



The Alton Towers Project A Case Study





- Part of Alton Towers hotel, the spa opened in 2004.
- Hydro pool, hot tub, foot baths, 5 relaxation rooms.



"Protecting you & your premises"



The Problem



- Stace consultants to Alton Towers
- Hotel at end of 10 year warranty with builders
- Passive Fire Protection Issues
 - Protection of Steel Girders and Beams
 - Compartmentation



The Enforcers



- Building Control
- Fire Authority
- Insurer



The Historical Evidence

Recent Events

- Cliveden House Spa Jan 2016
 - Awaiting insurance details
- Junction Leisure Bournemouth Dec 2014
 - £750,000.00 insurance pay-out
- Eden Isles Florida Jan 2015
 - 1 fatality
- Northern Moscow Dec 2008
 - 6 fatalities





The Solution

- Comprehensive site survey
- Passive Option Problems
 - Close spa to gain access to girders for fireproofing

Close spa to install compartmentation in ceiling void above Crystal

Bath room

Cost





The Solution

- Comprehensive site survey
- Active Options
 - Keeps the spa open
 - Install sprinkler system
 - Plant space, pipe sizes and cost
 - Install high pressure watermist system
 - Cost
 - Install low pressure watermist system
 - Potential





The Testing

• IMO Resolution MSC 258 (84)



MED approval from Lloyd's Register



Approved By DNV



FM5560 Appendix 1 for HC-1





The Benefits

Low Pressure Watermist System

Less installation time than other options

Minimalize damage to structures

More cost effective





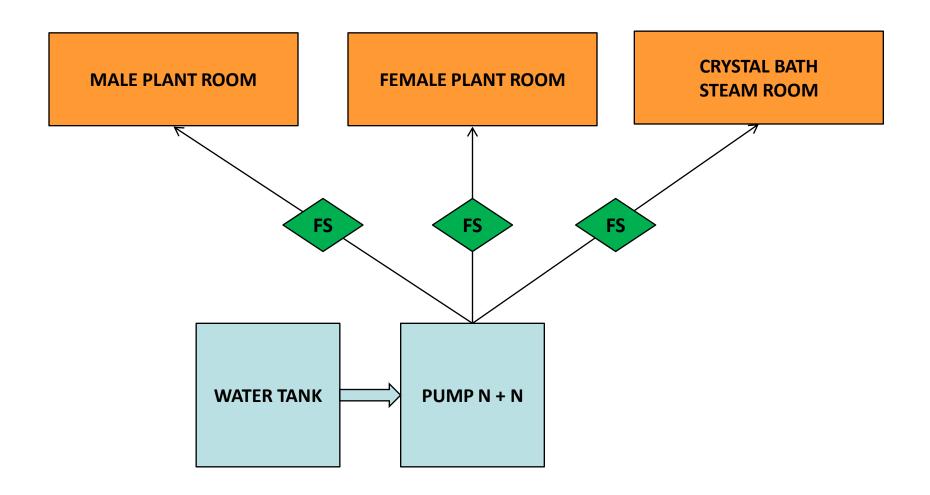
Specific Benefits to Alton Towers



- No need to close the spa to the public
- Worked at night to minimise disruption
- Small pipe works minimal re-decoration
- Drainage, power and water supply already available
- Small tank and pump fitted easily into existing plant room space
- Interfaced with fire alarm system for rapid response



The Installation



"Protecting you & your premises"



Standards



Installed and maintained to standard NFPA750



More Information





Guidance to Watermist Systems





Risk Management Guidelines





"Protecting you & your premises"



More Help or Advice?

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Thank you for listening