tests to obtain data to be used in estimating formation fracture gradients have been performed as required.

Note:

1. Pressure-integrity tests shall be conducted either by testing to formation leak-off or to a predetermined equivalent mud weight as specified in the APD.
2. The District Manager may require a pressure-integrity test to be run at the conductor casing shoe due to local geologic conditions or planned casing setting depths.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC for each formation fracture gradient test not otherwise performed as required.

Issue a rig shut-in (**S**) INC if formation fracture gradient tests have not been performed and the tests can still be conducted.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each test inspected.

D-153 **ARE DRILLING OPERATIONS SUSPENDED WHEN THE SAFE MARGIN, AS APPROVED IN THE APD, BETWEEN THE DRILLING FLUID WEIGHT IN USE AND THE EQUIVALENT DRILLING FLUID WEIGHT AT THE CASING SHOE, IS NOT MAINTAINED?**

Authority: 30 CFR 250. 427(b) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

Inspect the on-site records to determine if the drilling fluid weight is within a safe margin of the equivalent drilling fluid weight. A safe margin is to be approved by the District Manager.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate the safe margin has not been maintained.

Issue a rig shut-in (**S**) INC if, while present on the rig, the safe margin is not being maintained.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each drilling unit inspected.

D-154 **ARE THE RESULTS OF ALL TESTS AND OF HOLE-BEHAVIOR OBSERVATIONS MADE DURING THE COURSE OF DRILLING RELATED TO FORMATION INTEGRITY AND PORE PRESSURE RECORDED IN THE DRILLER'S REPORT?**

Authority: 30 CFR 250.427(a) **Enforcement Action: W**

INSPECTION PROCEDURE:

Inspect records to verify that the results of all tests and of hole behavior observations are recorded.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if all tests are not recorded in the driller's report.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each drilling unit inspected.

D-155 **IF THE HOLE FOR THE DRIVE OR STRUCTURAL CASING WAS DRILLED, WAS A QUANTITY OF CEMENT SUFFICIENT TO FILL THE ANNULAR SPACE BACK TO THE MUD LINE USED?**

Authority: 30 CFR 250. 421(a) **Enforcement Action: W**

INSPECTION PROCEDURE:

Inspect records to verify that a sufficient quantity of cement was used to fill annular space back to mud line.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate that the quantity of cement was insufficient.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-156 **IS CEMENT FILL IN THE ANNULAR SPACES OF THE CONDUCTOR CASING VERIFIED BY OBSERVING CEMENT RETURNS, OR IS AN ADDITIONAL QUANTITY OF CEMENT USED TO ENSURE THE SPACE IS FILLED BACK TO THE MUD LINE?**

Authority: 30 CFR 250. 421(b) **Enforcement Action: W/S**

Note: The bottom of a well cellar or the surfaces of an artificial island are acceptable substitutes for the mud line.

INSPECTION PROCEDURE:

1. Check records to verify that cement returns were observed.
2. If possible, observe the cement returns.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if operations are not in progress and:

1. Records do not indicate that returns were observed at the mud line.
2. Sufficient quantities of cement were not used.

Issue a rig shut-in (**S**) INC if operations are in progress, cement returns were not observed, and an additional quantity of cement was not used to assure fill to the mud line.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-157 **IS SURFACE CASING CEMENTED WITH A QUANTITY OF CEMENT THAT FILLS THE CALCULATED ANNULAR SPACE TO AT LEAST 200 FEET INSIDE THE CONDUCTOR CASING (OR AS OTHERWISE APPROVED BY THE DISTRICT MANAGER)?**

Authority: 30 CFR 250. 421(c) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

1. Check records to verify that sufficient quantities of cement were used to fill the annular space to at least 200 feet inside the conductor casing.
2. When geologic conditions such as near-surface fractures and faulting exist, verify that surface casing is cemented with a quantity of cement that fills the calculated annular space to the mud line, or as approved or prescribed by the District Manager.
3. For floating drilling operations, a lesser volume of cement may be used to prevent sealing the annular space between the conductor casing and surface casing if the District Manager determines that the uncemented space is necessary to provide protection from burst and collapse pressures which may be applied inadvertently to the annulus between casings during blowout preventer (BOP) testing operations.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if insufficient quantities of cement were used and the casing shoe has been drilled out. Issue a rig shut-in (**S**) INC if the shoe has not been drilled out and records indicate that insufficient quantities of cement were used to fill the annular space to at least 200 feet inside the conductor casing.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-158 **HAVE THE SURFACE, INTERMEDIATE, AND PRODUCTION CASINGS BEEN PRESSURE TESTED TO 70 PERCENT OF THE MINIMUM INTERNAL YIELD PRESSURE OF THE CASING, AND HAS THE CONDUCTOR CASING BEEN TESTED TO A MINIMUM OF 200 PSI FOR 30 MINUTES, WITH NO MORE THAN 10 PERCENT PRESSURE DROP DURING THE TESTS, OR AS OTHERWISE APPROVED BY THE DISTRICT MANAGER?**

Authority: 30 CFR 250.423(a) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

1. Inspect the on-site records from the previous inspection to the current inspection date to verify that proper casing pressure tests have been performed.
2. Verify remedial action taken if pressure declines more than 10 percent in 30 minutes or if there were other indications of leaks.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the Operator had a bad pressure test, performed unapproved remedial action, and subsequently had a successful pressure test.

Issue a rig shut-in (**S**) INC if the Operator has drilled out the shoe and not performed a test or drilled out of the shoe without achieving a satisfactory pressure test.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each casing string inspected

D-159 **ARE ALL CASING AND LINER PRESSURE TESTS RECORDED ON A CHART CERTIFIED (SIGNED AND DATED) BY THE ONSITE REPRESENTATIVE WITH THE TIME, DATE, AND RESULTS?**

Authority: 30 CFR 250. 426 **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that required pressure tests are recorded on a chart certified as correct.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC for each casing string pressure test, including liner tests, not recorded as required.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each casing string inspected

D-160 **IS EACH PRODUCTION LINER (AND LINER-LAP) TESTED TO A MINIMUM OF 500 PSI ABOVE FORMATION FRACTURE PRESSURE AT THE SHOE OF THE CASING INTO WHICH THE LINER IS LAPPED (OR AS OTHERWISE APPROVED BY THE DISTRICT MANAGER)?**

Authority: 30 CFR 250. 425(b) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

Inspect on-site records from the previous inspection to the current inspection date to verify that pressure tests have been performed on the production liners that are set. Verify by witnessing actual liner seal tests if performed during inspection.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC for previous liner seal test not performed or when proper tests cannot be conducted.
Issue a rig shut-in (**S**) INC, if present when testing the liner lap, and the test was to less than 500 psi or was otherwise unacceptable.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected.

D-161 **IS THE DRILLING LINER (AND LINER LAP) TESTED TO A PRESSURE AT LEAST EQUAL TO THE ANTICIPATED PRESSURE TO WHICH IT WILL BE SUBJECTED DURING THE FORMATION PRESSURE INTEGRITY TEST BELOW THAT LINER SHOE OR SUBSEQUENT LINER SHOE IF SET?**

Authority: 30 CFR 250. 425(a) **Enforcement Action: W/S**
30 CFR 250.425(c)

INSPECTION PROCEDURE:

1. Inspect on-site records from the previous inspection to the current inspection date to verify that pressure tests have been performed on the drilling liners that are set. Verify by witnessing actual liner seal tests if performed during inspection.
2. If the test indicated an improper seal, verify that remedial action was taken to provide a proper seal as demonstrated by a satisfactory pressure test.
3. Check records to determine whether or not the District Manager has approved or required other tests.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if drilling has not commenced and proper tests cannot be conducted.
Issue a rig shut-in (**S**) INC if further drilling has commenced and:
1. Liner seal test was not performed.
2. Remedial action has not been taken if seal is improper.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-163 **HAS THE CASING BEEN PRESSURE-TESTED, CALIPERED, OR OTHERWISE EVALUATED EVERY 30 DAYS DURING PROLONGED OPERATIONS?**

Authority: 30 CFR 250. 424(a) **Enforcement Action: W/S**
30 CFR 250.424(b)

DEFINITION:

Prolonged operations - Operations that may cause wear or damage to the casing such as milling, fishing, jarring, or washing over.

30 days - 30 working days. Downtime does not count toward the limit.

INSPECTION PROCEDURE:

Inspect records to determine if casing evaluations are being performed during prolonged operations.

Note: The following are required:

1. Caliper or pressure test the casing.
2. Reporting the results of the evaluation to the District Manager and obtaining approval of the results before resumption of operations.
3. If casing integrity has deteriorated to a level below minimum safety factors, has:
   A. The casing been repaired or another casing string run.
   B. Approval been obtained from the District Manager before repairs were begun.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate casing was not evaluated during a 30-day period of prolonged operations and a subsequent evaluation has been performed.

Issue a rig shut-in (**S**) INC if prolonged operations are in progress and 30 days have elapsed since the casing has been evaluated.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-164 **AFTER CEMENTING CASING (OR LINERS), WAS THE CEMENT HELD UNDER PRESSURE FOR THE REQUIRED LENGTH OF TIME?**

Authority: 30 CFR 250.422(a) **Enforcement Action: W**

INSPECTION PROCEDURE:

Inspect on-site records of all strings of casing set from the previous inspection date to the current inspection date to verify waiting-on-cement (WOC) time. WOC time may be verified by computing the time interval from the time cement was placed to the time the casing shoe was drilled out. The following minimum requirements must be met:

1. Conductor 8 hours.
2. All others 12 hours.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC for each incident where WOC time failed to meet minimum requirements.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-165 **WERE CEMENTING JOBS CONDUCTED AS DESIGNED SO THAT CEMENT COMPOSITION, PLACEMENT TECHNIQUES, AND WAIT TIMES ENSURE THAT THE CEMENT PLACED BEHIND THE BOTTOM 500 FEET OF CASING ATTAINS A MINIMUM COMPRESSIVE STRENGTH OF 500 PSI BEFORE DRILLING OUT OF THE CASING OR BEFORE COMMENCING COMPLETION OPERATIONS?**

Authority: 30 CFR 250.420(c) **Enforcement Action: W**

INSPECTION PROCEDURE:

Inspect on site records of all casing strings set from the previous inspection to the present to verify that cementing jobs were conducted as designed.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC for each incident where the cementing job was not conducted as designed.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-166 **IS THE INTERMEDIATE CASING CEMENTED WITH AT LEAST A MINIMUM AMOUNT OF CEMENT TO FILL THE ANNULAR SPACE 500 FEET ABOVE THE CASING SHOE AND 500 FEET ABOVE EACH ZONE TO BE ISOLATED?**

Authority: 30 CFR 250.421(d) **Enforcement Action: W**

INSPECTION PROCEDURE:

Inspect on site records to verify that the intermediate casing was cemented with the required amount of cement.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC for each incident where the required amount of cement was not utilized.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-167 **IF A LINER IS USED AS CONDUCTOR OR SURFACE CASING, IS THE TOP OF THE LINER SET AT LEAST 200 FEET ABOVE THE PREVIOUS CASING/LINER SHOE?**

Authority: 30 CFR 250.421(f) **Enforcement Action: W**

INSPECTION PROCEDURE:

Inspect on site records to verify that liners are set as required.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC for each incident where the liner was not set as required.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-168 **IF A LINER IS USED AS AN INTERMEDIATE STRING BELOW A SURFACE STRING, OR PRODUCTION STRING BELOW AN INTERMEDIATE STRING, IS THE TOP OF THE LINER SET AT LEAST 100 FEET ABOVE THE PREVIOUS CASING STRING SHOE?**

Authority: 30 CFR 250.421(f) **Enforcement Action: W**

INSPECTION PROCEDURE:

Inspect on-site records to verify that liners are set as required.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC for each incident where the liner was not set as required.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-169 **IS ENOUGH CEMENT USED TO COVER OR ISOLATE ALL HYDROCARBON BEARING ZONES, AT LEAST 500 FEET OF ANNULAR SPACE ABOVE THE CASING SHOE AND 500 FEET ABOVE THE UPPERMOST HYDROCARBON BEARING ZONE?**

Authority: 30 CFR 250.421(e) **Enforcement Action: W**

INSPECTION PROCEDURE:

Inspect on site records to verify that enough cement was utilized.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC for each incident where enough cement was not utilized.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-170 **IF THE DIVERTER OR BOP ARE NIPPLED DOWN DURING THE WAITING PERIOD FOR CEMENTING, HAS IT BEEN DETERMINED SAFE TO DO SO BEFORE NIPPLING DOWN?**

Authority: 30 CFR 250.422(b) **Enforcement Action: W**

Note: Determination must be based on a knowledge of formation conditions, cement composition, effects of nippling down, presence of potential drilling hazards, well conditions, cementing, and experience.

INSPECTION PROCEDURE:

Review records.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the waiting period is deemed insufficient.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-171 **IF THE CASING SETTING DEPTHS ARE MORE THAN 100 FEET TVD FROM THE DEPTH APPROVED IN THE APD, HAS THE CHANGE BEEN APPROVED BY THE DISTRICT MANAGER?**

Authority: 30 CFR 250.428(b) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

Inspect on-site records to verify that casings are set as approved.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the casing was set deeper without approval.

