

Submission of BCTRAG Agenda Items

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| Submitted by: | Michael James – Society for Fire Protection Engineers (SFPE) | Submitted on: | 5 August 2019 |
| On behalf of: | Eleanor Laban – Engineering New Zealand | | |
| Risk Title: | Disconnect between structural and fire engineering | Confidential data: | <input type="checkbox"/> |
| What is the risk | Potentially risky / sub-par execution of fire design in buildings | Check if communication is to be limited to permanent BCTRAG members | |
| Building Code Clause impacted: | B1 + C6 | | |
| If known | | | |
| Potential impact or Harm arising from this Risk Consider the impact this risk may cause if it occurred e.g: - Financial, - Innovation stifled, - Loss of life, - Building damage, - Environmental - Productivity loss - Others.... | <p>Execution of compliant fire design in buildings requires coordination across several disciplines. Lack of clarity and uncertainty re roles and responsibilities – and assumptions re who’s doing what, including among architects – may potentially leading to risky / sub-par execution of fire design work, including for example, who checks whether materials are compliant as per the approved fire design.</p> <p>This issue has potential to lead to loss of life, building damage, loss or reduction of value in building assets, expensive retrofitting and loss of productivity.</p> <p>It has been difficult to get traction with the overall issue as there is no single discipline that ‘owns’ the problem or the solution. Work has been done in the past, which can be revived, including through collaboration with MBIE, and there is some work underway currently – but this risk requires concerted, multi-faceted efforts to target and resolve once and for all.</p> | | |
| How prevalent is this risk now and in the future Consider: - impacted population - will the risk grow over time with or without intervention | <p>This is current and ongoing risk. Inspection can be difficult as fire protection of the structural is often hidden behind walls and ceilings. This makes identification and quantification of the scale of the problem difficult to assess.</p> | | |
| Factors influencing magnitude of risk Consider: - How urgent is addressing the risk to country or sector. - what is the opportunity cost of the risk materialising | <p>The risk is likely to be isolated to one building at a time, rather than having a multiplying effect, but the risk to each building and its residents in each case is high.</p> | | |
| What caused the risk to come to your attention? | <p>This is a known risk which has been targeted by engineers since 2015 at least (SESOC / SFPE). It has been supported by MBIE previously, as outlined above.</p> | | |
| Cost Benefit Analysis | <p>Unknown</p> | | |

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| Supporting files attached - Journal papers - Research | N/A |
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