



# SHAPE SAFETY BULLETIN #17

(Safety & Health In Arts Production & Entertainment)

## WATER HAZARDS

The following procedures are recommended for all water work, including, but not limited to: ponds, rivers, lakes, swamps, bogs, oceans, pools, and tanks, or any other unduly wet work environment.

1. When working on a body of water is contemplated, the Producer should identify and make known prior to actual filming, all available knowledge regarding currents; and natural and man made hazards, including sub-surface objects, underwater life and contamination. Upstream activities, such as dams, waste disposal sites, agriculture, chemical plant dumping sites, flash flood dangers, etc. should also be evaluated

If a potential safety hazard is found to exist, the Producer should take appropriate steps to mitigate the hazard, **providing written rescue and evacuation procedures as appropriate.**

2. Prior to personnel entering a body of water, a determination should be made that the water quality meets the applicable regulatory standards for "recreational full body contact". This determination may be made by one or more of the following: direct water sampling, contact local health authorities and/or detailed other knowledge of the uses and water sources supplying the body of water. Water sampling results and acceptable water quality criteria shall be made available upon request.

**NOTE:** When it is determined that a body of water is contaminated or hazardous, the contamination or hazard should be neutralized or the site shall be avoided.

3. Extreme care should be taken regarding dangerous marine life, including reptiles.
4. When necessary for personnel to work in fast-moving rivers, downstream safety pickup personnel and safety equipment should be stationed for downstream emergency rescue.
5. Where boating traffic is anticipated, all precautions, including those mandated by the appropriate authorities, will be enforced. (See Safety Bulletin #15 -*Guidelines for Boating Safety for Film Crews*).
6. All personnel scheduled for water work shall be notified in advance via the Call Sheet. Personnel who are uncomfortable working in or around water should notify their supervisor prior to that day's call.
7. All personnel working in or around water shall be provided with the appropriate water safety devices. (See Safety Bulletin #7-*Scuba Equipment Recommendations for the Motion Picture Industry*).
8. The Producer should take steps to prevent hyperthermia (elevated body temperature) and hypothermia (reduced body temperature).

**Safety Bulletins Are Recommended Guidelines Only; Consult All Applicable Rules and Regulations**



9. All personnel should be advised to keep all potential contaminants away from the water. This includes: paints, thinners, repellents, gasoline, oils, etc.
10. Provisions for post-immersion washing should be available.
11. When necessary, the Producer should implement a plan to account for personnel in the water, such as a "buddy" or a check in/check out system
12. Special care must be used whether AC or DC electricity is used in or around water. All electrical cables and lights in close proximity to water shall be properly secured to prevent tipping and falling. All wiring, electrical equipment and devices that will, or may be, subject to a submerged condition should be approved for underwater use, be watertight, have no exposed live connections and be constructed such that there is no shock hazard under any likely conditions of use. All applicable provisions of the **British Columbia Electrical Code Regulation (BCECR)** should be followed. Local regulations may be more restrictive and should be consulted. Further information on electrics in BC can be found at [www.safetyauthority.ca](http://www.safetyauthority.ca).
13. AC electrical-supplied equipment that will be used in or around water should be protected by an approved ground-fault circuit-interrupter (GFCI) intended for the protection of personnel.
14. All electrical connections should be made by, or under the supervision of, a qualified person. (See Safety Bulletin # 23 – *Guidelines For Working With Lighting Systems And Other Electrical Equipment*)

