

**WELL-WORKOVERS**  
LAST UPDATE MAY, 2008  
**WELL-WORKOVER OPERATIONS**

W-100

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

**Authority: 602**

**Enforcement Action: W/C**

**INSPECTION PROCEDURE:**

1. Check the facility/operator's records to verify that the wells capable of producing hydrocarbons were shut-in below the surface with a pump-through type tubing plug or SCSSV and at the surface with a closed master valve prior to moving well-workover equipment:

**Note:** A closed surface-controlled subsurface safety valve of the pump-through type may be used in lieu of the pump-through type tubing plug, provided that the surface control has been locked out of operation.

2. If the inspection is conducted while well-workover equipment is being moved, inspect each well capable of producing hydrocarbons to verify that it is shut-in as described above.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if records indicate that wells capable of producing hydrocarbons in the same wellbay have not been shut-in below the surface and at the surface.

Issue a component shut-in (C) INC for the moving operation if moving operations are in progress and wells capable of producing hydrocarbons in the same wellbay have not been shut-in below the surface and at the surface.

**INSPECTION COUNT/ INC COUNT:**

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

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W-101

**IS THE WELL TO OR FROM WHICH A WELL-WORKOVER RIG OR RELATED EQUIPMENT TO BE MOVED EQUIPPED WITH A PUMP THROUGH TYPE TUBING PLUG AND A BACK-PRESSURE VALVE PRIOR TO REMOVING THE TREE AND THE BOP SYSTEM?**

**Authority: 602**

**Enforcement Action: W/C**

**INSPECTION PROCEDURE:**

1. Check the operator's records to verify that the well to which the well-workover equipment was moved was equipped with a pump through type tubing plug and a back-pressure valve prior to removing the tree and installing the BOP.

2. If moving operations are in progress during the inspection, verify that the pump through type tubing plug and a back-pressure valve are in place.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if records indicate that a pump through type tubing plug and back-pressure valve was not installed in the well prior to moving the workover equipment.

Issue a component shut-in (C) INC for the moving operation if moving operations are in progress and a pump through type tubing plug and back-pressure valve is not installed in the well prior to moving the workover equipment.

**INSPECTION COUNT/ INC COUNT:**

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

W-102

**HAVE THE CREW MEMBERS BEEN INSTRUCTED IN THE SAFETY REQUIREMENTS OF THE OPERATIONS TO BE PERFORMED, POSSIBLE HAZARDS TO BE ENCOUNTERED, AND GENERAL SAFETY CONSIDERATIONS TO PROTECT PERSONNEL, EQUIPMENT, AND THE ENVIRONMENT PRIOR TO ENGAGING IN WELL-WORKOVER OPERATIONS; AND HAVE THE DATE AND TIME OF THE SAFETY MEETINGS BEEN RECORDED?**

**Authority: 606**

**Enforcement Action: W**

**INSPECTION PROCEDURE:**

Verify that all crew members have received instruction at safety meetings in the following prior to commencing well-workover operations and that the date and time of the meetings have been recorded:

1. Safety requirements of the operation to be performed.
2. Possible hazards to be encountered.
3. General safety considerations to protect:
  - A. Personnel
  - B. Equipment
  - C. Environment

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if:

1. The safety meeting was not held prior to commencing well-workover operations.
2. The time and date of the safety meetings were not recorded.

**INSPECTION COUNT/ INC COUNT:**

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

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W-104

**HAVE ALL UNITS BEING USED FOR WELL-WORKOVER OPERATIONS WHICH HAVE BOTH A TRAVELING BLOCK AND A CROWN BLOCK BEEN EQUIPPED WITH A SAFETY DEVICE WHICH IS DESIGNED TO PREVENT THE TRAVELING BLOCK FROM STRIKING THE CROWN BLOCK?**

**Authority: 611**

**Enforcement Action: C**

**DEFINITION:**

**Traveling block safety device** - Normally, a device (toggle) installed above the cable drum, which, when struck, disengages the drum clutch and sets the brake (also known as a "Crown-o-matic").

**INSPECTION PROCEDURE:**

1. Visually inspect the workover unit to verify the presence of a traveling block safety device.
2. Visually inspect the position of the toggle above the cable drum to verify the distance for cable shut-down.
3. If workover operations are in progress, verify that the device is in service, and witness the proper operation of the device.

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

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover unit if:

1. The traveling block safety device is not installed.
2. The toggle is not installed above the cable drum a sufficient distance for cable shut-down.
3. The device does not operate properly.

**INSPECTION COUNT/ INC COUNT:**

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

W-105

**HAS THE TRAVELING-BLOCK SAFETY DEVICE BEEN CHECKED FOR PROPER OPERATION WEEKLY AND AFTER EACH DRILL-LINE SLIPPING OPERATION, AND HAVE THE RESULTS OF THE OPERATIONAL CHECK BEEN RECORDED IN THE OPERATIONS LOG?**

**Authority: 611**

**Enforcement Action: W**

**INSPECTION PROCEDURE:**

1. Verify that the traveling-block safety device has been checked for proper operation:
  - A. Weekly. and
  - B. After each drill-line slipping operation.
2. Verify that the toggle has been reset after each drill line slipping operation.
3. Verify that the results of the operational checks have been recorded in the operations log.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if:

1. The safety device has not been checked for proper operation as required.
2. If the results were not recorded in the operations log.

