



# IANTD®

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C-3401

## PRE-DIVE ESSENTIAL DIVE PREPARATION VERIFICATION

Complete prior to boarding or preparing to don equipment. Checks to be completed early enough to be able to fix problems if any exist without becoming stressed or rushed. All checks on this sheet to be completed by each diver & cross-referenced between dive team members.

- ☐ Verify self & buddy completed mfg. Set-up & mfg. Check Sheets.
- ☐ Verify gas delivery system of both CCR & Bailout are operational.
- ☐ Verify system holds during both positive & negative pressure checks.
- ☐ Verify analysis of all gases to be used on dive.
- ☐ Verify all cylinders are labeled for use.
- ☐ Verify calibration.

### CCR "S" Self & Buddy Safety Check (S = Safety = Survival)

Team safety depends on teamwork; Safety & Survival are enhanced by S drills completed for each dive. Team responsibility is to KNOW all systems are functional for everyone.

*Note! Always do S Drill on surface. Environment dependent if possible repeat applicable steps in-water!*

**Within 15 minutes of starting ANY dive:**

- ☐ Reaffirm adequate bailout gas available. Self & Buddies
- ☐ Reaffirm gas pressure of all cylinders to be used on dive. Self & Buddies
- ☐ Confirm **ALL** gases are turned **on**. Self & Buddies
- ☐ Confirm no detectable leakages of gases or loop integrity. Self & Buddies
- ☐ Confirm gas additon O<sub>2</sub> (solenoid ECCR or orifice MCCR). Self & Buddies
- ☐ Confirm manual O<sub>2</sub> addition. Self & Buddies
- ☐ Confirm A.D.V. activates & manual operation. Self & Buddies
- ☐ Confirm bailout gas delivery system is functional. Self & Buddies
- ☐ Confirm breathing loop delivery. Self & Buddies
- ☐ Confirm pre-breathe PO<sub>2</sub> held & scrubber canister functional on surface. Self & Buddies
- ☐ Confirm all electronics systems agree - primary, secondary, etc. Self & Buddies
- ☐ Confirm D.S.V. or B.O.V. functional. Self & Buddies
- ☐ Confirm ability to switch to bailout. Self & Buddies
- ☐ Confirm compatibility of pluggable off-board gases in the dive team. Self & Buddies
- ☐ Confirm, on completion, CCR is functional (Gases **on** - Safe PO<sub>2</sub> in loop) so do not turn electronics or gasses off until post dive. Self & Buddies
- ☐ Confirm support equipment (lights, reels, etc.) is functional. Self & Buddies
- ☐ Confirm divers are familiar w/each others systems & configuration. Self & Buddies

### Always Know Your PO<sub>2</sub> - Verify Buddy's PO<sub>2</sub> Frequently

Always Know Your Scrubber Canister Contents Is Within A Safe Usage Limit



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## PRE-DIVE ESSENTIAL DIVE PREPARATION VERIFICATION

**Immediately prior to every submergence (or water entry)**

### Quick Individual Safety Check

- ☐ Reaffirm all gas delivery systems are **on** and functional.
- ☐ Reaffirm safe  $PO_2$  for self & buddy - Reaffirm  $O_2$  delivery is working.
- ☐ Reaffirm A.D.V. is on, if applicable.
- ☐ Reaffirm manual addition is working.

### In-water Safety Check

- ☐ Upon entry in the water, if possible, leak check your buddy. If the environment does not allow a surface check, then perform a leak check on descent or immediately on completion of descent.
- ☐ Confirm self & buddy switch to desired  $PO_2$  and maintain it.
- ☐ If practical, check bailout to ensure that it is completely functional.
- ☐ Be observant for any abnormal behavior in dive performance.
- ☐ Know and avoid the causes of accidents.
- ☐ **Enjoy the dive!**

**Accidents don't happen by themselves.**

**Be prudent and study common causes of accidents.**

**Be responsible and choose not to create accidents.**

**Practice survival skills & survival habits, ideally with dive partners.**

**Go beyond drills, complete the intent of training;**

**Turn it into "Learning = Knowing."**

**Always Know Your  $PO_2$  - Verify Buddy's  $PO_2$  Frequently**

**Always Know Your Scrubber Canister Contents Is Within A Safe Usage Limit**

**C-3401B**