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Automation and Placement of Intermediate Line Valves



Presented by Rob Hornby

Introduction



Regulations and Standards

- CP 2010 (British Standard)
- BS EN 14161 > PD 8010 (British Standard)
- Pipeline Safety Regulations (UK Statutory Instrument)
- ASME B31.4

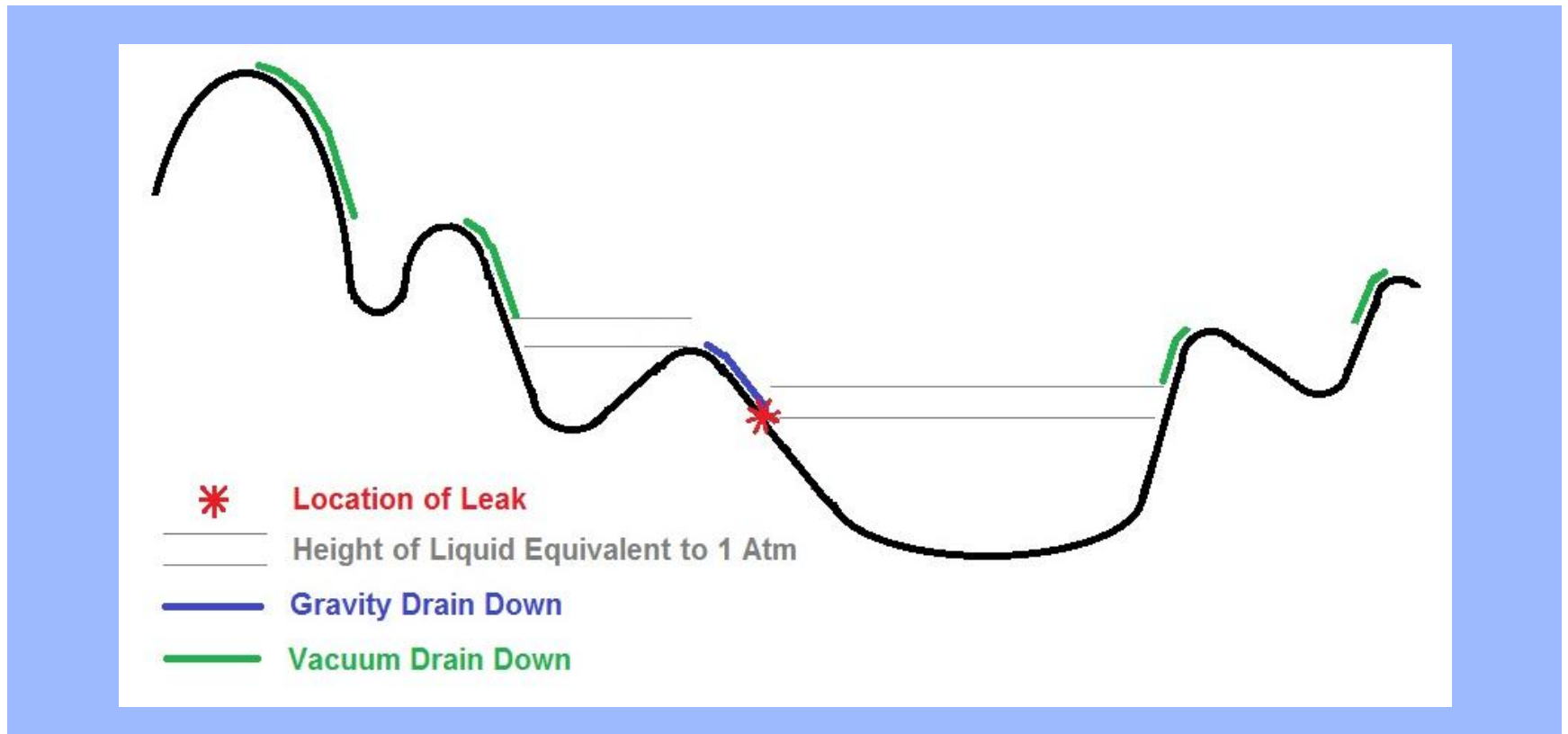
Probability of a Pipeline Incident – Proactive Measures



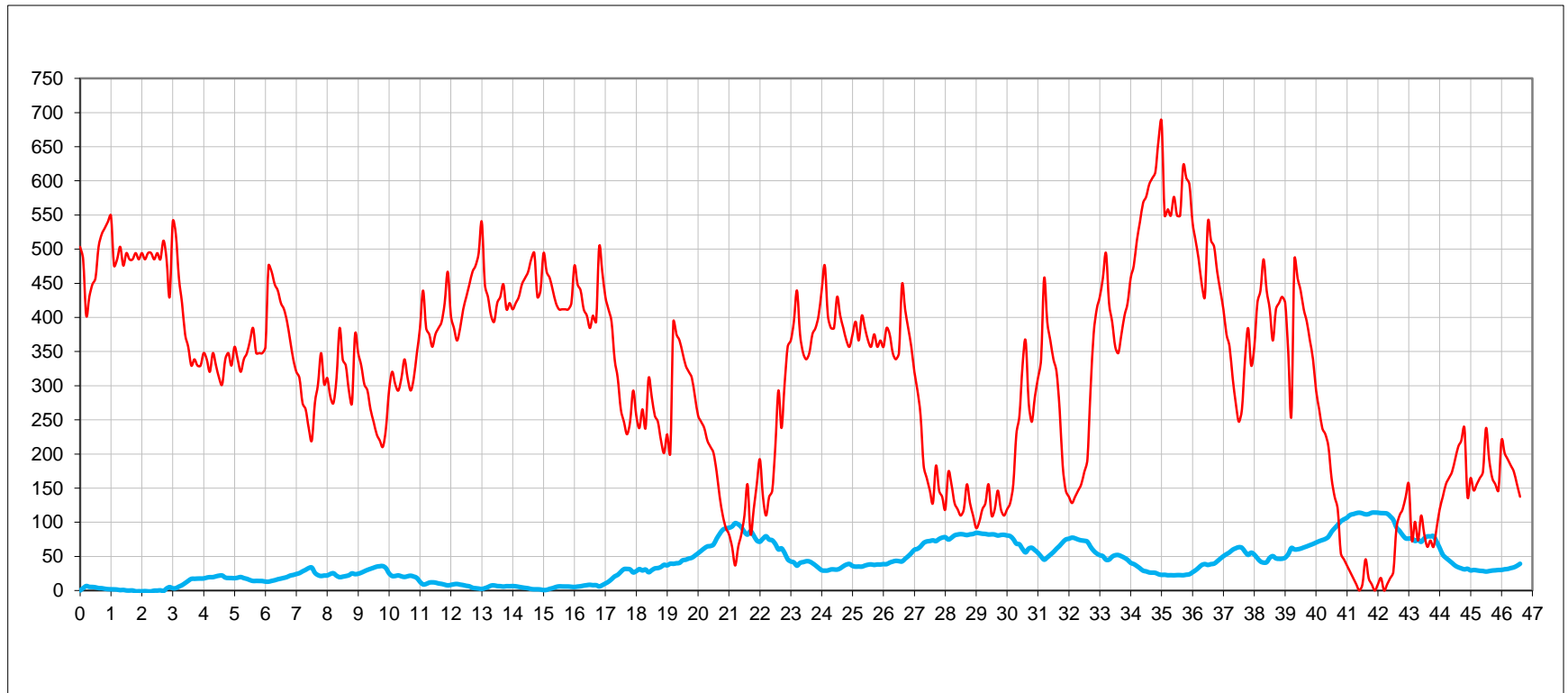
Consequence of a Pipeline Incident – Reactive Measures