Issue a rig shut-in (**S**) INC if drilling has continued deeper than approved.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-172 **WERE REMEDIAL ACTIONS, APPROVED BY THE DISTRICT MANAGER, TAKEN IF THERE WERE INDICATIONS OF AN INADEQUATE CEMENTING JOB?**

Authority: 30 CFR 250.428(c) **Enforcement Action: W**

30 CFR 250.428(d)

Note: Methods to determine an inadequate cementing job are:

1. Pressure test the casing shoe.
2. Run a temperature survey.
3. Run a cement bond log.
4. Use a combination of these techniques.

INSPECTION PROCEDURE:

Inspect on-site records to verify that an adequate remedy was utilized.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if an inadequate remedy was utilized.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-173 **WAS REMEDIAL ACTION TAKEN IF THE PRIMARY CEMENT JOB DID NOT ISOLATE ABNORMAL PRESSURE INTERVALS?**

Authority: 30 CFR 250.428(e) **Enforcement Action: W**

INSPECTION PROCEDURE:

Inspect on-site records to verify that proper remedial action was taken.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the proper remedial action was not taken.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-174 **FOR THE FINAL CASING STRING OR LINER, DID THE OPERATOR INSTALL DUAL MECHANICAL BARRIERS IN ADDITION TO CEMENT, TO PREVENT FLOW IN THE EVENT OF FAILURE IN THE CEMENT?**

Authority: 30 CFR 250.420(b) (3) **Enforcement Action: W/S**

Check drillers report, to verify that operator installed

1. Installed dual float valves or one float valve and a mechanical barrier.
2. Has properly notified the BSEE 30 days after installation.

IF NONCOMPLIANCE EXISTS:

Issue a warning **(W)** INC if operator has not properly notified the BSEE 30 days after installation.

Issue a rig shut-in **(S)** INC if operator did not install dual float valves or one float valve and a mechanical plug.

INSPECTION COUNT/INC COUNT:

Enter one item checked/ issue one INC per casing string.

D-175 **IS CEMENT THAT SETS BEFORE IT FREEZES, AND THAT HAS A LOW HEAT OF HYDRATION, USED TO CEMENT ACROSS A PERMAFROST ZONE?**

Authority: 30 CFR 250.428(i) **Enforcement Action: W**

INSPECTION PROCEDURE:

Inspect on-site records to verify that the proper cement was utilized.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the proper cement was not utilized.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-176 **DID THE OPERATOR ENSURE PROPER INSTALLATION OF CASING OR LINER IN THE SUBSEA WELLHEAD OR LINER?**

Authority: 30 CFR 250.423(b) (1) **Enforcement Action: W/S**
30 CFR 250.423(b)(2)

INSPECTION PROCEDURE:

Check driller report to ensure that latching or lockdown mechanism were engaged for each casing string or liner installed in the well.

Note: Check drillers report to ensure

1. Intermediate and production casing hangers are set in HP wellhead housing, The operator must immediately set/energize the lock-down ring prior to performing any negative test.
2. All production casing hangers set in HP wellhead housing were set/energized the lock-down sleeve immediately after running the casing and prior to performing any negative test.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the operator has moved off location and did not engage the latch or lockdown mechanism for each casing string or liner installed in the well.

Issue a rig shut-in (**S**) INC if the operator did not engage the latch or lockdown mechanism for each casing string or liner installed in the well.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each casing string or liner inspected.

D-177 **DID THE OPERATOR PERFORM A PRESSURE TEST ON THE CASING SEAL ASSEMBLY TO ASSURE PROPER INSTALLATION OF THE INTERMEDIATE AND PRODUCTION CASING STRING IN THE SUBSEA WELLHEAD OR LINER HANGER?**

Authority: 30 CFR 250.423(b)(3) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

Check driller report to ensure that the pressure test on the casing seal assembly for intermediate and production casing strings or liners.

IF NONCOMPLIANCE EXISTS:

Issue a warning **(W)** INC if the operator has moved off location and did not conduct pressure test on the casing seal assembly for intermediate and production casing strings or liners.

Issue a rig shut-in **(S)** INC if the operator did not conduct a the pressure test on the casing seal assembly for intermediate and production casing strings or liners.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each casing seal inspected.

D-178 **DID OPERATOR PERFORM A NEGATIVE PRESSURE TEST ON THE INTERMEDIATE AND PRODUCTION CASING STRING TO ENSURE PROPER CASING INSTALLATION WHEN USING A SUBSEA BOP STACK OR MUDLINE SUSPENSION SYSTEM?**

Authority: 30 CFR 250.423(c) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

1. Check drilling reports to assure that negative pressure test on the casing strings or liners were conducted in accordance with test procedures and criteria in the approved APD.
2. Verify a negative pressure test was performed prior to unlatching the BOP at any point in the well development.
3. Verify any necessary remedial actions were taken and notification was immediately given to the District Manager.
4. Verify a description of the corrective action taken was provided to the District Manager and approval was received for the retest.

IF NONCOMPLIANCE EXISTS:

Issue a warning **(W)** INC if the operator has moved off location and drilling reports do not show that operator performed a negative pressure test on the intermediate and production casing string.

Issue a facility shut-in **(S)** INC if drilling reports does not show that operator performed a negative pressure test on the intermediate and production casing string.

INSPECTION COUNT/INC COUNT:

Enter one item checked/ issue one INC per negative pressure test.

D-179 **ARE TWO BARRIERS IN PLACE PRIOR TO PERFORMING A NEGATIVE PRESSURE TEST?**

Authority: 30 CFR 250.423(c)(6) **Enforcement Action: W/S**
30 CFR 250.420(b)(3)

INSPECTION PROCEDURE:

Verify from driller's report that two barriers were in place prior to performing a negative pressure test.

IF NONCOMPLIANCE EXISTS:

Issue a warning **(W)** INC if the operator has completed a successful negative pressure test without installing two barriers prior to the test.

Issue a facility shut-in **(S)** INC if the operator is conducting a negative pressure test without two barriers installed.

INSPECTION COUNT/INC COUNT:

Enter one item checked/ issue one INC per negative pressure test

D-200 **DOES THE WORKING-PRESSURE RATING OF ALL BOP COMPONENTS EXCEED THE MASP TO WHICH THEY MAY BE SUBJECTED?**

Authority: 30 CFR 250.440 **Enforcement Action: S**

INSPECTION PROCEDURE:

Check APD and approved plans for verification of MASP and working pressure components of BOP systems.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) if the working pressure rating of BOP components does not exceed the MASP to which the components are subjected, with the exclusion of the annular preventer.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected.

D-201 **DOES THE ACCUMULATOR SYSTEM PROVIDE SUFFICIENT CAPACITY TO SUPPLY 1.5 TIMES THE VOLUME OF FLUID NECESSARY TO CLOSE AND HOLD CLOSED ALL BOP SYSTEM COMPONENTS WITH A MINIMUM PRESSURE OF 200 PSI ABOVE THE PRECHARGE PRESSURE WITHOUT ASSISTANCE FROM A CHARGING SYSTEM?**

Authority: 30 CFR 250.441(c) **Enforcement Action: S**
30 CFR 250.442(c)

INSPECTION PROCEDURE:

1. Verify that the BOP actuating system which is installed is in compliance with that which has been approved.
2. Witness the proper automatic operation of the charging system.
3. Check the system for leaks.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when an operable accumulator system of sufficient capacity is not installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected.

D-202 **HAVE ACCUMULATOR REGULATORS, SUPPLIED BY RIG AIR AND WITHOUT A SECONDARY SOURCE OF PNEUMATIC SUPPLY, BEEN EQUIPPED WITH MANUAL OVERRIDES OR OTHER DEVICES PROVIDED TO ENSURE CAPABILITY OF HYDRAULIC OPERATIONS IF RIG AIR IS LOST?**

Authority: 30 CFR 250.441(c) **Enforcement Action: S**

INSPECTION PROCEDURE:

Visually check to see if the accumulator unit is equipped with a fail safe pneumatically operated regulator or a manually operated regulator to ensure uninterrupted functional capability.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if:

1. A manual override is not installed on the air operated regulator, or
2. The regulator is not equipped with a secondary source of air.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected.

D-203 **IS AN AUTOMATIC BACKUP ACCUMULATOR-CHARGING SYSTEM, SUPPLIED BY A POWER SOURCE INDEPENDENT FROM THE POWER SOURCE TO THE PRIMARY ACCUMULATOR-CHARGING SYSTEM, AND POSSESSING SUFFICIENT CAPABILITY TO CLOSE ALL BOP COMPONENTS AND HOLD THEM CLOSED, PROVIDED?**

Authority: 30 CFR 250.443(a) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify that the backup system is supplied by an independent power source.
2. Witness operation of the accumulator backup system and verify that the backup system automatically charges the accumulators.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when an operable automatic accumulator back-up system is not installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected.

D-204 **IS AT LEAST ONE OPERABLE REMOTE BOP CONTROL STATION, IN ADDITION TO THE ONE ON THE DRILLING FLOOR, PROVIDED IN A READILY ACCESSIBLE LOCATION AWAY FROM THE DRILLING FLOOR?**

Authority: 30 CFR 250.443(b) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify that a readily accessible remote BOP control station is installed.
2. Witness the operation of the remote station, or inspect control panel gauge for presence of operating control pressure.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when an operable remote BOP control station is not installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per station inspected

D-205 **IS A DRILLING SPOOL WITH SIDE OUTLETS PROVIDED IF SIDE OUTLETS ARE NOT PROVIDED IN THE BODY OF THE BOP STACK TO PROVIDE FOR SEPARATE KILL AND CHOKE LINES?**

Authority: 30 CFR 250.443(c) **Enforcement Action: S**

INSPECTION PROCEDURE:

Visually confirm that side outlets are provided for separate choke and kill lines.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when separate choke and kill line outlets and lines are not installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-207 **IS EACH CHOKE AND KILL LINE EQUIPPED WITH TWO FULL OPENING VALVES, WITH AT LEAST ONE REMOTE CONTROLLED VALVE FOR SURFACE AND ALL REMOTE CONTROLLED VALVES FOR SUBSEA?**

Authority: 30 CFR 250.443(d) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Visually inspect the choke and kill lines to determine if they are each equipped with at least one remotely-controlled valve.
2. Exception for the kill line (surface systems only), a check valve may be installed on the kill line in lieu of the remotely-controlled valve, provided two readily accessible manual valves are in place and the check valve is placed between the manual valves and the pump.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the choke and kill lines are not each equipped with at least one remotely-controlled valve or as excepted above.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC for each line inspected.

D-208 **IS A FILL-UP LINE INSTALLED ABOVE THE UPPERMOST BOP?**

Authority: 30 CFR 250.443(e) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that the fill-up line is installed above the uppermost BOP. Kill lines are not acceptable as fill-up lines.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when a fill-up line has not been installed above the uppermost BOP.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-209 **DO THE CHOKE MANIFOLD COMPONENTS HAVE A RATED WORKING PRESSURE AT LEAST AS GREAT AS THE RATED WORKING PRESSURE OF THE RAM-TYPE BOP'S?**

Authority: 30 CFR 250.444(b) **Enforcement Action: S**

INSPECTION PROCEDURE:

Visually check rated working pressure of the equipment and check APD and rig manual to confirm the choke equipment rated working pressure is as great as the ram-type BOP's rated working pressure.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the choke manifold and related equipment have a rated working pressure less than the rated working pressure of the ram-type BOP's.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

.

D-210 **ARE ALL COMPONENTS OF THE CHOKE MANIFOLD SYSTEM SUITABLE FOR THE APPLICATION IN WHICH THOSE COMPONENTS WILL BE USED?**

Authority: 30 CFR 250.444(a) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Visually check location of choke manifold system to confirm it is in a heated area.
2. Check records to determine if choke manifold system has been bled.
3. Check records to determine what type of antifreeze fluid is used, if any.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the components of the choke manifold system are not protected by heating, draining, or filling with proper fluids as described above.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-211 **IF BUFFER TANKS ARE INSTALLED DOWNSTREAM OF THE CHOKE ASSEMBLIES FOR THE PURPOSE OF MANIFOLDING THE BLEED LINES TOGETHER, ARE ISOLATION VALVES INSTALLED ON EACH LINE?**

Authority: 30 CFR 250.444(b) **Enforcement Action: S**

INSPECTION PROCEDURE:

Visually check to confirm that isolation valves are installed between choke assemblies and buffer tank.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if isolation valves are not installed on each line.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

.

D-212 **DO VALVES, PIPES, FLEXIBLE STEEL HOSES, AND OTHER FITTINGS UPSTREAM OF THE CHOKE MANIFOLD HAVE PRESSURE RATINGS AT LEAST AS GREAT AS THE RATED WORKING PRESSURE OF THE RAM-TYPE BOP'S?**

Authority: 30 CFR 250.444(c) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify that affected equipment has a rated working pressure at least equal to the rated pressure of the ram-type BOP's.
2. Visually inspect the affected equipment to verify the pressure rating.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when valves, pipes, flexible steel hoses, and other fittings upstream of and including the choke manifold do not have a pressure rating at least equal to the rated working pressure of the ram-type BOP's.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

.

