

## GEOTEK Multi Sensor Core Logger Cs-137 User Authorization

Authorized User: Gary Dwyer	Authorization Number: GD 123009	
Institution/Organization and Department: Duke University, Earth and Ocean Sciences	Date Approved: 12/30/09	
Research Vessel/Field Location: R/V Knorr	<b>Authorization Dates:</b> 02/18/10- 03/11/10	

## **Conditions of Authorization:**

- A copy of this Authorization shall be posted in the work area.
- A copy of the Radiation Safety Manual must be available in the work area.
- All applicable requirements of the Radiation Safety Manual must be followed.
- Operators must be made aware of the declared pregnant women program.
- Operators must be made aware of authorization requirements for At Sea/field use (RSM Appendix D).
- Door must be posted with the radiation symbol and the words "CAUTION, RADIOACTIVE MATERIALS".
- All operators must receive annual radiation safety training which includes identification of external radiation hazards, external exposure controls (ALARA), normal & emergency operating procedures, declared pregnant women program, reports to RSO (lost source), applicable RSM sections (Protocol 10, DPF, Appendix D).
- The Cs-137 source must be adequately secured when in storage or use.
- Leak tests of the Cs-137 source must be conducted by the RSO every 6 months.
- The Core Logger or source containment must be properly labeled with the radioactive symbol and the words "CAUTION, RADIOACTIVE MATERIALS".
- A copy of the operating procedures (e.g., owner's manual) and the emergency protocol must be available to all operators.
- ALARA requirements (e.g., time, distance, shielding) must be followed to minimize operator dose.
- A calibrated, portable dose rate monitoring instrument must be available to all operators using the Cs-137 source. This instrument will be provided and maintained by the RSO.

Approved:	RAK	X	Date: 12/30/90	12/30/90
	RSO/Rad	ation Safety Committee		