



Perfecting the FEB Process

A NZFS Perspective

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Purpose of the FEB



- The design team goal in producing the FEB is:

*To reduce the **risk** of design changes at the consent stage, when undertaking performance based design by gaining agreement from all stakeholders prior to undertaking detailed analysis.*

The NZFS goal in assessing the FEB is to determine:

“Will the proposed assessment method robustly demonstrate that the building is safe?”





Getting the Right Advice

- Only designated area staff are qualified to comment on fire fighting facilities.
- Only the engineering unit is qualified to comment on fire engineering

All FEB requests should be sent to:

engineers@fire.org.nz

- You will be notified who your assigned operational officer and/or engineer are typically within 2 working days of receipt of the initial email.



Timelines

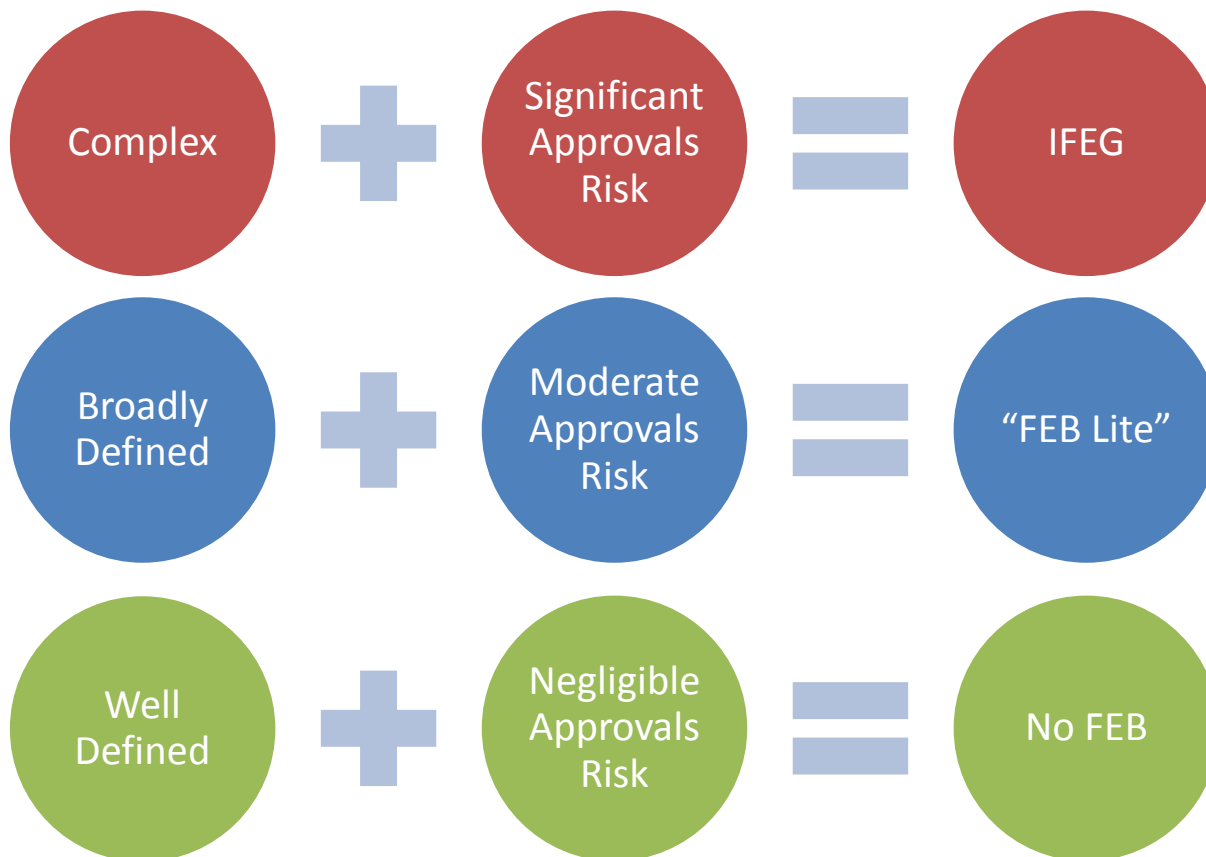


- NZFS will respond to engineering matters within a timeline comparable to that of a **typical consulting engineer**.
- Any design that impacts on operational fire fighting matters will require acceptance from operational staff. These staff work on an **eight day shift roster**, two days, two nights then four days off.
- Therefore the performance target for the NZFS is to provide feedback on all FEB's within **10 working days** of receipt.



Design Information

The level of information required depends on the project:





'FEB Lite' - Minimum documentation

- Details of all facilities for fire fighting ([fire fighting checklist](#))
- Schematic plans (showing indicative fire separations)
- Relevant sections and elevations
- The design basis (typically via compliance with C/AS1 with exceptions as identified).
- For each performance based design element
 - Assessment approach
 - Relevant input parameters
 - Acceptance criteria
- First check is to ensure sufficient info provided to review the proposal



Stakeholder Meetings



FEB Review



- Is the methodology appropriate for the issue at hand?
- Are inherent design assumptions valid?
- Are the design inputs appropriate in this case?
- Does the acceptance criteria reflect the level of conservatism in the inputs?
- Does the proposed assessment approach address all pertinent issues?



Benefit of NZFS FEB Participation

- Issues are captured **early** where there is still design flexibility
 - Avoiding costly post consent re-work.
- Gain agreement of the **PROCESS** to demonstrate compliance.
- In certain simple cases it can represent an **approval in principal** of a design element, on the basis of the information given.
- NZFS engineer providing feedback on the FEB, reviews the consent application this **reduces DRU review time**.
- Consent risk is **lowered**



Summary

- FEB's serviced locally
 - Process in place to address conflicting advice
 - Fixed response time
 - Different levels of complexity catered for
 - Sufficient documentation required
 - Consent risks reduced
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- Over to you... next steps???