

Generic Boatshed Risk Assessment

This document should be read by all persons using the boatshed owned by Totnes Sub-aqua Club and will be made available to all club members via an annual distribution and on the club website.

It is the user's responsibility to carry out a risk review prior to using the boatshed, based on this generic risk assessment, plus consideration of prevailing conditions. If conditions change such as to be significantly different from those applying at the time the original assessment was undertaken, then the user shall reassess the situation accordingly. Hazards should be continuously monitored and the user should be prepared to put any contingency plans into place at any point during the operation being undertaken in the boatshed.

Standard Controls

This risk assessment shall be read in conjunction with Totnes Sub-aqua Club's compressor and mixed gas blending risk assessments. However, general hazards associated with the compressor which could impact on users of the boatshed are repeated herein.

No smoking is permitted within the boatshed. Boatshed roller door to be kept open when shed in use.

Fire extinguishers are provided in the boatshed, adjacent to the pedestrian door and by the compressor. These shall be kept in service and shall be checked regularly to ensure that there has been no loss of pressure.

The boatshed should be kept tidy to minimise the trip hazards and also to reduce the potential fire hazard.

A smoke detector system with external sounder has been installed to provide warning to adjacent occupiers should a fire occur when the boatshed is unoccupied. This should be tested regularly to ensure that it is operational.

As far as practicable, petrol storage should be limited to the boat fuel tanks, with spare fuel cans being filled immediately prior to diving expeditions. Fuel cans should be stored away from potential sources of ignition.

Only competent trained persons shall operate the compressor.

Oxygen decanting only to be carried-out via the mixing panel and the boatshed roller door must be fully opened during decanting and/or operation of the booster pump.

Nitrox/trimix blending shall only be undertaken by approved gas blenders holding an appropriate gas blending qualification.

During the initial stages of the Coronavirus (CV-19) pandemic, additional precautions were implemented. Currently the risk of serious Covid infection has reduced to a level where these measures are no longer required but will be reinstated if government advice changes. However, it

is for individual members to decide how comfortable they are with the relaxation of the Covid precautions and to apply/request additional measures as they see fit. ~~Where possible only one person should enter the boatshed at any one time. If more than one person is required to enter the building, face coverings should be worn until the main door is opened and the area has been well ventilated. Social distancing should be maintained in accordance with prevailing government guidance. Hand gel dispensers are located adjacent to the pedestrian door and by the compressor and should be used on entering and leaving the boatshed and before and after touching equipment. All compressor controls that are routinely handled should be cleaned regularly with alcohol based antiseptic wipes and allowed to dry before use and cleaned again after the equipment is closed down. Compressor operators should avoid touching or otherwise contaminating the outlet of the filling whips that connect to cylinders for filling. Compressor, boatshed door bolts, door handles, light switches and other contact surfaces to be wiped down with disinfectant wipes after use.~~

| Hazard: | Risk of: | Risk Evaluation: | Controls: | Immediate measures to deal with consequences if risk does occur: |
|---|---|-------------------------|---|---|
| Carbon monoxide poisoning from Shogun exhaust | Injury/death | Medium | Shogun engine only to be run in boatshed if main door open. If possible, move Shogun outside boatshed if necessary to work with engine running. Do not run compressor when Shogun engine is on. | First Aid to be administered. Hospitalise as required. |
| Compressor/bank cylinders/mixed gas blending system | Serious injury or death to compressor operator or persons in vicinity; damage to property | Medium | System to be maintained/inspected in accordance with Written Scheme of Examination (WSE). Compressor operator to inspect for visible damage prior to use. If any damage noted, system should not be used and Equipment Officer to be advised. | First Aid to be administered. Hospitalise as required. |
| Cylinder failure/explosion | Serious injury/death to compressor operator/persons in vicinity; damage to property | Medium | Only cylinders that are in test should be filled. Cylinders that are in poor visual condition or whose test date/markings are obscured should not be filled. | First Aid to be administered. Hospitalise as required. |
| Electrical systems | Injury/death; fire | Medium | All electrical equipment to be fitted and maintained by a suitably qualified electrician and installed to current regulations. Must be capable of operating plant and machinery without overloading the system. No modifications or | First Aid to be administered. Hospitalise as required. Instigate fire plan as |

| Hazard: | Risk of: | Risk Evaluation: | Controls: | Immediate measures to deal with consequences if risk does occur: |
|---------|--|------------------|---|--|
| | | | <p>alterations other than by suitably qualified electricians. Appropriate safety “cut-outs” to be installed as part of system.</p> <p>Avoid operating electrical systems, including reconnecting boat and Shogun battery chargers, with wet hands.</p> | <p>necessary (see “fire” below)</p> |
| Fire | Serious injury/death; damage to property | Medium | <p>Main boatshed door to be kept open when boatshed in use.</p> <p>Person noticing fire to arrange evacuation of boatshed and Community Centre. Bidwell Brook School and Robins’ Respite Centre reception to be advised of fire, as appropriate.</p> <p>A smoke detector system with external sounder has been installed to provide warning to adjacent occupiers should a fire occur when the boatshed is unoccupied. This should be tested regularly to ensure that it is operational.</p> <p>Fire extinguishers are provided in the boatshed, adjacent to the pedestrian door and by the compressor. These shall be kept in service and shall be checked regularly to ensure that there has been no loss of pressure.</p> <p>As far as practicable, petrol storage should be limited to the boat fuel tanks, with spare fuel cans being filled immediately prior to diving expeditions. Fuel cans should be stored away from potential sources of ignition.</p> <p>The boatshed should be kept tidy to reduce the potential fire hazard.</p> | <p>If unable to extinguish fire with fire extinguishers, evacuate building. Contact emergency services – they should be advised of presence of compressed gas cylinders and boat fuel.</p> |