**INSPECTION COUNT/ INC COUNT:**

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

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W-107

**HAS THE LESSEE RECEIVED WRITTEN APPROVAL FROM THE DISTRICT MANAGER PRIOR TO CONDUCTING WELL-WORKOVER OPERATIONS?**

**Authority 613(a)**

**Enforcement Action: C**

**INSPECTION PROCEDURE:**

Request proof of written approval from the operator, as follows:

1. Form MMS 123, Application for Permit to Drill, Deepen, or Plug Back signed by the District Manager, or
2. Form MMS 124, Sundry Notices and Reports on Wells, signed by the District Manager.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the operator does not have written approval for the operation.

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**INSPECTION COUNT/ INC COUNT:**

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

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W-108

**IS THE WELL BEING CONTINUOUSLY MONITORED DURING WELL-WORKOVER OPERATIONS AND NOT LEFT UNATTENDED AT ANY TIME UNLESS THE WELL IS SHUT-IN AND SECURED?**

**Authority: 614(a)**

**Enforcement Action: W**

**DEFINITION:**

**Continuously monitored** - From the time operations are initiated until operations are completed, a member of the crew shall maintain rig-floor surveillance continuously unless the well is secured with BOP's, bridge plugs, storm packers, cement plugs, or SSSV's.

**INSPECTION PROCEDURE:**

Verify that the rig floor is continuously monitored during an inspection.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if the rig floor is not continuously monitored and the well is not secured as required.

**INSPECTION COUNT/ INC COUNT:**

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

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W-113

**HAS A RECORDING MUD-PIT LEVEL INDICATOR WITH BOTH A VISUAL AND AN AUDIBLE WARNING DEVICE BEEN INSTALLED, MAINTAINED, AND UTILIZED?**

**Authority:** 614(c)(3)

**Enforcement Action:** C

**Note:** This PINC applies to well-workover operations with the tree removed.

**INSPECTION PROCEDURE:**

1. Verify the installation of a recording mud-pit level indicator.
2. Witness the operation of the system, including visual and audible alarms, by actuating the mud-pit level sensors in accordance with Appendix 25.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig when a mud-pit level indicator system is not installed and operable.

**INSPECTION COUNT/ INC COUNT:**

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

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**BOP WELL-WORKOVER OPERATIONS**

W-114

**DOES THE BOP SYSTEM FOR WELL-WORKOVER OPERATIONS WITH THE TREE REMOVED INCLUDE, AS A MINIMUM, THREE PREVENTERS WHEN THE EXPECTED SURFACE PRESSURE IS LESS THAN 5,000 PSI?**

**Authority:** 615(b)(1)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

1. For workover operations with the tree removed, where the anticipated surface pressure is less than 5,000 psi, visually inspect the BOP system to verify the installation of the following as a minimum:
  - A. One annular preventer.
  - B. One set of pipe rams.
  - C. One set of blind-shear rams.
2. For subsea BOP stacks, visually check the control station for the above configuration, or if available, check via the television camera.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system is not as required.

**INSPECTION COUNT/ INC COUNT:**

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

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W-115

**DOES THE BOP SYSTEM FOR WELL-WORKOVER OPERATIONS WITH THE TREE REMOVED INCLUDE, AS A MINIMUM, FOUR PREVENTERS WHEN THE EXPECTED SURFACE PRESSURE IS 5,000 PSI OR GREATER?**

**Authority:** 615(b)(2)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

1. For workover operations with the tree removed, where the anticipated surface pressure is equal to or greater than 5000 psi, visually inspect the BOP system to verify the installation of the following as a minimum:
  - A. One annular preventer.
  - B. Two sets of pipe rams.
  - C. One set of blind-shear rams.
2. For subsea BOP stacks, visually check the control station for the above configuration or, if available, check via the television camera.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system is not as required.

**INSPECTION COUNT/ INC COUNT:**

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

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W-116

**DOES THE BOP SYSTEM FOR WELL-WORKOVER OPERATIONS WITH THE TREE REMOVED INCLUDE, AS A MINIMUM, DUAL PIPE RAMS INSTALLED ON ONE OF THE PIPE-RAM PREVENTERS WHEN DUAL TUBING STRINGS ARE BEING HANDLED SIMULTANEOUSLY?**

**Authority:** 615(b)(3)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

For workover operations with the tree removed, when dual tubing strings are being handled simultaneously, visually inspect the BOP system to verify that dual pipe rams are installed in one of the pipe ram preventers.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if dual pipe rams are not installed in one of the pipe ram preventers when dual tubing strings are being handled simultaneously.

