

Safety Checklist for Diving Operations (CSA Z275.2-20)

Date:	Contractor/Sub Contractor:	
Verified by:	Location:	
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Work Description:					
REQUIRED DOCUMENTS (MUST BE AVAILABLE ON SITE)		Ref: 91-191	Ref CSA	✓ Yes	X No
The Risk Analysis and Daily Dive Plan shall be documented, and discussed in detail with the Dive Supervisor, the divers and the on-site NB Power Owner Representative, at the daily Tailboard session. The Tailboard session log will be signed by all workers who attended the Tailboard session, and the log will be available on site.		307-310	4.3.1		
Verification that the members of the dive team are certified and current as an unrestricted surface-supplied dive supervisor, diver, back up diver and dive tender. (Diver Certification Board of Canada- DCBC cards to be available) Copy of Standard 1st aid/CPR and oxygen therapy certificate for each member of the dive team.		304(1)	4.1.2.1.1 4.1.2.1.2		
		304(2)	4.1.2.2		
Copy of divers' medical cunless otherwise stipulat	certificate of fitness (Renewal every 2 yrs. up to 39 years old, ted. Annually thereafter)	301(3) 301(4)	4.1.1.1		
	safe diving procedures including emergency procedures, w to recover the diver and an un-responsive or unconscious	331	4.3.1		
	Hospital □ Physician □RCMP/Police □ Occupational	316-317	4.3.5		
A copy of the emergency line signals that will be used between the diver and tender in the event the 2-way voice Communications malfunction, is to be posted		329	4.3.3		
	or's daily record and the divers' logbooks must be on site	306	Sec. 4.2 4.2.2.1 4.2.2.2		
identified and be onsite (certified Unrestricted Surface Supply Supervisor must be DCBC issued cards) Note: NB Power's requirement to have a we team. Additional personnel may be required following Risk	341(4)	4.3.2		
A Complete set of decompression tables appropriate for the dive. Sport diving tables are not acceptable. Note 1: DCIEM/DRDC decompression tables are often used for this purpose as they reflect current best practice. Note 2: the use of dive computers is not to be considered as a replacement for commercial air diving tables		330(e)	5.1 6.10(d)		
A copy of the Certificate every 6 months and must	of Analysis for the breathing air compressor(s) is required meet the air purity requirements set forth in Z275.2-20. Only from a recognized air testing Lab are acceptable)	318	4.8.2.2		
Maintenance/service records and written materials necessary for maintaining and operating the diving equipment to be used in the diving operation will be available at the dive site.		322	Sec 4.3.6.3		
A copy of all applicable of Z275.2-20 Occupational Competency Standard for site.	neral Regulations 91-191 is readily available CSA Standards shall be on site. At a minimum copies of the Safety Code for Diving Operations and the Z275.4 r Diving, Hyperbaric chamber and ROV Operations shall be on				
License for the vessel/wa instruction in the safe open	of a valid Pleasure Craft Operators Card or Transport Canada attercraft they are operating and has received additional eration of the vessel/watercraft approved by the employer and and the boat is outfitted as per the General Regulation.	Corporate Safety Manual			
REQUIRED EQUIPMI	ENT, CONDITIONS AND ACTIONS	Ref: 91- 191		✓ Yes	X No



