

Systems Not Scenarios



A Modern Approach To A Complex
Problem





SCANIA FIRE
124c 420
123456

SCANIA FIRE
P 330
123456

FIRE FIRE
123456

TOTAL
FIRE BAN
TODAY



CFA

HOPPERS CROSSING

EMERGENCY

☎ 000

Hoppers Crossing
Brigade

EMERGENCY
ASSEMBLY
POINT



The image shows the front facade of a Metropolitan Fire Brigade station. The building is constructed of dark brown bricks. At the top, there is a balcony with a blue metal railing. Three flags are mounted on poles: two Australian national flags and one Metropolitan Fire Brigade crest flag. The text "METROPOLITAN FIRE BRIGADE" is mounted on the brick wall in white, capital letters. A central crest is positioned above the text. Below the text are three large red fire doors with glass panels. To the left of the first door is a light blue door. To the right of the third door is an open bay where a white van is parked. Various signs and notices are posted on the brick wall, including emergency contact information and access instructions. The ground in front is paved with cobblestones, and there are several green trash bins on the left side.

METROPOLITAN FIRE BRIGADE

IN CASE OF
FIRE
PHONE
000

EMERGENCY
ACCESS REQUIRED
24 HOURS
KEEP CLEAR

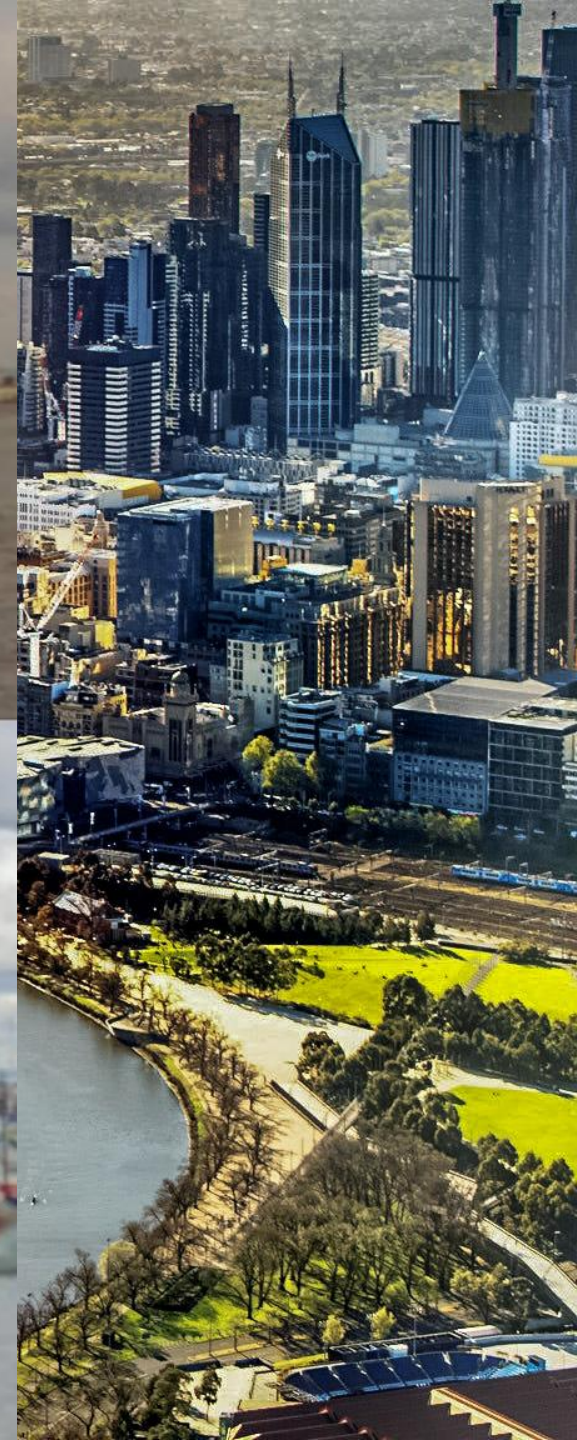
METROPOLITAN
FIRE BRIGADE
STATION No. 2



Melbourne skyline in 2000



Melbourne skyline in 2020





30 Year Cycles....

The journey so far...