**INSPECTION COUNT/ INC COUNT:**

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

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W-117

**WHEN A TAPERED DRILL STRING IS USED, DOES THE BOP SYSTEM INCLUDE, AS A MINIMUM, FOUR PREVENTERS WHEN THE EXPECTED SURFACE PRESSURE IS LESS THAN 5,000 PSI?**

**Authority:** 615(b)(4)

**Enforcement Action:** C

**Note:** This PINC applies to well-workover operations with the tree removed.

**INSPECTION PROCEDURE:**

For workover operations using tapered drill string where the anticipated surface pressure is less than 5,000 psi, visually inspect the BOP system to verify the installation of at least four preventers as follows:

1. One annular preventer.
2. Two sets of pipe rams, one set capable of sealing around the larger size drill string and one set capable of sealing around the smaller size drill string.

**Note:** One set of variable bore rams may be substituted for the two sets of pipe rams.

3. One set of blind-shear rams

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system is not configured as described above.

**INSPECTION COUNT/ INC COUNT:**

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

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W-118

**WHEN A TAPERED DRILL STRING IS USED, DOES THE BOP SYSTEM INCLUDE, AS A MINIMUM, FIVE PREVENTERS WHEN THE EXPECTED SURFACE PRESSURE IS 5,000 PSI OR GREATER?**

**Authority:** 615(b)(4)

**Enforcement Action:** C

**Note:** This PINC applies to well-workover operations with the tree removed.

**INSPECTION PROCEDURE:**

For workover operations using tapered drill string where the anticipated surface pressure is equal to or greater than 5,000 psi, visually inspect the BOP system to verify the installation of at least five preventers as follows:

1. One annular preventer.
2. Two sets of pipe rams capable of sealing around the larger size drill string.
3. One set of pipe rams capable of sealing around the smaller size drill string.
4. One set of blind-shear rams.

**Note:** One set of variable bore pipe rams may be substituted for one set of pipe rams for the larger size drill string and one set of pipe rams for the smaller size drill string.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system is not configured as described above.

**INSPECTION COUNT/ INC COUNT:**

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

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W-119

**DOES THE ACCUMULATOR SYSTEM PROVIDE SUFFICIENT CAPACITY TO SUPPLY 1.5 TIMES THE VOLUME OF FLUID NECESSARY TO CLOSE AND HOLD CLOSED ALL BOP EQUIPMENT UNITS WITH MINIMUM PRESSURE OF 200 PSI ABOVE THE PRE-CHARGE PRESSURE, WITHOUT ASSISTANCE FROM A CHARGING SYSTEM?**

**Authority:** 615(c)(1)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

1. Verify that the BOP actuating system which is installed is in compliance with that which has been approved.
2. Verify that the complete system is free of leaks and that all components are in service (not bypassed).
3. Witness automatic operation of the charging system.

**Note:** Refer to Appendix 23 for typical surface stack accumulator size calculations.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the hydraulic BOP actuating system does not provide sufficient capacity to supply 1.5 times the volume necessary to close all BOP components with a minimum pressure of 200 psi above the pre-charge pressure without assistance from a charging system.

**INSPECTION COUNT/ INC COUNT:**

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

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W-120

**DOES THE BOP SYSTEM FOR WELL-WORKOVER WITH THE TREE REMOVED CONTAIN A SECONDARY POWER SOURCE, INDEPENDENT FROM THE PRIMARY POWER SOURCE, WITH SUFFICIENT CAPACITY TO CLOSE ALL BOP SYSTEM COMPONENTS AND HOLD THEM CLOSED?**

**Authority:** 615(c)(2)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

1. Verify that the backup power source is independent from the primary power source.
2. Witness operation of the accumulator backup system and verify that the backup system automatically charges the accumulators sufficiently to close and hold closed all BOP system components.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if:

1. The backup power system is not independent from the primary power source.
2. The accumulator backup does not automatically charge the accumulator system sufficiently to close and hold closed all system components.

**INSPECTION COUNT/ INC COUNT:**

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

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W-121

**DOES THE BOP SYSTEM FOR WELL-WORKOVER WITH THE TREE REMOVED CONTAIN LOCKING DEVICES FOR THE PIPE-RAM PREVENTERS?**

**Authority:** 615(c)(3)

**Enforcement Action:** C

**DEFINITION:**

**Locking devices** - Surface BOP systems shall have dogs provided on the ram-type preventers. Subsurface BOP systems shall have ram lock-out indicator lights or other indication method as approved.

**INSPECTION PROCEDURE:**

1. Visually inspect surface BOP systems and subsea BOP panels to verify that locking devices have been provided on ram-type preventers.
2. If conditions permit, witness operation of locking devices.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if operable locking devices are not provided.

**INSPECTION COUNT/ INC COUNT:**

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

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W-122

**DOES THE BOP SYSTEM FOR WELL-WORKOVER WITH THE TREE REMOVED CONTAIN AT LEAST ONE REMOTE BOP CONTROL STATION AND ONE BOP CONTROL STATION ON THE RIG FLOOR?**

**Authority:** 615(c)(4)

**Enforcement Action:** C

**DEFINITION:**

**Remote BOP control station** - A control panel located such that the operation of each preventer and control valve can be controlled from a readily accessible point at a safe distance from the rig floor.

