



# HYDROGEN SULFID (H<sub>2</sub>S)

(Last Update—May 2023)

(This Section Pertains to Areas Classified as H<sub>2</sub>S *Present* and H<sub>2</sub>S *Unknown*.)

**Definitions:**

1. **H<sub>2</sub>S present**: means that drilling, logging, coring, testing, or producing operations have confirmed the presence of H<sub>2</sub>S in concentrations and volumes that could potentially result in atmospheric concentrations of 20 ppm or more of H<sub>2</sub>S.
2. **H<sub>2</sub>S unknown**: means the designation of a zone or geological formation where neither the presence nor absence of H<sub>2</sub>S has been confirmed.

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**H-100** IS A COPY OF THE APPROVED H<sub>2</sub>S CONTINGENCY PLAN AVAILABLE IN THE FIELD AREA, AND IS THAT PLAN BEING FOLLOWED?

Authority: 30 CFR 250.490(f)

Enforcement Actions: W/S

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**H-101** ARE AT LEAST TWO SAFE BRIEFING AREAS ESTABLISHED?

Authority: 30 CFR 250.490(f)(6)

Enforcement Actions: S

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**H-102** ARE ALL PERSONNEL TRAINED ON THE HAZARDS OF H<sub>2</sub>S AND OF SO<sub>2</sub> RESULTING FROM BURNING H<sub>2</sub>S, AND INSTRUCTED IN THE PROVISIONS FOR PERSONNEL SAFETY CONTAINED IN THE H<sub>2</sub>S CONTINGENCY PLAN?

Authority: 30 CFR 250.490(g)(4)(i)  
30 CFR 250.490(j)(11)(iii)

Enforcement Actions: C

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**H-103** ARE ALL PERSONNEL INSTRUCTED IN THE PROPER USE OF SAFETY EQUIPMENT WHICH THEY MAY BE REQUIRED TO USE?

Authority: 30 CFR 250.490(g)(4)(ii)

Enforcement Actions: C

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**H-104** ARE ALL PERSONNEL TRAINED ON THE LOCATION OF PROTECTIVE-BREATHING EQUIPMENT, H2S DETECTORS AND ALARMS, VENTILATION EQUIPMENT, BRIEFING AREAS, WARNING SYSTEMS, EVACUATION PROCEDURES, AND THE DIRECTION OF THE PREVAILING WINDS?

Authority: 30 CFR 250.490(g)(4)(iii)

Enforcement Actions: C

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**H-105** ARE ALL PERSONNEL TRAINED AND INFORMED OF THE RESTRICTIONS AND CORRECTIVE MEASURES CONCERNING BEARDS, SPECTACLES, AND CONTACT LENSES IN CONFORMANCE WITH ANSI Z88.2?

Authority: 30 CFR 250.490(g)(4)(iv)

Enforcement Actions: C

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**H-106** IS SAFETY INFORMATION PROMINENTLY POSTED ON THE FACILITY?

Authority: 30 CFR 250.490(g)(5)

Enforcement Actions: W

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**H-107** IS SAFETY INFORMATION PROMINENTLY POSTED ON VESSELS SERVING THE FACILITY?

Authority: 30 CFR 250.490(g)(5)

Enforcement Actions: W

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**H-108** DO ALL OPERATORS AND CONTRACT PERSONNEL RECEIVE A TRAINING SESSION BEFORE BEGINNING WORK AT THE FACILITY AND AGAIN WITHIN 1 YEAR AFTER COMPLETION OF THE PREVIOUS CLASS?

Authority: 30 CFR 250.490(g)(1)(i)  
30 CFR 250.490(g)(1)(ii)

Enforcement Actions: C

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**H-109** DOES EACH PERSON PARTICIPATE IN A DRILL DURING NORMAL DUTY HOURS AT LEAST ONCE EVERY 7-DAY PERIOD?