D-213 **IS WELLHEAD ASSEMBLY WITH A RATED WORKING PRESSURE THAT EXCEEDS THE MAXIMUM ANTICIPATED WELL-HEAD PRESSURE?**

Authority: 30 CFR 250.443(g) **Enforcement Action: S**

INSPECTION PROCEDURE:

Check APD to determine if the rated working pressure of the wellhead assembly is greater than the Maximum Anticipated Well Head Pressure.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the rated working pressure of the wellhead assembly is less than the Maximum Anticipated Well Head Pressure.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per well inspected.

D-214 **IS A FULL-OPENING KELLY VALVE INSTALLED BELOW THE SWIVEL (UPPER KELLY VALVE)?**

Authority: 30 CFR 250.445(a) **Enforcement Action: S**
30 CFR 250.445(h)

INSPECTION PROCEDURE:

Verify that the upper kelly valve is installed and operable.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when an operable upper kelly valve has not been installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-215 **IS A FULL-OPENING, STRIPPABLE, KELLY VALVE INSTALLED AT THE BOTTOM OF THE KELLY (LOWER KELLY VALVE)?**

Authority: 30 CFR 250.445(b) **Enforcement Action: S**
30 CFR 250.445(h)

INSPECTION PROCEDURE:

Verify that the lower kelly valve is installed and operable.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when an operable lower kelly valve has not been installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected
.

D-216 **WITH A MUD MOTOR IN SERVICE AND WHILE USING DRILL PIPE IN LIEU OF A KELLY, IS ONE KELLY VALVE LOCATED ABOVE AND ONE STRIPPABLE KELLY VALVE LOCATED BELOW THE JOINT OF DRILL PIPE EMPLOYED IN LIEU OF A KELLY?**

Authority: 30 CFR 250.445(c) **Enforcement Action: S**

INSPECTION PROCEDURE:

Visually check to confirm that both an upper and lower kelly valve are installed.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if either kelly valve is not installed.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each kelly valve inspected.

D-217 **ON A TOP-DRIVE SYSTEM EQUIPPED WITH A REMOTE-CONTROLLED VALVE, IS A STRIPPABLE KELLY VALVE INSTALLED BELOW THE REMOTE-CONTROLLED VALVE?**

Authority: 30 CFR 250.445(d) **Enforcement Action: S**

INSPECTION PROCEDURE:

Visually check to confirm that both the upper remote-controlled and the lower kelly valves are installed on a top drive system.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if both kelly valves are not installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

.

D-218 **IS A WRENCH TO FIT EACH MANUALLY-OPERABLE VALVE READILY ACCESSIBLE TO THE DRILLING CREW?**

Authority: 30 CFR 250.445(i) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify that a wrench to fit each manually-operable valve in use is readily accessible to the drilling crew.
2. Wrenches shall be available for upper and lower kelly valves, and all drill-string safety valves maintained to fit the drill-string connections.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when required wrenches are not readily accessible to the drilling crew.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each valve inspected.

D-219 **ARE THE INSIDE BOP AND FULL-OPENING DRILL-STRING SAFETY VALVES, FITTING ALL SIZES OF PIPE IN THE DRILL STRING, IN THE OPEN POSITION ON THE RIG FLOOR AT ALL TIMES WHILE DRILLING OPERATIONS ARE BEING CONDUCTED?**

Authority: 30 CFR 250.445(e) **Enforcement Action: S**
30 CFR 250.445(f)

INSPECTION PROCEDURE:

Verify that the inside BOP and the drill-string safety valves fitting all sizes of pipe in the drill-string are available on the rig floor in the open position.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when:

1. Required inside BOP or drill-string safety valves are not available on the rig floor.
2. The valves are not in the open position.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each valve inspected.

D-220 **IS A SAFETY VALVE IN THE OPEN POSITION AVAILABLE ON THE RIG FLOOR TO FIT THE CASING BEING RUN IN THE HOLE?**

Authority: 30 CFR 250.445(g) **Enforcement Action: W**

Note: This PINC is not applicable to a subsea completion operation when the casing is shorter than the riser.

INSPECTION PROCEDURE:

1. Verify the availability of valve assembly on the rig floor if casing is being run during an inspection.
2. Verify connections compatible with casing being run in the hole.

Note: A low torque valve attached to a swedge with compatible connections is acceptable.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if:

1. The casing safety valve is not available on the rig floor during casing running operations, or
2. The casing safety valve is not equipped with compatible connections to fit the casing being run in the hole.

INSPECTION FORM:

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each valve inspected.

D-221 **ARE LOCKING DEVICES INSTALLED ON THE RAM-TYPE BOP'S?**

Authority: 30 CFR 250.443(f) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify that locking devices are installed on all ram-type BOP's.
2. If conditions permit, witness the operation of locking devices.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when locking devices are not installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected.

D-222 **IF A TAPERED DRILL-STRING IS IN USE, ARE TWO SETS OF RAMS CAPABLE OF SEALING AROUND THE LARGER SIZE DRILL-STRING AND ONE SET OF RAMS CAPABLE OF SEALING AROUND THE SMALLER SIZE DRILL-STRING INSTALLED?**

Authority: 30 CFR 250.451(e) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that the BOP stack is equipped as required.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when required configuration has not been installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-223 **IS THE CHOKE LINE INSTALLED ON THE BOP STACK ABOVE THE BOTTOM RAM?**

Authority: 30 CFR 250.443(d)(1) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that the choke line is installed above the bottom ram.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when the choke line is not installed above the bottom ram.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-224 **IS THE KILL LINE INSTALLED ON THE BOP STACK?**

Authority: 30 CFR 250.443(d) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that the kill line is installed.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when the kill line is not installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-225 **IF A BOP CONTROL STATION OR POD DOES NOT FUNCTION PROPERLY, ARE DRILLING OPERATIONS SUSPENDED UNTIL THAT STATION OR POD IS OPERABLE?**

Authority: 30 CFR250. 451(d) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

Verify that the BOP control station or pod function properly.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if drilling operations were not suspended when the station or pod malfunctioned, but was subsequently functional.

Issue a rig shut-in (**S**) INC when drilling operations are in progress with a station or pod malfunctioning.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per inspection.

D-226 **DID OPERATOR PROVIDE BSEE REPRESENTATIVE ACCESS TO THE LOCATION TO WITNESS ANY TESING OR INSPECTIONS?**

Authority: 30 CFR 250.416(g) (2) (ii) **Enforcement Action: S**

Check records to verify operator notified District Manager 72 hours in advance and provided access to the testing and inspection location.

IF NONCOMPLIANCE EXISTS:

Issue a facility shut-in **(S)** INC if operators did not notify BSEE District Manager and provide access to the location to witness testing and inspection.

INSPECTION COUNT/INC COUNT:

Enter one item checked/ issue one INC per testing or inspection.

D-227 **DID OPERATOR PRIOR TO ANY SHEARING RAM TESTS AND INSPECTIONS NOTIFY THE DISTRICT MANAGER AT LEAST 24 HOURS IN ADVANCE?**

Authority: 30 CFR 250.416(g) (2) (ii) **Enforcement Action: W**

Check records to verify that operator notified the District Manager at least 72 hours prior to any shearing ram tests and inspections.

Note: Applies to

1. Shearing of pipe
2. Function test, pressure test, and actual shearing test.

IF NONCOMPLIANCE EXISTS:

Issue a warning **(W)** INC if operator did not notify the District Manager at least 72 hours prior to any shearing ram tests and inspections.

INSPECTION COUNT/INC COUNT:

Enter one item checked/ issue one INC per testing or inspection.

SURFACE BOP SYSTEM

LAST UPDATE 2012

D-231 **IF A REMOTE-CONTROLLED VALVE IS NOT INSTALLED IN THE KILL LINE, ARE BOTH MANUAL VALVES READILY ACCESSIBLE AND IS THE CHECK VALVE INSTALLED BETWEEN THE MANUAL VALVES AND THE PUMP?**

Authority: 30 CFR 250.443(d)(3) **Enforcement Action: S**

Note: Surface BOP systems only.

INSPECTION PROCEDURE:

If a check valve is used in lieu of a remote-controlled valve in the kill line, visually confirm that:

1. Two readily accessible manual valves are in place, and
2. The check valve is placed between the two manual valves and the pump.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if:

1. The two manual valves are not in place, or
2. The check valve is not placed between the outer manual valve and the pump.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-232 **PRIOR TO DRILLING BELOW SURFACE CASING, IS A BOP SYSTEM INSTALLED CONSISTING OF AT LEAST FOUR REMOTE-CONTROLLED, HYDRAULICALLY-OPERATED BOP'S INCLUDING AT LEAST TWO EQUIPPED WITH PIPE RAMS, BLIND-SHEAR RAMS, AND ONE ANNULAR TYPE?**

Authority: 30 CFR 250.441(a) **Enforcement Action: S**

INSPECTION PROCEDURE:

If surface casing has been set, verify that the required BOP system has been installed.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when the required BOP system has not been installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

SUBSEA BOP SYSTEMS
LAST UPDATE 2012

D-240 **PRIOR TO DRILLING BELOW SURFACE CASING WITH A SUBSEA STACK, ARE THERE AT LEAST FOUR REMOTE-CONTROLLED, HYDRAULICALLY-OPERATED BOPS, INCLUDING AT LEAST TWO EQUIPPED WITH PIPE RAMS, ONE WITH BLIND-SHEAR RAMS, AND ONE ANNULAR TYPE?**

Authority: 30 CFR 250.442(a) **Enforcement Action: S**

INSPECTION PROCEDURE:

If surface casing has been set, verify that the required BOP system has been installed.

NOTE: For the subsea BOP stack, operators must make available the documentation that the blind shear ram is capable of shearing any drill pipe (including workstring & tubing) in the hole under MASP.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when a required, approved, and operable BOP system is not installed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-241 **IS THE ACCUMULATOR CLOSING SYSTEM, TO PROVIDE FAST CLOSURE OF THE BOP COMPONENTS AND TO OPERATE ALL CRITICAL FUNCTIONS IN CASE OF A LOSS OF THE POWER FLUID CONNECTION TO THE SURFACE, INSTALLED IN ACCORDANCE WITH API RP 53 SECTION 13.3?**

Authority: 30 CFR 250.442(c) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that

1. BOP stack is equipped with accumulator bottles.
   a. BOP Rams close within 45 seconds.
   b. Annular BOPS close within 60 seconds.
   c. Operating response time for the choke and kill valves (either open or closed) does not exceed the minimum observed BOP Ram close response time.
   d. Time to unlatch the lower marine riser package does not exceed 45 seconds.
2. Check closing times for pressure and function tests are in compliance.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the accumulator closing system cannot operate the specified equipment within the specified time.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-242 **DOES THE BOP SYSTEM INCLUDE OPERABLE DUAL-POD CONTROL SYSTEMS TO ENSURE PROPER AND INDEPENDENT OPERATION?**

Authority: 30 CFR 250.442(b) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify that a dual pod control system has been installed as follows:
   A. Two completely redundant control pods.
   B. Each pod contains all necessary valves and regulators to operate the BOP stack functions.
2. Conditions permitting, witness a function test of each pod to verify proper actuation.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when an operable dual pod control system has not been installed.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-243 **DO THE RECORDS INDICATE THAT THE WELL CELLAR IS AT THE APPROVED DEPTH TO ENSURE THAT THE TOP OF THE STACK IS BELOW THE DEEPEST PROBABLE ICE-SCOUR DEPTH?**

Authority: 30 CFR 250.442 (l) **Enforcement Action: S**

INSPECTION PROCEDURE:

Check records to ensure that the well cellar is at the approved depth.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the well cellar has not been excavated to the approved depth.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected.

D-244 **IS THE MARINE RISER DISPLACED WITH SEA WATER PRIOR TO REMOVAL?**

Authority: 30 CFR 250.442(k) **Enforcement Action: W**

Note: Sufficient hydrostatic pressure must be maintained or other suitable precautions must be taken to **compensate** for the reduction in pressure and to maintain a safe and controlled well condition.

INSPECTION PROCEDURE:

Verify that the riser was properly displaced before removal.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate the riser was not displaced with seawater.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-245 **DOES OPERATOR'S SUBSEA ACCUMULATOR PRECHARGE PRESSURE COMPENSATE FOR THE WATER DEPTH IN WHICH THE BOPS WILL BE OPERATING IN ACCORDANCE WITH API RP 53, SECTION 13.3.7?**

Authority: 30 CFR 250.442(c) **Enforcement Action: S**

INSPECTION PROCEDURE:

Check records to verify that the subsea accumulator precharge pressure compensates for the water depth the BOPs will be operating in.

Note: For example, if the precharge pressure of the surface accumulator is 1,000 psi and the BOPs will be in 500ft water depth, the subsea accumulators must be precharged to 1,225psi.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut in (**S**) INC if subsea accumulator precharge pressure does not compensates for the water depth the BOPs will be operating in.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea accumulator system inspected.

D-246 **DID OPERATOR CALIBRATE ACCULUMATOR PRESSURE GAUAGES TO ONE PERCENT OF FULL SCALE AT LEAST ONCE EVERY THREE YEARS IN ACCORDANCE WITH API RP 53, SECTION 13.3.8?**

Authority: 30 CFR 250.442(c) **Enforcement Action: W**

INSPECTION PROCEDURE:

Check records to verify that operator calibrated accumulator pressure gauges every three years to one percent of full scale.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if operator did not calibrate accumulator pressure gauges every three years to one percent of full scale.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea BOP system inspected.

