



Whether your facility is complex like this, or simple, you need to be safe and to minimise risk



Rosella on Yellow Flowering Gum at our premises in Williamstown



Steam cleaning a soil sampling hand auger between bores during a land contamination assessment

INTRODUCTION

We are Chemical, Environmental, Process Safety, Loss Prevention, Risk and Forensic Engineers, OHS Consultants, Occupational Hygienists and Town Planning Advisors.

We assess your premises for compliance with dangerous goods, safety, manual handling, machine guarding and environmental legislation. We smooth your way towards compliance with the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and with existing and impending Workplace Health and Safety (WHS) obligations.

We obtain planning permission for your chemical plant or project, approve your chemical and mechanical engineering designs and assess your site for environmental contamination, cleaning-up where necessary. We prepare emergency information books, escape route diagrams, emergency & evacuation plans, job safety analyses (JSAs) and safety data sheets (SDSs).

In the unfortunate event of an accident or a loss, we are your independent investigator and provide you with an expert report. If the matter is not settled between lawyers, we will act as your expert witness.

We help you to comply, not the authorities to enforce. We are well-known to the authorities in a number of states and have their respect but you, not they are our client.

The following tells you something about us, our qualifications and experience. To learn more, please view our website at www.ifta.com.au

PRINCIPAL, Mr Ian F Thomas

Qualifications BScHons(ChemEng), MEngSci(EnvEng)

Address 123 Nelson Place, Williamstown 3016

Principal	Ian Thomas,	BScHons(ChemEng), MEngSci(EnvEng), FIChemE, FIEAust, FRACI, FSIA, CEng, CPEng, CChem, RSP(Aust)
Senior Associate	Joan Thomas,	Assoc Memb RACI, Comp Memb IChemE, Assoc Memb AIOH
Associate	Simon Thomas,	BSc(OH&S), Assoc Memb AIOH
Associate	Stuart Thomas,	BEngHons(Mech) ASM
Office Assistant	Jill Thomas,	BMus, GradDipEd, AMusE
Office Assistant	Jackie Thomas,	BSc(AnVetBio)
Trades Assistants	Oliver Thomas, Huw Thomas	



Qualifying memberships

Fellow of the Institution of Chemical Engineers (FIChemE, Chartered Engineer)
 Fellow of the Institution of Engineers Australia (FIEAust, Certified Practicing Engineer)
 Fellow of the Royal Australian Chemical Institute (FRACI, Chartered Chemist)
 Fellow of the Safety Institute of Australia Inc (FSIA, Registered Safety Practitioner Australia)
 Associate Member of the Australian Institute of Occupational Hygienists

Professional associations

Immediate Past Chair, Forensic Engineering Society of Australia Inc (www.fesaust.com.au)
 Member/Past Chair, Health Safety and Environment Group, Victorian Branch, RACI
 Committee Member/Past Chair, Risk Engineering Society, Victorian Chapter, Engineers Australia (EA)
 Committee Member Victoria, Asset Management Council of Australia Ltd
 Member, Western Safety Group Inc
 Member, Membership Interview Panel, Victoria Division, EA
 Member, Standards Australia, Committee CH 026, Safety in Laboratories
 Member, Coode Island Community Consultative Committee (CICCC) (Terminals/Maribyrnong Ccl)
 PhD study, part-time, RMIT University, safer sustainable automotive fuels

Former associations

Victorian Bushfires Royal Commission, Submission Preparation Technical Committee, SIA Inc
 Chair, Risk Stream, ICOMS Asset Management Conference 2007
 Chair, Risk 2004 Conference Committee, Risk Engineering Society
 National Chair, Risk Engineering Society, Engineers Australia (EA)
 Vice President, Victoria, Royal Australian Chemical Institute
 Member, Fire Safety Engineering Expert Panel, EA
 Member, Road Safety Sub-Committee, Victoria Division, EA
 President, Eastern Safety Group
 Chairperson, Health Safety & Environment Sub-committee CICCC
 Councillor, City of Williamstown (1982-1985)
 1st Lieutenant, Army Reserve RAEME (1980-1982)
 President, Wesley College Elsternwick Parents Association
 Member, Wesley Pride (Wesley College St Kilda Road Campus)
 Vice President, St Kevin's College Fathers Association
 Vice President, Victorian Parents Council Inc