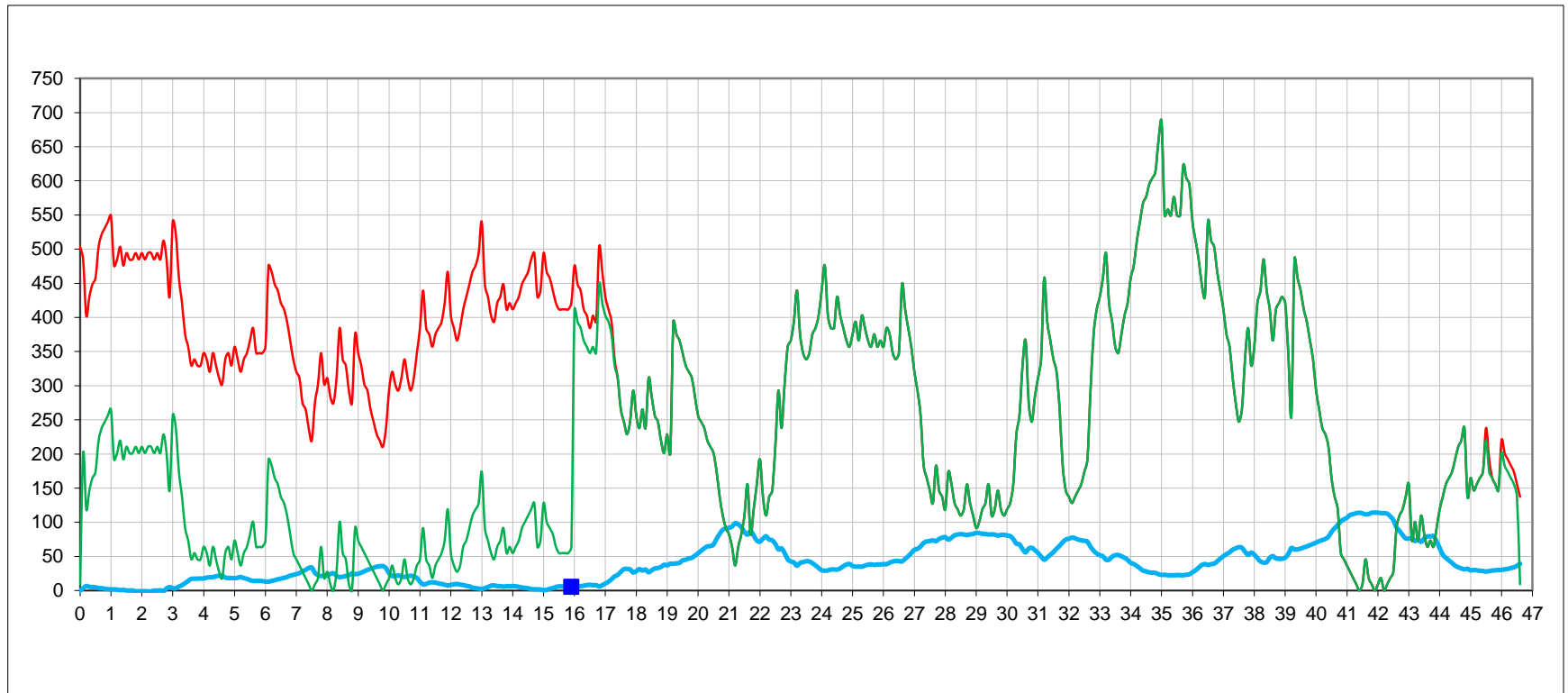
Consequence of a Pipeline Incident – Drain Down



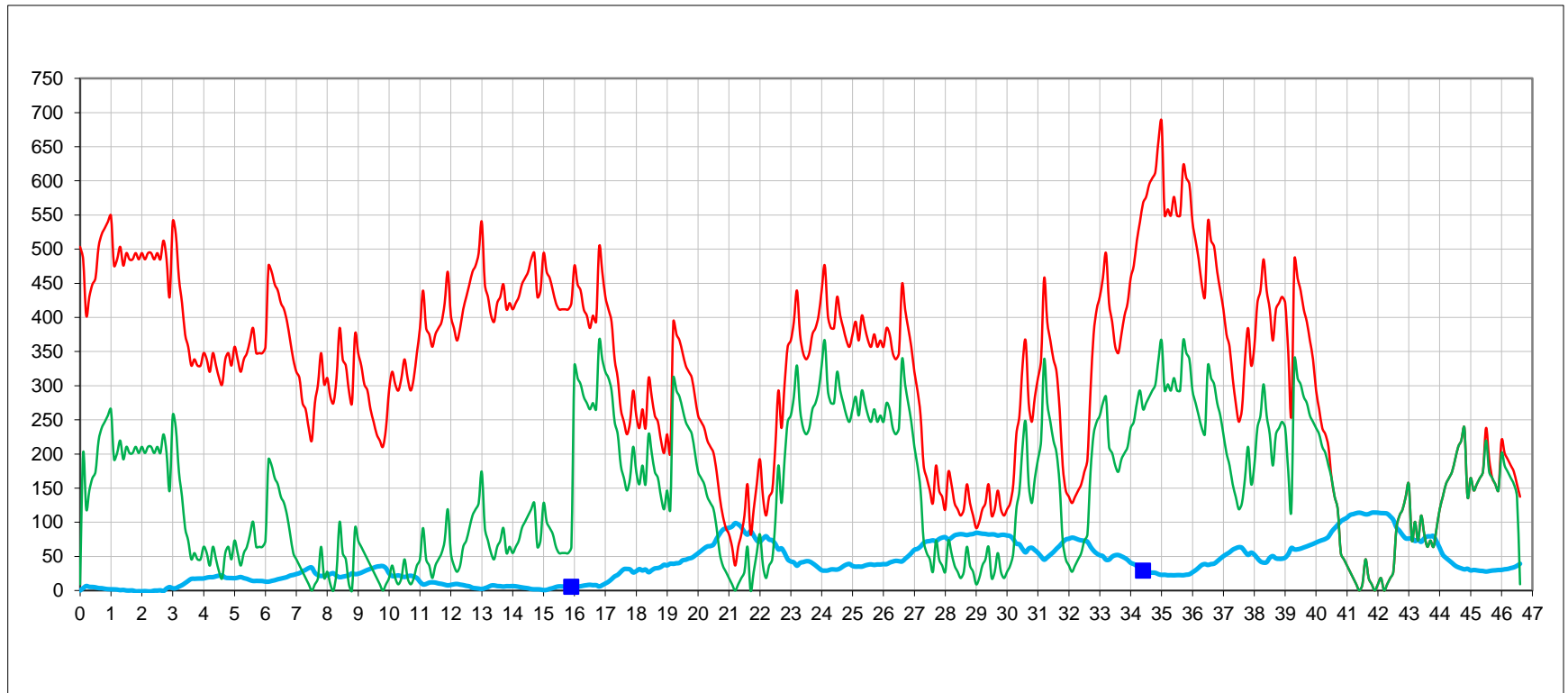
