cost Integrated Fire Engineering and Response

Buro Happold the engineering of excellence

COST TU904 – Case Study Technical checklist

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Case Studies – Technical Checklist

- To make sure the Case Studies give sufficient technical detail it was suggested to develop a checklist on what to include in the Case Studies.
- This list is mend to be guidance only to help the authors to make sure that all important points are covered.

Checklist – Overview

1. Setting the scene
2. Design Approach
3. Design Fire
4. Technical Detail
5. Approvals
6. The Reality
7. Closure

Checklist – Setting the Scene

1. Abstract
2. General building description
   (Location, usage, sizes, unusual features)
3. On what part of the project was fire engineering used and the purpose of choosing a fire engineered approach?
   (this can be generally structure, smoke movement and egress or any combination of the three)
4. Regulatory requirements for the fire engineered part of the project

Checklist – Design Approach

5. Assessment strategy
   (list the steps undertaken in the detailed assessment)
6. Performance / assessment criteria
   (explain at when design situation is deemed to have failed)

Checklist – Design Fire

7. Considered design fire scenarios
   (list the fire scenarios, which were considered and ruled out on the way to select the design fire and explain why)
8. Selected design fires
   (Description of the design fire including Time-HRR or Time-Temperature curves – discuss applicability of the selected design fire for the considered scenario)

Checklist – Technical Detail

9. Description of the smoke or heat transfer analysis
10. Thermal response of structure or behaviour of escaping people
11. Mechanical response of structure

Checklist – Approvals

12. Description of the process and the challenges of the approval by the stakeholders
    (tell the storey how the project got approved and what problems/questions occurred)

Checklist – The Reality

13. Communication and checks of the fire engineered solution from report to construction site
14. Consideration of the consequences of the chosen solution on the whole lifecycle of the building
    (are there any ongoing management or maintenance requirements caused by the fire engineered solution?)

Checklist – Closure

15. Conclusion
16. References

How to find the Checklist

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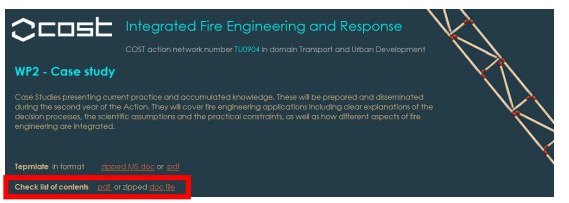

There is also a formatting template here.
Please use this to reduce the formatting effort for the final publication!