

Diving Safety Lines

Spring Edition

2008

Diving Safety Lines is a semi-annual release by the Afloat Safety Directorate of the Naval Safety Center. The information contained herein is a summary of research from selected reports of diving hazards to assist you in your mishap prevention program. *Diving Safety Lines* is intended to give advance coverage of safety-related information while reducing individual reading time. This bulletin does not, in itself, constitute authority but will cite authoritative references when available. It is recommended that this bulletin be made available to all hands.

From the Diving Safety Division Head

LT S. Wilson

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Welcome to the spring edition of the Diving Safety Lines. First, let me introduce myself. My name is LT Sarah Wilson and I reported to the Safety Center in September 2007. I transferred from EOD Mobile Unit 2, relieving LCDR Bob Crouch. We have quite a few things going on here in the diving department, so please pay close attention to this issue. A couple reminders for this spring: the New Dive/Jump Reporting System (DJRS) will be coming out in May and the U. S. Navy Diving Manual; Rev 6 was released this spring.

After arriving at the Safety Center, I realized I had jumped feet first into the fire with the new DJRS program. LCDR Crouch and the rest of the Code 32 dive team have been working diligently to create a new and better reporting system that will replace DRS V5.1. In April, DJRS will go live on the Web Enabled Safety System (WESS). This means to access DJRS; you will need a WESS account. No longer will DRS submissions be accepted. All dive reporting **will** go through DJRS.

Training has been going on at designated locations and during surveys to ensure commands can make a smooth transition to the new reporting system. For those commands unable to attend the training, please contact the Center for assistance.

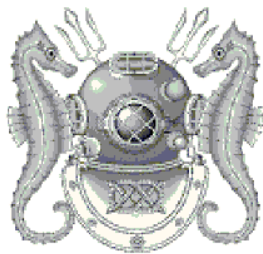
You can request accounts via the Naval Safety Center web homepage. Step- by -step instructions are available online under Ashore/Dive/Request DJRS Account.

Remember, the new U. S. Navy Diving Manual; 6, was released this spring. Safety survey checklist updates will be completed in August 2008. Be sure that if you have a safety survey coming this year, you print up the checklist from the Safety Center homepage. They are updated yearly; so if you have checklists on your computer, they are most likely out of date. If you have any questions, please contact us at the above e-mail or (757) 444-3520 ext. 7086.

I look forward to working with you.

V/R,
LT Sarah Wilson

| | |
|-------------------------------|------------|
| MDV's Corner | 2-3 |
| Top Discrepancies | 4 |
| Top Reporters | 5 |
| 15 most FAQ's for DJRS | 6 |
| DRS/DJRS | 7 |
| Traffic Safety | 8 |
| From the Fleet | 9 |



Master Diver's Corner

Commitment to Diving Community

NDCM (DSW/SW/MDV) Mallet

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This issue of Master Diver's Corner input comes from MDV Doug Wesleying who reminds us all to remember the USS Grayback incident.

USS GRAYBACK SYSTEM DESCRIPTION

USS Grayback (SS-574) contained two hangars forward.

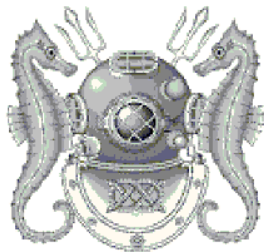
- Each hangar was divided into 6 parts -- wet side, transfer lock, dry side, transfer lock, recompression chamber, and storage area.
- If vent valve ALP-1019 is not adequately opened, a vacuum results.
- ALP-1019 operates by hand wheel in wet side and through linkage by hand wheel in dry side.