Positioning of Valves – No Valves



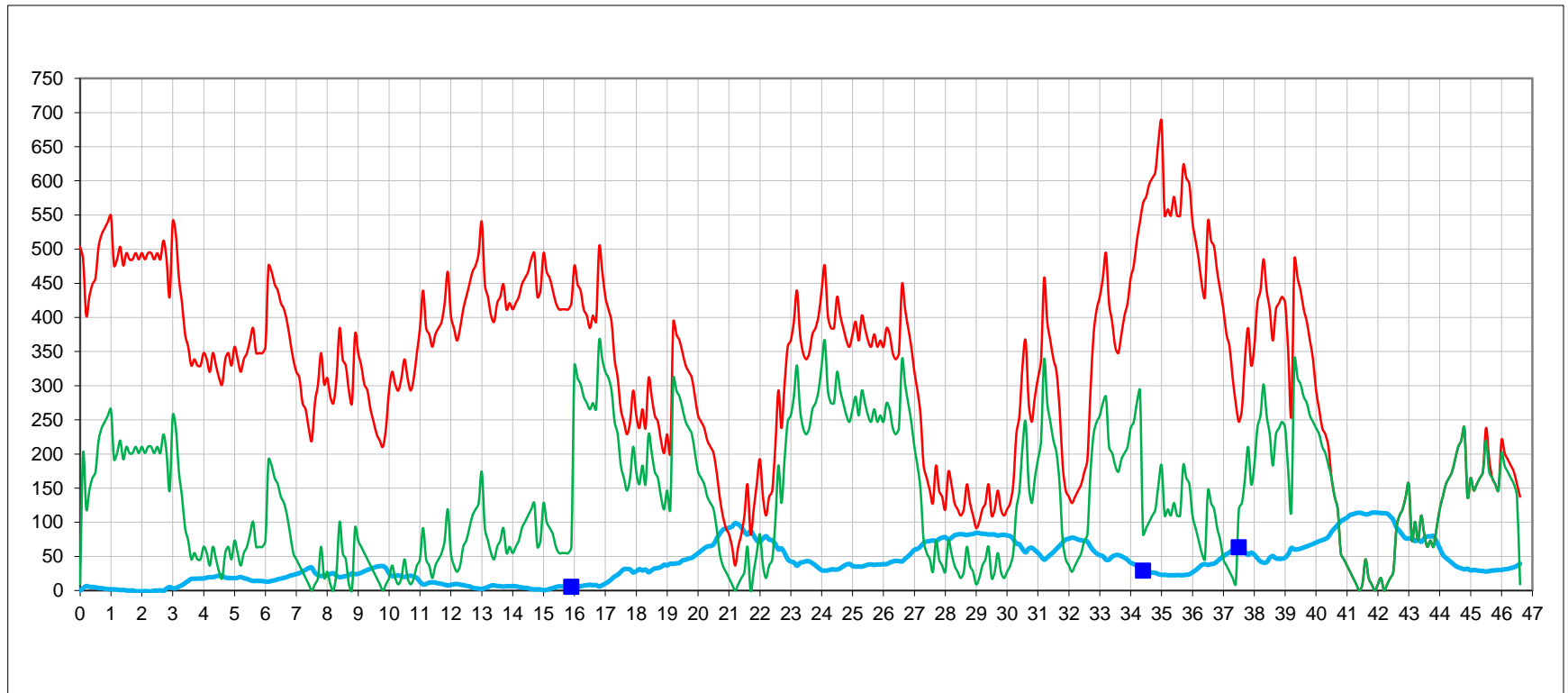
Positioning of Valves – Existing Valve (212m³, a 33% reduction)



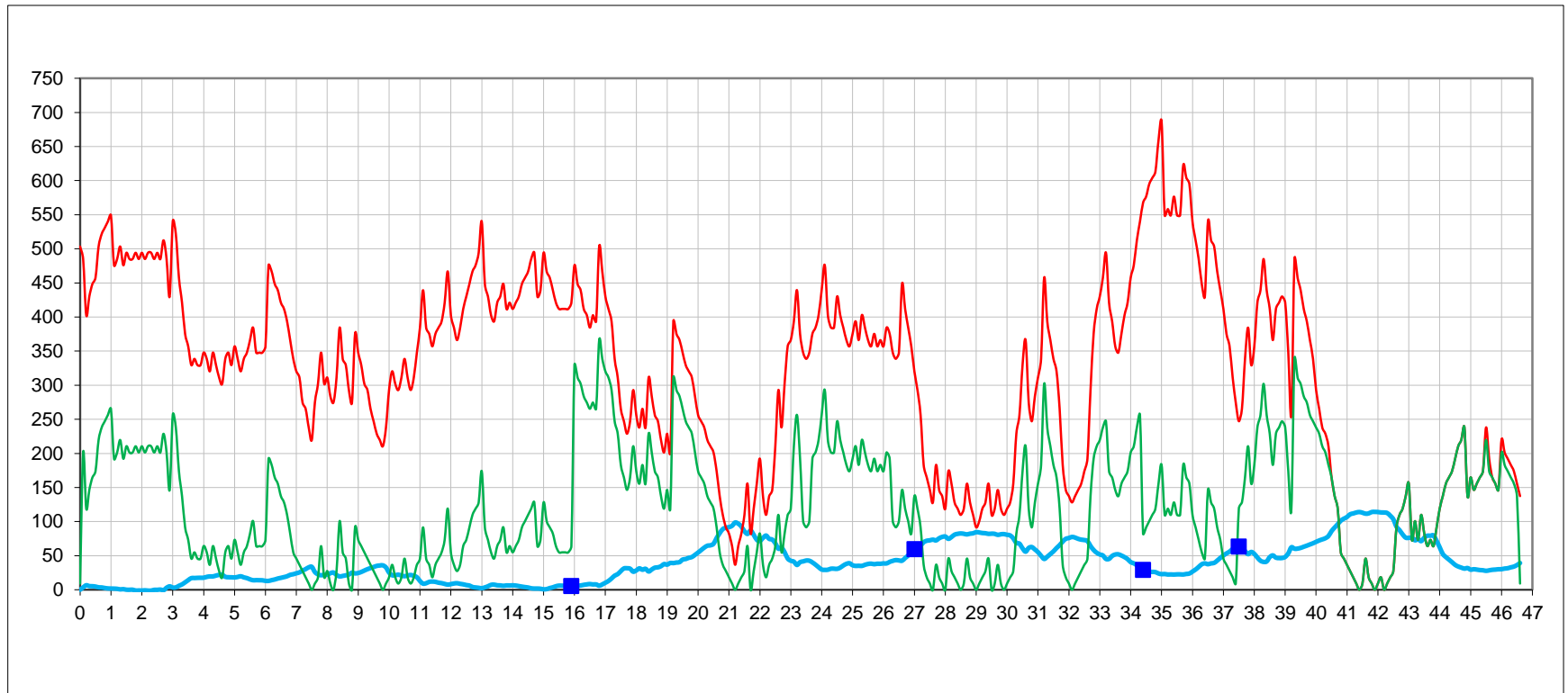
