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- (2) A decompression chamber capable of recompressing the diver at the surface to the maximum depth of the dive shall be available at the dive location for dives deeper than 300 fsw.
- (3) The decompression chamber shall be:
 - (i) Dual-lock:
 - (ii) Multiplace; and
- (iii) Located within 5 minutes of the dive location.
- (4) The decompression chamber shall be equipped with:
- (i) A pressure gauge for each pressurized compartment designed for human occupancy;
- (ii) A built-in-breathing-system with a minimum of one mask per occupant;
- (iii) A two-way voice communication system between occupants and a dive team member at the dive location;
 - (iv) A viewport; and
- (v) Illumination capability to light the interior.
- (5) Treatment tables, treatment gas appropriate to the diving mode, and sufficient gas to conduct treatment shall be available at the dive location.
- (6) A dive team member shall be available at the dive location during and for at least one hour after the dive to operate the decompression chamber (when required or provided).
- (d) Record of dive. (1) The following information shall be recorded and maintained for each diving operation:
- (i) Names of dive team members including designated person-in-charge;
 - (ii) Date, time, and location;
 - (iii) Diving modes used;
- (iv) General nature of work performed:
- (v) Approximate underwater and surface conditions (visibility, water temperature and current); and
- (vi) Maximum depth and bottom time for each diver.
- (2) For each dive outside the no-decompression limits, deeper than 100 fsw or using mixed gas, the following additional information shall be recorded and maintained:
- (i) Depth-time and breathing gas profiles:
- (ii) Decompression table designation (including modification); and
- (iii) Elapsed time since last pressure exposure if less than 24 hours or repetitive dive designation for each diver.

- (3) For each dive in which decompression sickness is suspected or symptoms are evident, the following additional information shall be recorded and maintained:
- (i) Description of decompression sickness symptoms (including depth and time of onset); and
- (ii) Description and results of treatment.
- (e) Decompression procedure assessment. The employer shall:
- (1) Investigate and evaluate each incident of decompression sickness based on the recorded information, consideration of the past performance of decompression table used, and individual susceptibility:
- (2) Take appropriate corrective action to reduce the probability of recurrence of decompression sickness; and
- (3) Prepare a written evaluation of the decompression procedure assessment, including any corrective action taken, within 45 days of the incident of decompression sickness.

[42 FR 37668, July 22, 1977, as amended at 49 FR 18295, Apr. 30, 1984]

SPECIFIC OPERATIONS PROCEDURES

§1910.424 SCUBA diving.

- (a) General. Employers engaged in SCUBA diving shall comply with the following requirements, unless otherwise specified.
- (b) Limits. SCUBA diving shall not be conducted:
 - (1) At depths deeper than 130 fsw;
- (2) At depths deeper than 100 fsw or outside the no-decompression limits unless a decompression chamber is ready for use;
- (3) Against currents exceeding one (1) knot unless line-tended; or
- (4) In enclosed or physically confining spaces unless line-tended.
- (c) *Procedures*. (1) A standby diver shall be available while a diver is in the water.
- (2) A diver shall be line-tended from the surface, or accompanied by another diver in the water in continuous visual contact during the diving operations.
- (3) A diver shall be stationed at the underwater point of entry when diving is conducted in enclosed or physically confining spaces.

- (4) A diver-carried reserve breathing gas supply shall be provided for each diver consisting of:
 - (i) A manual reserve (J valve); or
- (ii) An independent reserve cylinder with a separate regulator or connected to the underwater breathing apparatus.
- (5) The valve of the reserve breathing gas supply shall be in the closed position prior to the dive.

§ 1910.425 Surface-supplied air diving.

- (a) General. Employers engaged in surface-supplied air diving shall comply with the following requirements, unless otherwise specified.
- (b) Limits. (1) Surface-supplied air diving shall not be conducted at depths deeper than 190 fsw, except that dives with bottom times of 30 minutes or less may be conducted to depths of 220 fsw.
- (2) A decompression chamber shall be ready for use at the dive location for any dive outside the no-decompression limits or deeper than 100 fsw.
- (3) A bell shall be used for dives with an inwater decompression time greater than 120 minutes, except when heavy gear is worn or diving is conducted in physically confining spaces.
- (c) Procedures. (1) Each diver shall be continuously tended while in the water.
- (2) A diver shall be stationed at the underwater point of entry when diving is conducted in enclosed or physically confining spaces.
- (3) Each diving operation shall have a primary breathing gas supply sufficient to support divers for the duration of the planned dive including decompression.
- (4) For dives deeper than 100 fsw or outside the no-decompression limits:
- (i) A separate dive team member shall tend each diver in the water;
- (ii) A standby diver shall be available while a diver is in the water;
- (iii) A diver-carried reserve breathing gas supply shall be provided for each diver except when heavy gear is worn;
- (iv) A dive-location reserve breathing gas supply shall be provided.
- (5) For heavy-gear diving deeper than 100 fsw or outside the no-decompression limits:
- (i) An extra breathing gas hose capable of supplying breathing gas to the

diver in the water shall be available to the standby diver.

- (ii) An inwater stage shall be provided to divers in the water.
- (6) Except when heavy gear is worn or where physical space does not permit, a diver-carried reserve breathing gas supply shall be provided whenever the diver is prevented by the configuration of the dive area from ascending directly to the surface.

§ 1910.426 Mixed-gas diving.

- (a) General. Employers engaged in mixed-gas diving shall comply with the following requirements, unless otherwise specified.
- (b) *Limits*. Mixed-gas diving shall be conducted only when:
- (1) A decompression chamber is ready for use at the dive location; and
- (i) A bell is used at depths greater than 220 fsw or when the dive involves inwater decompression time of greater than 120 minutes, except when heavy gear is worn or when diving in physically confining spaces; or
- (ii) A closed bell is used at depths greater than 300 fsw, except when diving is conducted in physically confining spaces.
- (c) *Procedures.* (1) A separate dive team member shall tend each diver in the water.
- (2) A standby diver shall be available while a diver is in the water.
- (3) A diver shall be stationed at the underwater point of entry when diving is conducted in enclosed or physically confining spaces.
- (4) Each diving operation shall have a primary breathing gas supply sufficient to support divers for the duration of the planned dive including decompression.
- (5) Each diving operation shall have a dive-location reserve breathing gas supply.
 - (6) When heavy gear is worn:
- (i) An extra breathing gas hose capable of supplying breathing gas to the diver in the water shall be available to the standby diver; and
- (ii) An inwater stage shall be provided to divers in the water.
- (7) An inwater stage shall be provided for divers without access to a bell for dives deeper than 100 fsw or outside the no-decompression limits.