D-247 **IS THE SUBSEA BOP STACK EQUIPPED WITH A ROV INTERVENTION?**

Authority: 30 CFR 250.442(d) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Check records to verify that the ROV is capable of closing one set of pipe rams and one set of blind shears and unlatching LMRP.
2. Conditions permitting, witness
   a. the ROV intervention functions on the subsea BOP stack during the stump test.
   b. the testing at least one set of tests rams during the initial test on the seafloor.
   c. the function testing of the ROV hot stabs to determine if they are capable of actuating a minimum of one set of pipe rams and one set of blind shear rams and unlatching the LMRP.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the ROV function testing does not meet one or more of the requirements listed above.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per ROV inspected.

D-248 **DOES THE SUBSEA BOP SYSTEM HAVE AN AUTOSHEAR AND DEADMAN SYSTEM FOR DYNAMICALLY POSITIONED RIGS?**

Authority: 30 CFR 250.442(f) **Enforcement Action: S**

Definitions:

1. ***Autoshear system*** means a safety system that is designed to automatically shut in the wellbore in the event of a disconnect of the LMRP. When the autoshear is armed, a disconnect of the LMRP closes, at a minimum, one set of blind-shear rams. This is considered a "rapid discharge" system.
2. ***Deadman System*** means a safety system that is designed to automatically close, at a minimum, one set of blind-shear rams in the event of a simultaneous absence of hydraulic supply and signal transmission capacity in both subsea control pods. This is considered a "rapid discharge" system.

INSPECTION PROCEDURE:

Verify that operator provided an autoshear and deadman systems for dynamically positioned rigs when drilling.

Note: Operator does not have to have an acoustic system.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) if operator did not provide an autoshear and deadman systems for dynamically positioned rigs when drilling.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea BOP system inspected.

D-249 **DID THE OPERATOR INSTALL OPERATIONAL OR PHYSICAL BARRIER(S) ON A SUBSEA BOP CONTROL PANEL TO PREVENT ACCIDENTAL DISCONNECT FUNCTIONS?**

Authority: 30 CFR 250.442(g) **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that operator incorporated enable buttons on a subsea BOP control panel to ensure two-handed operation for all critical functions.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if operator did not incorporated enable buttons on control panels to ensure two-handed operation for all critical functions.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea BOP system inspected.

BOP TESTS, ACTUATORS, INSPECTIONS, AND MAINTENANCE

Last Updated - 2011

DEFINITION:

BOP System and Auxiliary Equipment - See Appendix 23

D-250 **HAVE ALL BOP SYSTEM COMPONENTS BEEN SUCCESSFULLY TESTED TO A LOW PRESSURE OF 200 PSI TO 300 PSI PRIOR TO CONDUCTING HIGH-PRESSURE TESTS?**

Authority: 30 CFR 250.448(a) **Enforcement Action: W/S**

Note: If the initial pressure exceeds 500 psi, you must bleed back to zero and re-initiate the test.

INSPECTION PROCEDURE:

1. Verify that a low-pressure test on BOP equipment was conducted prior to a high-pressure test and that the test was conducted in accordance with the specified requirements. (see Appendix 23).
2. If inspection is being performed during commencement of testing of BOP system, confirm operator's compliance with low-pressure testing requirements.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if a low-pressure test was missed, but subsequently performed.

Issue a rig shut-in (**S**) INC when records indicate a low-pressure test was not performed prior to a high-pressure test and/or the test was not performed as required (see Appendix 23).

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected.

D-251 **ARE RAM-TYPE BOP'S, CHOKE MANIFOLD, AND OTHER BOP EQUIPMENT PRESSURE TESTED TO A PRESSURE EQUAL TO THE RATED WORKING PRESSURE OF THE EQUIPMENT OR TO A PRESSURE APPROVED IN THE APD?**

Authority: 30 CFR 250.448(b) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

1. Verify that all BOP components were tested to the rated working pressure of the equipment.
2. If inspection is performed during testing, confirm Operator's compliance by witnessing the pressure tests.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the records indicate that a test was missed, but a subsequent test was conducted.
Issue a rig shut-in (**S**) INC if the required tests have not been conducted.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-252 **ARE SAFETY VALVES ACTUATED PRIOR TO RUNNING CASING AND RECORDED IN THE DRILLER'S REPORT?**

Authority: 30 CFR 250.449(i) **Enforcement Action: W**
30 CFR 250.450

Note: A low torque valve attached to a swedge with compatible connections is acceptable.

INSPECTION PROCEDURE:

1. Visually witness actuation of safety valves prior to running casing, or
2. Inspect records to ensure the valve was actuated.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate that safety valves are not actuated prior to the casing being run.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-253 **ARE SURFACE AND SUBSEA BOP SYSTEMS PRESSURE TESTED BETWEEN WELLS, BEFORE DRILLING OUT EACH STRING OF CASING OR LINER, OR AS OTHERWISE APPROVED BY THE DISTRICT MANAGER?**

Authority: 30 CFR 250.447(c) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

1. Inspect driller's report to verify that the tests were conducted between wells, before drilling out after each string of casing or liner.
2. If tests are performed during inspection, witness the tests.

Note: This test can be omitted if approved in the APD.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the BOP Systems are not tested between wells or the casing shoe has been drilled out without testing and subsequent tests were performed.
Issue a rig shut-in (**S**) INC if:

1. Casing has been set and Operator is preparing to drill out without performing tests.
2. A subsequent test has not been performed.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-254 **WHEN THE BOP TESTS ARE POSTPONED DUE TO WELL CONTROL PROBLEMS, IS THE BOP TEST PERFORMED ON THE FIRST TRIP OUT OF THE HOLE AND ARE THE SPECIFIC REASONS FOR POSTPONING THE TESTING RECORDED IN THE DRILLER'S REPORT?**

Authority: 30 CFR 250.451(c) **Enforcement Action: W**

INSPECTION PROCEDURE:

1. Check driller's report to determine why tests were postponed.
2. Valid reasons for postponing pressure tests include:
   A. Lost circulation.
   B. Formation fluid influx.
   C. Stuck drill pipe.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if reason for postponing tests was not entered in driller's report.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each well inspected

D-256 **ARE ANNULARS AND RAM BOP'S FUNCTION TESTED EVERY 7 DAYS BETWEEN PRESSURE TESTS?**

Authority: 30 CFR 250.449(h) **Enforcement Action: W/S**

Note: Approval may be obtained not to function test blind rams if no trip is performed between tests.

INSPECTION PROCEDURE:

1. Verify that annular and ram BOP's have been function tested every 7 days between pressure tests.
2. Inspect function test if performed during the inspection.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if function test was not conducted, but subsequent function test was conducted.
Issue a rig shut-in (**S**) INC if annular and rams have not been function tested in the past 7 days.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-257 **ARE VARIABLE-BORE PIPE RAMS PRESSURE-TESTED AGAINST THE LARGEST AND SMALLEST SIZES OF PIPE IN USE, EXCLUDING DRILL COLLARS AND BOTTOM-HOLE TOOLS?**

Authority: 30 CFR 250.449(f) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

1. If inspection is performed during testing, confirm operator compliance by witnessing test.
2. Inspect records for verification that tests have been conducted.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if past test has not been conducted but a subsequent test has been conducted.
Issue a rig shut-in (**S**) INC if test has not been conducted.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-258 **ARE AFFECTED BOP COMPONENTS PRESSURE TESTED FOLLOWING DISCONNECTION OR REPAIR OF ANY WELL-PRESSURE CONTAINMENT SEAL IN THE WELLHEAD OR BOP STACK ASSEMBLY?**

Authority: 30 CFR 250.449(g) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

Verify that if repairs required disconnection of pressure seals, tests on affected equipment were conducted.

Note: Driller's report notation is acceptable test confirmation.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC where drilling operations commenced without conducting tests on the seals but subsequent BOP tests were conducted.
Issue a rig shut-in (**S**) INC when pressure seal tests were not conducted following repairs.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-259 **ARE THE BOP SYSTEMS VISUALLY INSPECTED EACH DAY FOR SURFACE STACKS OR AT LEAST ONCE EVERY 3 DAYS FOR SUBSEA STACKS?**

Authority: 30 CFR 250.446(b) **Enforcement Action: W**
30 CFR 250.450

Note:

1. Daily inspections do not apply to casing risers.
2. Weather and sea conditions are allowable reasons for not inspecting subsea BOP systems and marine risers at least once every 3 days.

INSPECTION PROCEDURE:

Verify that the BOP systems and marine risers have been visually inspected by checking the driller's report.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when the operator cannot verify that the BOP system is visually inspected as required.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-260 **ARE THE TIME, DATE, AND RESULTS OF ALL PRESSURE TESTS, ACTUATIONS, AND INSPECTIONS OF THE BOP SYSTEM, SYSTEM COMPONENTS, AND MARINE RISERS RECORDED IN THE DRILLER'S REPORT?**

Authority: 30 CFR 250.450 **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that required tests, actuations, and inspections have been properly recorded in the driller's report.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when a required test is not properly recorded.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-261 **ARE BOP TEST PRESSURES RECORDED ON A PRESSURE CHART OR DIGITAL RECORDER?**

Authority: 30 CFR 250.448(d) **Enforcement Action: W**
30 CFR 250.450(a)

INSPECTION PROCEDURE:

Verify that the BOP test pressures have been recorded on a pressure chart or digital recorder.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the BOP test pressures have not been recorded on a pressure chart or digital recorder.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-262 **IS THE TEST INTERVAL FOR EACH BOP COMPONENT TESTED FOR A MINIMUM OF 5 MINUTES, 3 MINUTES ON THE OUTERMOST HALF OF A CHART, OR ON A DIGITAL RECORDER TO DEMONSTRATE THAT THE COMPONENT IS HOLDING PRESSURE?**

Authority: 30 CFR 250.448(d) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

Verify that each BOP component held pressure for at least five minutes or other time periods specified by the regulations (see Appendix 23).

Note: For surface BOP systems and surface equipment of a subsea BOP system, a 3-minute test duration is acceptable if you record your test pressure on the outermost half of a 4-hour chart, on a 1-hour chart, or on a digital recorder.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the pressure charts or digital recorder indicates that each BOP component did not hold pressure as required but a subsequent test was performed.

Issue a rig shut-in (**S**) INC if the test requirements were not met on the last test.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-263 **ARE BOP TEST PRESSURE CHARTS CERTIFIED (SIGNED AND DATED) AS CORRECT BY THE OPERATOR'S REPRESENTATIVE AT THE FACILITY?**

Authority: 30 CFR 250.450(b) **Enforcement Action: W**

DEFINITION:

Operator's Representative - The person or persons selected by the Designated Lease Operator to supervise their operations and represent them on any decisions required of said operators.

INSPECTION PROCEDURE:

Verify that each pressure chart contains a written certification (signature and date) by the operator's representative at the facility.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if any pressure chart does not contain a written certification by the operator's representative at the rig.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-264 **DOES THE DOCUMENTATION INDICATE THE SEQUENTIAL ORDER OF BOP AND AUXILIARY EQUIPMENT TESTING, AND THE PRESSURE AND DURATION OF EACH TEST?**

Authority: 30 CFR 250.450(c) **Enforcement Action: W**

INSPECTION PROCEDURE:

Check the driller's report or referenced document to verify that the sequential order of BOP and auxiliary equipment testing and the pressure and duration of each test is recorded.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the documentation does not indicate the sequential order of BOP and auxiliary equipment testing and the pressure and duration of each test.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-265 **IS THE CONTROL STATION OR POD USED DURING THE BOP SYSTEM TESTING IDENTIFIED IN THE DRILLER'S REPORT OR REFERENCED DOCUMENTS?**

Authority: 30 CFR 250.450(c) **Enforcement Action: W**
30 CFR 250.450(d)

INSPECTION PROCEDURE:

Check the driller's report or referenced document to verify that the control station used during the BOP system testing is identified.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the control station used during the BOP system testing is not identified in the driller's report or referenced document.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-266 **ARE ANY PROBLEMS OR IRREGULARITIES OBSERVED DURING BOP SYSTEM TESTING IDENTIFIED AND THE ACTIONS TAKEN TO REMEDY SUCH PROBLEMS OR IRREGULARITIES RECORDED?**

Authority: 30 CFR 250.450(c) **Enforcement Action: W**
30 CFR 250.450(e)

INSPECTION PROCEDURE:

Check the driller's report or referenced document to verify that problems or irregularities observed during BOP system testing and actions taken to remedy such problems or irregularities are recorded.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if problems or irregularities observed during the testing of BOP system and actions taken to remedy such problems or irregularities are not recorded in the driller's report or referenced documents.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-267 **ARE ALL RECORDS INCLUDING PRESSURE CHARTS, DRILLER'S REPORT, AND REFERENCED DOCUMENTS OF BOP TESTS, ACTUATIONS, AND INSPECTIONS AVAILABLE AT THE FACILITY FOR THE DURATION OF THE DRILLING ACTIVITY?**

