

Building Name: Oxy-Methane Combustor Area  
Building #: 149 Outside  
Occupancy Type: Industrial  
Const Type: IB

Floor & Room #:  
Department: Aerospace Engineering  
Budget: \$500,000  
Type of Review: Construction

Project Manager: Greg Spiro  
Architect / Engineer of Record: EXP  
Construction Manager: Frank Lamia

Aim Project Number:0241-2015

Reviewer: Labbe  
Disposition: Declined "Pending"

Date Received: 12/16/2015  
Date Completed: 1/21/2016

### **Status Statement**

Note: Conversion of an existing test area to outfit Air Force Test Pad.

### **Review Comments:**

1. Sheet E-401, what is a "type A" Light Fixture?
2. Sheet D-115, Plans indicate that T-4-400 and T-4-401 are existing. We are not aware of these existing items. Please explain. Provide details on heating and water level sensors.
3. Sheet D-301, Tube Trailer tires need to be blocked once in position. Provide equipment for tire blocking and process steps to require this as a safety check-off.
4. Sheet D-801, Please provide details on interlock or contacts for steel sliding door at roll-up door. The shield is required to be in place to prevent explosion debris from passing through roll up door. Shield interlock shall disable all functions unless steel door is in place.
5. HAZOP Page 9 and Sheet D-801, Fire suppression system is supposed to be a dry chemical extinguishing system. The existing fire main is not buried deep enough and is not the minimum pipe diameter. Heating requirements for the water based suppression system is also an obstacle due to electrical classification requirements. The design team is supposed to look into and add this stand-alone extinguishing system.
6. Provide information and specification sheets on test article. We saw the video and heard the presentation; details need to be officially presented.
7. Has a peer review been conducted? Third party review is needed due to the complexity of the systems.

### **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. Pre-Construction Meeting
2. Rough-in
3. 50% Wall (Rated walls, doors, dampers, horizontal penetrations, etc)
4. 80% Ceiling, Alarm, Sprinkler (vertical penetrations, junction boxes, lights tied at corners, sprinkler and fire alarm roughed in, etc)
5. 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

**Permits Issued:**

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

Thank you,

Georgia Tech Fire Safety Office