

TASC 2 6000 Level Evacuation Policy

The 4D LABS evacuation policy for the TASC 2 6000 level applies to all the ancillary labs, rooms, and sub rooms, including all areas in Nanofabrication, Nanoimaging, LASIR, SQUID, Thermal Processing, and the building common areas.

The 6000 level of TASC 2 has two different alarm types and corresponding evacuation procedures: Fire Alarm and Gas Alarm. The Fire Alarm applies to all building personnel and requires a full building evacuation. The Gas Alarm has two different levels: Level 1 and Level 2. Level 1 requires a full evacuation of the 6000 level, whereas Level 2 triggers the Fire Alarm and thus by default requires a full building evacuation. Regardless of the alarm type, personnel must not delay for any reason during evacuation. Additionally, if you triggered a fire pull station, were physically harmed, observed a person in distress, danger, or in a state of unconsciousness, and/or observed any other hazardous situations upon evacuating, identify yourself immediately to the nearest Fire Warden or Campus Security Responder and await further instruction.

FIRE ALARM

In the event of a fire alarm, the red alarm bells will sound throughout the facility and all personnel are required to evacuate immediately via the nearest safe exit. Once evacuated, proceed to the appropriate assembly area outside and await instructions from Emergency Responders. Do not re-enter the building until it is deemed safe to do so by Campus Security. Please see Figure 1 for the TASC 2 building evacuation routes. When safe to do so, assemble on the grassy slope area located outside the TASC 2 south main entrance. For further information, please refer to the TASC 2 Evacuation Plan boards located throughout the building.

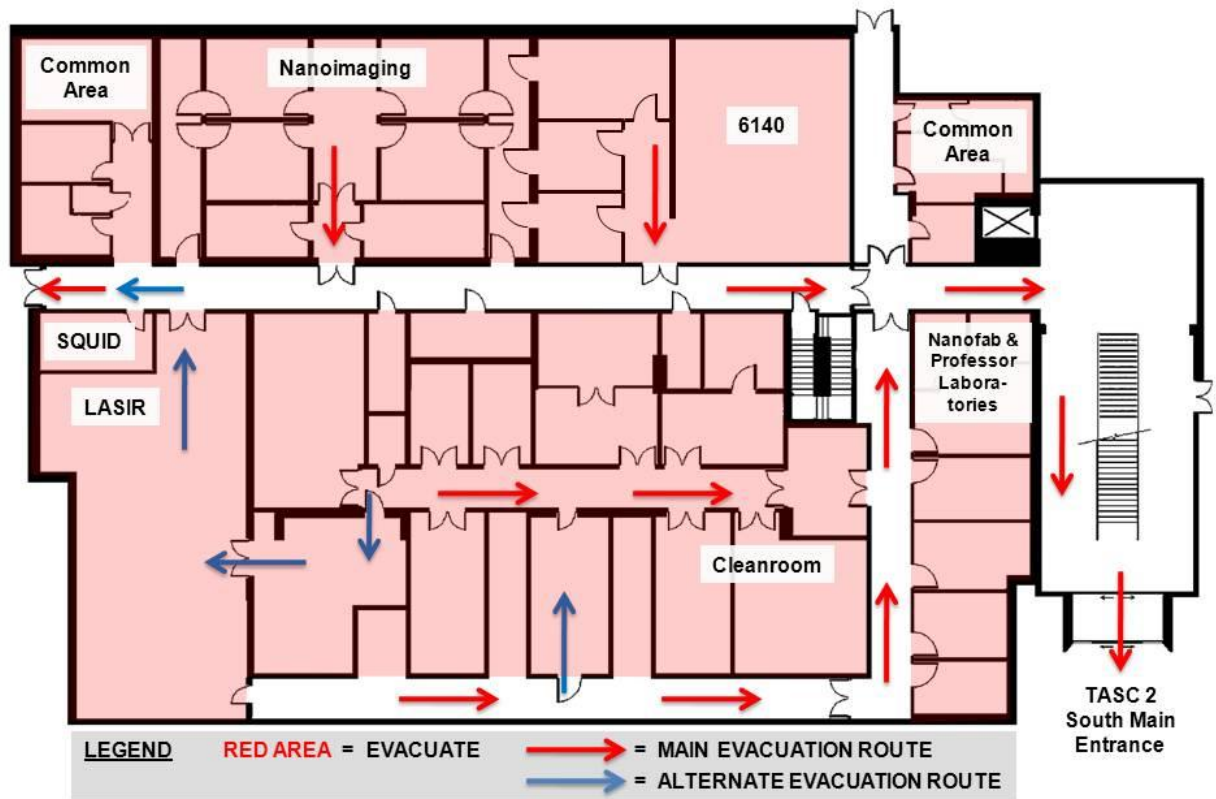


Figure 1: TASC 2 6000 Level Building Evacuation Plan

GAS ALARM

The 4D LABS Nanofabrication Facility houses several toxic process gases which are monitored 24/7 by an automated system. In the event of a gas leak, the system will trigger either a level 1 or level 2 gas alarm based on the gas concentration detected.

Level 1

The level 1 gas alarm is activated when a detected gas leak is at the 8hr safe exposure limit. In such an event, a blue strobe and horn alarm will sound throughout the 6000lvl of 4D LABS in TASC 2. All personnel located within the 6000lvl of 4D LABS are required to evacuate immediately to the TASC 2 6000 level atrium and await further instruction from Emergency Responders. Do not re-enter the building until it is

deemed safe to do so by 4D LABS Staff and Campus Security. Please see Figure 2 for the Level 1 gas alarm evacuation areas.