Authority: 30 CFR 250.490(h)(1)(i)

Enforcement Actions: W/C

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**H-111** ARE RECORDS OF ATTENDANCE FOR TRAINING MAINTAINED AT THE FACILITY OR DOES THE EMPLOYEE CARRY A TRAINING COMPLETION CARD?

Authority: 30 CFR 250.490(g)(2)(i)  
30 CFR 250.490(g)(2)(ii)

Enforcement Actions: W

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**H-113** IS A FIRST-AID KIT, OF APPROPRIATE SIZE AND CONTENT, READILY AVAILABLE FOR THE NUMBER OF PERSONNEL ON THE FACILITY?

Authority: 30 CFR 250.490(k)(3)(i)

Enforcement Actions: W

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**H-114** ARE THERE AT LEAST THREE RESUSCITATORS ON MANNED FACILITIES AND A NUMBER EQUAL TO THE PERSONNEL ON BOARD, NOT TO EXCEED THREE, ON NORMALLY UNMANNED FACILITIES (COMPLETE WITH FACE MASKS, OXYGEN BOTTLES, AND SPARE OXYGEN BOTTLES) AND ARE THESE AVAILABLE ON THE FACILITY?

Authority: 30 CFR 250.490(k)(1)(v)

Enforcement Actions: C

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**H-115** IS THERE AT LEAST ONE LITTER OR AN EQUIVALENT DEVICE ON THE FACILITY AND READILY AVAILABLE FOR USE?

Authority: 30 CFR 250.490(k)(3)(ii)

Enforcement Actions: W/C

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**H-117** IS WIND-DIRECTION EQUIPMENT INSTALLED IN LOCATIONS VISIBLE AT ALL TIMES TO INDIVIDUALS ON OR IN THE IMMEDIATE VICINITY OF THE FACILITY?

Authority: 30 CFR 250.490(i)(1)

Enforcement Actions: S

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**H-118** ARE OPERATIONAL DANGER SIGNS DISPLAYED AT ALL TIMES ON FACILITIES WITH WELLS CAPABLE OF PRODUCING H<sub>2</sub>S GAS IN CONCENTRATIONS OF 20 PPM OR MORE?

Authority: 30 CFR 250.490(i)(3)

Enforcement Actions: W/S

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**H-120** DOES THE FACILITY HAVE AN H2S-DETECTION AND H2S-MONITORING SYSTEMS WHICH ARE CAPABLE OF SENSING A MINIMUM OF 10 PPM H2S, ACTIVATESAUDIBLE AND VISUAL ALARMS WHEN THE ATMOSPHERIC CONCENTRATION REACHES 20 PPM, AND ARE LOCATED AT THE BELL NIPPLE, MUD RETURN LINE RECEIVER TANK (POSSUM BELLY), PIPE TRIP TANK, SHALE SHAKER, WELL-CONTROL FLUID PIT AREA, DRILLER'S STATION, LIVING QUARTERS, AND OTHER AREAS WHERE H2S MIGHT ACCUMULATE?

Authority: 30 CFR 250.490(j)(1)(i)  
30 CFR 250.490(j)(2)

Enforcement Actions: S

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**H-121** ARE SENSORS LOCATED IN ROOMS, BUILDINGS, DECK AREAS, OR LOW-LAYING DECK AREAS NOT OTHERWISE COVERED BY 30 CFR 250.490(j)?

Authority: 30 CFR 250.490(j)(5)(i)

Enforcement Actions: S

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**H-122** IS AT LEAST ONE SENSOR INSTALLED PER 400 SQUARE FEET OF DECK AREA OR FRACTIONAL PART THEREOF (OR AS OTHERWISE APPROVED BY THE DISTRICT MANAGER)?

Authority: 30 CFR 250.490(j)(5)(i)

Enforcement Actions: S

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**H-123** IS A SENSOR LOCATED IN BUILDINGS WHERE PERSONNEL HAVE THEIR LIVING QUARTERS?