| Hazard: | Risk of: | Risk Evaluation: | Controls: | Immediate measures to deal with consequences if risk does occur: |
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| | | | No smoking is permitted within the boatshed. Oxygen cylinders to be kept in external store and not in boatshed. Oxygen decanting only to be carried-out via the mixing panel and the boatshed roller door must be fully opened during decanting and/or operation of the booster pump. Oxygen cylinders to be isolated from mixing panel by turning off the cylinder valves in the external gas store on completion of each blending session. Signage to be provided to identify presence of flammable liquids and oxidizing agents. | |
| Fragile roof | Serious injury/death | Medium | No one to access roof without proper crawl boards. Signage to be provided to identify fragile roof covering. | First Aid to be administered. Hospitalise, as required. |
| Lifting shots, dive gear, etc | Injury | Medium | Care to be taken to use correct posture to avoid placing un-necessary strain on back when lifting heavy shots or other equipment or heavy dive gear, e.g. twinset. Members to give due consideration to their physical ability to lift a load safely and to refuse/ask for help as appropriate. Lift to be undertaken by more than one person where practicable. | First Aid to be administered. Hospitalise, as required. |
| Person falling from loft ladder or when getting into/out of boats | Serious injury to individual or any person beneath them | Medium | Users to ensure they are never beneath someone who is climbing up ladder or entering/exiting boats. If using ladder keep three points of contact wherever possible. Use trailer stepping points when getting into/out of boats. | First Aid to be administered. Hospitalise, as required. |

| Hazard: | Risk of: | Risk Evaluation: | Controls: | Immediate measures to deal with consequences if risk does occur: |
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| Gas under pressure | Injury from flying debris/flailing hoses and fittings | Low | Only trained competent persons to operate compressor. Compressor operator to inspect charging whips for visible damage prior to use. If any damage noted, whip should not be used and Equipment Officer to be advised. | First Aid to be administered. Hospitalise as required. |
| Asbestos cement roof | Injury (asbestosis) | Low | Asbestos cement does not present a problem unless disturbed. No work to be undertaken on roof unless appropriate method statement and procedures in place. If a/c requires disposal, it should not be broken and should be disposed of to an appropriately licensed disposal facility. If broken, appropriate PPE to be worn, and material to be bagged and sealed prior to disposal. | |
| Injury from falling cylinders | Injury to compressor operator/persons in vicinity | Low | Divers to avoid leaving cylinders standing upright other than local to compressor, particularly if unattended. | First Aid to be administered. |
| Moving boats – loss of control/crush injury | Injury to diver/general public | Low | Dive Manager/tower to ensure that everyone is familiar with procedures for hitching/towing of boats. General public to be kept clear of immediate area during these operations by means of tape barrier, use of “banksman”, or other appropriate method. | First Aid to be administered. Hospitalise, as required. |
| Noise | Hearing damage | Low | Compressor is located within noise attenuating housing. If it is necessary to operate compressor without housing (e.g. for maintenance inspection) ear defenders to be worn by compressor operator and any persons rendering assistance/working in vicinity, as appropriate. | |

| Hazard: | Risk of: | Risk Evaluation: | Controls: | Immediate measures to deal with consequences if risk does occur: |
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| Storage banks | Serious injury | Low | Storage banks to be securely fixed to wall. If it is necessary to move a bank, the lift should be fully planned and only undertaken with the correct equipment and training. | First Aid to be administered. Hospitalise as required. |
| Trailer maintenance – jack failure | Injury | Low | Equipment officer to ensure that any individual working on boat trailers is familiar with trolley jack operation and provides secondary means of support in case of jack failure. | First Aid to be administered. Hospitalise, as required. |
| Trips, slips and falls | Injury; damage to equipment | Low | The boatshed should be kept tidy to minimise the trip hazards. Users to be aware that floor of boatshed is prone to flood in heavy rain if external drain blocks and can also become wet when boats washed down, and wet concrete is slippery. In the case of cold weather, all users should exercise extreme caution, as there is a risk of icy walking surface. Water supply to be isolated at stop tap above sink if freezing conditions forecast. Divers should exercise caution when carrying diving equipment. | Remove casualty from danger and administer first aid. Hospitalise, as required. |
| Coronavirus | Exposure to/transmission of virus leading to possible acute respiratory tract infection/hospitalisation/death. | Low | Anyone displaying symptoms of virus (persistent cough, fever, shortness of breath, loss of taste, etc) or who has tested positive for virus or has come into contact with confirmed or probable case or has recently returned from abroad to self-isolate and/or seek medical assistance and should NOT attend club activities/boatshed. | |