Joined 2
services

Formed 1st July
2020

Mixed risk
across the
state

Different
procedures

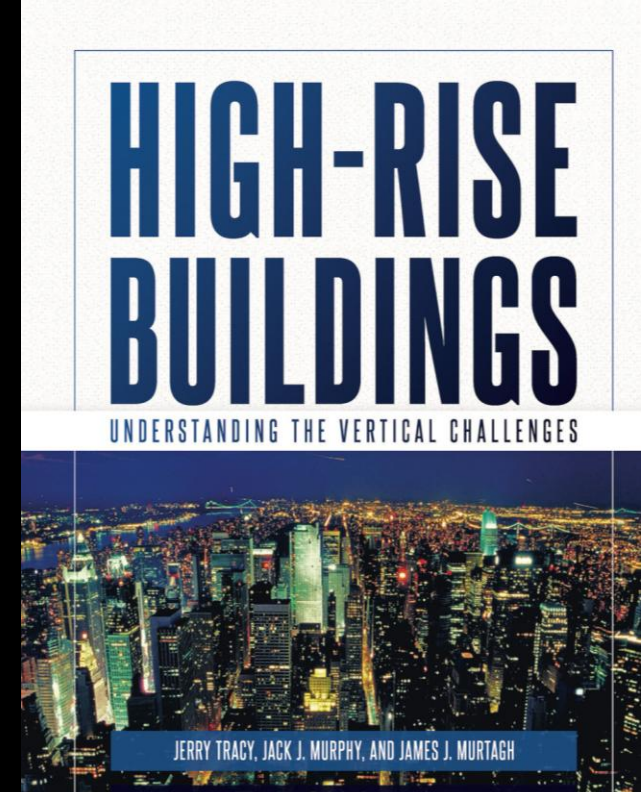
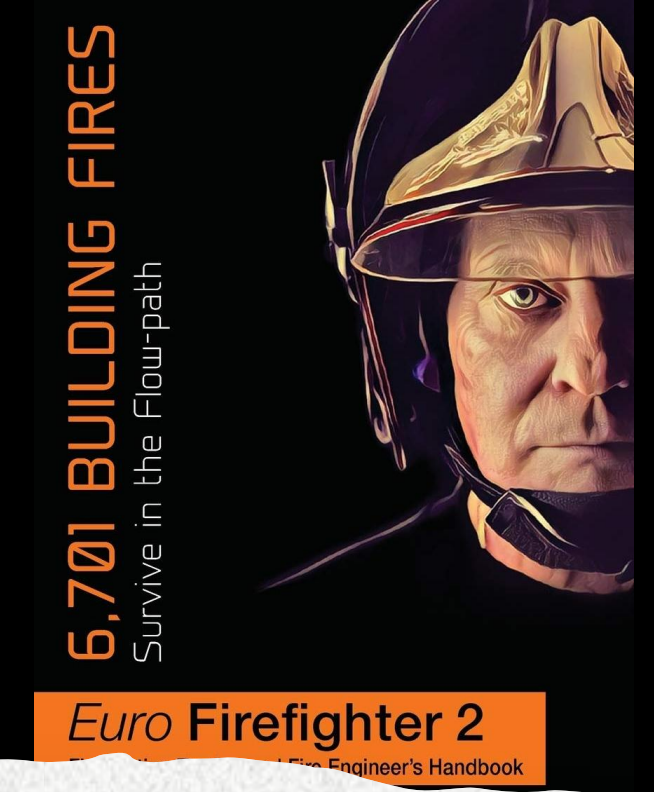
Different
understandings





What We Did

Identified major risk to our operational firefighters



What We Did

- Knowledge Gathering

Operational Strategies

Operational Strategies

Guides to operational response activities based on operational risk assessments applicable to incident type.

Foundation	Principal	Supplementary
0.1.0		All Incidents
Fires	1.1.0	Structure Fires
		1.1.1 Residential Dwellings
		1.1.2 Hospitals, Medical Research and Health Care Facilities
		1.1.3 High Rise
		1.1.4 Secured Facilities
		1.1.5 Public Assembly Buildings



Operational Strategy

Supplementary High Rise

OPS 1.1.3 Fires

Significant Hazards

- Glass, panels or debris falling from height
- Delay in gaining access
- Extent of the fire not established
- Fixed installations fail or are operating ineffectively
- Internal fire/smoke spread
- Wind driven fire
- Persons confined in lift
- Falling through openings and objects falling from height
- Loss of fireground accountability

High-rise buildings

Buildings with four or more floors above ground level or in excess of 25m in height*, whichever is the lesser.