Authority: 30 CFR 250.490(j)(5)(ii)

Enforcement Actions: S

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**H-124** IS ONE SENSOR LOCATED WITHIN 10 FEET OF EACH VESSEL, COMPRESSOR, WELLHEAD, MANIFOLD, OR PUMP (OR AS OTHERWISE APPROVED BY THE DISTRICT MANAGER)?

Authority: 30 CFR 250.490(j)(5)(iii)  
30 CFR 250.490(j)(5)(vii)

Enforcement Actions: C

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**H-125** IF ONE SENSOR IS USED TO COVER MULTIPLE PIECES OF EQUIPMENT, IS EACH PIECE OF EQUIPMENT NO MORE THAN 10 FEET FROM THE SENSOR (OR AS OTHERWISE APPROVED BY THE DISTRICT MANAGER)?

Authority: 30 CFR 250.490(j)(5)(iv)  
30 CFR 250.490(j)(5)(vii)

Enforcement Actions: C

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**H-126** IS THE H2S-DETECTION SYSTEM RECALIBRATED WHEN FUNCTIONAL TESTS ARE NOT WITHIN 2 PPM OR 10 PERCENT, WHICHEVER IS GREATER, OF THE APPLIED CONCENTRATIONS (OR AS OTHERWISE APPROVED BY THE DISTRICT MANAGER)?

Authority: 30 CFR 250.490(j)(6)(ii)

Enforcement Actions: C

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**H-127** ARE PORTABLE H2S DETECTORS CAPABLE OF DETECTING 10 PPM CONCENTRATIONS OF H2S GAS IN AIR AND AVAILABLE FOR USE BY ALL PERSONNEL?

Authority: 30 CFR 250.490(k)(1)(i)

Enforcement Actions: W

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**H-128** ARE PRESSURE-DEMAND TYPE RESPIRATORS WITH HOSELINE CAPABILITY AND BREATHING TIME OF AT LEAST 15 MINUTES IMMEDIATELY AVAILABLE AND EASILY ACCESSIBLE TO ALL PERSONNEL ON THE FACILITY IN CONFORMANCE WITH ANSI Z88.2?

Authority: 30 CFR 250.490(j)(13)(i)  
30 CFR 250.490(j)(13)(ii)  
30 CFR 250.490(j)(13)(v)

Enforcement Actions: S

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**H-129** ARE AT LEAST TWO VOICE TRANSMISSION DEVICES, WHICH CAN BE USED WHILE WEARING A RESPIRATOR, AVAILABLE FOR USE BY DESIGNATED PERSONNEL?

Authority: 30 CFR 250.490(j)(13)(iii)

Enforcement Actions: W

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**H-131** IS EACH BREATHING-AIR BOTTLE LABELED AS CONTAINING BREATHING-QUALITY AIR FOR HUMAN USE?

Authority: 30 CFR 250.490(j)(13)(vi)

Enforcement Actions: C/S

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**H-132** DO VESSELS ATTENDANT TO FACILITIES CARRYING APPROPRIATE PROTECTIVE-BREATHING EQUIPMENT FOR EACH CREW MEMBER?

Authority: 30 CFR 250.490(j)(13)(vii)

Enforcement Actions: C

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H-133

FOR AUTHORIZED FLIGHTS DURING H2S ALERTS, ARE HELICOPTER FLIGHTS TO AND FROM THE FACILITY LIMITED TO THE CONDITIONS SPECIFIED IN THE H2S CONTINGENCY PLAN?

Authority: 30 CFR 250.490(j)(13)(viii)

Enforcement Actions: C

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H-134

DURING AUTHORIZED H2S ALERT FLIGHTS, DO THE FLIGHT CREW AND PASSENGERS USE PRESSURE-DEMAND TYPE RESPIRATORS?

Authority: 30 CFR 250.490(j)(13)(viii)

Enforcement Actions: C

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H-135

ARE ALL MEMBERS OF THE FLIGHT CREW TRAINED IN THE USE OF THE PARTICULAR TYPE(S) OF RESPIRATOR EQUIPMENT MADE AVAILABLE DURING H2S ALERT FLIGHTS?

