UAF CFOS Department of Fisheries

Small Boat Safety Vanual

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1. OVERVIEW

Small boat operations involve certain risks that must be addressed prior to beginning any fieldwork. Knowing what equipment is required to be on the boat, the rules of the road, understanding the weather and its elects on the marine environment, and even the variations in operating one type of boat compared to another are all obstacles that must be overcome in order to minimize the risks to those on board, as well as maximizing election.

The operator shall be familiar with the operation of the equipment and shall inspect all emergency equipment prior to departure (see Appendix IV for a list of required equipment). Special attention should be given to Personal Flotation Dev

- 1. Perform a functional inspection of the boat and all equipment.
 - a Ensure the plug is in the drain hole on the transom
 - b. Check all fluid levels in the vessel.
 - c. If you are using a jet boat, grease the jet unit.
 - d. Conduct a vessel "walk around."
 - e. Check for all safety equipment, including PFDs and communications equipment.
- A ssess all environmental risks, including weather conditions, river/lake/sea conditions, and so forth.
- 3. Inform all passengers of emergency procedures, to include man-overboard, fire, and abandonment and methods for seeking assistance.
- 4. Inform all passengers of the location of emergency equipment including PFDs.
- 5. Complete a verbal risk assessment with all passengers, to discuss additional hazards and appropriate precautions for the particular environment, weather and objectives of the operation.
- File a COMPLETE Float Plan with a responsible shore contact person (see Appendix I). Please note: All the information on the Float Plan is required. Do not leave sections blank, this document is your lifeline, take the time to complete all information. Leave one copy of the Float Plan with a responsible party.

39.2 While Underway

It is expected that all operators and passengers will adhere to the guidelines in the safety manual and follow boating rules of the road. This includes, but not limited to, appropriate and safe behavior, PFD usage, and remembering you refiresent the UAF Department of Fisheries when you are on the water and in transit.

Conduct all pre- o

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- 2 Secure lines in the boat so they won't get caught in a trailer wheel
- 3. After hooking up the trailer check the following:
 - a. The hitch is secure and the lock/pin is in place.
 - b. The trailer chains are crossed under the hitch and secured so that the end of the hook is facing the
 - c. The emergency brake cable is secured to the vehicle with the end of the hook facing the boat.
 - d. All of the lights are functioning properly.
 - e. The tires are properly inflated (NOTE: recommended psi depends on the specific boat & trailer). Check for a spare tire and make sure it is inflated properly.
 - f. The trailer jack is fully raised or stored prior to driving
- 4. A spotter standing outside of the University truck when a trailer with or without a vessel during backing is required. The spotter should always stay in the driver's sight.

Before backing the trailer into the water check the following items

- 1. Drain plug(s) are installed.
- 2 The securing straps on the back of the boat have been removed.
- 3. Disconnect the trailer lights.
- 4. The battery switch has been turned on (if applicable).
- 5. The fuel switch is in the on position (if app."
- 6. The trailering lock is o (if the trailer has
- 8 All of your gear has been loaded into the b dy to be lower 5... you are ready to dep.

Once the boat has been backed into the w t**h**e at and get it started or Jnce the enc₄ du maw ot ti wolla b briefly until you are confident that it will not stall.

Vind and currents

be considered on your

ecurity chain pull out

tion.

Retrieving the boat can be discult if the conditions approach to the trailer. Once you have the boat on the secured by the wir and into the prep area and do the following:

- 1. Secure the rear of the boat with the straps.
- 2 Raise the engine, lower the trailε aine into th∽ '

ાષ્ટ્રદુધુelf there is a kidker motor on the l α e motor is locked in the Sown position. Score vessels will nate attending.

Administrative Manager of the Lena Point Building will contact the appropriate Risk Management personnel. The boat operator will be required to give a full written accounting of the accident/incident. In the event of an accident or incident, the Boat Safety Committee will determine continued approval to serve as a boat captain on a case-by-case basis.

Definitions

Incidents are defined as events that result in minor injuries (cuts and scrapes) or "cosmetic" damage to vehicles or vessels (dents and scratches that don't a ect the operation of the vehicle or vessel.) Incidents also include near misses, such as when a situation occurred that could have led to an accident, which should be reported as well.

Accidents are defined as events in which a serious injury requiring medical attention beyond basic first aid occurred. An accident is also defined as a situation where major property damage occurred.

Reporting guidelines and resources

- Any accident and or incidents no matter how minor are required to be reported to the Administrative Manager of the Lena Point Building and/or the Chair of the Department of Fisheries within 12 hours of occurrence. Failure to report injuries within this time could result in Worker's Compensation claims being denied.
- Any accident resulting in a fatality must be reported to the Administrative Manager of the Lena Point Building and/or the Chair of the Department of Fisheries immediately after emergency personnel have been contacted.
 - 3. Reporting should follow the flow chart in Appendix II.