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Only surface supplied air diving is accepted at NB Power.	337(1)	4.4.3.2		
Safe means to enter and exit the water. Diving activities from a diving station, more	\ /			
than 5m (16') above the water unless divers are transported through the air/water interface by a suitable stage, ladder, etc. (Belledune has a deviation from WorkSafeNB to use a single diver stage).	331	4.3.4		
Medical Practitioner familiar with the problems associated with diving to be readily available during the period of the dive and for a twenty-four-hour period afterward and. The employer shall ensure that arrangements are made with one or more physicians, either with the physicians directly or with a medical facility employing physicians, who are knowledgeable in diving and hyperbaric medicine so that any medical advice or support that could be required is available whenever (a) a dive that involves decompression is carried out; or (b) a dive to a depth greater than 30 m (100 ft) is carried out using techniques other than those of atmospheric diving.	316(2)	4.5.2		
Personal dive equipment is free from defect and maintained in accordance with manufacturers recommendations and specifications that will ensure its continuing operating integrity for the purpose and depths for which it was designed.	322(1)	6.1.1		
Dive site shall have a mean of safely recovering an unconscious or injured diver from the water.		4.3.5		
Approved 1st aid kit appropriate for the size of the dive team including an oxygen therapy kit with sufficient capacity to reach medical services, stretcher and blankets, hot beverages, etc.	330	Sec. 5.2.6		
Shot line of 19mm manila or material of equivalent strength and length to reach the bottom at the max depth	330(b)	6.10(b)		
Fire extinguishers are available at the dive base				
Are the boundary limits of the diving operations clearly defined by buoys, flags, etc.	313(1), 313(2)	Sec. 4.3.9		
Have Delta P ($P-\Delta$) hazards must be identified before the dive begins? Is there a chance of a DELTA P diving circumstance? Has it been tested for prior to the dive? (Differential pressures - Delta P -are created when two bodies of water intersect, each with a different water level, such as at a dam. The forces can be considerable when the water flows from a high pressure area to a low pressure area. A diver working on the high pressure side may be drawn into the flow and trapped. Serious injuries or death may occur.)	314	Sec 4.4.3.1		
Has all <i>non-diving</i> equipment that could be hazardous to a diver, been de-energized, isolated, locked and tagged?	314	Sec. 4.4.3.1		
Adequate number of flags and/or buoys to mark off the dive site and alert boaters and other vessels that diving operations are taking place and to stay clear.		4.3.9.1		
SURFACE-SUPPLIED DIVING CREW REQUIREMENTS	Ref: 91- 191		✓ Yes	X No
Minimum crew: A minimum crew of four workers shall be present at all times during diving operations, one of whom shall be a diver, one standby diver, one diving supervisor, and one diver's tender. All crew members will have current and in-date certification by the DCBC, in the applicable category	304(1) 341(4)	Sec. 8.2.1		
The diving supervisor shall ensure that the standby diver is (dressed in) and has adequate diving and communication equipment checked, ready, and at hand, having regard to the depths and circumstances in which the standby diver would have to operate should a rescue become necessary.	Definition 300 317	4.3.7		
The Dive Tender must tend the diver's umbilical at all times during a dive.	326(b)	8.2.2 6.7(c)		
Personal dive equipment is free from defect and maintained in a condition that will ensure its continuing operating integrity for the purpose and depths for which it was designed.	322(1)			
SURFACE-SUPPLIED DIVING EQUIPMENT	Ref: 91- 191		✓ Yes	X No
A diving company and their supervisor shall ensure that all diving plant and equipment is maintained and operated in accordance with the manufacturers recommendations.	322	4.3.6		
Umbilical — a composite hose/cable or separate cables, extending from the surface to the diver or to the pressure vessel of occupancy by the diver, that supplies any combination of breathing gas, power, heat, pneumofathometer, communications, and a strength member as required. The standby diver's umbilical will be at least 3 meters or 10 feet longer than any diver's		Sec 8.3.6		
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strength of no less than 8900 N (2000lbs.)				
Primary breathing air supply for surface-supplied diving there must be a sufficient quantity of breathing air to complete the dive as planned.		4.6.1.1		
Secondary breathing air supply (for use in emergency) for a surface-supplied dive there must be a sufficient amount of breathing air to enable the diver to safely return to the surface in accordance with any decompression commitments and procedures for the dive.				
A bailout system shall be worn by the diver, with a minimum volume of 50 ft ³ . Volume may be increased based on the Risk Analysis.	341(6)	4.6.3.2		
Effective 2-way voice communications between all divers (including Stand-by diver) and the diving supervisor the radios shall produce a sound quality sufficient for the divers breathing to be clearly heard.	328(2) 341(9)	6.8.1 8.3.9 6.8.3		
In the event of a power failure there must be a secondary source or backup power source for the diving system equipment	324	6.1.2		
Each diver must be equipped with a diver's harness that meet s the criteria of CSA Z275.2-20 sec.8.3.5		8.3.5		
GENERAL REQUIREMENTS	Ref: 91- 191		✓ Yes	X No
All above surface dive personnel to wear appropriate PPE	Part VII			
All gas cylinders appropriately fastened to prevent falling	76(1)	12.6 6.12.4		
All engine exhausts appropriately distanced from air compressor intakes.		6.3.2 11.11(b) 8.3.11.5.1		
COMMENTS:				

The Safety Checklist shall be used prior to diving operations commencing on site In the event that a piece of dive equipment/dive plant equipment or if a member of the dive team is changed, then the safety checklist for diving operations is to be re-conducted.