

RESTC Facts

The RESTC is located on 17 acres within the southern portion of the Gaston College campus, in Dallas North Carolina, in the county of Gaston. The focal point of the facility is a five story, 21,000 square foot burn building, which is currently the largest of its type in the United States. This structure contains three live burn floors, and 14 interior "burn areas". Burn rooms range in size from 12'x14' to 20'x20' to 40'x20' to 90'x30'.

There is also an interior area that was designed and engineered for combustible liquid fire training. The lower level was constructed to simulate aspects of a nuclear reactor building. The burn building also houses a pitched- roof ventilation training area, 5-story vertical confined space shaft, and 1800 square foot smoke maze. It includes operational sprinkler and standpipe systems, an emergency alarm and communication system, emergency smoke evacuation system, and pressurized stairways. The building was constructed to comply with all NFPA 1402 recommendations. The large mass of the structure allows multiple evolutions to be conducted simultaneously.

In addition to the burn building itself, there are various "special situation" simulations located on the grounds of the RESTC. These simulations include 12 flammable liquid or liquid petroleum gas pits, confined space areas, hazardous materials areas, and emergency driving course. There is also a training pavilion on site, which houses a fitness center, shower rooms, apparatus and equipment areas, and a canteen.