Authority: 30 CFR 250.450(c) **Enforcement Action: W**
30 CFR 250.450(f)

INSPECTION PROCEDURE:

Verify that all records including pressure charts, driller's report, and referenced documents of BOP tests, actuation, and inspections are available at the facility for the duration of the drilling activity.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if all records of BOP tests, actuation, and inspections including pressure charts, driller's report, and referenced documents are not available at the facility for the duration of the drilling activity.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-268 **ARE ALL RECORDS RELATING TO CASING AND LINER PRESSURE TESTS, DIVERTER TESTS, AND BOP TESTS RETAINED FOR A PERIOD OF TWO YEARS AFTER COMPLETION OF THE DRILLING OPERATIONS?**

Authority: 30 CFR 250.467(b) **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that all such records are available, during entire drilling operation.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the records are not available.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

D-269 **ARE BLIND OR BLIND-SHEAR RAMS TESTED DURING A STUMP TEST AND AT ALL CASING POINTS WITHOUT EXCEEDING 30 DAYS BETWEEN TESTS?**

Authority: 30 CFR 250.449(d) **Enforcement Action: W/S**
30 CFR 250.449(e)

INSPECTION PROCEDURE:

Verify test records and charts indicate that test was performed.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the test was not performed when required, but a subsequent test was performed.
Issue a rig shut-in (**S**) INC if the test was not performed when required, nor was a subsequent test performed.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

SURFACE BOP TESTS

D-270 **ARE BOP SYSTEMS PRESSURE TESTED WHEN INSTALLED?**

Authority: 30 CFR 250. 447(a) **Enforcement Action: W/S**

DEFINITION:

BOP system and auxiliary equipment - See Appendix 23

INSPECTION PROCEDURE:

1. Verify that required tests were performed when BOP system and auxiliary equipment were installed.
2. If inspection is being performed when initial testing of BOP's and auxiliary equipment is in progress, witness the tests.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when drilling operations have commenced without the initial tests and subsequent tests have been performed.
Issue a rig shut-in (**S**) INC when installation has been accomplished, the initial tests have not been performed, drilling operations have commenced, and a subsequent test has not been performed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-271 **IS THE SURFACE BOP SYSTEM PRESSURE TESTED WITH WATER?**

Authority: 30 CFR 250.449(a) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

1. Verify that the BOP system was tested with water.
2. Witness BOP system testing if present.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if BOP system was not tested with water, but a subsequent test with water was performed.
Issue a rig shut-in (**S**) INC if BOP was tested with a fluid other than water.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-272 **IS THE ANNULAR-TYPE BOP PRESSURE TESTED WITH WATER TO 70 PERCENT OF ITS RATED WORKING PRESSURE?**

Authority: 30 CFR 250.448(c) **Enforcement Action: W/S**
30 CFR 250.449(a)

INSPECTION PROCEDURE:

1. Determine rated working pressure of BOP's and minimum internal yield pressure of casing.
2. Verify that pressure tests have been performed on annular-type BOP's at 70 percent of rated working pressure or as otherwise approved in the APD.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when records indicate that previous test(s) did not meet minimum requirements but were later met by subsequent tests.

Issue a rig shut-in (**S**) INC when the annular-type BOP's have not been tested as required.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-273 **ARE SURFACE BOP SYSTEMS PRESSURE TESTS BEGUN BEFORE 14 DAYS HAVE ELAPSED SINCE THE LAST BOP PRESSURE TEST WAS COMPLETED, ALTERNATING BETWEEN CONTROL STATIONS?**

Authority: 30 CFR 250.447(b) **Enforcement Action: W/S**
30 CFR 250.449(c)

DEFINITION:

BOP system and auxiliary equipment - See Appendix 23

Note: A 14-day pressure test is not required for blind and blind shear rams.

INSPECTION PROCEDURE:

1. Inspect driller's report to verify that tests were begun before 14 days had elapsed since the last BOP pressure test was completed.
2. All control stations must be functional. Operations permitting, witness proper operation of stations.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when records indicate that tests other than most recent tests exceeded the 14-day interval requirement without acceptable explanation in driller's report.

Issue a rig shut-in (**S**) INC when date of most recent tests exceeds 14 days or if a control station is inoperable.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-274 **ARE THE BONNET SEALS TESTED BEFORE RUNNING THE CASING WHEN CASING RAMS ARE INSTALLED IN THE BOP STACK?**

Authority: 30 CFR 250.451(f) **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that the bonnet seals were tested.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if bonnet seals were not tested.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

SUBSEA BOP TESTS

D-281 **ARE SUBSEA BOP SYSTEM COMPONENTS STUMP PRESSURE TESTED AT THE SURFACE WITH WATER TO THEIR RATED WORKING PRESSURE?**

Authority: 30 CFR 250.449(b) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

1. Verify that required tests were performed prior to installation.
2. If inspection is being performed when stump tests are being conducted, witness the tests as conditions and time permit.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the BOP was not stump tested prior to commencing drilling operations.

Issue a rig shut-in (**S**) INC when installation of the BOP stack on the seafloor has commenced, drilling operations have not begun, and the BOP has not been stump tested.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-282 **ARE SUBSEA ANNULAR-TYPE BOPS STUMP PRESSURE TESTED AT THE SURFACE WITH WATER TO 70 PERCENT OF THEIR RATED WORKING PRESSURE OR TO THE PRESSURE IN THE APPROVED APD?**

Authority: 30 CFR 250.448(c) **Enforcement Action: W/S**
30 CFR 250.449(b)

INSPECTION PROCEDURE:

1. Verify that required tests were performed prior to installation.
2. If inspection is being performed when stump tests are being conducted, witness the tests as conditions and time permit.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the BOP was not stump tested prior to commencing drilling operations.
Issue a rig shut-in (**S**) INC when installation of the BOP stack on the seafloor has commenced, drilling operations have not begun, and the BOP has not been stump tested.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-283 **WAS THE SUBSEA BOP STACK PRESSURE TESTED AFTER INSTALLATION?**

Authority: 30 CFR250. 447(a) **Enforcement Action: W/S**
30 CFR 250.448(c)
30 CFR 250.449(b)

Note: Annular tested to 70 percent of the rated working pressure or to the pressure in the approved APD.

INSPECTION PROCEDURE:

1. Verify that required tests were performed within 30 days of the stump test.
2. If inspection is being performed when initial testing of BOP stack is in progress, witness the tests.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when drilling operations commenced prior to required test but subsequent tests have been performed.
Issue a rig shut-in (**S**) INC when installation has been accomplished, the initial tests have not been performed, drilling operations have commenced, and subsequent tests have not been performed.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

D-285 **ARE BOP SYSTEMS PRESSURE TESTING BEGUN BEFORE 14 DAYS HAVE ELAPSED SINCE THE LAST BOP TEST, ALTERNATING BETWEEN CONTROL STATIONS AND PODS?**

Authority: 30 CFR 250.447(b) **Enforcement Action: W/S**
30 CFR 250.449(c)

DEFINITION:

BOP system and auxiliary equipment - See Appendix 23

INSPECTION PROCEDURE:

1. Verify that required tests were begun before 14 days between tests is exceeded, alternating between control stations and pods.
2. All control stations and pods shall be functional. Conditions permitting, witness operation of stations.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when records indicate tests other than most recent test exceeded the 14-day interval requirement without acceptable explanation in driller's report.
Issue a rig shut-in (**S**) INC when:
1. Date of most recent test exceeds 14 days and acceptable explanation is not entered in driller's report.
2. Either control station or pod is inspected and found to be inoperable.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per BOP system inspected

WELL-CONTROL DRILLS

D-290 **ARE WELL-CONTROL DRILLS CONDUCTED FOR EACH DRILLING CREW AND RECORDED IN THE DRILLER'S REPORT?**

Authority: 30 CFR 250.462 **Enforcement Action: W**
30 CFR 250.462(c)

Note:

1. Well-control drills conducted:
   A. Must be designed to acquaint each crew member with his function during a well-control operation so that each member can perform his/her assignment promptly and efficiently.
   B. Must be performed at least once each week (well conditions permitting) with each crew.
   C. Must include on-bottom, drilling, tripping, and diverter drills.
   D. Refer to Appendix 22 for details of the contents of drilling and tripping drills.
2. After consulting with the Company Representative, BSEE representative may require the operator to conduct a well control drill.

INSPECTION PROCEDURE:
Verify that each crew has performed a well-control drill.
IF NONCOMPLIANCE EXISTS:
Issue a warning (**W**) INC when well control drills have not been conducted as required.
INSPECTION COUNT/ INC COUNT:
Enter one item checked/ issue one INC for each inspection

D-291 **IS A COPY OF THE COMPLETE WELL-CONTROL DRILL PLAN POSTED ON THE RIG FLOOR OR BULLETIN BOARD?**

Authority: 30 CFR 250.462(a) **Enforcement Action: W**
INSPECTION PROCEDURE:
Verify that a complete well-control plan has been posted on the rig floor and/or bulletin board.
IF NONCOMPLIANCE EXISTS:
Issue a warning (**W**) INC when plan is not posted.
INSPECTION COUNT/ INC COUNT:
Enter one item checked/ issue one INC for each inspection.

D-292 **ARE DRILLS CONDUCTED IN ACCORDANCE WITH THE WELL-CONTROL DRILL PLAN?**

Authority: 30 CFR 250.462 **Enforcement Action: W**
30 CFR 250.462(a)
30 CFR 250.462(b)

DEFINITION:
Well-control drill plan - A document that is posted on the rig floor and/or bulletin board that is applicable to the particular site, and is prepared for each crew member outlining the assignments each is to fulfill during the drill, establishing a prescribed time for the completion of each member's portion of the drill.
INSPECTION PROCEDURE:

1. If a drill is performed during an inspection, observe the drill to verify that drill crew members carry out their assignments according to the well-control plan for the site.
2. Verify the time required for the crew to complete the drill is in accordance with the established time prescribed in the well-control plan.

IF NONCOMPLIANCE EXISTS:
Issue a warning (**W**) INC when observed well control drills are not conducted according to the well-control plan.
INSPECTION COUNT/ INC COUNT:
Enter one item checked/ issue one INC for each inspection

DIVERTER SYSTEMS
LAST UPDATE - 2011

D-300 **WHEN DRILLING A CONDUCTOR OR SURFACE HOLE, IS THE DRILLING UNIT EQUIPPED WITH A DIVERTER SYSTEM CONSISTING OF A DIVERTER SEALING ELEMENT, DIVERTER LINES, AND CONTROL SYSTEMS?**

Authority: 30 CFR 250.430 **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that the drilling unit is equipped with a diverter system consisting of a sealing element, diverter lines, and control systems.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if drilling unit is not equipped with diverter and related equipment.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per diverter system inspected.

D-301 **IS THE DIVERTER SYSTEM EQUIPPED WITH FULL OPENING REMOTE-CONTROLLED VALVES IN THE FLOW AND VENT LINES THAT CAN BE OPERATED FROM AT LEAST ONE REMOTE-CONTROL STATION IN ADDITION TO THE ONE ON THE DRILLING FLOOR?**

Authority: 30 CFR250.431(c) **Enforcement Action: S**
30 CFR 250.431(d)

INSPECTION PROCEDURE:

1. Inspect flow and vent lines for remotely-controlled valves.
2. Inspect flow and vent lines to ensure that manual or butterfly valves are not installed in any part of the diverter system.
3. Inspect for a remote-control station in addition to the one on the drill floor.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if flow and vent lines do not have remotely-controlled valves that can be operated from a remote station.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per diverter system inspected.

D-302 **ARE THE DIVERTER SEALING ELEMENT, DIVERTER VALVES, AND DIVERTER-CONTROL SYSTEMS, INCLUDING THE REMOTE-CONTROL SYSTEM, ACTUATION-TESTED AND THE VENT LINES FLOW TESTED WHEN INSTALLED?**

Authority: 30 CFR 250.433 **Enforcement Action: W**

INSPECTION PROCEDURE:

Inspect records to confirm that all diverter equipment is actuation-tested when initially installed.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate that equipment has not been actuation-tested.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per diverter system inspected.

D-305 **ARE ALL RIGHT-ANGLE AND SHARP TURNS IN THE DIVERTER LINES TARGETED?**

Authority: 30 CFR 250.431(e) **Enforcement Action: S**

DEFINITION:

Targeted - The building-up or reinforcing of a right-angle or sharp turn in a line where the fluid or solids in a fluid are likely to erode the upstream side of the turn.

INSPECTION PROCEDURE:

Verify that all right angle and sharp turns are targeted and surface diverter configurations do not have more than one right-angle turn per diverter spool outlet.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if lines are not targeted and more than one right-angle turn per diverter spool outlet exists.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per diverter system inspected.

D-306 **DOES FLEXIBLE HOSE USED FOR DIVERTER LINES HAVE INTEGRAL END COUPLINGS?**

Authority: 30 CFR 250.432(a) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify that flexible hose has integral end couplings.
2. Verify that the use of flexible hose for diverter lines is addressed in the approved APD.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if:

1. Flexible hose is not equipped with integral end couplings.
2. Use of flexible hose was not approved by the District Manager.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per diverter system inspected.