Positioning of Valves – Two Valves (146m³, a 21% reduction)



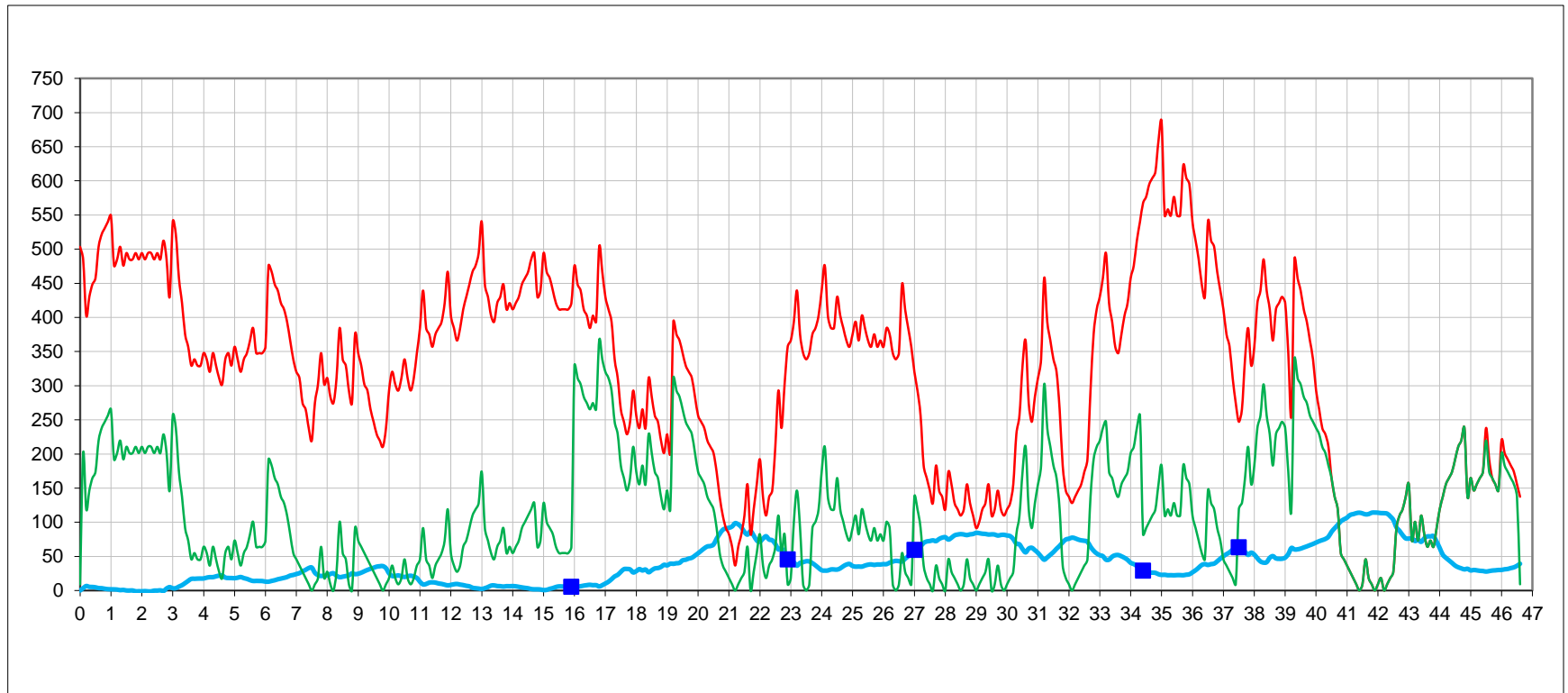
Positioning of Valves – Three Valves (134m³, a 4% reduction)