Authority: 30 CFR 250.490(j)(13)(viii)

Enforcement Actions: C

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H-136

AS APPROPRIATE TO THE PARTICULAR OPERATION(S), (PRODUCTION, DRILLING, WELL-COMPLETION/WORKOVER, OR ANY COMBINATION THEREOF), IS A SYSTEM OF BREATHING-AIR MANIFOLDS, HOSES, AND MASKS PROVIDED ON THE FACILITY AND IN THE BRIEFING AREAS?

Authority: 30 CFR 250.490(j)(13)(ix)

Enforcement Actions: S

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H-137

IS A CASCADE AIR-BOTTLE SYSTEM PROVIDED FOR THE BREATHING-AIR MANIFOLDS AND TO REFILL INDIVIDUAL PROTECTIVE-BREATHING APPARATUS BOTTLES?

Authority: 30 CFR 250.490(j)(13)(ix)

Enforcement Actions: S

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H-138

IF THE CASCADE AIR-BOTTLE SYSTEM IS RECHARGED BY A HIGH-PRESSURE COMPRESSOR SUITABLE FOR PROVIDING BREATHING-QUALITY AIR, IS THE COMPRESSOR SUCTION LOCATED IN AN UNCONTAMINATED ATMOSPHERE?

Authority: 30 CFR 250.490(j)(13)(ix)

Enforcement Actions: S

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H-140

ARE RETRIEVAL ROPES WITH SAFETY HARNESES AVAILABLE TO RETRIEVE INCAPACITATED PERSONNEL FROM CONTAMINATED AREAS?

Authority: 30 CFR 250.490(k)(1)(ii)

Enforcement Actions: W

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H-141

ARE CHALKBOARDS AND/OR NOTE PADS AVAILABLE FOR COMMUNICATION PURPOSES LOCATED ON THE RIG FLOOR, SHALE-SHAKER AREA, THE CEMENT-PUMP ROOMS, WELL-BAY AREAS, PRODUCTION PROCESSING EQUIPMENT AREA, GAS COMPRESSOR AREA, AND PIPELINE-PUMP AREA?

Authority: 30 CFR 250.490(k)(1)(iii)

Enforcement Actions: W

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H-142

ARE BULL HORNS AND FLASHING LIGHTS AVAILABLE?

Authority: 30 CFR 250.490(k)(1)(iv)

Enforcement Actions: S

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H-143

ARE AUDIBLE ALARMS AND DISPLAY FLAGS OR FLASHING RED LIGHTS AVAILABLE FOR USE ON FACILITIES WHEN ATMOSPHERIC CONCENTRATIONS OF H<sub>2</sub>S REACH 20 PPM AND ARE SIGNS AND FLAGS CAPABLE OF BEING ILLUMINATED AT NIGHT AND UNDER CONDITIONS OF POOR VISIBILITY?

Authority: 30 CFR 250.490(i)(2)(ii)  
30 CFR 250.490(i)(5)  
30 CFR 250.490(i)(7)(i)

Enforcement Actions: S

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H-144

ARE ALL VENTILATION DEVICES EXPLOSION-PROOF AND SITUATED IN AREAS WHERE H<sub>2</sub>S OR SO<sub>2</sub> MAY ACCUMULATE?

Authority: 30 CFR 250.490(k)(2)(i)  
30 CFR 250.490(k)(2)(ii)

Enforcement Actions: C/S

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H-145

ARE MOVABLE, MULTI-DIRECTIONAL VENTILATION DEVICES, CAPABLE OF DISPERSING H<sub>2</sub>S OR SO<sub>2</sub> VAPORS AWAY FROM WORKING PERSONNEL PROVIDED IN WORK AREAS?

