REALISTIC FIRE / EMERGENCY / HAZMAT TRAINING SOLUTIONS

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Identifying and overcoming the challenges of planning and executing your Fire Training Facility Project

The path to becoming a Pyromaniac !!!

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Identifying and overcoming the challenges of planning and executing your Fire Training Facility Project

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Why invest in a Fire Training Facility ?

A well planned and executed Fire Training Facility is critical for ensuring that personnel of all ranks are adequately prepared for real-world firefighting emergencies during peacetime or combat conditions to save lives and the asset. These Fire Training Facilities provide a controlled but challenging environment where proven firefighting knowledge and skills can safely be demonstrated and repeatedly practiced by all levels of attendees.

Effective training is vital to reduce risks during actual firefighting operations. Well-structured training programs lead to improved response times, effective tactical approaches, and heightened safety awareness for personnel involved in fire-related emergencies.

Schedule from Concept to Running Effective Courses

- Desired Flash to Bang time versus Reality
  - New Sites V Retrofitting existing facilities/upgrading
  - Design & Infrastructure complexity knowing the consumption data (Fuel, MEP, Drainage)
  - Prototyping V Implementing already available proven systems
  - Procurement route (Tendering – Sole Source)
  - Manufacturing & construction delays
  - System Validation & Training the Trainers

Stakeholders

- Driving the project forward
  - Understanding what is required and having a solid written Specification with desired performance parameters (Firming up the wish list)
  - Supplier validation that what is asked for can actually be done within budget and schedule
  - Collaborative working to overcome inevitable execution challenges
    - Safety..!! Documentation..!!!
    - MOD Protocols

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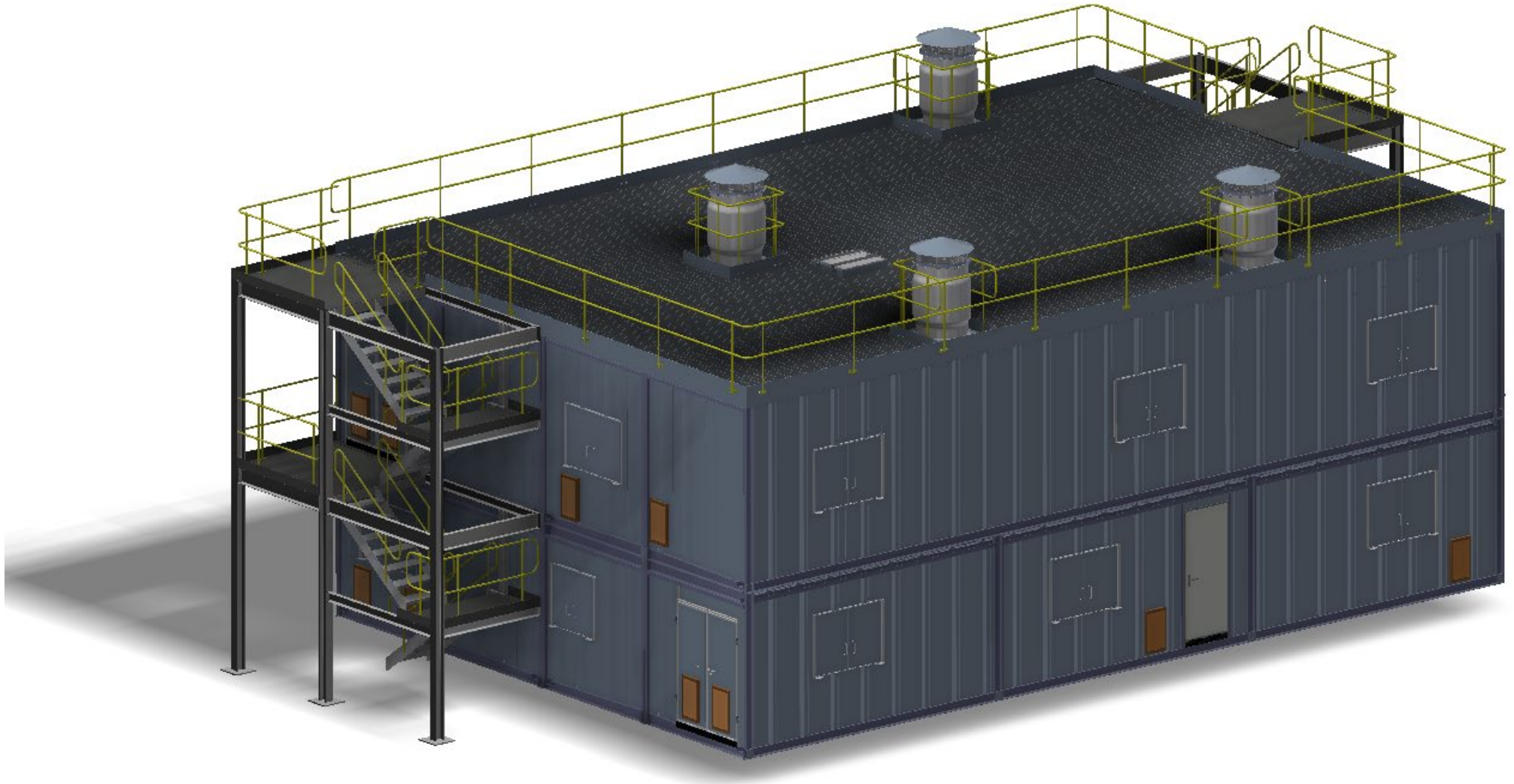
General View - Front



