Georgia Tech Environmental Health & Safety
Fire Safety

151 Sixth Street, Suite 341
Atlanta, Georgia 30332
404-894-FIRE (3473)

Plan Review Summary

Building Information

Project Name:	CNES-Room 128-Adam Steinberg Research Laboratory	Floor/Room #:	1st Floor/Room 128
Building #:	199	Department:	College of Engineering
Occupancy Type:	Business	Budget:	$250,000.00
Construction Type:	IIB	Type of Review:	Construction

Project Management

Project Manager:	Greg Spiro
Architect/Engineer of Record:	Integrated Engineering Services/Mark Bertz
Construction Manager:	Cristina Fannin
Aim Project Number:	0078-2016

Reviewer Information

Reviewer Name:	Jake LeJeune	Date Received:	10/7/2019
Disposition:	Declined	Date Completed:	10/16/2019

Status Statement

Note: Isolation Lab; flammable liquids/flammable gases; oxidizing gases

Review Comments:

1. Please provide a complete set of manufacturer specifications of all equipment associated with this lab including but not limited to: piping, valves, fire/smoke dampers, etc.
2. Please provide SDS for all chemicals associated with this lab including all solids, liquids, and gases.
3. Please provide a floor/fixture plan that shows all operations in the lab including: tables, equipment, location of cylinders if applicable, flammable/combustible liquid storage, fume hoods if applicable, and so on to review and approve as per NFPA 45.
4. Please indicate that quick-response fire sprinkler heads are installed throughout, and that the fire sprinkler system is designed to ordinary hazard group I in accordance with the 2011 edition of NFPA 45 6.2.
5. Please provide the total quantity of each liquid and each gas using gallons or liters for liquids and lbs. or cubic feet for each gas. It appears that the chart/inventory provided is a little unclear when it comes to the total amounts and what is actually being stored or used.
6. Please show compliance with the 2011 edition of NFPA 45 8.3.3, and show that the air pressure in the lab work area will be negative with respect to corridors, and non-lab work areas of the lab unit.
7. If applicable with the 2011 edition of NFPA 45, 11.1.4.3 cylinders greater than lecture bottle size and have health hazard ratings of 3 or 4 shall be in a gas cabinet, please show compliance.
8. Please show compliance with NFPA 55. It appears that flammable gases and oxidizing gases need to be separated at least 20 feet as per table 7.1.10.2.
9. Please indicate that the storage of the aviation kerosene shall be in compliance with NFPA 30 and the IFC in regards to distances and location.
10. Please show that the fenced area for outdoor storage will have gates that are inset to avoid opening into the fire lane.

General Note:

1. Inspection requests: http://www.ehs.gatech.edu/fire/inspection-request
2. Hot Work Permit Request: http://www.ehs.gatech.edu/fire/permit-request/hot_work

Plan / Shop Drawings Required:

1. Fire Suppression
2. Fire Alarm

Inspections Required:

1. Fire Safety Office Project Kick-Off Meeting
2. 50% Wall (Rated walls, doors, dampers, horizontal penetrations, etc.)
3. 80% Ceiling, Alarm, Sprinkler (vertical penetrations, junction boxes, lights tied at corners, sprinkler and fire alarm roughed in, etc.)
4. 100% Construction, Alarm Commissioning, Sprinkler Commissioning, Certificate of Occupancy (all work complete, commissioning of systems, close-out documents, etc.)

Permits Required:

1. Construction / Interior Renovation
2. Fire Suppression System
3. Fire Alarm