

**UNIVERSITY OF HOUSTON**  
**Campus Facilities Planning Committee**  
**Agenda Item Description Form**  
**1/11/13**

- 1. Item:** *Cameron Temporary Emergency Flue Pipe Routing*
- 2. Requesting Department:** *Minor Planned Projects (MPP)*
- 3. Contact Names & Phone Numbers:** *David Laws – 3-9262*
- 4. Presenter:** *Sameer Kapileshwari*
- 5. Recommendation/Action Requested:** *It is recommended to move forward with this temporary flue pipe routing for safety and long term code compliance concerns*

**6. Summary:**

The Temporary Flue Routing Project consists of securing three (3) individual flue vents attached to the external brick veneer. The three (3) stacks will be 6", 10" and 16" respectively. The immediate installation of these flue pipes will alleviate any concerns regarding flue gases from escaping into the building. The external flue pipes will extend four (4) feet above parapet wall and will be secured to the structure by anchor bolts and angle iron. Flue pipe will be insulated in an aluminum jacket.

This temporary flue piping will also serve as a temporary flue gas venting as part of the current Air Handling Unit (AHU) replacement currently in design. A new internal fire rated flue chase will be built as part of the AHU project and the temporary external piping will be removed at this time and external anchors will be repaired.

- 7. Proposed Start Date:** February 11, 2013

**8. Supporting Documentation Description:**

- Boiler flue, domestic water and emergency generator exhaust are manifold together into a 20" flue running in a return air chase up to the roof. Flue and/or exhaust gases are not properly isolated per NFPA 54-12.4.5 and NFPA 90A-5.3.4.5., nor is the flue contained within a fire rated enclosure. The intent of the NFPA is to restrict combining of exhaust gases into one common flue to prevent back flow of gases into mechanical room. There is not any backflow preventers currently installed.
- Existing 20" common flue is currently installed exposed in the AHU return air plenum. This flue pipe has reached the end of its useful life and needs to be replaced. If flue appears to have minor breaches and flue gasses may be mixing in the AHU return air chase and circulated back into the building.

Please refer to attached rendering of proposed flue pipe routing