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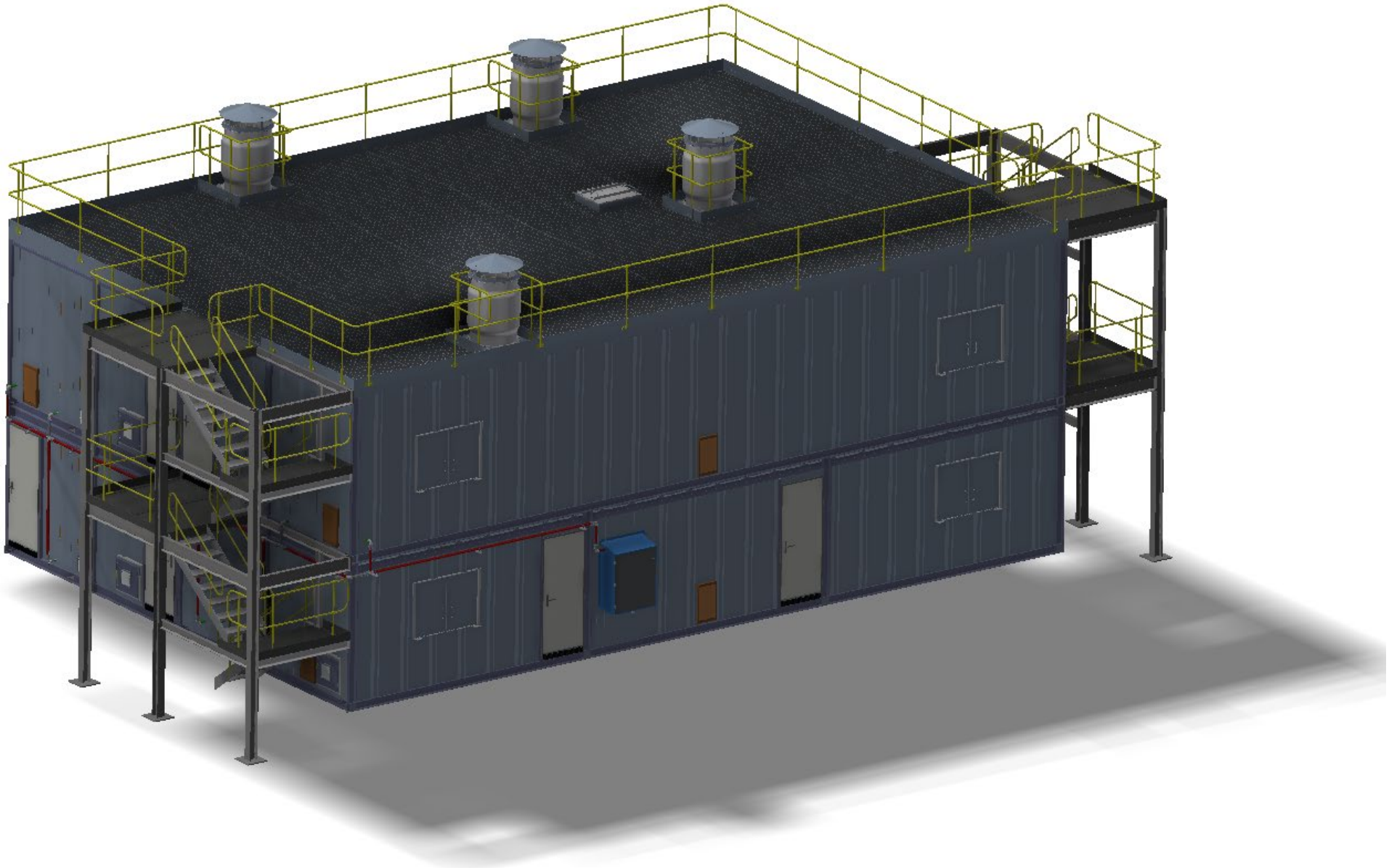