**INSPECTION PROCEDURE:**

1. Verify that a readily accessible remote BOP control station exists at the rig site.
2. Verify that a BOP control station exists on the rig floor.
3. Witness the operation of both control stations, or inspect the control panel gauge for presence of operating control pressure.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if:

1. An operable remote BOP control station is not installed.
2. An operable BOP control station is not installed on the rig floor.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC each station inspected.

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W-123

**DOES THE BOP SYSTEM FOR WELL-WORKOVER WITH THE TREE REMOVED CONTAIN A CHOKE LINE AND A KILL LINE EACH EQUIPPED WITH TWO FULL OPENING VALVES AND A CHOKE MANIFOLD?**

**Authority:** 615(c)(5)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

1. Visually verify that each choke and kill line is equipped with two full-opening valves and a choke manifold.
2. Conditions permitting, witness the operation of the valves.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if:

1. The choke and kill lines are not equipped with two operable full opening valves.
2. There is no manifold.

**INSPECTION COUNT/ INC COUNT:**

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

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W-124

**DOES THE BOP SYSTEM FOR WELL-WORKOVER WITH THE TREE REMOVED CONTAIN AT LEAST ONE REMOTELY-CONTROLLED VALVE EACH ON THE CHOKE LINE AND ON THE KILL LINE?**

**Authority:** 615(c)(5)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

Visually inspect the choke and kill lines to determine if they are each equipped with at least one remotely-controlled valve.

**Note:** 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 component shut-in (C) INC for the workover rig if:

1. The choke line is not equipped with at least one remotely-controlled valve.
2. The kill line is not equipped with at least one remotely-controlled valve.

**INSPECTION COUNT/ INC COUNT:**

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

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W-126

**IS THE PRESSURE RATING OF THE CHOKE AND KILL LINES AND ASSOCIATED EQUIPMENT AT LEAST EQUIVALENT TO THE PRESSURE RATING OF THE RAM PREVENTERS?**

**Authority:** 615(c)(5)

**Enforcement Action:** C

**Note:** This PINC applies to well-workover operations with the tree removed.

**INSPECTION PROCEDURE:**

Visually verify that all equipment has a rated working pressure at least equal to the rated working pressure of the ram preventers by examining the rating tags.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if any equipment does not have a rated working pressure at least equal to the rated working pressure of the ram type preventers.

**INSPECTION COUNT/ INC COUNT:**

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

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W-127

**DO THE MINIMUM BOP-SYSTEM COMPONENTS WITH THE TREE IN PLACE AND PERFORMED THROUGH THE WELLHEAD INSIDE CONVENTIONAL TUBING USING SMALL-DIAMETER JOINTED PIPE AS A WORK STRING INCLUDE TWO SETS OF PIPE RAMS AND ONE SET OF BLIND RAMS?**

**Authority:** 615(d)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

If a small diameter jointed pipe is being used as a work string inside conventional tubing with the tree in place, verify that the BOP system contains, as a minimum:

1. Two sets of pipe rams.
2. One set of blind rams.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system is not as required.

**INSPECTION COUNT/ INC COUNT:**

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

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W-128

**DO THE MINIMUM BOP-SYSTEM COMPONENTS FOR WELL-WORKOVER OPERATIONS WITH THE TREE IN PLACE AND PERFORMED BY COILED-TUBING OPERATIONS INCLUDE ONE SET OF HYDRAULICALLY OPERATED PIPE RAMS INSTALLED IN THE PROPER SEQUENCE?**

**Authority:** 615(e)(1)

**Enforcement Action:** C

615(e)(3)

**INSPECTION PROCEDURE:**

If coiled tubing operations are in progress, with the tree in place, verify that the BOP system includes, as a minimum, one set of pipe rams hydraulically operated.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system does not contain at least one set of pipe rams which are hydraulically operated.

**INSPECTION COUNT/ INC COUNT:**

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

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W-129

**DO THE MINIMUM BOP SYSTEM COMPONENTS FOR WELL-WORKOVER OPERATIONS WITH THE TREE IN PLACE AND PERFORMED BY COILED TUBING OPERATIONS INCLUDE ONE TWO-WAY HYDRAULICALLY OPERATED SLIP ASSEMBLY INSTALLED IN THE PROPER SEQUENCE?**

**Authority:** 615(e)(1)

**Enforcement Action:** C

615(e)(3)

**INSPECTION PROCEDURE:**

If coiled tubing operations are in progress with the tree in place, visually inspect to verify that the BOP system includes, as a minimum, one two-way slip assembly that is hydraulically operated.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system does not contain at least one two-way slip assembly that is hydraulically operated.

**INSPECTION COUNT/ INC COUNT:**

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

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W-130

**DO THE MINIMUM BOP SYSTEM COMPONENTS FOR WELL-WORKOVER OPERATIONS WITH THE TREE IN PLACE AND PERFORMED BY COILED TUBING OPERATIONS INCLUDE ONE HYDRAULICALLY OPERATED PIPE-CUTTER ASSEMBLY INSTALLED IN THE PROPER SEQUENCE?**

**Authority:** 615(e)(1)  
615(e)(2)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

If coiled tubing operations are in progress with the tree in place, visually inspect to verify that the BOP system includes, as a minimum, one pipe cutter that is hydraulically operated.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system does not contain at least one pipe cutter that is hydraulically operated.