USS GRAYBACK -- Chronology

- 2118 16 January 1982 – 8 divers start pressurization.
- 2247 -- 2 divers decompress in transfer lock and exit lock.
- 2346 -- SDV returns to hangar.
- 2338 -- Dry side supervisor orders opening of hangar vent valve. Acknowledged and obeyed. No vent pipe alarm heard. dry side supervisor directs drain down and it commences.
- 2340 - Some divers feel dizzy. Chief checks hangar vent, may have keyed 8MC. 8MC sounds dismissed as unintentional.
- 2342 -- Chief hooks arm through a pipe to avoid drowning, and passes out.
- 2344 -- Dry side attempts comms via 8MC and tap signals.
- 2350 -- Dry side attempts to operate vent valve. Wet suit material seen through dead light viewport. Chief begins to revive and reports hurt divers.
- 2400 -- Dry side supervisor enters wet side. Chief and five bodies transferred to recompression chamber.
- 0008 – Recompression chamber compressed to 165 feet.

USS GRAYBACK -- Causes

- ALP-1019 improperly maintained.
- Material condition of hangar unsatisfactory.
- Hangars not designed to prevent vacuum.
- Operations conducted in nonchalant manner.
- Errors in operational procedures.
- Status reports not required.
- Procedures in use were not approved by NAVSEA.
- Training of USS Grayback diving personnel was unsatisfactory.
- Divers lacked adequate knowledge of the system.
- Failure to act promptly on unusual indications.
- USS Grayback CO and XO did not closely supervise the evolution.



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Lessons Learned

New P-9290 Requirements:

- Design to prevent or minimize the possibility of drawing a vacuum.
- Ensure NAVSEA 00C involvement in design, approval, and surveys.
- Safety analyses required during design.



Diving Safety Lines

Naval Safety Center

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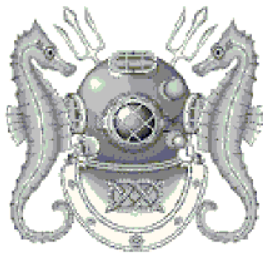
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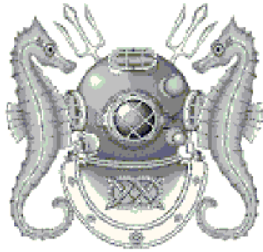


Top Five Diving Safety Survey Discrepancies for 2007

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1. **Dives not reported to the Naval Safety Center at least semi-annually as required by the U. S. Navy Diving Manual.**
2. **Diving smooth logs not signed.**
3. **Filter housings and moisture separators not properly tagged upon completion of required maintenance according to Topside Tech Notes.**
4. **SCUBA over-bottom-pressure settings are not in accordance with the manufacturer's technical manual.**
5. **The required tools are not available to properly complete maintenance on the MK-20 diving apparatus. This means a Gholson gauge was not available and the diver either did not know what one was or that a feeler gauge may be used in its place according to PMS.**



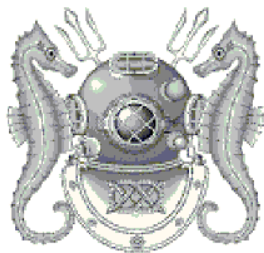


Top Ten Commands with the Most Dives reported for 2007

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1. **5461** dives for N0610A - NAVAL DIVING AND SALVAGE TRAINING CTR
2. **2467** dives for N00251 - PUGET SOUND NAVAL SHIPYARD BREMERTON WA
3. **1798** dives for N40025 - MID ATLANTIC REGIONAL MAINTENANCE CENTER
4. **1620** dives for N55236 - SOUTHWEST REGIONAL MAINTENANCE CTR SAN DIEGO
5. **1079** dives for N30631 - NAVAL DIVE AND SALVAGE TRAINING CTR (STU)
6. **1023** dives for N68316 - NAVAL SUBMARINE SUPPORT FACILITY NEW LONDON
7. **1001** dives for N0463A - NAVY EXPERIMENTAL DIVING UNIT PANAMA CITY FL
8. **991** dives for N47355 - NAVAL SCHOOL EOD DET ELGIN FL (STU)
9. **898** dives for N39592 - SEAL TEAM TEN
10. **878** dives for N32253 - NAVSHIPYD & IMF PEARL HARBOR