D-307 **IS THE ENTIRE DIVERTER SYSTEM ANCHORED AND SUPPORTED TO PREVENT WHIPPING AND VIBRATION?**

Authority: 30 CFR 250.431(f) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that the diverter system is secured.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the diverter system is capable of vibration or whipping.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per diverter system inspected.

.

D-308 **ARE ALL DIVERTER CONTROL INSTRUMENTS AND LINES PROTECTED FROM PHYSICAL DAMAGE FROM THROWN AND FALLING OBJECTS?**

Authority: 30 CFR 250.431(g) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that diverter control instruments and lines are protected from damage from thrown or falling objects.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if equipment is subject to any damage from thrown and falling objects.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per diverter system inspected.

D-309 **ARE ALL DIVERTER PRESSURE TEST, FLOW TEST, AND ACTUATION RESULTS RECORDED IN THE DRILLER'S REPORT?**

Authority: 30 CFR 250.433 **Enforcement Action: W**
30 CFR 250.434

Note: Flow tests and actuation tests are required for both surface and subsea wellhead systems, but pressure tests are required for only wellhead surface systems.

INSPECTION PROCEDURE:

Verify that all tests are recorded.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if results of tests are not recorded.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-311 **ARE BRANCH LINES INSTALLED TO PROVIDE DOWNWIND DIVERSION CAPABILITY, IF THE DIVERTER SYSTEM UTILIZES ONLY ONE SPOOL OUTLET?**

Authority: 30 CFR 250.432(b)(1) **Enforcement Action: S**
30 CFR 250.432(b)(2)

INSPECTION PROCEDURE:

1. Verify downwind diversion capability.
2. Verify that the use of only one spool outlet for the diverter system is addressed in the approved APD.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if:

1. Downwind diversion capability is not provided.
2. Use of only one spool outlet in the diverter system was not approved by the District Manager.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per diverter system inspected.

D-312 **IS EACH DIVERTER PRESSURE TEST RECORDED ON A PRESSURE CHART?**
Authority: 30 CFR 250.434(a) **Enforcement Action: W/S**
INSPECTION PROCEDURE:
Verify that the diverter tests were recorded on pressure charts.
IF NONCOMPLIANCE EXISTS:
Issue a warning (**W**) INC if a test was missed but a subsequent test was performed or if the diverter is no longer installed.
Issue a rig shut-in (**S**) INC if the last test was not recorded on a pressure chart and the rig is still utilizing the diverter system.
INSPECTION COUNT/ INC COUNT:
Enter one item checked/ issue one INC for each inspection

D-313 **HAS THE ONSITE REPRESENTATIVE CERTIFIED (SIGNED AND DATED) THE DIVERTER PRESSURE CHART AS CORRECT?**
Authority: 30 CFR 250.434(b) **Enforcement Action: W**
INSPECTION PROCEDURE:
Verify that charts are certified.
IF NONCOMPLIANCE EXISTS:
Issue a warning (**W**) INC if the charts are not certified as correct.
INSPECTION COUNT/ INC COUNT:
Enter one item checked/ issue one INC for each inspection

D-314 **IS THE CONTROL STATION USED DURING THE DIVERTER TEST OR ACTUATION IDENTIFIED?**
Authority: 30 CFR 250.434(c) **Enforcement Action: W**
INSPECTION PROCEDURE:
Verify which control station was used.
IF NONCOMPLIANCE EXISTS:
Issue a warning (**W**) INC if the records do not indicate which control station was used.
INSPECTION COUNT/ INC COUNT:
Enter one item checked/ issue one INC for each inspection

SURFACE DIVERTER SYSTEMS

D-315 **ARE PROBLEMS OR IRREGULARITIES OBSERVED DURING DIVERTER TESTING OR ACTUATION, AND THE REMEDIES RECORDED IN THE DRILLER'S REPORT?**
Authority: 30 CFR 250.434(d) **Enforcement Action: W**
INSPECTION PROCEDURE:
Verify that problems, irregularities, and remedies are recorded.
IF NONCOMPLIANCE EXISTS:
Issue a warning (**W**) INC if problems, irregularities, or remedies are not recorded.
INSPECTION COUNT/ INC COUNT:
Enter one item checked/ issue one INC for each inspection

D-316 **ARE PRESSURE CHARTS AND REPORTS PERTAINING TO THE DIVERTER TEST AND ACTUATIONS RETAINED AT THE RIG FOR THE DURATION OF DRILLING THE WELL?**
Authority: 30 CFR 250.434(e) **Enforcement Action: W**
INSPECTION PROCEDURE:
Verify that charts and reports are kept on the rig for the duration of drilling the well.
IF NONCOMPLIANCE EXISTS:
Issue a warning (**W**) INC if charts and reports are not kept on the rig.
INSPECTION COUNT/ INC COUNT:
Enter one item checked/ issue one INC for each inspection

D-317 **IS THE DIVERTER SYSTEM DESIGNED, INSTALLED, USED, MAINTAINED AND TESTED TO ENSURE PROPER DIVERSION OF GASES, WATER, DRILLING FLUIDS AND OTHE MATERIALS AWAY FROM FACILITIES AND PERSONNEL BEFORE DRILLING CONDUCTOR OR SURFACE HOLE?**

Authority: 30 CFR 250.430 **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify that the diverter actuating system which is installed is in compliance with that which has been approved.
2. Verify that the accumulator system provides sufficient capacity to close a diverter system that is installed before drilling conductor or surface hole.
3. Witness the proper automatic operation of the charging system.
4. Check the system for leaks.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when an operable accumulator system of sufficient capacity is not installed.

INSPECTION COUNT/ INC COUNT:

Enter one item checked / issue one INC per diverter system inspected.

SURFACE DIVERTER SYSTEMS

D-322 **IS THE SPOOL OUTLET AND DIVERTER LINE NOMINAL DIAMETER AT LEAST 10 INCHES FOR SURFACE WELLHEAD CONFIGURATIONS AND AT LEAST 12 INCHES FOR FLOATING DRILLING OPERATIONS?**

Authority: 30 CFR 250.431(a) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that the spool outlet and diverter line nominal diameter is properly sized.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the nominal diameter of the spool outlet and diverter line is not properly sized.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per diverter system inspected.

D-324 **ARE BOTH OUTLETS PIPED TO PROVIDE DOWNWIND DIVERSION CAPABILITY, IF DUAL SPOOL OUTLETS ARE UTILIZED?**

Authority: 30 CFR 250.431(b) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that spool outlets are piped to provide downwind diversion.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if both outlets are not piped to provide downwind diversion.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per diverter system inspected.

D-326 **ARE DIVERTER SEALING ELEMENTS AND DIVERTER VALVES PRESSURE TESTED TO A MINIMUM OF 200 PSI WHEN NIPPLED UP ON CONDUCTOR CASING, WITH NO MORE THAN 7 DAYS ELAPSED TIME BETWEEN SUBSEQUENT TESTS?**

Authority: 30 CFR 250.433(a) **Enforcement Action: W/S**

Note: Pressure test not required on subsea wellhead diverter systems.

INSPECTION PROCEDURE:

Verify that diverter sealing elements and diverter valves are pressure tested to a minimum of 200 psi with no more than 7 days between tests.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate the following and the diverter is no longer installed:

1. Diverter sealing elements and diverter valves were not pressure-tested to a minimum of 200 psi when nippled up on conductor casing.
2. More than 7 days have elapsed between any subsequent test.

Issue a rig shut-in (**S**) INC if the diverter is installed and has not been tested or more than 7 days has elapsed between subsequent test.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-327 **ARE SUBSEQUENT ACTUATION TESTS OF THE DIVERTER SEALING ELEMENT, DIVERTER VALVES, AND DIVERTER-CONTROL SYSTEMS, INCLUDING THE REMOTE-CONTROL SYSTEM, CONDUCTED AT LEAST ONCE EVERY 24-HOUR PERIOD ALTERNATING BETWEEN CONTROL STATIONS FOR SURFACE DIVERTER SYSTEMS?**

Authority: 30 CFR 250.433(a) **Enforcement Action: W**

30 CFR 250.433(c)

INSPECTION PROCEDURE:

Verify that actuation tests are conducted.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate that surface diverter system equipment has not been actuation tested at least once during every 24-hour period.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-334 **IS VESSEL HEADING MAINTAINED TO ALLOW FOR DOWNWIND DIVERSION, ON DYNAMICALLY-POSITIONED DRILL SHIPS?**

Authority: 30 CFR 250.432(d) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that downwind diversion can be or is being maintained.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC until vessel heading is changed to allow for downwind diversion.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection.

DRILLING FLUID PROGRAM

D-400 **HAS DRILLING FLUID BEEN PROPERLY CONDITIONED BY CIRCULATION BEFORE STARTING OUT OF THE HOLE WITH DRILL PIPE, OR IS THERE PROPER DOCUMENTATION IN THE DRILLER'S REPORT THAT CIRCULATION WAS NOT NECESSARY?**

Authority: 30 CFR 250.456(a) **Enforcement Action: W**

DEFINITIONS:

Properly conditioned – Drilling fluid which has been circulated bottoms up and drilling fluid volume going into the borehole essentially equals the drilling fluid volume coming out of the borehole.

INSPECTION PROCEDURE:

Verify that the drilling fluid has been properly conditioned or that proper documentation shows that circulation was not necessary before starting out of the hole.

Note:

1. Examples of verification are:
   A. Well not flowing prior to pulling out of the hole.
   B. Drilling fluid weight in is equal to drilling fluid weight out within 0.2 ppg (1.5 pcf).
2. If drilling fluid weight out is lighter than drilling fluid weight in by more than 0.2 ppg (1.5 pcf), drilling fluid shall be circulated bottoms up, and rechecked for flow and weight properties.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when records indicate that the drilling fluid has not been properly conditioned by circulation before starting out of the hole or there is no documentation that circulation was not necessary.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-401 **WHEN COMING OUT OF THE HOLE WITH DRILL PIPE, IS THE ANNULUS FILLED WITH DRILLING FLUID BEFORE THE CHANGE IN DRILLING FLUID LEVEL DECREASES THE HYDROSTATIC PRESSURE BY 75 PSI, OR EVERY FIVE STANDS OF DRILL PIPE, WHICHEVER GIVES A LOWER DECREASE IN HYDROSTATIC PRESSURE?**

Authority: 30 CFR 250.456(c) **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that the hole is filled after pulling posted number of stands.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when more than the posted number of stands are pulled and hole is not filled.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-402 **HAS THE NUMBER OF STANDS OF DRILL PIPE AND DRILL COLLARS THAT MAY BE PULLED PRIOR TO FILLING THE HOLE AND THE EQUIVALENT DRILLING FLUID VOLUME NEEDED TO FILL THE HOLE BEEN CALCULATED AND HAVE BOTH BEEN POSTED NEAR THE DRILLER'S STATION?**

Authority: 30 CFR 250.456(c) **Enforcement Action: W**

INSPECTION PROCEDURE:

1. Verify the fill-up volume.
2. Verify that fill-up volume equivalents, for the drill pipe and drill collars in use, are posted in the drill floor area.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when these volumes are not posted near the driller's station.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-403 **FOR EACH CASING STRING, IS THE MAXIMUM PRESSURE TO BE CONTAINED UNDER THE BOP STACK CALCULATED AND POSTED NEAR THE DRILLER'S STATION?**

Authority: 30 CFR 250.456(f) **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that the maximum pressure to be contained is posted.

