UAF CFOS Department of Fisheries



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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 electory in data collection.

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

V.	L	e cende Ce		0	fi ter t °° L ikke r emb µ	mb
		1.	Perform a functional ins	pection 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."

O

- e. Check for all safety equipment, including PFDs and communications equipment.
- 2 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.
- 6 File a **COIVPLETE** 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 WhileUnderway

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

Confiduct all pre-o

- 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 boat.
 - 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 apr
- 6 The trailering lock is o (if the trailer has
- 7. The tilt support lever is up. Motors are up dy to be lower ...
- 8 All of your gear has been loaded into the by you are ready to dep.

Once the boat has been backed into the w	the		a †	and get it started or
secure the boat to a dock before releasing		;	Jnce the eng.	d allow it to warm up
briefly until you are confident that it will not	stall.			

Retrieving the boat can be di cult if the condit approach to the trailer. Once you have the boat and into the prep area and do the following: 1. Secure the rear of the boat with the str	ont	Mind and currents æcured by the wir	ve considered on your ecurity chain pull out
2 Raise the engine, lower the traile Constraint a sider motor on the table Constraint a sider motor on ta	ck, cui	aine into the '	tion. e motor is locked in the ∵ <_2

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

<u>Definitions</u>

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 lect 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

1. 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.

2 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 (2pages)
- 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 di culties, weather related problems, or other boating hazards, having a plan and the proper equipment to deal with these issues can make a huge di erence 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.

Name and description of vessel:				
- -				
Purpose of trip:				
				
Operator Name:	lelephone #:			
Local address				
Principal Investigator/Academic Advisor/Superviso	r	On hoard?		
	^	Onbodid:		
SURVIVAL and SAFETY E	QUIPMENT (Ch	eck as appropriate)		

PFDs(#:)*	Paddles		Bell/whistle/hom*
Vérking Radio*	Day Signals*		Cell phone (#:)
Monitoring channel:	Night Signals*		Exposure Protection
Anchor	Line (Amount)	FireExtinguisher*1
Bailing Device	Toolkit		Satellitephone
Compass and Charts	First-aid kit		* required equipment
Food /Water			¹ see USCG regulations for details
CFOS equipment checked out:			

NOTIFICATION

Shore C	ontact	Phone#
lfnoco	ntact is made with Shore Contact by:	(time), the contact will:
	IN JUNEAU: Call the Coast Guard Juneau Com	rmand Center at (907) 463-2000 After contacting
	the Coast Guard, call the Administrative Manager.	
	IN OTHER AREAS: Call the Alaska Rescue Coo	ordination Center at 1-(800)-420-7230. After
	contacting the Coast Guard, call the Administrative N	Manager.
000 €⊥	FOR TRIPS OVERNIGHT: the Shore Contact will b	be 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 c	lestination(s) including plan	ned route):	
Latest Time of Return			
Other travel notes			
Weather Considerations			
Forecast		Source	
Wind conditions			
Sea conditions/Tides and/or Riv	ver conditions/Discharge lev	as	

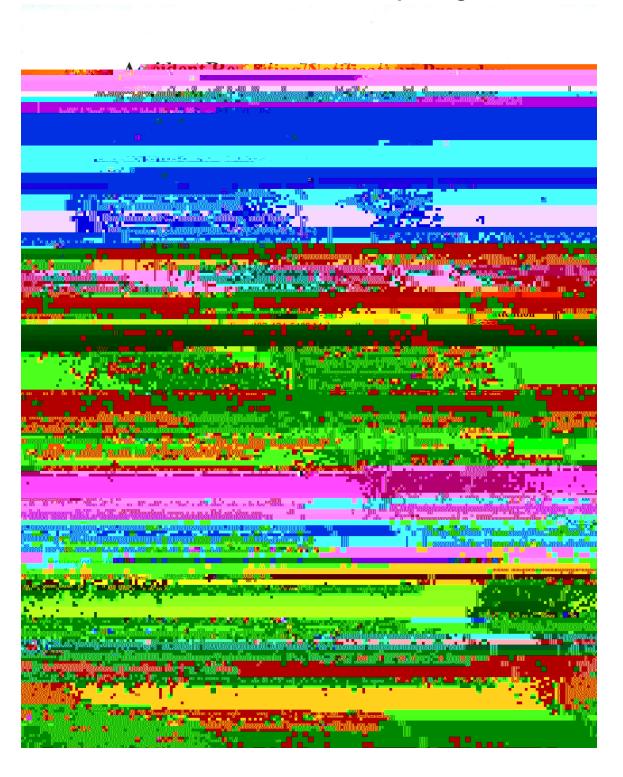
Any current weather advisories?