**INSPECTION COUNT/ INC COUNT:**

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

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W-131

**DO THE MINIMUM BOP SYSTEM COMPONENTS FOR WELL-WORKOVER OPERATIONS WITH THE TREE IN PLACE AND PERFORMED BY COILED TUBING OPERATIONS INCLUDE ONE SET OF HYDRAULICALLY OPERATED BLIND RAMS INSTALLED IN THE PROPER SEQUENCE?**

**Authority:** 615(e)(1)  
615(e)(2)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

If coiled tubing operations are in progress with the tree in place, visually inspect to verify that the BOP system includes, as a minimum, one set of blind rams that are hydraulically operated.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system does not contain at least one set of blind rams that are hydraulically operated.

**INSPECTION COUNT/ INC COUNT:**

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

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W-132

**DO THE MINIMUM BOP SYSTEM COMPONENTS FOR WELL-WORKOVER OPERATIONS WITH THE TREE IN PLACE AND PERFORMED BY COILED TUBING OPERATIONS INCLUDE ONE PIPE-STRIPPER ASSEMBLY INSTALLED IN THE PROPER SEQUENCE?**

**Authority:** 615(e)(1)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

If coiled tubing operations are in progress with the tree in place, visually inspect to verify that the BOP system includes, as a minimum, one pipe-stripper assembly.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system does not contain at least one pipe-stripper assembly.

**INSPECTION COUNT/ INC COUNT:**

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

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W-133

**DOES THE MINIMUM BOP SYSTEM COMPONENTS FOR WELL-WORKOVER OPERATIONS WITH THE TREE IN PLACE AND PERFORMED BY COILED TUBING OPERATIONS INCLUDE, A DUAL CHECK VALVE ASSEMBLY, CHOKE AND KILL VALVES WITH EQUAL OR GREATER WORKING PRESSURE THEN THE CONNECTION TO WHICH THEY ARE ATTACHED AND ARE ALL CONNECTIONS FLANGED?**

**Authority:** 615(e)(4)(5)(7)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

If coiled tubing operations are in progress with the tree in place, visually inspect to verify that the BOP system includes, as a minimum, a dual check valve assembly, choke and kill lines with equal or greater working pressure then the connection to which they are attached and are all connections flanged?

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system does not meet the above requirements.

**INSPECTION COUNT/ INC COUNT:**

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

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W-134

**DO THE MINIMUM BOP SYSTEM COMPONENTS FOR WELL-WORKOVER OPERATIONS WITH THE TREE IN PLACE AND PERFORMED BY SNUBBING OPERATIONS INCLUDE ONE SET OF PIPE RAMS HYDRAULICALLY OPERATED?**

**Authority:** 615(f)(1)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

If snubbing operations are in progress with the tree in place, visually inspect to verify that the BOP system includes, as a minimum, one set of pipe rams that are hydraulically operated.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system does not contain at least one set of pipe rams that are hydraulically operated.

**INSPECTION COUNT/ INC COUNT:**

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

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W-135

**DO THE MINIMUM BOP SYSTEM COMPONENTS FOR WELL-WORKOVER OPERATIONS WITH THE TREE IN PLACE AND PERFORMED BY SNUBBING OPERATIONS INCLUDE TWO SETS OF STRIPPER-TYPE PIPE RAMS HYDRAULICALLY OPERATED WITH SPACER SPOOL?**

**Authority:** 615(f)(2)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

If snubbing operations are in progress with the tree in place, visually inspect to verify that the BOP system includes, as a minimum, two sets of stripper-type pipe rams that are hydraulically operated and a spacer spool.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the BOP system does not contain:

1. At least two sets of stripper-type pipe rams that are hydraulically operated.
2. A spacer spool.

**INSPECTION COUNT/ INC COUNT:**

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

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W-136

**IS AN INSIDE BOP OR SPRING-LOADED BACK-PRESSURE SAFETY VALVE, AND AN ESSENTIALLY FULL-OPENING WORK-STRING SAFETY VALVE, IN THE OPEN POSITION, BEING MAINTAINED ON THE RIG FLOOR AT ALL TIMES DURING WELL-WORKOVER OPERATIONS WHEN THE TREE IS REMOVED OR DURING WELL-WORKOVER OPERATIONS WITH THE TREE INSTALLED AND USING SMALL TUBING AS THE WORK STRING?**

**Authority:** 615(g)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

1. Verify that the inside BOP and drill-string safety valves fitting all sizes of pipe in the drill-string are available on the rig floor and are operable.
2. Verify that the inside BOP and drill-string safety valves have a rated working pressure equal to or greater than the rated working pressure of the BOP stack in use.
3. Visually confirm that the inside BOP and drill-string safety valves are in the open position.

