

## Plan Review Summary

### Building Information

Project Name:	Petit Microelectronics Building Lab 246	Floor/Room #:	2nd Floor/Room 246
Building #:	095	Department:	College of Engineering
Occupancy Type:	Business	Budget:	\$150,000.00
Construction Type:	IIB	Type of Review:	Construction

### Project Management

Project Manager:	Corey Pressley
Architect/Engineer of Record:	Eric Clementi@ Schneider Wright Inc.
Construction Manager:	Corey Pressley
Aim Project Number:	0143-2018

### Reviewer Information

Reviewer Name:	Jake LeJeune	Date Received:	3/6/2018
Disposition:	Declined	Date Completed:	4/12/2018

### Status Statement

Note: Renovation to Petit Microelectronics Building Lab 246

### Review Comments:

1. Sheet TA-0; Provide the sub-classification of the Industrial Occupancy (General, Special-Purpose, High Hazard) in accordance with the 2012 edition of NFPA 101, 40.1.4.1.
2. Sheet TA-0; Provide the Classification of Hazard of Contents in accordance with the 2012 edition of NFPA 101, 40.1.5 and 6.2.
3. Sheet TA-0; Provide the door hardware type for "Building Standard Lockset" in accordance with the 2012 edition of NFPA 40.2.2.2 and 7.2.1.
4. Sheet E-1; Provide emergency lighting in accordance with NFPA 101, 40.2.9. Previous Comment 10 dated 12/18/17 addressed this requirement and no revisions/changes were made. Provide an Electrical Panel Schedule in accordance with NFPA 70 2011 edition.
5. Fire Alarm plans were not submitted; please submit 2 complete set of fire alarm plans and specifications in accordance with the 2012 edition of NFPA 40.3.4.1. Initiation shall be by manual means or supervised automatic fire sprinkler system in accordance with 9.6.2.1(3). Indicate which one will be used. Please show compliance with the 2012 edition of NFPA 40.3.4.3.1 and the 2011 edition of NFPA 45, 6.5 for notification.
6. Provide the Laboratory Unit Fire Hazard Classification in accordance with the 2011 edition of NFPA 45, 4.2.1.1; this was previous comment 1 dated 12/18/17. Also, indicate if the Lab is an explosion hazard in accordance with the 2011 NFPA 45, 4.3.1. If the lab is an explosion hazard show compliance with the 2011 edition of NFPA 45, chapter 7.
7. Provide Fire Sprinkler plans and Specifications in accordance with the 2011 edition of NFPA 45, 6.2. Indicate that the nearest stairwell is supplied with standpipe and hose system in accordance with the 2011 edition of NFPA 45, 6.3.
8. Provide the type of portable fire extinguisher in accordance with the 2011 edition of NFPA 45, 6.4; this was previous comment 4 dated 12/18/17. Sheet E-1 and M-1 show the fire extinguisher by the door and sheet TA-1 shows it on the side wall of the lab. Please revise sheets E-1 and M-1 to be consistent with sheet TA-1.
9. Please indicate the type of Hood(s) that will be installed in the lab. If a chemical fume hood is installed, show compliance with the 2011 edition of NFPA 45, 8.2.5 and provide a sequence of operation in a fire/emergency condition. Provide specifications on the Hood(s). No Mechanical Engineering documents were submitted to show operation, hood plans, hanging details, specifications, etc.
10. Please indicate Flammable & Combustible liquid classifications in accordance with the 2003 edition of NFPA 30.
11. Is or will there be any compressed or liquified gas cylinders present, if so please show compliance with the 2011 edition of NFPA 45 chapter 11.

12. Indicate if the refrigerator will be used to for flammable liquids, if applicable show compliance with the 2011 edition of NFPA 45, 12.2.2.
13. Please show compliance with the 2011 edition of NFPA 45, chapter 13 Hazard Identification. If this is an existing condition, please acknowledge.
14. Define the classification of ovens/furnaces in accordance with the 2012 edition of IFC chapter 30, 3002.1.
15. Indicate if the ovens/furnaces will be using fuel gas. If so, clarify if it will be LPG or natural gas. Indicate if the ovens/furnaces or new or existing. If new, provide gas isometrics, piping type, piping sizes, developed lengths, table used for sizing gas piping, etc. in accordance with the 1996 edition of NFPA 54 or 2008 edition of NFPA 58.
16. Please acknowledge that Class C & D ovens/furnaces shall have fixed fire extinguishing systems; Class A & B that contain or utilize processing of combustible materials shall have fixed fire extinguishing systems. Please acknowledge and show compliance where applicable.
17. Please show compliance with the 2012 edition of the International Mechanical Code 601.2; there is a transfer grille in the 1 hour fire rated corridor. Corridors shall not serve as supply, return, exhaust, relief, or ventilation air ducts.
18. Previous comment 3 dated 12/18/17 still exists
19. Previous comment number 5 dated 12/18/17 still exists; no mechanical engineering documents were submitted to show exhaust.
20. Previous comment 6 dated 12/18/17 still exists; the disconnect is still being shown located on side wall not near the exit door.
21. Previous comment 7 still dated 12/18/17 exists; no MSDS sheets were submitted.
22. Previous comment 8 dated 12/18/17 still exists.
23. previous comment 9 dated 12/18/17 still exists.
24. Please provide a narrative addressing each comment.

**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](http://www.ehs.gatech.edu/fire/permit-request/hot_work)

**Additional Requirements (as needed):**

1. Fire Emergency Response Plans
2. Red Book Completion and Fixed Location Designation

**Plan / Shop Drawings Required:**

1. Fire Suppression
2. Fire Alarm

**Inspections Required:**

1. Fire Safety Office Project Kick-Off Meeting
2. Sprinkler Pipe Inspections
3. Rough-in
4. 50% Wall (Rated walls, doors, dampers, horizontal penetrations, etc.)
5. 80% Ceiling, Alarm, Sprinkler (vertical penetrations, junction boxes, lights tied at corners, sprinkler and fire alarm roughed in, etc.)
6. 100% Construction, Alarm Commissioning, Sprinkler Commissioning, Certificate of Occupancy (all work complete, commissioning of systems, close-out documents, etc.)

**Permits Required:**

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

**Permits Issued:**

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

