AOE DEPARTMENT SAFETY REVIEW FORM FOR **EXPERIMENTAL RIGS**

In the context of this form 'rig' refers to any potentially hazardous piece of equipment whose safe operation requires more detailed instructions and procedures than can be included in the Experimental Workspace Safety Review form for the area in which the rig is housed. Examples include a wind tunnel, laser system, high pressure tank, material testing machine, rotating system.

Before any such rig in the Department of Aerospace and Ocean Engineering is brought into operation, and **at least once per year** thereafter, a copy of this form must be completed, signed and submitted by the responsible faculty/staff member (usually the principal investigator). When an existing rig undergoes modifications which could affect its safety, a new copy of this form must been submitted by the responsible faculty/staff member at that time, and before it is operated again.

Completed forms should be submitted to the AOE Assistant Department Head for Facilities (Michael Philen) and should also be made available to other faculty/staff with relevant expertise, or with direct involvement in the rig or space where it is housed. Any advice resulting from this interaction should be copied to the Assistant Department Head, as well as being transmitted back to the responsible faculty/staff member. Once the responsible faculty/staff member is satisfied that all safety concerns have been met the final version of the form should be signed and submitted and a copy displayed in a prominent position on or adjacent to the rig and on the department safety website. The responsible faculty/staff member may then authorize its operation. Under no circumstances may a rig be operated without a completed, current copy of this form prominently displayed.

Date of form 8/16/2024...... Form expires (no more than 1 year after form date): 8/15/2025......

Name of Rig :	Instron Uniaxial 1	Γesting Frame		
Workspace when	e rig is located	Surge 118E		
			e on the EHS training webs	
Faculty/staff mer	mber responsible f	or the rig and its	s safety: Michael Philen .	
Office Address	213C Randolph Ha	ıll Phone	540-231-2548 E	Email mphilen@vt.edu
1. An evaluation	of the above rig ha	is been perform	ed and the following safet	y risks have been identified (append
details where ned	cessary):			

The machine applies tension and compression to material samples at low speeds. There is a risk of bodily harm if any part of the body is between grips. There is risk of injury if any part of the sample breaks and flies off during testing.

2. The following actions have been taken to minimize those risks (append details where necessary):

When during operation, no part of the body should be within one foot of the grips. Safety glasses should be worn at all times. A sign has been posted.

3. A safe operating procedure has been developed (attach the procedure to this form). This includes protective equipment to be worn, whether users may operate the rig alone and, if necessary, precautions to be taken by others working in the same laboratory. The procedure is in a form suitable for posting on the rig.

The operator must read the product manual provided by the company and must undergo hands-on training.

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 4. Check one and include a list: ☐ The rig may only be operated by the following individuals. ☐ The rig may only be operated under the supervision of the following individuals. (List individuals here)
Graduate students, faculty, and GTAs that have been trained to use.
 5. The above individuals are all registered on the EHS training website at https://secure.hosting.vt.edu/www.ehss.vt.edu/training/training_report.php and have taken all appropriate safety training courses. Their training is current and is recorded on the EHS website, under the above workspace name. The appropriate safety courses are (list here): 1. Electrical Awareness 2. General Laboratory Safety 3. Personal Protective Equipment (PPE) Awareness 4. HAZCOM RTK 5. Portable Fire Extinguishers 6. Lockout/Tagout Awareness
Signature of faculty/staff member responsible for the rig and its safety

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