**Note:** The full-opening work-string safety valve is not required for coiled tubing or snubbing operations.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if:

1. The required inside BOP and drill-string safety valve are not available on the rig floor, or
2. The valves are not maintained in the open position, or
3. The valves do not have a rated working pressure equal to or greater than the rated working pressure of the BOP stack in use.

**INSPECTION COUNT/ INC COUNT:**

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

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W-137

**IS A WRENCH FITTING THE WORK-STRING SAFETY VALVES READILY AVAILABLE?**

**Authority:** 615(g)

**Enforcement Action:** C

**INSPECTION PROCEDURE:**

Verify that wrenches to fit each valve in use are available in the rig floor area.

**Note:** This requirement pertains to well-workover operations with the tree removed or during operations with the tree installed and using small tubing as the work string. The wrench is not required for coiled tubing or snubbing operations.

**IF NONCOMPLIANCE EXISTS:**

Issue a component shut-in (C) INC for the workover rig if the wrenches are not readily available.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per each valve inspected



-142

**HAVE SURFACE BOP SYSTEMS BEEN PRESSURE TESTED WITH WATER?**

**Authority: 616(a)**

**Enforcement Action: W/C**

**INSPECTION PROCEDURE:**

1. Inspect operator's log to verify that pressure tests on surface BOP systems were conducted with water.
2. Witness the test if it is conducted during the inspection.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if records indicate that the surface BOP system was not pressure tested with water in the past, but a subsequent test was conducted with water.

Issue a component shut-in (C) INC for the workover rig if the surface BOP system has not been tested with water.

**INSPECTION COUNT/ INC COUNT:**

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

---

W-143

**HAS THE ANNULAR-TYPE BOP BEEN SUCCESSFULLY TESTED AT 70 PERCENT OF ITS RATED WORKING PRESSURE (OR AS OTHERWISE APPROVED BY THE DISTRICT MANAGER)?**

**Authority: 616(a)(2)**

**Enforcement Action: W/C**

**INSPECTION PROCEDURE:**

1. Determine the rated working pressure of the annular-type BOP by visually inspecting the body of the preventer for a rating stamping or tag.
2. Inspect the operator's log to verify that the annular-type preventers were pressure tested to 70 percent of the rated working pressure, or as otherwise approved by the District Manager.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if records indicate that pressure test was not performed to 70 percent of the rated working pressure of the annular-type preventer, but subsequent test was performed to 70 percent of the rated working pressure.

Issue a component shut-in (C) INC for the workover rig if the annular-type preventers were not tested to 70 percent of the rated working pressure.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

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W-145

**HAVE THE BOP SYSTEMS BEEN TESTED WHEN INSTALLED?**

**Authority: 616(b)(1)**

**Enforcement Action: W/C**

**INSPECTION PROCEDURE:**

1. Inspect operator's log to verify that tests were performed when the BOP system was initially installed.
2. Witness the tests if they are being performed during the inspection.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if operations have commenced without the initial tests, but subsequent tests have been performed.

Issue a component shut-in (C) INC for the workover rig if installation has been accomplished and no tests have been performed.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

W-146

**HAVE THE BOP SYSTEMS BEEN TESTED AT LEAST ONCE EVERY 7 DAYS?**

**Authority:** 616(b)(2)

**Enforcement Action:** W/C

**INSPECTION PROCEDURE:**

Inspect operator's log to verify that tests were performed at least every 7 days.

**Note:**

1. More than 7 days is allowed when well operations prevent testing due to problems such as:
  - A. Stuck pipe.
  - B. Pressure control operations.
  - C. Remedial well efforts.
2. The tests shall be conducted as soon as possible after the problem is solved, but before normal operations resume.
3. The reason for postponing testing shall be entered into the operations log.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if records indicate that tests other than most recent test exceeded the 7-day interval requirement without acceptable explanation in the operator's log.

Issue a component shut-in (C) INC for the workover rig if the date of most recent test exceeds the 7 days and acceptable explanation is not entered in the operator's log.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

---

W-147

**HAVE THE BOP SYSTEMS BEEN TESTED AT LEAST ONCE EVERY 30 DAYS DURING OPERATION FOR THE BLIND-SHEAR RAMS?**

**Authority:** 616(b)(2)

**Enforcement Action:** W/C

**INSPECTION PROCEDURE:**

1. Inspect operator's log to verify that the blind-shear rams have been tested at least once every 30 days.
2. If inspection is being performed during testing of the blind-shear rams, witness the test.

**Note:**

1. A longer period between blowout preventer tests is allowed when there is a stuck pipe or pressure control operation and remedial efforts are being performed. The tests shall be conducted as soon as possible and before normal operations resume.
2. The reason for postponing testing shall be entered into the operations log.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if records indicate that tests other than most recent test exceeded the 30-day requirement.

