

NZFS Engineering Unit – Evacuation Model FEB Check Sheet (EVAC01)

Job Number:

Job Name:

Date:

Overall Model Issues		
<ul style="list-style-type: none"> • Is the model validated for the proposed use? • If the model has multiple operating modes, which mode is being used? • Have any simplifications/alterations to the model domain been incorporated? • Discounting of exits? • Many programs include random selection of occupant parameters. Repeating the simulation more than once may yield different results? 		
Parameter	Data Input	Comments
Program and Version (e.g. Pathfinder 2011.1.0928)		
Model Validated		
Model Operating Mode		
Model Simplifications		
Discounting of Exits		
Number of Iterations Completed		

Occupant Input Parameters		
<ul style="list-style-type: none"> • How many occupants are included within the model domain? • How are these individuals distributed within the space? • What determines which exit each occupant will use? 		
Parameter	Data Input or Assumptions	Justification/Comment
Number of Occupants		
Initial Layout of Occupants		

Occupants Decision Making (e.g. exit choice)		
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Movement Parameters
<ul style="list-style-type: none"> • Is the pre-movement time included in the simulation or is it added separately? • What is the maximum horizontal and vertical movement rate used in the simulation? • Are modeling parameters appropriate to scenario?

Parameter	Data Input or Assumptions	Justification/Comment
Pre-movement Time Included		
Maximum Horizontal Movement Rate		
Maximum Vertical Movement Rate		
Maximum Occupant Density		
Boundary Layer to Obstructions		
Inclined Floors		

Outputs
The following outputs are recommended to be included in the consent documentation

Output	Include	Justification/Comment
Flowrate of occupants for each exit		
Overall clearance time for space		
Model Inputs		
Model Output Files		

Comparison of results to hand calculations

Have any of the following types of calculations been carried out:

- Egress calcs to PD 7974
- Egress calcs to Fire Engineering Design guide
- Other...

Hand Calculation method	Result	Comments