Authority: 30 CFR 250.490(k)(2)(iii)

Enforcement Actions: C

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**H-146** IF WATER-BASED WELL-CONTROL FLUIDS ARE USED, AND IF H<sub>2</sub>S IS DETECTED BY AIR SENSORS, HAS THE GARRETT-GAS-TRAIN TEST OR COMPARABLE TEST TECHNIQUES FOR SOLUBLE SULFIDES BEEN CONDUCTED?  
Authority: 30 CFR 250.490(m)(2)  
30 CFR 250.490(m)(3) Enforcement Actions: W

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**H-147** ARE SUFFICIENT QUANTITIES OF ADDITIVES (SCAVENGERS, pH, AND CORROSION CONTROL) MAINTAINED ON THE FACILITY?  
Authority: 30 CFR 250.490(m)(4) Enforcement Actions: S

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**H-148** WHEN H<sub>2</sub>S IS DETECTED, IS DRILLING SUSPENDED UNTIL SCAVENGER IS CIRCULATED THROUGHOUT THE SYSTEM?  
Authority: 30 CFR 250.490(m)(4)(i) Enforcement Actions: S

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**H-149** IS THE pH LEVEL OF THE WATER-BASED WELL-CONTROL FLUIDS MAINTAINED AT A MINIMUM OF 10.0?  
Authority: 30 CFR 250.490(m)(4)(ii) Enforcement Actions: S

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**H-150** ARE WELL-CONTROL FLUIDS CONTAINING H<sub>2</sub>S DEGASSED AT THE OPTIMUM LOCATION FOR THE PARTICULAR FACILITY AND ARE THE GASSES REMOVED BURNED IN A CLOSED FLARE SYSTEM?  
Authority: 30 CFR 250.490(m)(5)  
30 CFR 250.490(q)(6) Enforcement Actions: S

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**H-151** IS A SAFETY MEETING CONDUCTED FOR ALL PERSONNEL WHO WILL BE ON THE FACILITY PRIOR TO WELL TESTING?  
Authority: 30 CFR 250.490(o)(1) Enforcement Actions: C

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H-152

ARE ALL GASES PRODUCED DURING TESTING BURNED THROUGH A FLARE SYSTEM WHICH MEETS THE REQUIREMENTS OF 30 CFR 490(o)(3)?

Authority: 30 CFR 250.490(o)(3)  
30 CFR 250.490(q)(6)

Enforcement Actions: S

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H-153

ARE FLARE LINE OUTLETS LOCATED ON THE DOWNWIND SIDE AND AS FAR FROM THE FACILITY AS IS FEASIBLE?

Authority: 30 CFR 250.490(q)(6)

Enforcement Actions: S

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H-154

IS THE FLARE OUTLET EQUIPPED WITH AN AUTOMATIC IGNITION SYSTEM INCLUDING A PILOT-LIGHT GAS SOURCE OR AN EQUIVALENT SYSTEM THAT OPERATES AS INTENDED?

Authority: 30 CFR 250.490(q)(6)

Enforcement Actions: S

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H-155

IS AN ALTERNATE METHOD AVAILABLE FOR IGNITING THE FLARE?

Authority: 30 CFR 250.490(q)(6)

Enforcement Actions: W

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H-156

ARE ALL VENTS USED FOR H<sub>2</sub>S PRODUCTION PROCESS EQUIPMENT, TANKS, RELIEF VALVES, BURST PLATES, AND SIMILAR DEVICES PIPED TO THE FLARE SYSTEM?

Authority: 30 CFR 250.490(q)(6)

Enforcement Actions: C/S

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H-157

IS GAS CONTAINING H<sub>2</sub>S NOT USED FOR INSTRUMENT GAS, AND IF H<sub>2</sub>S IS BEING USED AS FUEL GAS, DOES THE OPERATOR HAVE APPROVAL FROM THE DISTRICT MANAGER?