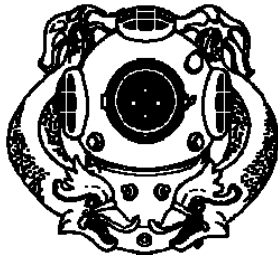


Top 15 Dive / Jump Reporting System (DJRS) Questions

CWO3 Jeff Annon

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- 1) Is the Dive Jump Reporting System (DJRS) tied to PSD for pay purposes? The short answer is no. The DJRS falls under the Privacy Act and the information cannot be solicited by PSD from the Naval Safety Center for the purpose of proving dives for an individual. The individuals command is responsible to PSD for dive pay letters and proof of completion of dives. In this case, reports generated from DJRS (Smooth Log/Individual Dive Log) can be used to prove members of the command have completed required dives for pay purposes.
- 2) Is it mandatory that we use the DJRS system? Yes, all Department of Defense diving commands (including civilian government employees) are mandated by the U. S. Navy Diving Manual; Rev 6 to use this program for reporting.
- 3) Do I have to have a Web Enabled Safety System (WESS) account before I can be entered into the system? No, you do not have to have a WESS account in order for your information to be stored in the DJRS however, if you want to access the program for the purpose of viewing your own information, you will have to have an account. DJRS command unit managers will set roles and privileges as he or she sees fit for this purpose.
- 4) Are recompression treatments recorded in DJRS? No, once the dive becomes a treatment all information is then transferred into WESS and treated as a mishap report. Inside tenders that participated in the treatment are recorded in DJRS as "Inside Tender" for hyperbaric treatment. This is no different from the old DRS system.
- 5) Are we still required to keep hard copy Smooth Logs? Yes, at a minimum, three years of dives must first be logged into the DJRS. Once the DJRS has been in place for a full three years, commands may then decide to eliminate the paper copy of smooth logs. Electronic copies will be accepted by the Naval Safety Center during diving safety survey's once three full years of dives are recorded.
- 6) If my computer crashes will I lose all my command information? No, the DJRS is a web based system that has multiple servers located in separate areas. If the Naval Safety Centers main server were to crash, the information will be located on one of the alternate servers.
- 7) How do I request a WESS/DJRS account? You can visit the Naval Safety Center web page and view a Power Point lesson that explains how to set up the account. The lesson is pasted on the diving page where survey check lists are located.
- 8) How do I submit recommendations or changes to the system? There is a feedback button on the left hand side of the DJRS homepage that can be used for all recommendations or trouble calls.
- 9) If by mistake I created a duplicate account, can I delete that account? No, if this occurs you have not followed specific instructions to prevent this. All entries to start new accounts must be entered by clicking the "modify existing account" feature. If you failed to do this, our DJRS Manager will take the system down to delete duplicate accounts. **** It is imperative that DJRS users who are responsible for initial account entries use the feature above to prevent duplicate accounts!**
- 10) Do you have to be a diver or jumper to use the system? No, commands can elect to have non divers and jumpers enter information into this system. Those individuals will have to have a WESS/DJRS account just like all other users of this system.
- 11) Can I be in more than one chain of command or command? No, you will only be allowed to use one UIC/RUC for access into the system.
- 12) How long is personal/command dive history stored? As it stands right now the records will be stored indefinitely. Currently, the DRS diving records are held for 31 years and mishaps are held for 41 years.
- 13) Will dives in DRS be migrated into the DJRS? Yes, dives prior to the DJRS release date will eventually be migrated into the DJRS system. A message will be released to all DJRS users when this occurs, and specific instructions will be given at that time for individuals to verify this process was completed successfully.
- 14) Do I have to have a CAC reader to access the system? Yes, a CAC reader is required to access WESS/DJRS.
- 15) Do I have to have a NMCI computer to use the system? No, if you can gain access to the internet and have a CAC reader on your computer, you can gain access to this system.