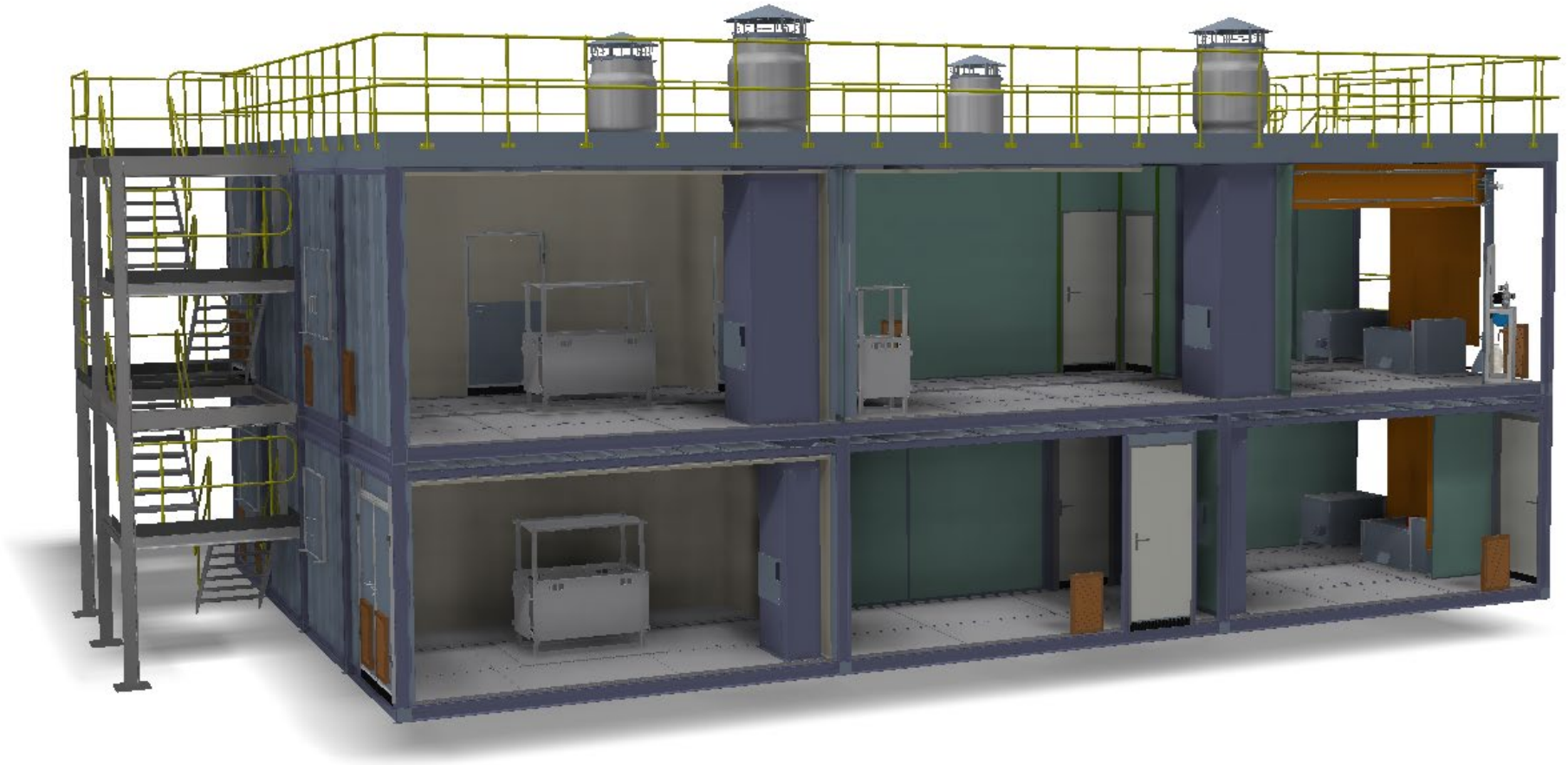
General View - Rear