Issue a component shut-in (C) INC for the workover rig if a test has not been conducted in the last 30 days.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

---

W-148

**HAVE THE BOP SYSTEMS BEEN TESTED FOLLOWING REPAIRS THAT REQUIRE DISCONNECTING A PRESSURE SEAL IN THE ASSEMBLY?**

**Authority:** 616(b)(3)

**Enforcement Action:** W/C

**INSPECTION PROCEDURE:**

Inspect operator's log to verify that, where repairs required disconnection of pressure seals, tests on affected seals were conducted.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if records indicate that operations commenced without tests being conducted on the seals, but subsequent BOP tests were conducted.

Issue a component shut-in (C) INC for the workover rig if no tests were conducted on the seals following repairs.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

---

W-149

**DO THE TESTS ALTERNATE BETWEEN CONTROL STATIONS AND AT STAGGERED INTERVALS TO ALLOW EACH CREW TO OPERATE THE EQUIPMENT?**

**Authority:** 616(b)(2)

**Enforcement Action:** W/C

**INSPECTION PROCEDURE:**

1. Inspect operator's log to verify that each crew has been allowed to operate the equipment during tests.
2. Verify that all control stations are functional.
3. Conditions permitting, witness operation of the BOP equipment by the crew on tour.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if records indicate that each crew has not operated the BOP equipment during tests. Issue a component shut-in (C) INC for the workover rig if either control station is found to be inoperable.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

---

W-150

**ARE ALL PERSONNEL ENGAGED IN WELL-WORKOVER OPERATIONS PARTICIPATING IN A WEEKLY BOP DRILL TO FAMILIARIZE CREW MEMBERS WITH APPROPRIATE SAFETY MEASURES?**

**Authority:** 616(c)

**Enforcement Action:** W

**INSPECTION PROCEDURE:**

Inspect operator's log to verify that all personnel are participating in weekly well-control drills and that they have been recorded.

**Note:** The operator may be instructed to conduct a BOP drill at any time during the inspection while operations are in progress after consulting with the company representative.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if weekly BOP drills have not been conducted or recorded.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

---

W-151

**ARE THE TIME, DATE, AND RESULTS OF ALL PRESSURE TESTS, ACTUATIONS, INSPECTIONS, AND CREW DRILLS OF THE BOP SYSTEM, SYSTEM COMPONENTS, AND MARINE RISERS RECORDED IN THE OPERATIONS LOG OR REFERENCED DOCUMENT?**

**Authority:** 616(g)

**Enforcement Action:** W

616(g)(4)

**INSPECTION PROCEDURE:**

1. Check the operations log to verify that the time, date, and results of all pressure tests, actuations, inspections, and crew drills of BOP systems, system components, and marine risers are recorded.
2. As an alternative, the documentation required to be entered in the operations log may be referenced there. If the time, date, and results of the pressure tests, actuations, inspections, and crew drills of BOP systems, system components, and marine risers are referenced in the operations log, check the referenced document to verify that the documentation is there.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if the time, date and results of all pressure tests, actuations, inspections, and crew drills of the BOP systems, system components, and marine risers are not entered in the operations log or referenced document.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

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W-152

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

**Authority:** 617(b)

**Enforcement Action:** W

**Note:** This PINC applies to prolonged operations that could damage the casing such as milling, fishing, jarring, or washing over.

**INSPECTION PROCEDURE:**

1. Inspect the operator's log to determine if prolonged operations that could damage the casing have been conducted.
2. If such prolonged operations have been conducted, verify that the casing has been pressure tested, calipered, or otherwise evaluated every 30 days.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if the operator's log indicates that the casing has not been evaluated every 30 days during prolonged operations that could damage the casing.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

W-154

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

**Authority: 615(c)(1)**

**Enforcement Action: C**

**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 component shut-in (C) INC for the workover rig 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 for each regulator inspected.

---

W-155

**ARE BOP TEST PRESSURES RECORDED ON A PRESSURE CHART, UNLESS OTHERWISE APPROVED BY THE DISTRICT MANAGER?**

**Authority: 616(f)**

**Enforcement Action: W**

**INSPECTION PROCEDURE:**

1. Verify that the BOP test pressures have been recorded on a pressure chart by requesting to view the actual chart.
2. Prior to inspection, check office records to determine if the District Manager has approved an alternate method of recording BOP test pressure.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if the BOP test pressures have not been recorded on a pressure chart or alternative method approved by the District Manager.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

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W-156

**IS THE TEST INTERVAL FOR EACH BOP COMPONENT TESTED SUFFICIENT TO DEMONSTRATE THAT THE COMPONENT IS EFFECTIVELY HOLDING PRESSURE?**

**Authority: 616(f)**

**Enforcement Action: W**

**INSPECTION PROCEDURE:**

Verify that each BOP component held pressure for at least five minutes (except for coiled tubing operations which require ten minutes for high pressure tests) or other time period approved by the District Manager by checking the pressure charts or alternative documentation as approved by the District Manager.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if the pressure charts or other documentation indicates that each BOP component did not hold pressure for at least five minutes or other time period approved by the District Manager.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

---

W-157

**ARE BOP TEST PRESSURE CHARTS CERTIFIED AS CORRECT BY THE OPERATOR'S REPRESENTATIVE AT THE FACILITY?**

**Authority: 616(f)**

**Enforcement Action: W**

**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 facility.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

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W-162

**ARE ALL RECORDS INCLUDING PRESSURE CHARTS, OPERATIONS LOGS, AND REFERENCED DOCUMENTS OF BOP TESTS, ACTUATIONS, AND INSPECTIONS AVAILABLE AT THE FACILITY FOR THE DURATION OF THE WELL-WORKOVER ACTIVITY?**

**Authority: 616(e)(4)**

**Enforcement Action: W**

**INSPECTION PROCEDURE:**

Verify that all records including pressure charts, operations logs, and referenced documents of BOP tests, actuations, and inspections are available at the facility for the duration of the well-workover activity by asking the operator's representative to see them.

