

At Sea/In Field Radiation Generating Device Authorization			
Authorized User: Jerry McManus		Authorization Number: JM08052014	
Institution/Organization and Department: Columbia University		Date Approved: 08/05/2014	
·		Expiration Date: 09/22/2014	
Research Vessel/Field Location: R/V Atlantis			Cruise Dates: 08/26/2014-09/11/2014
Isotope(s):	Chemical/Physical Form:		Maximum Activity:
a. Cs-137	a. Sealed source		a. 7.1 mCi
Instrument(s): a. HEG-137(A3000) Serial # IPL MM-053			
Authorized Radiation Workers: Leonard Henry, Martin Fleisher, Kassandra Costa, Gisela Winckler, Florence Chen, Jacob Kremers, Jennifer Middleton, Christina Hernandez			
Authorized Use and Storage Areas: Lab Van			
 Conditions of Authorization: A copy of this authorization shall be posted in the work area. All applicable requirements of the Radiation Safety Manual must be followed. Doors of work areas and storage areas must bear an appropriate 'Radioactive Material' sign. All sealed radioactive sources must be sealed appropriately to prevent or minimize leaks and contamination. All instruments which contain sealed radioactive sources must be properly shielded and labeled at the source. All sealed radioactive sources must be properly secured or under direct control of authorized personnel. Do not attempt to dismantle or compromise the integrity of the source housing. Copies of the latest leak test results must be provided upon request. Any changes in radioactive material, material use or storage areas, radiation, and/or possession limits will require an amendment to your Field Use Authorization prior to initiating your research. 			
Approved:			