Front Open Side View – Showing Internal Features for Carbonaceous (Wood) Burn Rooms including protective Thermal liners additionally showing Propane Gas Fire Rooms to the right. Note all floors are pitched to allow free drain of water to in built capture gullies which drain to concrete grade.



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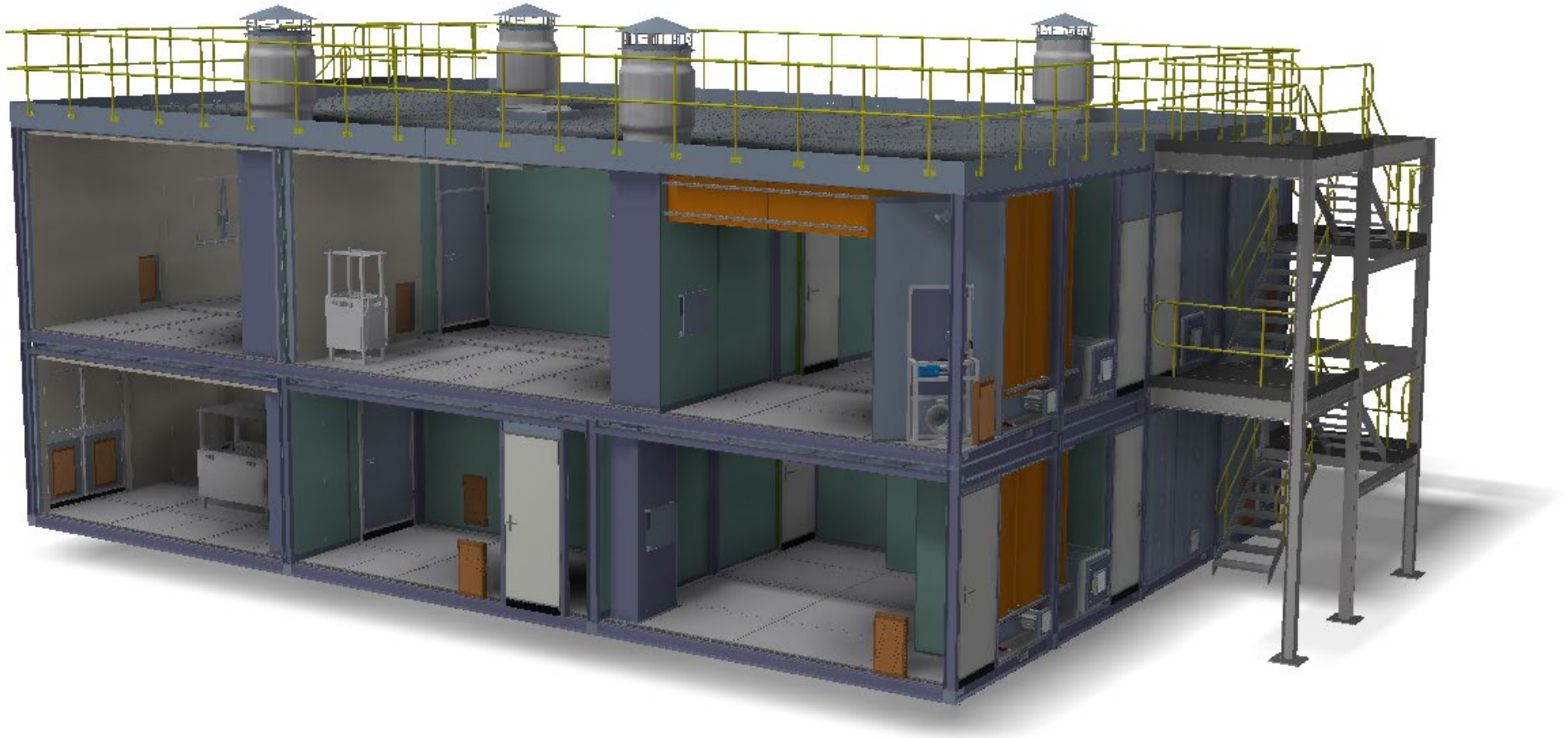
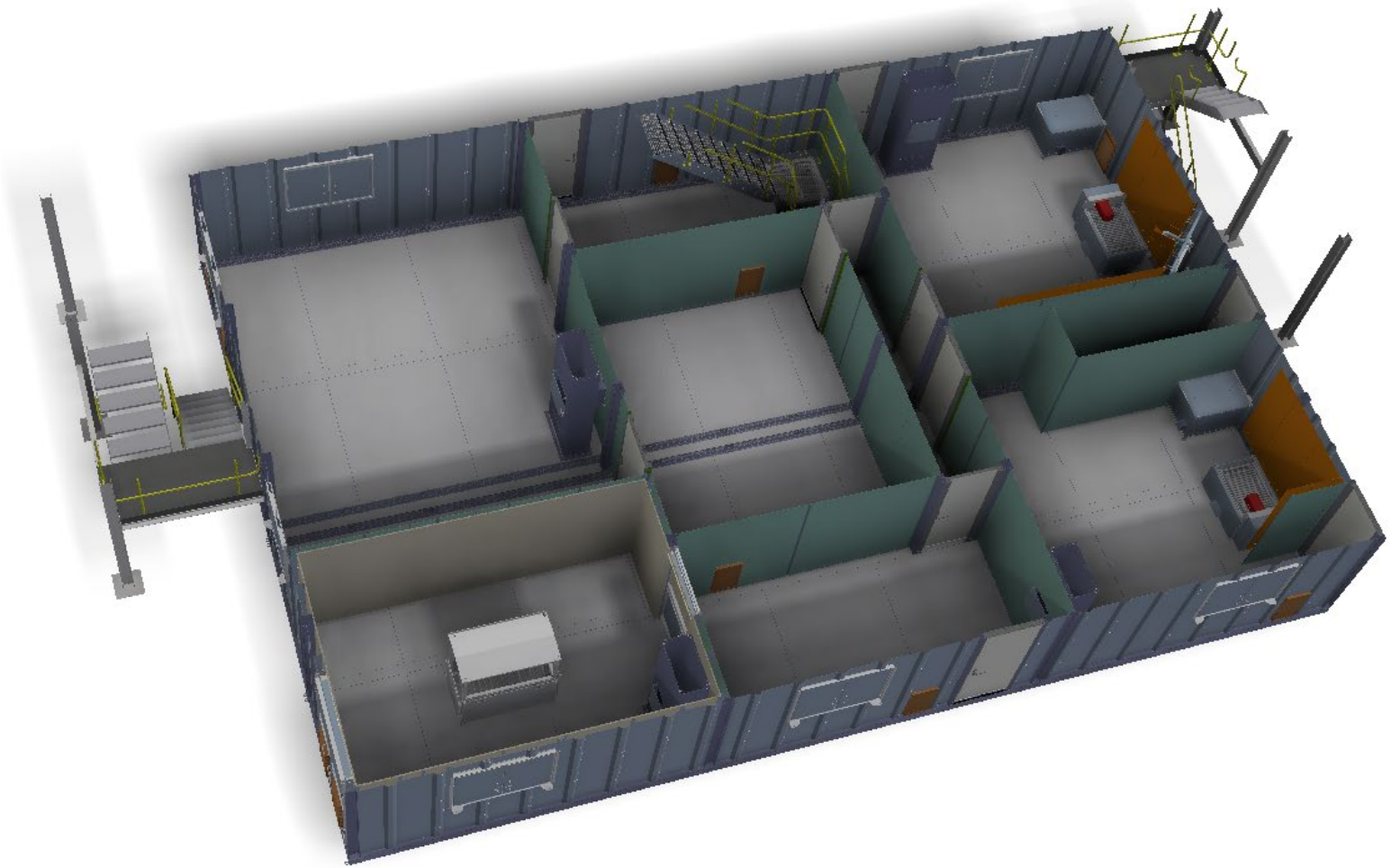
Front Open Side View – Showing Internal Features for Carbonaceous (Wood) Burn Rooms including protective Thermal liners , Small Crib design additionally showing Propane Gas Fire Rooms to the right with Stainless Steel Thermal protection liners