Prior engagements : chronological - latest last

RUGBY PORTLAND CEMENT Co Ltd UK - laboratory analyst.
 BRITISH PETROLEUM Ltd Kent Refinery UK - laboratory analyst
 & undergraduate project engineer.
 REED PAPER GROUP Ltd UK - laboratory technician, paper and
 board products, 1 year.
 PROCTER & GAMBLE Ltd UK R&D Division - process
 development engineer, soap & edible oil products, 5 years.
 INDUSTRIAL ENGINEERING Ltd Chemical Plant & Engineering Division - senior chemical engineer -
 design, supply, installation and commissioning of filtration, mixing, grinding and spray drying plant, 3yrs
 HUMES Ltd - production manager, PVC pipe manufacture, 1 year.
 B F GOODRICH CHEMICAL Ltd - safety & environment engineer - dichloroethylene cracking & vinyl
 chloride polymerisation - responsible for plant-wide safety & environmental performance, 11 years.
 THOMAS ENVIRONMENTAL CONSULTANTS - provision of contract engineering services to
 industry and fuel/chemical distribution terminals, 5 years.
 I F THOMAS & ASSOCIATES (IFTA), Consulting Engineers and Chemists, 22 years to date.



Two design-approved bitumen trailers

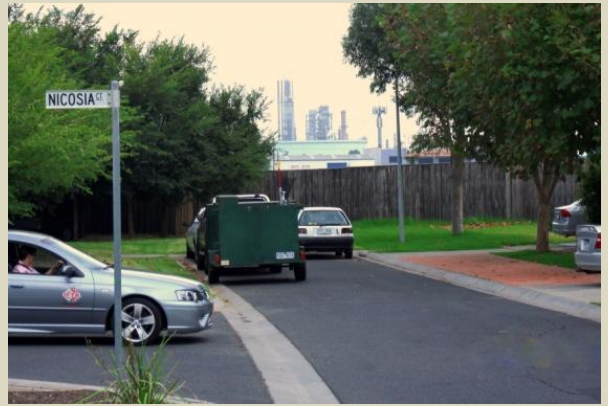


A design-approved bitumen sprayer

Publications and presentations

92 in the period 1980-2012 on the following topics

1970 Westgate Bridge collapse	6
1974 Flixborough disaster UK	3
1991 Coode Island fires	14
1998 Longford Gas Plant accident	4
2005 Buncefield explosion UK	4
Dangerous goods	13
Process safety & loss prevention	14
Sustainability & environment	10
Occupational Health & Safety	10
Vapour cloud modelling	5
Tunnel safety	5
Alternative fuels	4



Planning adequate separation between sensitive land uses and Major Hazard Facilities (MHFs)

Copies of papers are available upon request.

ASSOCIATE, Mrs Joan A Thomas

Qualifying memberships

Associate Member of the Royal Australian Chemical Institute (RACI)
Companion Member of the Institution of Chemical Engineers (ICHEME)
Associate Member of the Australian Institute of Occupational Hygienists (AIOH)

Associations

Treasurer, Health Safety and Environment Group, Victorian Branch, RACI
Committee Member, Western Safety Group
Member, Risk Engineering Society of Engineers Australia
Member, Stolthaven (Coode Island) Consultative Group
Past President, Christian Brothers College Parents and Friends Association
Past Member, Purple & Gold Committee, Wesley College Elsternwick Campus



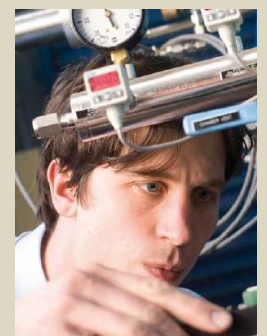
Prior engagements : chronological - latest last