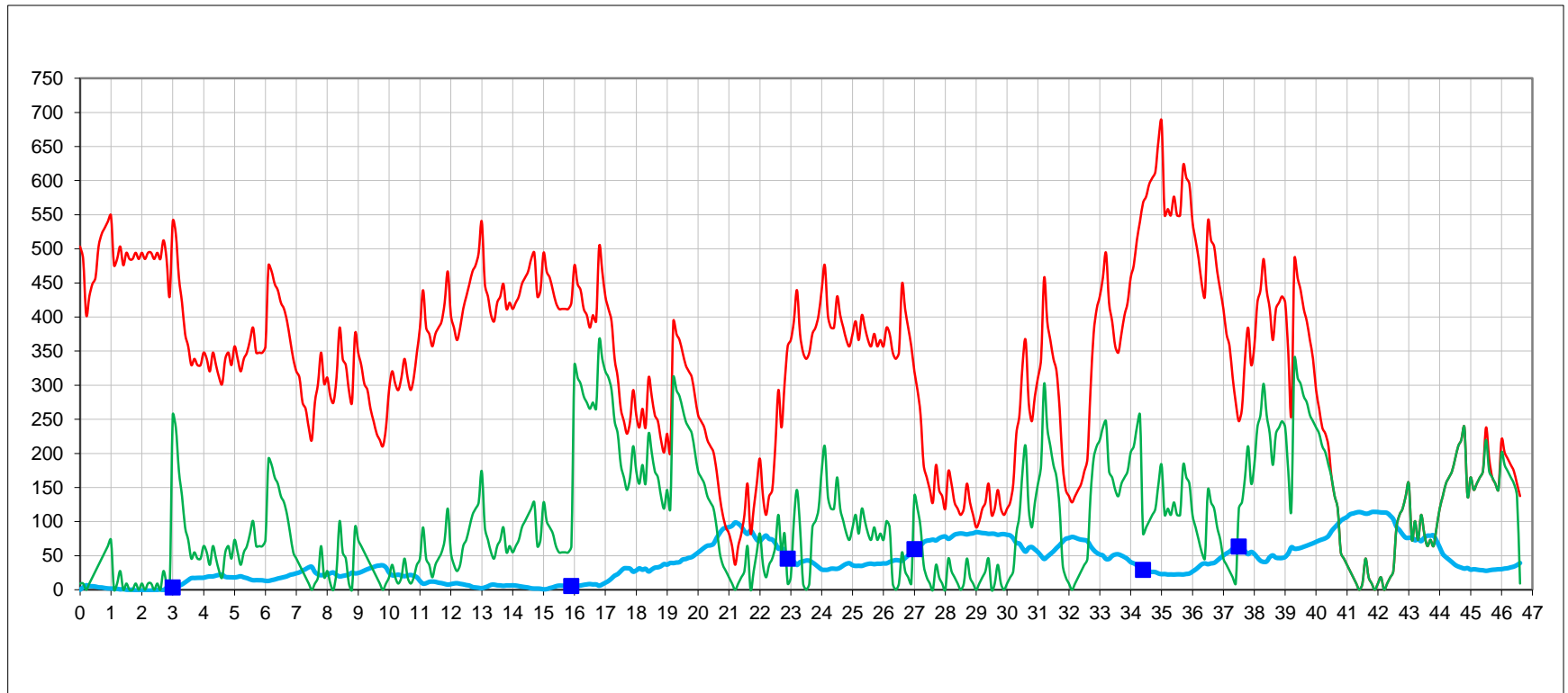
Positioning of Valves – Four Valves (120m³, a 4% reduction)



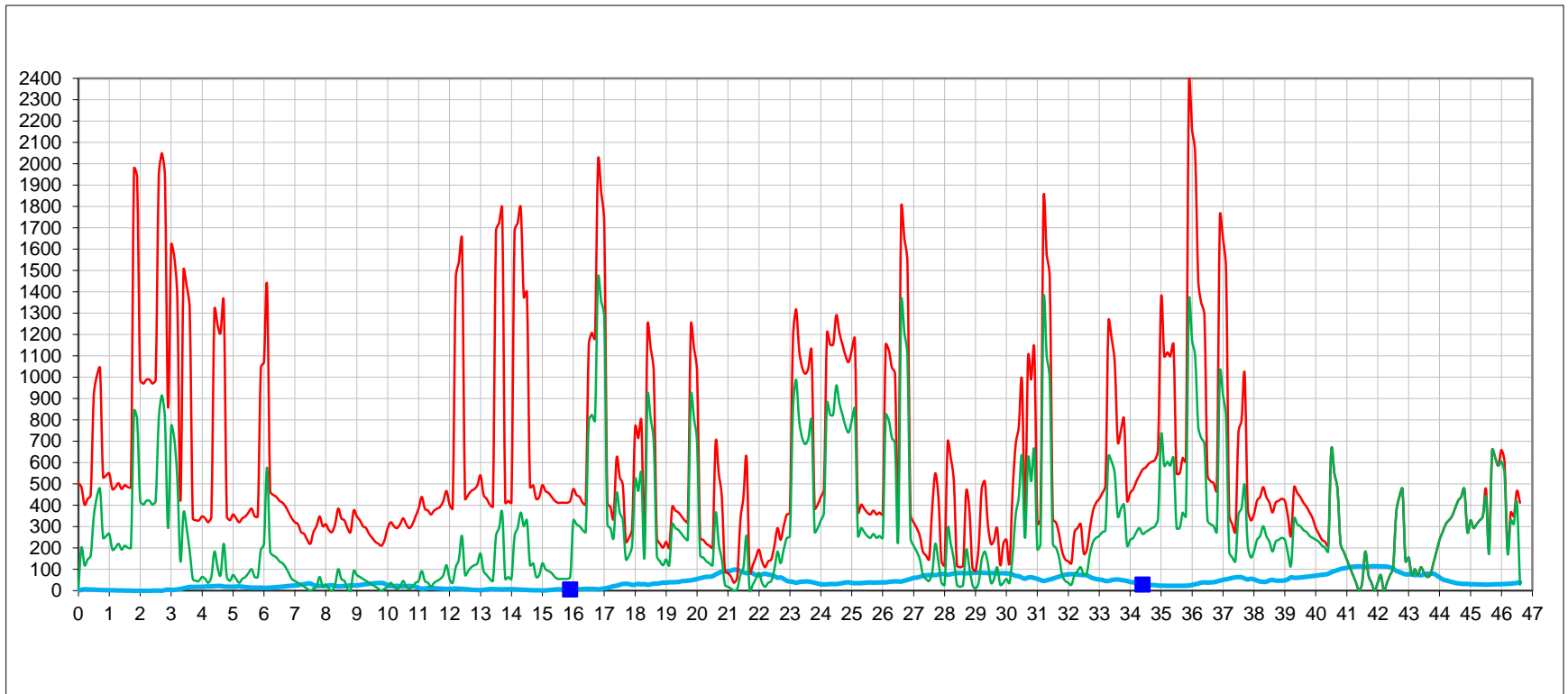