Authority: 30 CFR 250.490(q)(9)

Enforcement Actions: S

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**H-158 HAS THE DISTRICT MANAGER BEEN NOTIFIED IF PRODUCED WATER IS DISPOSED OF BY MEANS OTHER THAN SUBSURFACE INJECTION?**

Authority: 30 CFR 250.490(q)(12)

Enforcement Actions: S

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**H-159 ARE H2S LEVELS CONTINUOUSLY MONITORED IN THE WORK AREAS DURING DRILLING, WELL-COMPLETION, AND WELL-WORKOVER OPERATIONS?**

Authority: 30 CFR 250.490(j)(4)

Enforcement Actions: W/S

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**H-160 WHEN CONDUCTING CORING OPERATIONS, IS PROTECTIVE BREATHING EQUIPMENT WORN BY ALL PERSONNEL IN THE WORK AREA AT LEAST 10 STANDS IN ADVANCE OF RETRIEVING THE CORE BARREL?**

Authority: 30 CFR 250.490(q)(1)

Enforcement Actions: W/S

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**H-161 ARE ALL CORES TO BE TRANSPORTED SEALED AND MARKED FOR THE PRESENCE OF H2S?**

Authority: 30 CFR 250.490(q)(1)

Enforcement Actions: W/S

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**H-162 IS WELL-CONTROL FLUID IN USE FOR LOGGING OPERATIONS CONDITIONED AND TREATED TO MINIMIZE THE EFFECT OF H2S ON THE LOGGING EQUIPMENT?**

Authority: 30 CFR 250.490(q)(2)

Enforcement Actions: W/S

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**H-163 DURING STRIPPING OPERATIONS, ARE DISPLACED WELL-CONTROL FLUID RETURNS MONITORED BY PERSONNEL?**

Authority: 30 CFR 250.490(q)(3)

Enforcement Actions: W/S

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**H-164** DURING STRIPPING OPERATIONS, IS PROTECTIVE BREATHING EQUIPMENT WORN BY PERSONNEL IN THE WORK AREA WHEN THE ATMOSPHERIC CONCENTRATION OF H<sub>2</sub>S REACHES OR EXCEEDS 20 PPM OR IF THE WELL IS UNDERPRESSURE?

Authority: 30 CFR 250.490(q)(3)

Enforcement Actions: W/S

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**H-165** IS PROTECTIVE BREATHING EQUIPMENT WORN BY PERSONNEL IN THE WORK AREA DURING BOTTOMS-UP WHEN CIRCULATING OUT A KICK AND DURING EXTENDED KILL OPERATIONS?

Authority: 30 CFR 250.490(q)(4)

Enforcement Actions: W/S

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**H-166** IS AN EFFECTIVE MEANS OF MONITORING AND CONTROLLING CORROSION CAUSED BY ACID GASES USED IN BOTH THE DOWNHOLE AND SURFACE PORTIONS OF A PRODUCTION SYSTEM?

Authority: 30 CFR 250.490(q)(7)

Enforcement Actions: S

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**H-167** ARE LUBRICATORS WHICH MAY BE EXPOSED TO FLUIDS CONTAINING H<sub>2</sub>S MADE OF H<sub>2</sub>S-RESISTANT MATERIALS?

Authority: 30 CFR 250.490(q)(8)

Enforcement Actions: W/S

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**H-168** ARE METALS USED FOR SENSING LINES AND SAFETY-CONTROL DEVICES WHICH ARE EXPOSED TO H<sub>2</sub>S BEARING FLUIDS CONSTRUCTED OF H<sub>2</sub>S CORROSION RESISTANT MATERIALS OR COATED WITH APPROPRIATE MATERIALS SO AS TO RESIST CORROSION?

Authority: 30 CFR 250.490(q)(10)

Enforcement Actions: W/S

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**H-169** ARE ALL SEALS WHICH MAY BE EXPOSED TO FLUIDS CONTAINING H<sub>2</sub>S MADE OF H<sub>2</sub>S-RESISTANT MATERIAL?