**IF NONCOMPLIANCE EXISTS:**

Issue a warning (W) INC if all records of BOP tests, actuations, and inspections including pressure charts, operations logs, and referenced documents are not available at the facility for the duration of the well-workover activity.

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

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W-163

**ARE ALL SUCH RECORDS RETAINED FOR A PERIOD OF TWO YEARS AT THE FACILITY, AT THE LESSEE'S FIELD OFFICE NEAREST THE FACILITY, OR AT ANOTHER LOCATION CONVENIENTLY AVAILABLE TO THE DISTRICT MANAGER?**

**Authority: 616(e)(4)**

**Enforcement Action: W**

**INSPECTION PROCEDURE:**

Verify that all such records are available by asking the operator's representative for them.

**IF NONCOMPLIANCE EXISTS:**

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

**INSPECTION COUNT/ INC COUNT:**

Enter one item checked/ issue one INC per inspection.

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## WIRELINE OPERATIONS

- W-170**      **ARE WIRELINE OPERATIONS CONDUCTED SO AS TO MINIMIZE THE LEAKAGE OF WELL FLUIDS?**  
**Authority: 618(a)**      **Enforcement Action: C**  
**INSPECTION PROCEDURE:**  
Visually inspect the wireline operation for fluid leakage.  
**IF NONCOMPLIANCE EXISTS:**  
Issue a component shut-in (C) INC for wireline operations if fluids are leaking from the wireline equipment.  
**INSPECTION COUNT/ INC COUNT:**  
Enter one item checked/ issue one INC per inspection.
- 
- W-171**      **FOR WIRELINE PERFORATING OPERATIONS AND ALL OTHER WIRELINE OPERATIONS WHERE COMMUNICATION EXISTS BETWEEN THE COMPLETED HYDROCARBON-BEARING ZONE(S) AND THE WELLBORE, IS A LUBRICATOR ASSEMBLY CONTAINING AT LEAST ONE WIRELINE VALVE UTILIZED?**  
**Authority: 618(b)**      **Enforcement Action: C**  
**INSPECTION PROCEDURE:**  
For wireline perforating operations and all other wireline operations where communication exists between the completed hydrocarbon-bearing zones and the wellbore, visually inspect the wellhead assembly to verify that a lubricator assembly containing at least one wireline valve is installed.  
**IF NONCOMPLIANCE EXISTS:**  
Issue a component shut-in (C) INC for wireline operations if a lubricator assembly containing at least one wireline valve is not installed.  
**INSPECTION COUNT/ INC COUNT:**  
Enter one item checked/ issue one INC per inspection.
- 
- W-172**      **WHEN A LUBRICATOR IS INITIALLY INSTALLED ON A WELL, IS IT PRESSURE TESTED TO THE EXPECTED SHUT-IN PRESSURE?**  
**Authority: 618(c)**      **Enforcement Action: W/C**  
**INSPECTION PROCEDURE:**  
1. Check the operator's records to:  
    A. Confirm the expected shut-in pressure with the last viable test.  
    B. Verify that the lubricator was pressure tested to the expected shut-in pressure when it was initially installed.  
2. If lubricator is being initially installed during the inspection, witness the pressure test.  
**IF NONCOMPLIANCE EXISTS:**  
Issue a warning (W) INC if the lubricator was not tested when initially installed, but subsequent tests have been performed.  
Issue a component shut-in (C) INC for the wireline operation if the lubricator has never been pressure tested to the expected shut-in pressure.  
**INSPECTION COUNT/ INC COUNT:**  
Enter one item checked/ issue one INC per inspection.
-

## ESD SYSTEM

W-180

**IS AN OPERABLE ESD STATION LOCATED NEAR THE DRILLER'S CONSOLE OR WELL-SERVICING UNIT OPERATOR'S WORK STATION ON FACILITIES WHERE THE TREE HAS BEEN REMOVED FROM THE WELL AND THERE ARE OTHER HYDROCARBON-PRODUCING WELLS OR OTHER HYDROCARBON FLOW?**

**Authority: 603**

**Enforcement Action: C**

**Note:** The offshore operator and contractor should be advised that the ESD station should be tested when installed and subsequent to each rig skid.

**INSPECTION PROCEDURE:**

1. Verify that there is an ESD station near the driller's console or well-servicing unit operator's work station during well-workover 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 the well-workover 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 per inspection.