Note: As a minimum, the following two pressures must be posted:

1. The surface pressure at which the shoe would break down.
2. The lesser of the BOP's rated working pressure or 70 percent of casing-burst pressure (or casing test otherwise approved by the District Manager).
3. The format of a sample calculation of the maximum pressure to protect the formation at the casing shoe is shown in Appendix 23.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the required pressure is not properly posted.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-404 **IN AREAS WHERE PERMAFROST AND/OR HYDRATE ZONES MAY BE PRESENT OR ARE KNOWN TO BE PRESENT, ARE DRILLING FLUID TEMPERATURES CONTROLLED?**

Authority: 30 CFR 250.456(k) **Enforcement Action: W**

INSPECTION PROCEDURE:

1. Verify that drilling fluid temperatures have been controlled by checking daily drilling fluid reports.
2. Inspect APD and drilling plan for consistency.
3. Inspect daily drilling reports.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if drilling fluid temperatures have not been controlled.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-405 **IS AN OPERABLE DRILLING FLUID-GAS SEPARATOR AND OPERABLE DEGASSER INSTALLED PRIOR TO COMMENCEMENT OF DRILLING OPERATIONS AND MAINTAINED THROUGHOUT THE DRILLING OF THE WELL?**

Authority: 30 CFR 250.456(g) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify the installation of an operable drilling fluid-gas separator and an operable degasser.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when an operable drilling fluid-gas separator and/or an operable degasser are not installed.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-406 **IS THE TEST FLUID IN THE HOLE CIRCULATED OR REVERSE-CIRCULATED PRIOR TO PULLING THE DRILL-STEM TEST TOOLS FROM THE HOLE AND WAS IT RECORDED IN THE DRILLER'S REPORT?**

Authority: 30 CFR 250.456(b) **Enforcement Action: W**
30 CFR 250.456(h)

INSPECTION PROCEDURE:

Verify that circulation was established prior to pulling drill stem test tools.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if:

1. Test fluid in hole was not circulated or reverse-circulated prior to pulling test tools.
2. Circulation was not recorded.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-407 **IS DRILLING FLUID TESTING EQUIPMENT MAINTAINED ON THE DRILLING RIG AT ALL TIMES?**

Authority: 30 CFR 250.456(i) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that the drilling fluid testing equipment to perform the following tests is located on-site:

1. Density.
2. Viscosity.
3. Gel strength.
4. Hydrogen-ion concentration (pH).
5. Filtration.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when drilling fluid testing equipment is not located on-site.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-408 **ARE DRILLING FLUID TESTS PERFORMED ONCE EACH TOUR, OR MORE FREQUENTLY, IF CONDITIONS WARRANT AND ARE THE RESULTS RECORDED IN THE DRILLER'S REPORT?**

Authority: 30 CFR 250.456(i) **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that drilling fluid tests were performed at least once each tour.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when tests are not performed.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-410 **IS A DRILLING FLUID-PIT LEVEL INDICATOR WITH AUDIBLE AND VISUAL WARNINGS INSTALLED AND USED?**

Authority: 30 CFR 250.457(a) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify the installation of a drilling fluid-pit level indicator.
2. Witness the operation of the system including audible and visual alarms by actuating the level sensors.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when a drilling fluid-pit level indicator system is not installed and operational.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-411 **IS A DRILLING FLUID-VOLUME MEASURING DEVICE USED TO DETERMINE THE DRILLING FLUID VOLUMES REQUIRED TO FILL THE HOLE ON TRIPS?**

Authority: 30 CFR 250.457(b) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify the installation of a drilling fluid-volume measuring device (i.e., trip tank or stroke counter).
2. Witness the operations of the drilling fluid-volume measuring device if trip operations are in progress during the inspection.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when a drilling fluid-volume measuring device (i.e., trip tank or stroke counter) is not installed and operational.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-412 **ARE DRILLING FLUID-RETURN INDICATOR DEVICES, WHICH INDICATE THE RELATIONSHIP BETWEEN DRILLING FLUID-RETURN FLOW RATE AND PUMP DISCHARGE RATE, INSTALLED WITH VISUAL AND AUDIBLE WARNING ALARMS?**

Authority: 30 CFR 250.457(c) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify the installation of the drilling fluid-return indicator.
2. Witness the operation of the indicator by actuation of the drilling fluid-return sensing device.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when a drilling fluid-return indicator is not installed and operational.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-413

IS OPERABLE GAS-DETECTING EQUIPMENT INSTALLED TO MONITOR DRILLING FLUID RETURNS, WITH THE REQUIRED TYPE OF INDICATORS LOCATED ON THE RIG FLOOR OR IN A CONTINUOUSLY MANNED DRILLING FLUID-LOGGING UNIT HAVING IMMEDIATE COMMUNICATION WITH THE RIG FLOOR?

Authority: 30 CFR 250.457(d) **Enforcement Action: S**

Note: A gas detector indicator, located on the rig floor only, must have an audible alarm.

INSPECTION PROCEDURE:

1. Verify the installation of a gas detection system.
2. Witness operation of the gas detection system by application of gas sample to the sensing head(s).

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC when an operable gas detection system is not installed as required.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-414

ARE MINIMUM QUANTITIES OF DRILLING FLUID AND DRILLING FLUID MATERIALS, INCLUDING WEIGHT MATERIALS, MAINTAINED AT THE DRILL SITE AS NECESSARY TO ENSURE WELL CONTROL AND, IF NOT, ARE DRILLING OPERATIONS SUSPENDED?

Authority: 30 CFR 250.418(b) **Enforcement Action: W/S**
30 CFR 250.458(a)
30 CFR 250.458(c)

INSPECTION PROCEDURE:

1. Compare APD approved quantities to records of actual quantities maintained to assure compliance.
2. Verify the quantity of drilling fluid material on-site.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate that drilling operations were conducted previously without at least the minimum quantities of drilling fluid materials maintained on-site.

Issue a rig shut-in (**S**) INC if records inspection or visual inspection indicates that minimum quantities of drilling fluid materials are not available on-site at the time of the inspection.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-415

ARE RECORDS OF DAILY INVENTORIES OF DRILLING FLUID AND DRILLING FLUID MATERIALS MAINTAINED AT THE WELL SITE?

Authority: 30 CFR 250.458(b) **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that inventories were recorded daily in the drilling fluid engineer's report.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if inventories are not recorded.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-416 **BEFORE DISPLACING KILL-WEIGHT DRILLING FLUID FROM THE WELLBORE AND/OR RISER, DID OPERATOR OBTAIN APPROVAL FROM THE DISTRICT MANAGER?**

Authority: 30 CFR 250.456(j) **Enforcement Action: S**
30 CFR 250.420(b)(3)

INSPECTION PROCEDURE:

Check records to verify that -

1. Approval from District Manager included the reasons for displacing kill weight drilling fluid and had a detailed step by step procedure for conducting the displacement.
2. Step by step displacement procedures address the following:
   a. number and type of independent barriers that are in place for each flow path,
   b. tests you will conduct to ensure integrity of independent barriers,
   c. BOP procedures you will use while displacing kill weight fluids, and
   d. procedures you will use to monitor volumes and rates of fluids entering and leaving the wellbore;

Note: Records must be made available during inspection.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) if operator did not receive approval from District Manager before displacing kill-weight drilling fluid from the wellbore.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea BOP system inspected.

DRILLING FLUID-HANDLING AREAS (CLASSIFIED AS WHERE DANGEROUS CONCENTRATIONS OF COMBUSTIBLE GAS MAY ACCUMULATE)

D-421 **IF NOT CONTINUOUSLY ACTIVATED, ARE MECHANICAL VENTILATION SYSTEMS ACTIVATED ON SIGNAL FROM GAS DETECTORS THAT ARE OPERATIONAL AT ALL TIMES INDICATING THE PRESENCE OF 1 PERCENT OR MORE OF GAS BY VOLUME?**

Authority: 30 CFR250. 459(a)(2) **Enforcement Action: S**

DEFINITION:

Classified area - Identified in Appendix 21.

Gas detectors - Must be capable of indicating the presence of 1 percent of gas by volume.

INSPECTION PROCEDURE:

1. Identify enclosed, classified drilling fluid-handling areas.
2. Verify that if a ventilation system is not continuously activated, that it has gas detectors that activate the system if gas is detected.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if non-continuously activated ventilation systems do not have gas detectors that activate the system.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-422 **ARE ALL CLASSIFIED DRILLING FLUID-HANDLING AREAS EQUIPPED WITH HIGH-CAPACITY MECHANICAL VENTILATION SYSTEMS UNLESS SUCH VENTILATION IS PROVIDED BY NATURAL MEANS?**

Authority: 30 CFR 250.459(a) **Enforcement Action: S**
30 CFR 250.459(a)(1)

DEFINITION:

Enclosed area - Any area confined on more than four of its six possible sides by walls, floors, or ceilings more restrictive to air flow than grating or fixed open louvers and of sufficient size to allow entry of personnel.

High capacity mechanical ventilation system - A system that is capable of replacing the air once every 5 minutes or 1.0 cubic feet of air-volume flow per minute per square foot of area, whichever is greater.

INSPECTION PROCEDURE:

1. Identify classified drilling fluid-handling areas.
2. Verify the presence of high capacity mechanical ventilation systems.
3. Verify the existence of adequate ventilation by adequate means.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the drilling fluid-handling area does not have adequate ventilation by natural means or the enclosed area is not equipped with a high-capacity ventilation system.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-423 **ARE ALL CLASSIFIED DRILLING FLUID-HANDLING AREAS MAINTAINED AT A NEGATIVE PRESSURE BY MECHANICAL VENTILATION?**

Authority: 30 CFR 250.459(a)(3) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Identify classified drilling fluid-handling areas.
2. Verify that negative pressure relative to adjacent areas is maintained.
3. Confirmation would be that the mechanical ventilation system is activated.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the drilling fluid-handling area is not maintained at a negative pressure relative to adjacent areas.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-424 **ARE ALL CLASSIFIED DRILLING FLUID-HANDLING AREAS WHICH ARE MAINTAINED AT A NEGATIVE PRESSURE PROTECTED WITH AT LEAST ONE OF THE FOLLOWING: (i) A PRESSURE-SENSITIVE ALARM, (ii) OPEN-DOOR ALARMS ON EACH ACCESS TO THE AREA, (iii) AUTOMATIC DOOR-CLOSING DEVICES, (iv) AIR LOCKS, OR (v) OTHER DEVICES APPROVED BY THE DISTRICT MANAGER?**

Authority: 30 CFR 250.459(a)(3) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Identify classified drilling fluid-handling areas.
2. Verify that the area is equipped with one of the following devices:
   A. A pressure sensitive device.
   B. Open-door alarms on each access to the area.
   C. Automatic door-closing devices.
   D. Air locks.
   E. Other devices as approved by the District Manager.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if at least one of these devices are not installed and operable.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-425 **ARE ALL CLASSIFIED DRILLING FLUID-HANDLING AREAS FITTED WITH GAS DETECTORS AND ALARMS EXCEPT IN OPEN AREAS WHERE ADEQUATE VENTILATION IS PROVIDED BY NATURAL MEANS?**

Authority: 30 CFR 250.459(b) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that gas detectors and alarms are installed and operable in classified drilling fluid-handling area, except in open areas where adequate ventilation is provided by natural means.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if gas detectors and alarms are not installed and operable.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-426 **ARE ALL CLASSIFIED DRILLING FLUID-HANDLING AREAS EQUIPPED WITH EITHER EXPLOSION-PROOF OR PRESSURIZED ELECTRICAL EQUIPMENT TO PREVENT THE IGNITION OF EXPLOSIVE GASES?**

Authority: 30 CFR 250.459(c) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify that the electrical equipment is encased and sealed (explosion-proof).
2. Verify specifications on pressurized electrical equipment.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC:

1. If obvious seal damage is detected or any seal hardware is missing.
2. If rig specifications indicate that electrical equipment is not pressurized.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-427 **IS THE AIR INTAKE LOCATED OUTSIDE OF, AND AS FAR AS PRACTICABLE FROM, HAZARDOUS AREAS WHERE AIR IS USED FOR PRESSURING EQUIPMENT?**

Authority: 30 CFR 250.459(c) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that the location of the air intake is outside of, and as far as practicable from, hazardous areas.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if air intake is located within or too close to a hazardous area.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-428 **ARE MECHANICAL VENTILATION SYSTEMS FITTED WITH ALARMS WHICH ARE ACTIVATED UPON A FAILURE OF THE SYSTEM?**

Authority: 30 CFR 250.459(d) **Enforcement Action: S**

INSPECTION PROCEDURE:

Physically shutdown the ventilation system to verify that the alarm is activated.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if an alarm is not activated when ventilation system fails or is shut down.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-429 **ARE GAS DETECTION SYSTEMS TESTED FOR OPERATION AND RECALIBRATED AT A FREQUENCY SUCH THAT NO MORE THAN 90 DAYS SHALL ELAPSE BETWEEN TESTS?**

Authority: 30 CFR 250.459(b) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

1. Witness the testing of the gas detection systems.
2. Verify that gas detection systems have been tested and calibrated at the required intervals.

IF NONCOMPLIANCE EXISTS:

1. Issue a warning (**W**) INC if:
   A. The gas detection system has not been tested and calibrated within the required interval but subsequent testing and calibrating has been performed
   B. Tests have not been recorded in driller's report.
2. Issue a rig shut-in (**S**) INC if gas detection system has not been tested and calibrated.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

SECURING OF WELLS

D-440 **IS A DOWNHOLE SAFETY DEVICE, SUCH AS A CEMENT PLUG, BRIDGE PLUG, OR PACKER, INSTALLED WHEN DRILLING OPERATIONS ARE INTERRUPTED?**

Authority: 30 CFR 250.402 **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that a downhole safety device was installed when drilling operations were interrupted.

Note:

1. A downhole safety device such as a cement plug, bridge plug, or packer must be timely installed when drilling operations are interrupted by events such as those which force evacuation of the drilling crew, prevent station keeping, or require repairs to major drilling or well-control equipment.
2. In floating drilling operations, the use of blind-shear rams or pipe rams and an inside BOP may be approved by the District Manager in lieu of the above requirements if supported by special circumstances and/or the lack of sufficient time.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate that a downhole safety device was not installed when drilling operations were interrupted.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

SUPERVISION, SURVEILLANCE, AND TRAINING

D-450 **FROM THE BEGINNING OF DRILLING OPERATIONS UNTIL THE WELL IS COMPLETED OR ABANDONED, IS THE WELL CONTINUOUSLY UNDER SURVEILLANCE UNLESS THE WELL IS SECURED WITH BOP'S, BRIDGE PLUGS, PACKERS, OR CEMENT PLUGS?**

Authority: 30 CFR 250.401(c) **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that the rig floor is not left unmanned during an inspection unless the wells are secured with a BOP, bridge plug, packers, or cement plugs.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC when rig floor is not manned and the wells are not secured as required.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

D-453 **DOES THE OPERATOR HAVE A PERSON ONSITE DURING DRILLING OPERATIONS THAT REPRESENT THEIR INTEREST AND CAN FULFILL THEIR RESPONSIBILITY?**

Authority: 30 CFR 250.401(b) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that the operator has a representative on site.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if no operator representative is on site.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

.