Authority: 30 CFR 250.490(q)(11)

Enforcement Actions: W/S

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**H-170** DO TRAINED EMPLOYEES OR CONTRACTORS WHO ARE TRANSFERRED FROM ONE FACILITY TO ANOTHER, RECEIVE A SUPPLEMENTAL BRIEFING ON H2S EQUIPMENT AND PROCEDURES BEFORE BEGINNING DUTY?

Authority: 30 CFR 250.490(g)(3)(i)

Enforcement Actions: W

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**H-171** DO VISITORS WHO REMAIN AT THE FACILITY FOR MORE THAN 24 HOURS RECEIVE THE TRAINING REQUIRED FOR EMPLOYEES AND CONTRACTORS?

Authority: 30 CFR 250.490(g)(3)(ii)  
30 CFR 250.490(g)(4)

Enforcement Actions: W

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**H-172** DO VISITORS WHO WILL DEPART THE FACILITY WITHIN 24 HOURS RECEIVE A BRIEFING ON H2S PROCEDURES?

Authority: 30 CFR 250.490(g)(3)(iii)

Enforcement Actions: W

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**H-173** ARE RECORDS OF ATTENDANCE IN DRILLS FOR DRILLING, WELL-COMPLETION, AND WELL-WORKOVER OPERATIONS MAINTAINED AT THE FACILITY UNTIL OPERATIONS ARE COMPLETED?

Authority: 30 CFR 250.490(h)(2)(i)

Enforcement Actions: W

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**H-174** ARE RECORDS OF ATTENDANCE IN DRILLS FOR PRODUCTION OPERATIONS MAINTAINED AT THE FACILITY OR THE NEAREST FIELD OFFICE FOR 1 YEAR?

Authority: 30 CFR 250.490(h)(2)(ii)

Enforcement Actions: W

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**H-175** ARE PORTABLE OR STRATEGICALLY PLACED FIXED SO2 DEVICES CAPABLE OF DETECTING A MINIMUM OF 2 PPM OF SO2?

Authority: 30 CFR 250.490(j)(11)(i)

Enforcement Actions: W/S

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**H-176**

**ARE PORTABLE OR FIXED SO<sub>2</sub> ELECTRONIC SENSING DEVICES CALIBRATED EVERY 3 MONTHS?**

Authority: 30 CFR 250.490(j)(11)(iv)

Enforcement Actions: W/S

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**H-177**

**ARE SPECTACLE KITS AVAILABLE FOR RESPIRATORS AS NEEDED?**

Authority: 30 CFR 250.490(j)(13)(iv)

Enforcement Actions: W

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**H-178**

**ARE COMPRESSORS EXCEEDING 50 HP COVERED BY AT LEAST TWO H<sub>2</sub>S SENSORS LOCATED WITHIN 10 FEET OF THE COMPRESSOR?**

Authority: 30 CFR 250.490(j)(5)(iv)

Enforcement Actions: C

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**H-179**

**WHEN DRILLING, ARE FUNCTIONAL TESTS OF H<sub>2</sub>S DETECTORS INITIATED BEFORE THE BIT IS 1,500 FEET (VERTICALLY) ABOVE THE POTENTIAL H<sub>2</sub>S ZONE?**

Authority: 30 CFR 250.490(j)(7)(i)

Enforcement Actions: W

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**H-180**

**WHEN CONDUCTING PRODUCTION OPERATIONS, ARE ALL H<sub>2</sub>S DETECTORS TESTED AT LEAST EVERY 14 DAYS?**

Authority: 30 CFR 250.490(j)(7)(ii)

Enforcement Actions: C

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**H-181**

**IN AREAS CLASSIFIED AS H<sub>2</sub>S PRESENT, ARE ALL H<sub>2</sub>S DETECTORS TESTED ONCE EVERY 24 HOURS WHEN CONDUCTING DRILLING OPERATIONS, DRILL STEM TESTING, WELL TESTING, WELL COMPLETION OPERATIONS, OR WORKOVER OPERATIONS?**

Authority: 30 CFR 250.490(j)(7)(i)

Enforcement Actions: W/S

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