Personnel on board

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

APPENDIX II

Incident and Accident Reporting



APPENDIX III BOAT OPERATOR STATEMENT OF RESPONSIBILITY

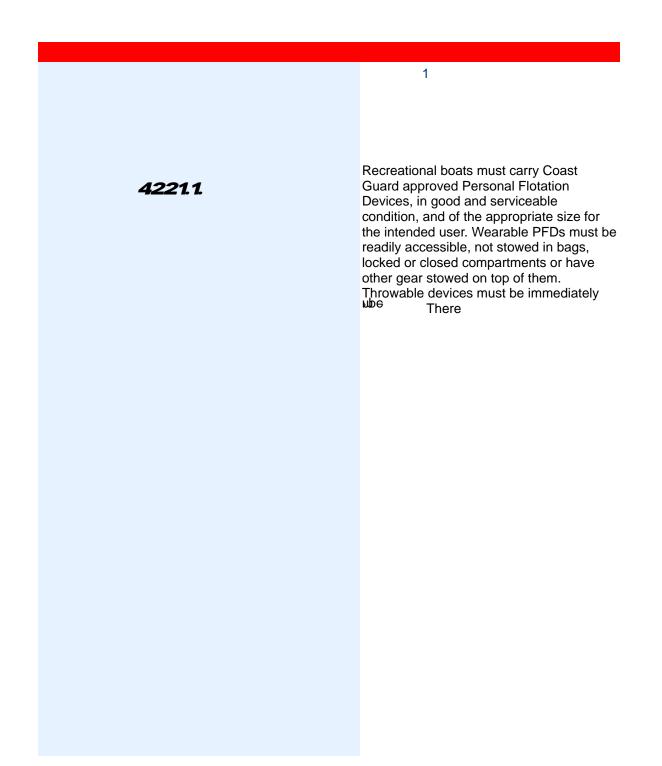
I understand that as a designated boat operator I am responsible for all aspects of boating operations, regardless of the presence of any senior stall or faculty in the boat. These responsibilities include, but are not limited to, the safe navigation of the vessel to and from the site(s) of operation, 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.

Boat Operator

DATE:_____

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

APPENDIX IV MANDATORY SAFETY EQUIPMENT



	must contain power-operated exhaust blowers controllable from the instrument panel.	
	One approved device on each carburetor of all gasoline engines installed after April 25, 1940, except outboard motors. Device must be marked to show compliance with SAE J-1928 or UL 1111 Standards.	
* When fixed fire-extinguishing system is installed in machinery spaces, it will replace one B-1 type portable fire extinguisher.		

Coast Guard minimum equipment requirements vary with the size of the boat, type of propulsion, whether operated at night or in periods of reduced visibility, and, in some cases, the body of water on which it is used. For a more thorough discussion and complete details on how many and what types of equipment you must have aboard your boat, request a free copy of the pamphlet "Federal Requirements for Recreational Boats' from the Coast Guard. For a copy, call their Infoline at (800) 368-5647. Many state requirements go beyond Coast Guard requirements. Contact your state boating office for details. Alaska Boating Safety, http://www.dnr.state.ak.us/parks/boating/pdf/boatrequire.pdf

Coast Guard minimum requirements are just that, minimum.

anchor with sufficient line/chain (at least five times water depth) bailer (bucket) oars or paddles first aid kit VHF radio – Cell Phone extra fuel & water tool kit sun protection flashlight Personal Locater Beacon (PLB) Grab and go Survival container

APPENDIX V. AVSEA Vessel Operation Drill Sets; Certification Skills and Checko List

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

Begin... Bow-on to first buoy
 Back thru all (engines trimmed up lifts stem...)
 Variations 1 – 2 engines
 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

- 1. Begin 8s at minimum planning speed.
- 2 Turn as tight around buoys as possible.
- 3 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 Turring Speed, Verbalization, CrewPositioning Lookouts assigned)

3 Object Avoidance / Advance & Transfer Set one buoy/fender for run

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