WINTHROP LABORATORIES, UK - laboratory analyst, 3 years
PROCTER & GAMBLE Ltd, UK - technical assistant, 2 years
WATSON VICTOR Ltd, technical sales representative, 1 year
DULUX AUSTRALIA Ltd, technical assistant, 3 years
ICI AUSTRALIA Ltd Central Research Laboratories, laboratory technician, 3 years
ICI AUSTRALIA OPERATIONS Pty Ltd, receptionist to chief executive and directors, 1 year
RMIT TAFE COLLEGE, laboratory technician, 1 year
I F THOMAS & ASSOCIATES, Consulting Engineers and Chemists , 22 years to date



Associate Simon Thomas preparing to supervise and monitor a confined space entry

Associate Stuart Thomas operating a high-temperature furnace



FEES CHARGED

Principal	\$150/hr plus GST
Principal as expert witness	\$300/hr plus GST
Senior Associate	\$100/hr plus GST
Junior Associate	\$ 80/hr plus GST
Office support	\$ 50/hr plus GST

Air/Water/Soil/Asbestos Chemical/Physical Analysis, Contaminated Site Remediation, Workplace Noise/Fume Monitoring, Stack Monitoring, Workforce Training, Underground Tank Testing/Remediation, all at scheduled rates



Senior Associate Joan Thomas conducting soil sampling during a major site contamination assessment

City travel - at the above rates, country travel - 70c/km

Quantified Risk Assessment



To prevent ...

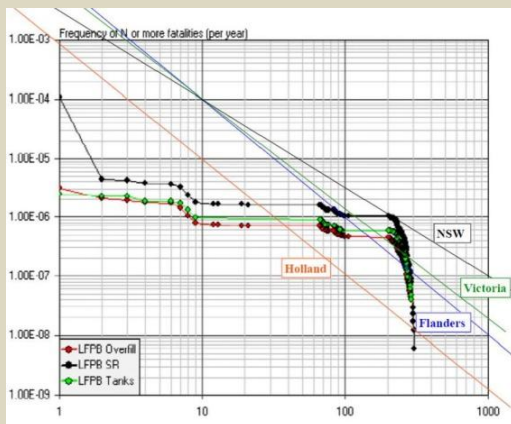


THIS happening at your facility, and leading to

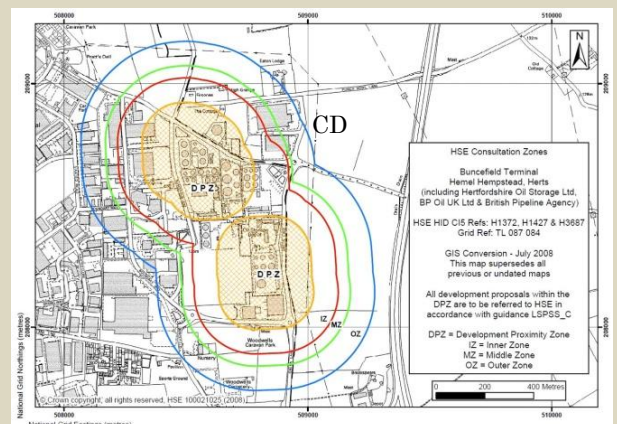


THIS, as happened at Buncefield UK in December 2005

consider asking I F Thomas & Associates to conduct a risk assessment. We perform Quantified Risk Assessment (QRA) by using (i) hand calculation (ii) TNO Effects 8 modelling (iii) GexCon FLACS Computational Fluid Dynamics Explosion modelling (iv) GexCon Probabilistic Analysis AND, (v) by applying the findings of extensive research conducted after Buncefield by the UK Health and Safety Executive (HSE).



Typical graph of Frequency of Occurrence vs Number of Deaths caused (F/N plot)



Post Buncefield Consultation Distance (CD,400m) inside which HSE must be consulted to obtain planning permission for proposed developments

The Buncefield photograph and data above are provided courtesy of the UK HSE Buncefield Major Investigation Board (MIIB). Aerial photographs are provided courtesy of Google Earth. Bitumen trailer and sprayer photographs are provided courtesy of Matthews Brothers Engineering Pty Ltd.