Ground Floor open View – Showing Internal Features for Carbonaceous (Wood) Burn Rooms including protective Thermal liners additionally showing Propane Gas Fire Rooms to the right with Stainless Steel Thermal protection liners, Fire place locations and internal & External stairs to 1st Floor



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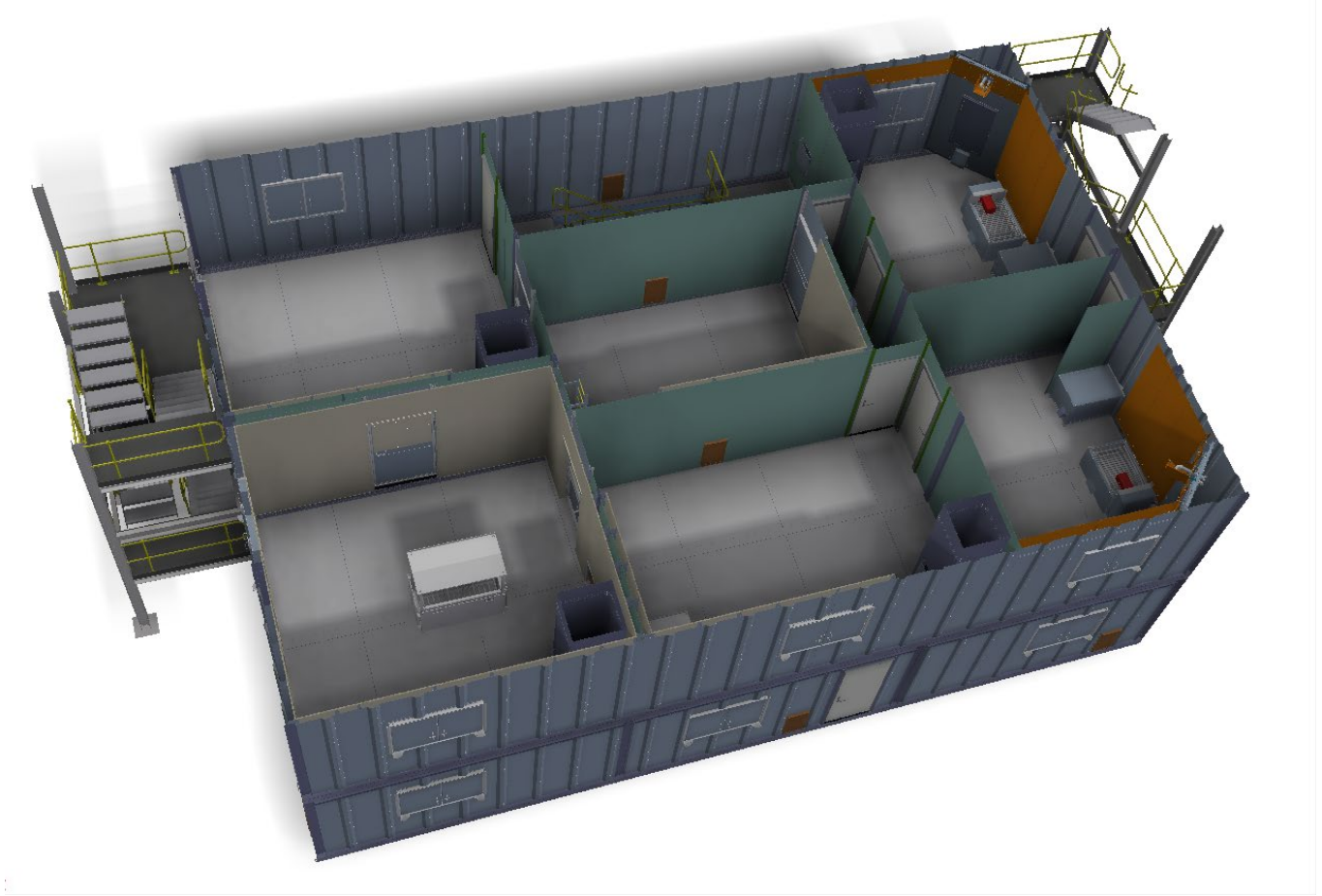
