

CA Draft Standard for Overfill Protection Systems

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Background – BSTG Report

- Result of working closely with industry
- BSTG JUNE 2006 –JULY 2007
- Sufficient independence to ensure integrity
- No reliance on external systems or operators
- SIL determination to BS EN 61511 2004
- Management systems to BS EN 61511
- Improvements to achieve SIL
- Management and testing to maintain SIL

CA DRAFT STANDARD



- Essential element of primary containment in line with MIIB Report on Design & Operation
- Agreed methodology ---LOPA agreed
- HIGH INTEGRITY (SIL1 or better)
- AUTOMATIC to avoid common mode failure
- Independent ,physically & electrically separate
- All tanks ,all applications inc ships & refineries

CA Draft Standard - Scope

- Petrol and similar substances with potential for Vapour Cloud Explosion
- Extension of CA Containment Policy
- Applies immediately to new sites and modifications
- Existing sites in agreed timescales

Problem areas- Industry Workshop

- LOPA SIL determination errors
- Ships offloading and pressure surge
- Refinery run down
- Valves availability ,Tank shut down
- Expertise in Risk assessment
- Future work proposals to meet MIIB recommendations

Future Work Plans

- Systems and automatic shut down, Maintenance and testing
- Management and records
- LOPA and SIL determination
- Improved components and leak detection