APPENDICES

Appendix I Department of Fisheries Float Plan (2 pages)

Appendix II Incident and Accident reporting

Appendix III Boat Operator Statement of Responsibility

Appendix IV Mandatory Safety Equipment

Appendix V Skills Descriptions and Checklist (5 pages)

DEPARTMENT OF FISHERIES FLOAT PLAN

Instructions for use

This 2 page document is for your benefit and is required. In the event of mechanical diculties, weather related problems, or other boating hazards, having a plan and the proper equipment to deal with these issues can make a huge dicernce in the outcome. Fill out this form completely and leave it with a responsible party on shore. In the event your return is delayed and communications are lost, this shore party should activate the appropriate response as detailed on this form. It is recommended that you bring a second copy with you in the boat. Please be specific in the areas you will be operating in.

Namea	and description of vesse	l:			
Purpos	e of trip:				
Operato	or Name:	Te	ephor	ne#:	
Local a	oddress				
Princip	al Investigator/Academ	icAdvisor/Supervisor		C	on board?
	SURVIVAL a	nd SAFETY EQU	JI PN	/ENT (Check as appr	opriate)
Mor And Baili Com Food	ng Device pass and Charts I ////atter	Tool kit First-aid kit		Bell/whistle/hom* Cell phone (#: Exposure Protection Fire Extinguisher*1 Satellite phone * required equipment 1 see USCG regulations	s for details
		NOTIF	ICA	TION	
Shore (Contact			Phone#	
lfnoα	ontact is made with Sho	re Contact by:		(time), the contact will:	
	IN JUNEAU: Call t	he Coast Guard Juneau (Cam	nand Center at (907) 463-200 0	After contacting
	the Coast Guard, call	the Administrative Manag	er.		
	IN OTHER AREAS	: Call the Alaska Rescue	•Coor	rdination Center at 1-(800)-420	0-7230. After
	contacting the Coast (Guard, call the Administra	tive Iv	lanager.	
<u> </u>	FOR TRIPS OVERN	IGHT: the Shore Contact \	νill b∈	contacted each day by the	

DEPARTMENT OF FISHERIES FLOAT PLAN TRIP DETAILS

Departure Date	Time:	Return Date	Time:				
Departing from		Returning to:					
Planned Activity (Include all destination(s) including planned route):							
Latest Time of Return:							
Other travel notes							
Weather Considerations Forecast:		Source:					
Wind conditions							
Sea conditions/Tides and/or	River conditions/Discha	arge levels					
Any current weather advisor	ies?						

Personnel on board

Name	Gender	Age	Phane#	Emergency Contact (name, phone)

Incident and Accident Reporting



APPENDIX III

Boat Operator

BOAT OPERATOR STATEMENT OF RESPONSIBILITY

I understand that as a designated boat operator I am responsible for all aspects of boating operations, regardless of
the presence of any senior sta or faculty in the boat. These responsibilities include, but are not limited to, the safe navigation of the vessel to and from the site(s) of operation, the safe operation of all equipment, safe transport of the vessel to and from the launch site, insuring that all required operational and safety equipment is on board, and
enforcing safe behavior of all persons on board. I have thoroughly read and understand the contents of the Small Boat Use & Safety manual.

DATE:____

Print, sign and submit to the Administrative Manager before operating any boats.

MANDATORY SAFETY EQUIPMENT

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must contain power-operated exhaust blowers controllable from the instrument panel.

One approved device on each carburetor properties approved device on each carburetor properties of the proved device on each carburetor proved approved device on each carburetor proved approved device on each carburetor proved device proved

* When fixed fire-extinguishing system is installed in machinery spaces, it will replace one B-1 type portable fire extinguisher.

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APPENDIX V.

AIVSEA Vessel Operation Drill Sets, Certification Skills and Checko List

RB	Drill	Sets
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RB Drill Sets
Verbalize ALL Throttle And Direction Changes, Wait for Receive Crew Responses.
 Slalom Course Figure Eights Object Avoidance/Advance & Transfer Stopping Distance (Safe Speed)
+++++++++++++++++++++++++++++++++++++++
1. Slalom Course Set 3 or 4 buoys in a straight line, approx. 2 boat lengths apart each.
Return
1. Begin Bow-on to first buoy 2 Back thru all (engines trimmed up lifts stem) 3 Variations 1 – 2 engines 4. Bow thru all both engines
(Engine(s) Trim, Advance and Transfer, Wheel & Throttle Ctrl, CrewPositioning and Help, Lookouts, Close Otrs.,
+++++++++++++++++++++++++++++++++++++++
2 Figure Eights 8s Set buoys approx. 200+ yards apart
 Begin 8s at minimum planning speed. Turn as tight around buoys as possible. Increase speed by approx 500 rpms and control max. to short of hooking a chine. This is NOT an E or J turn but continuous turns.
(Handson Wheel & Throttle, Centrifugal force, Advance and Transfer, Trimand Throttle, Safe Turning Speed, Verbalization, CrewPositioning Lookouts assigned)
++++++
3 Object Avoidance/Advance & Transfer Set one buoy/fender for run

or

Certification of operators is intended to assure that any person who operates a NOAA small boat has passed minimum criteria relating to knowledge and skill. The wide range of operational risks inherent in the vast array of NOAA small boat operations dictates that field activities