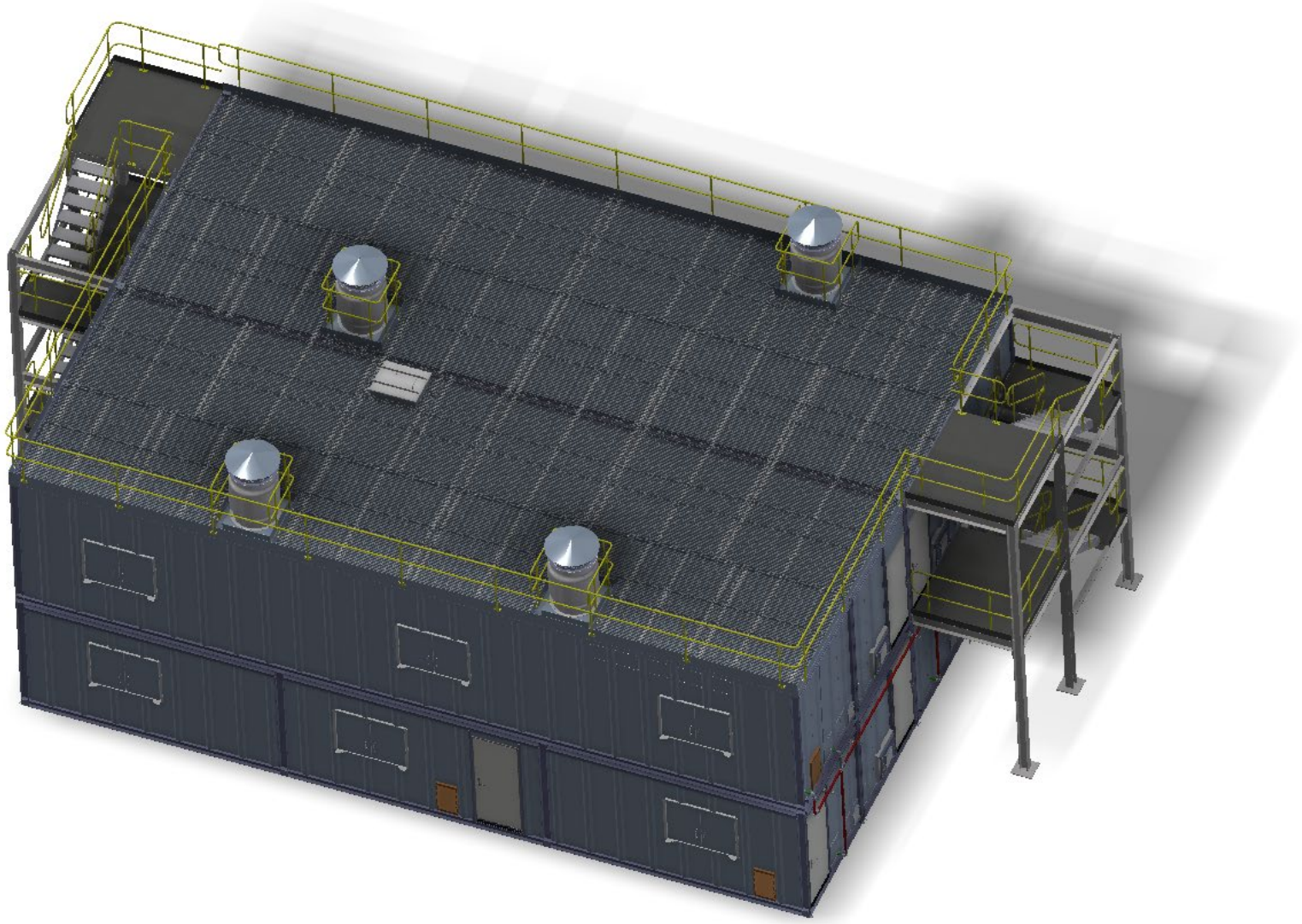
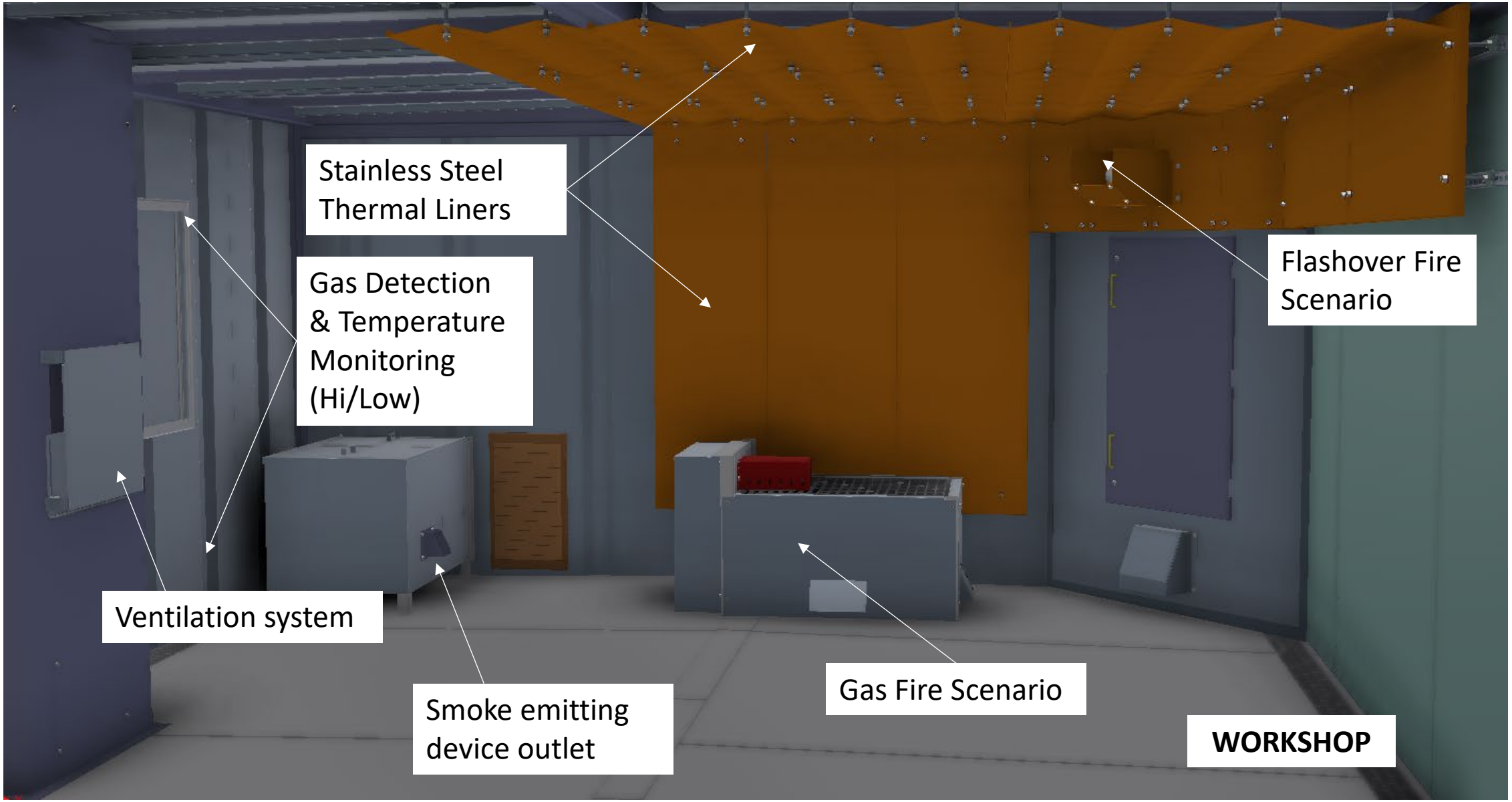
1st Floor open View – Showing Internal Features for Carbonaceous (Wood) Burn Rooms including protective Thermal liners additionally showing Propane Gas Fire Rooms to the right with Stainless Steel Thermal protection liners, Fire place locations and External stairs from 1st Floor to Roof level.



