

Standard Operating Procedures # 10

Lab Name: J.L. Bryan Fire Laboratory

Lab Location: Building: J.M. Patterson (083) Room #: 3216

Laboratory director: Dr. Michael J. Gollner Page 1 of 1

1. Process:	Operation of Fire Whirl setup (with and without water).
2. Hazards:	Flammable liquids: heptane, ethanol, oil, other hydrocarbons. Facility: contained flame, smoke
3. Personal Protective Equipment:	Heat protective gloves. Safety glasses. CO ₂ fire extinguisher.
4. Engineering \ Ventilation Controls:	Do not operate without exhaust ventilation on.
5. Special Handling Procedures Storage Requirements:	Never leave container with flammable liquids or other flammable materials near fire whirl setup. Ensure setup is 100% secure before testing. Fire size should be determined (via mL of fuel) in large fire room before testing in JL Bryan Fire Lab.
6. Spill containment/ Accident Procedures:	Contain spill/glass with spill cleanup materials. Notify the lab manager if there is a large spill. Emergency eyewash shall be used when eye contact occurs. If fire becomes larger than expected it should be extinguished immediately using CO ₂ extinguisher.
7. Waste Disposal	All broken glass (if any from the setup) should be placed in the container.
8. Required Approvals:	Lab workers must be trained by lab manager in proper use of the flammable liquids and heat. Any deviation from this SOP must be approved by the PI and/or lab manager.
9. Decontamination:	If any spill, in spill area.
10. Designated Areas:	Spill area.