APPLICATIONS FOR PERMIT TO DRILL

D-460 **DOES THE LESSEE HAVE WRITTEN APPROVAL TO DRILL A WELL OR BEFORE HE SIDETRACKS, BYPASSES, OR DEEPENS A WELL?**

Authority: 30 CFR 250.410 **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that approval was received.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if drilling approval has not been received.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per well inspected.

D-461 **DOES THE LESSEE HAVE WRITTEN OR ORAL APPROVAL TO REVISE A DRILLING PLAN, MAKE CHANGES IN MAJOR DRILLING EQUIPMENT OR PLUG BACK A WELL?**

Authority: 30 CFR 250.465(a)(1) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that any changes from the approved plans have been received and approved by the District Manager.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) INC if the records indicate that approval has not been received for any changes from the approved plans.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per well inspected.

D-462 **IF A MODU IS PLANNED TO BE USED, IS THE MODU AVAILABLE FOR INSPECTION BY THE DISTRICT MANAGER BEFORE COMMENCING OPERATIONS?**

Authority: 30 CFR 250.417(f) **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that the District Manager was notified and that the MODU was available for inspection.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the MODU was not made available for inspection.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per drilling unit inspected

D-463 **IS THE DISTRICT MANAGER GIVEN AT LEAST 24 HOURS NOTICE BEFORE STARTING A WELL TEST?**

Authority: 30 CFR 250.460(b) **Enforcement Action: W**

Note: For a well test to be conducted, it must be included in the APD (form BSEE-0123) or in the APM (form BSEE-0124).

INSPECTION PROCEDURE:

Verify that the District Manager was notified as required.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if the District Manager was not notified as required.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per well test.

BOP SYSTEM MAINTENANCE/INSPECTION/CERTIFICATION

LAST UPDATE - 2012

D-500 **AFTER EACH WELL DRILLED, DID OPERATOR CLEAN, VISUALLY INSPECT, PERFORM PREVENTIVE MAINTENANCE, AND PRESSURE TEST ALL EQUIPMENT BEFORE INSTALLATION ON THE NEXT WELL IN ACCORDANCE WITH API RP 53 SECTIONS 17.10. AND 18.10?**

Authority: 30 CFR 250.446(a) **Enforcement Action: S**

INSPECTION PROCEDURE:

Check records to verify that operator cleaned, visually inspect, performed preventive maintenance, and pressure test the well control equipment before installation on the next well for subsea stacks, or before well operations on surface stacks.

Note: Well control equipment applies to both surface and subsea.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut in (**S**) INC if operator did not clean, visually inspect, performed preventive maintenance, and pressure test the well control equipment before installation on the next well.

. **INSPECTION COUNT/ INC COUNT**

Enter one item checked/ issue one INC per subsea BOP system inspected.

D-501 **ARE ALL BOP STACKS CHOKE MANIFOLDS, AND DIVERTER COMPONENTS DISASSEMBLED AND INSPECTED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S GUIDELINES AFTER EVERY 3-5 YEARS OF SERVICE IN ACCORDANCE WITH API RP 53 SECTION 17.10 AND 18.10?**

Authority: 30 CFR 250.446(a) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

Verify documentation that:

1. Elastomer components have been changed out
2. Surface finishes have been examined for wear and corrosion
3. Critical dimensions should be checked against the manufacturer's allowable wear limits.
4. A full internal and external inspection of the flexible choke and kill lines should be performed in accordance with the equipment manufacturer's guidelines.

Note: Records must be maintained on the rig for two years from the date the records are created or longer if directed by BSEE

IF NONCOMPLIANCE EXISTS:

Issue a warning **(W)** INC if the component (BOP, Choke Manifold, and Diverter) has been found to be in violation but is no longer in use.

Issue a rig shut-in **(S)** INC when operator has not disassembled and inspected all BOP stacks, choke manifolds, and diverter components in accordance with the equipment manufacturer's guidelines after every 3-5 years of service.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per inspection.

D- 502 **ARE MANUFACTURER'S INSTALLATION, OPERATION, AND MAINTENANCE (IOM) MANUALS AVAILABLE ON THE RIG FOR ALL THE BOP EQUIPMENT INSTALLED ON THE RIG IN ACCORDANCE WITH API RP 53 17.11 AND 18.11?**

Authority: 30 CFR 250.446(a) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that Manufacturer's installation, operation, and maintenance (IOM) manuals available on the rig for all the BOP equipment installed on the rig

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (S) INC if the manufacturer's installation, operation, and maintenance (IOM) manuals are not available on the rig for all the BOP equipment installed on the rig

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per inspection.

D-503 **IS A PLANNED MAINTENANCE SYSTEM, WITH EQUIPMENT IDENTIFIED, TASKS SPECIFIED, AND THE TIME INTERVALS BETWEEN TASKS STATED, EMPLOYED ON EACH RIG AND ARE THEY MAINTAINED ON FILE AT THE RIG SITE OR READILY AVAILABLE FOR THE APPLICABLE BOP EQUIPMENT IN ACCORDANCE WITH API RP 53, 17.12 AND 18.12?**

Authority: 30 CFR 250.446(a) **Enforcement Action: S**

INSPECTION PROCEDURE:

Verify that a planned maintenance system, with equipment identified, tasks specified, and the time intervals between tasks stated, employed on each rig and are they maintained on file at the rig site or readily available for the applicable BOP equipment

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (S) INC if they are not following the planned maintenance system.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per inspection.

D- 504 **DOES OPERATOR MAINTAIN COPIES OF EQUIPMENT MANUFACTURERS' PRODUCT ALERTS OR EQUIPMENT BULLETINS AT THE RIG SITE IN ACCORDANCE WITH API RP 53 SECTIONS 17.12 AND 18.12?**

Authority: 30 CFR 250.446(a) **Enforcement Action: S**

INSPECTION PROCEDURE

Verify that operator has copies of equipment manufacturers' product alerts or equipment bulletins at the rig site and readily made available to BSEE upon request.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (S) INC if operator does not have copies of equipment manufacturers' product alerts or equipment bulletins at the rig site and are not made available to BSEE upon request.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per inspection.

D-600 **DID THE OPERATOR CLEARLY LABEL ALL CONTROL PANELS FOR THE SUBSEA BOP SYSTEM?**

Authority: 30 CFR250.442(h) **Enforcement Action: W**

INSPECTION PROCEDURE:

Verify that operator clearly label all control panels for the subsea BOP system.

Note: Verify that the lights on the control panel are working properly to identify potential problems.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if operator did not clearly label all control panels for the subsea BOP system.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea BOP system inspected.

D-601 **DID THE OPERATOR DEVELOP AND USE A MANAGEMENT SYSTEM FOR OPERATING THE SUBSEA BOP SYSTEM, WHICH INCLUDES PROCEDURES FOR PREVENTION OF ACCIDENTAL OR UNPLANNED DISCONNECTS OF SYSTEM?**

Authority: 30 CFR250.442(i) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify that management has written procedures for operating BOP stack and LMRP (including techniques to prevent accidental disconnections of these components).
2. Check all remote BOP control stations for By-Pass to inshore all BOP functions work as designed.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) if

1. Operator does not have written procedures for operating BOP stack and LMRP (including techniques to prevent accidental disconnections of these components).

2. If any BOP control stations functions are in by-pass.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea BOP system inspected.

D-602 **IF OPERATOR ACTIVITATED BLIND SHEAR RAM OR CASING SHEAR RAM DURING A WELL CONTROL SITUATION IN WHICH PIPE OR CASING WAS SHEARED, DID THE OPERATOR RETRIVE, PHYSICAL INSPECT AND CONDUCT A FULL PRESSURE TEST OF THE BOP STACK AFTER THE SITUATION WAS CONTROLLED?**

Authority: 30 CFR 250.451(i) **Enforcement Action: S**

INSPECTION PROCEDURE:

Check records to verify that the operator retrieved, physically inspected and conducted a full pressure test on the BOP stack.

Note: Records must be made available inspection.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) if operator activated blind shear ram or casing shear ram during a well control situation in which pipe or casing was sheared and did not retrieved, physically inspected and conducted a full pressure test on the BOP stack.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea BOP system inspected.

D-603 **ARE THERE A MINIMUM OF TWO BARRIERS IN PLACE PRIOR TO BOP REMOVAL?**

Authority: 30 CFR 250.451(j) **Enforcement Action: W/S**

INSPECTION PROCEDURE:

Check permits to verify the quantity of barriers approved by District Manager to be installed before BOP removal.

NOTE: The District manager may require additional barriers

IF NONCOMPLIANCE EXISTS:

Issue a warning (W) INC if approved number of barriers were not installed initially while BOP stack was removed, but BOP stack have been since reinstalled or approved number of barriers have been set in place.

Issue a rig shut-in (S) INC if approved numbers of barriers are not installed.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC per inspection.

D-604 **ARE SUBSEQUENT ACTUATION TESTS OF THE DIVERTER SEALING ELEMENT, DIVERTER VALVES, AND DIVERTER-CONTROL SYSTEMS, INCLUDING THE REMOTE-CONTROL SYSTEM, CONDUCTED AT LEAST ONCE EVERY 7 DAYS AFTER THE PREVIOUS ACTUCATION ALTERNATING BETWEEN CONTROL STATIONS FOR SUBSEA DIVERTER SYSTEMS?**

Authority: 30 CFR 250.433(b) **Enforcement Action: W/S**
30 CFR 250.433(c)

INSPECTION PROCEDURE:

Verify that actuation tests are conducted.

IF NONCOMPLIANCE EXISTS:

Issue a warning (**W**) INC if records indicate that surface diverter system equipment has not been actuation tested at least once during every 7 days after the previous actuation.

Issue a rig shut-in (S) INC if diverter has not been functioned within 7 days from the previous actuation at the time of the inspection.

INSPECTION COUNT/ INC COUNT:

Enter one item checked/ issue one INC for each inspection

STUMP TEST

LAST UPDATE - 2012

D-610 **DID OPERATOR TEST ALL ROV INTERVENTION FUNCTIONS ON THE SUBSEA BOP STACK DURING THE STUMP TEST AND ARE TEST RESULTS MADE AVAILABLE TO BSEE UPON REQUEST?**

Authority: 30 CFR 250.449(j) **Enforcement Action: S**

INSPECTION PROCEDURE:

Check records to verify that

1. Operator conducted ROV intervention function test during the stump test.
2. ROV hot stab was capable of actuating at a minimum one set of pipe rams, one set of blind shear rams, and unlatching the LMRP.
3. Check records to verify that operator tested the subsea BOP stack in accordance with the test procedures in the approved APD or APM.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) if operators did not conduct a stump test in accordance with the approved APD or APM.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea BOP system inspected.

D-611 **DID OPERATOR CONDUCT A FUNCTION TEST ON THE AUTOSHEAR AND DEADMAN SYSTEMS ON THEIR SUBSEA BOP STACKS DURING THE STUMP TEST AND ARE TEST RESULTS MADE AVAILABLE TO BSEE UPON REQUEST?**

Authority: 30 CFR 250.449(k) **Enforcement Action: S**
30 CFR 250.449(k)(2)

INSPECTION PROCEDURE:

1. Verify that the function test on autoshear and deadman systems were in accordance with the approved APD or APM.
2. Records must be made available during inspection.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) if operator did not conduct a function test on autoshear and deadman systems in accordance with the approved APD or APM.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea BOP system inspected.

INITIAL INSTALLATION TEST

LAST UPDATE - 2012

D-612 **DID OPERATOR TEST AT LEAST ONE SET OF RAMS WITH THE ROV ON THE SUBSEA BOP STACK UPON ITS INITIAL INSTALLATION ON THE SEAFLOOR AND ARE TEST RESULTS MADE AVAILABLE TO BSEE UPON REQUEST?**

Authority: 30 CFR 250.449(j) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Check records to verify that operator:
   a. Test and verify the closure of at least one set of rams on the subsea BOP stack upon its installation on the seafloor in accordance with the test procedures and approved APD or APM.
   b. Submitted test procedures with their APD or APM for District Manager approval.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) if operator did not conduct a test on at least one set of rams on the subsea BOP stack upon its initial installation on the sea floor.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea BOP system inspected.

D-613 **DID OPERATOR CONDUCT A TEST OF THE DEADMAN SYSTEM ON THE SUBSEA BOP STACK DURING THE INITIAL TEST ON THE SEAFLOOR AND ARE TEST RESULTS MADE AVAILABLE TO BSEE UPON REQUEST?**

Authority: 30 CFR 250.449(k) **Enforcement Action: S**

INSPECTION PROCEDURE:

1. Verify the closure of at least one set of blind-shear rams and that the test was conducted on deadman system was in accordance with the approved APD or APM.
2. Records must be made available during inspection.

IF NONCOMPLIANCE EXISTS:

Issue a rig shut-in (**S**) if operator did not conduct a test on deadman system in accordance with the approved APD or APM.

INSPECTION COUNT/ INC COUNT

Enter one item checked/ issue one INC per subsea BOP system inspected.