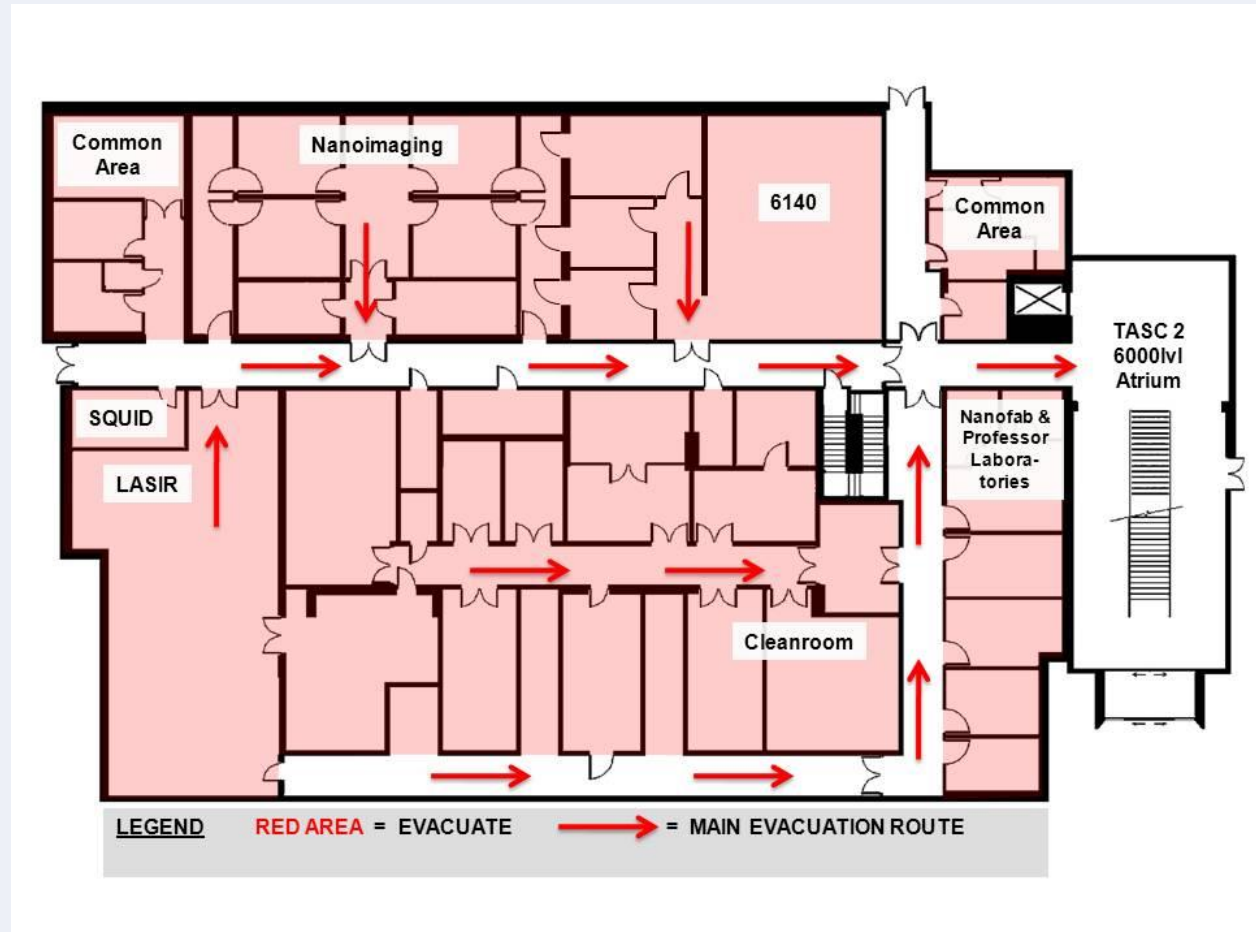


Figure 2: TASC 2 6000 Level Gas Alarm Level 1 Evacuation Plan

It is important to acknowledge that a level 1 alarm may quickly escalate to a level 2, in which case all building personnel must evacuate, as described in the next section.

Level 2

The level 2 gas alarm is activated when a detected gas leak has exceeded the 15min safe exposure limit. In such an event, the fire alarm is automatically triggered and all TASC 2 personnel are required to follow the

fire alarm evacuation procedure, as previously described. Emergency Responders will be notified of the gas leak and will be able to distinguish the difference between a fire alarm and a level 2 gas alarm.

CLEAN ROOM EVACUATION

Working inside the cleanroom presents additional hazards due to increased quantities of chemicals, systems utilizing toxic process gases, and systems with unique safety hazards. Additional safety awareness is important when working within the Clean Room. During a fire alarm or level 1 or level 2 gas alarm, all Clean Room personnel are required to evacuate immediately. Personnel must not degown in the gowning area as this can create unwanted traffic in the evacuation route and slow down evacuees that are in need of medical attention. Once evacuated, Clean Room personnel must remain within the assembly area until they are accounted for by the Emergency Responders who will be checking the Clean Room log sheet and ensuring that all personnel have evacuated.

ADDITIONAL INFORMATION

[SFU Safety & Risk Services Evacuation Overview](#)

[4D LABS Nanofabrication Safety Manual](#)

[SFU EHS Safety Manual](#)