DRS / DJRS



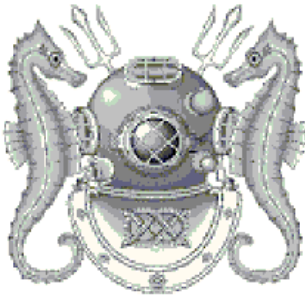
NDC (DSW/SW) Mike Smith
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As I am sure you have heard, the Dive Reporting System (DRS) is being replaced with a new and greatly improved program. The Dive Jump Reporting System (DJRS) will be coming on line May 2008. With that said, all outstanding DRS files need to be sent to the Naval Safety Center as usual until a message is released stating the move to DJRS and the discontinued use of DRS.

Members of the Naval Safety Center are traveling throughout the fleet performing training on the new reporting system and we have had great success with attendance. Our Safety Center subject matter experts (SME) know that you might have a lot of questions and we are here to assist. Just send an e-mail to safe-divesalvage@navy.mil with your questions and we will reply to you as quickly as possible. Stay safe.

NDC (DSW/SW) Mike Smith (smitty)



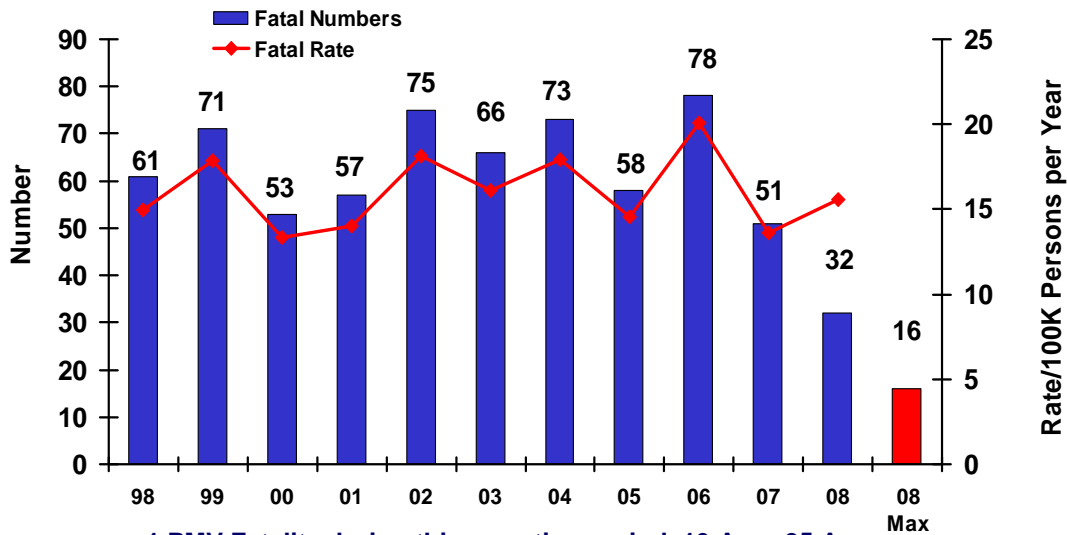


Traffic Safety

These are the statistics as of 23 April 2008:

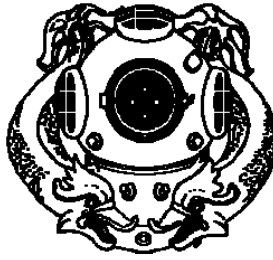


PMV FATALITIES



1 PMV Fatality during this reporting period 19 Apr - 25 Apr

| | | |
|---|------------------|------------------|
| | <u>23 Apr 08</u> | <u>23 Apr 07</u> |
| CLASS A FATALITIES/FATALITY RATE FY COMPARISON: | 32 / 15.58 | 25 / 11.82 |
| FY07 FATALITIES/FATALITY RATE: | 51 / 13.60 | |
| 10-YEAR AVERAGE (FY98-07) FATALITIES/FATALITY RATE: | 64.3 / 16.06 | |



From The Fleet

This is where we here at the Naval Safety Center would like to hear from you about safety issues or concerns in the community. Anyone is welcome to submit an article. Just send it to safe-divesalvage@navy.mil

Thank You,
Naval Safety Center
Diving Division