Roof Level – Showing Roof Mounted Bifurcating Ventilation Fans , walkway covers , Access stairs Left & Right , also in picture are the specific Window access points per room.



General View – GAS FIRE - WORKSHOP



Environment Considerations and studies

- The world has changed. What was acceptable 10 years ago may get you thrown in jail today..!!!
  - National & Local restrictions
  - Construction work Carbon release
  - Fuel burning – What type is best?
  - Smoke capture/scrubbers
  - Water contamination and possible treatment/recycle
  - Human Health considerations (Within and around the facility)

Construction & Manufacturing considerations

- Is the Construction site Suitable?
  - Has it been cleared by EOD?
  - Invasive ground studies
  - Manufacturing materials availability

Budget – Keeping the Bean Counters happy

- Is the outline estimate up to date?
  - Are the “Purse Holders” on board?
  - Compromising Scope to keep within budget
  - Are the operation costs realistic to match the throughput of courses post completion
  - Have provisions be taken into account for ongoing maintenance/Inspections and corrective repairs beyond warranty periods
  - Midlife refurbishments

Unplanned Show stoppers

- Bats/Birds and other little furry things
  - Emergence May – September
  - Transect April - October
- Existing Ground contamination

Conclusion

- Plan ahead
- Get a great team together
- Keep the budget updated
- Seek advice from specialist providers from the very beginning
- Consider repurposing existing facilities to maximise budgets and potentially achieve a swifter outcome
- Give me a call ..!!! Anything is possible , its likely we have already done what you need somewhere in the world and if we haven't we can quickly advise if its possible…or not
- Have a handy supply of Thunder flashes before the Bat/Bird study is carried out…

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Thank you for your attention.