Standard Operating Procedures # 12

Lab Name: FM Global Fire Phenomenon Laboratory

Lab Location: Building: J.M. Patterson (083) Room #: 3225

Laboratory director: Michael J. Gollner

1. Process:	Operation of pulsed Nd-YAG laser (532 nm) and water tank.
2. Hazards:	Micro-particle/fluorescent dye: PSL, Rh-6G. Facility: pulsed laser.
3. Personal Protective Equipment:	Safety goggles and gloves with dye. Safety goggles, lattice gloves and dust masks with micro-particles. Laser safety goggles while laser is in operation.
4. Engineering \ Ventilation Controls:	Not applicable.
5. Special Handling Procedures Storage Requirements:	Laser safety barrier/curtains must be closed all around the water tank while the laser is in use.
6. Spill containment/ Accident Procedures:	Stop work if any Rh-6G spills, wash contaminated parts with fresh water and notify the lab manager.
7. Waste Disposal	All residual water+Rh-6G or water+PSL micro-particles should be placed in a special metal can and disposed of according to environmental safety procedures.
8. Required Approvals:	Lab workers must be trained by lab manager in proper use of the Rh-6G dye and PSL micro-particles. Campus laser safety training should be performed before working with the laser
9. Decontamination:	No decontamination needed.
10. Designated Areas:	Water tank.