*Buildings which are a residence 25m+ are required to have fire sprinklers installed

Safety

- The IC must be satisfied there is a safe means of access and egress for firefighters

What We Did

- Comparison of current practice

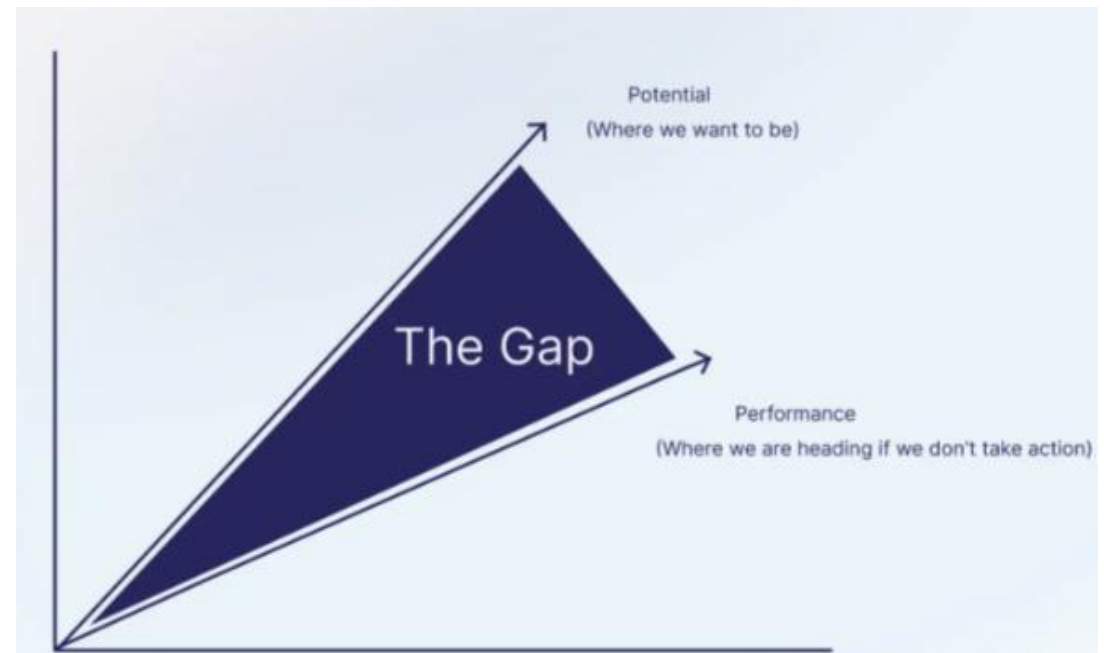
SOP Ref No: F4.1 V1.2

High Rise - Residential

Aide Memoire

What We Did

- Gaps analysis created



What We Did

- Sort information from SMEs



What We Did

- Overlaid advice on our operational reality





What We Did

- Draft
- Trial
- Implement

What We Created

- Doctrine
 - Operational Practices
 - Operational Guides
 - Operational Method Statements
 - Operational Strategies

What we learnt

Evidence based
decision
making

Data driven

Identification of
Patterns

How we rolled it out

- Training packages
 - Addressed risks outlined in operational strategies
 - Added context to Operational method statements, Operational Guides and Operational Practices



What we are doing with it

- Developing a skills maintenance program that:
 - Contextualises Doctrine
 - Focuses on systems that are triggered by pattern recognition
 - Train in real buildings
 - Continually evaluate training context vs real context



Utilising Systems, Not Scenarios



Example - >

- Teach systems addressing Significant Hazards
 - Loss of hydrant systems – OMS Boosting – OPP Improvised hydrant
 - Loss of accountability – OMS PAR – OPP Conduct a PAR
 - Internal fire spread and smoke – OMS SF S&T – OPG Tactics – OPP Hoselines
 - Extent of Fire not established – OMS SF S&T – OPG Tactics – OPP Hoselines

Now can apply these systems to a scenario e.g.:

Large open office space fire, unsprinklered. Extent of fire is unknown, hydrant is lost.

Where to next...

- Equipment
- Evacuations
- When things go wrong



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