Positioning of Valves – Five Valves (111m³, a 3% reduction)



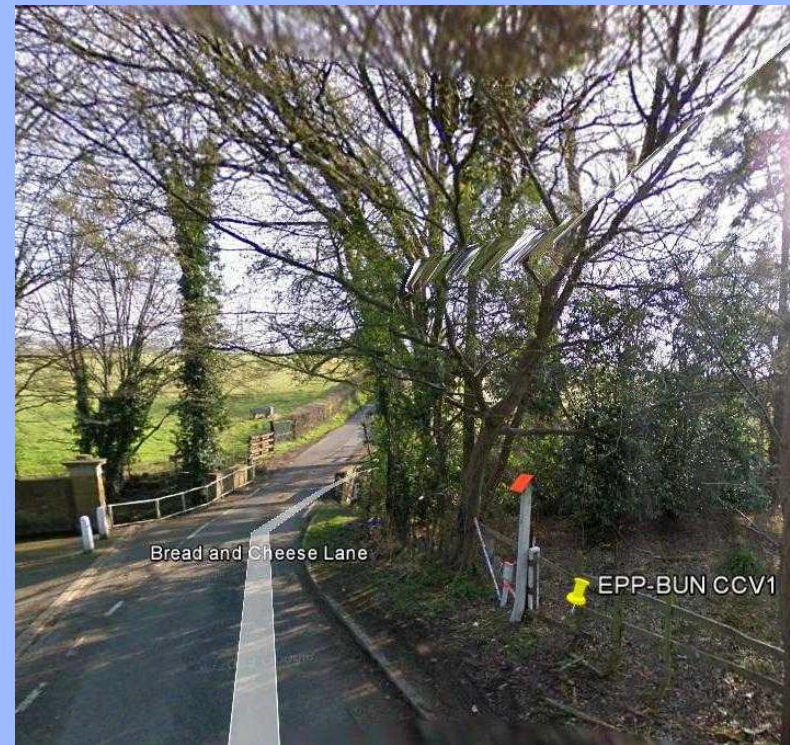
Positioning of Valves – Six Valves (100m³, a 4% reduction)



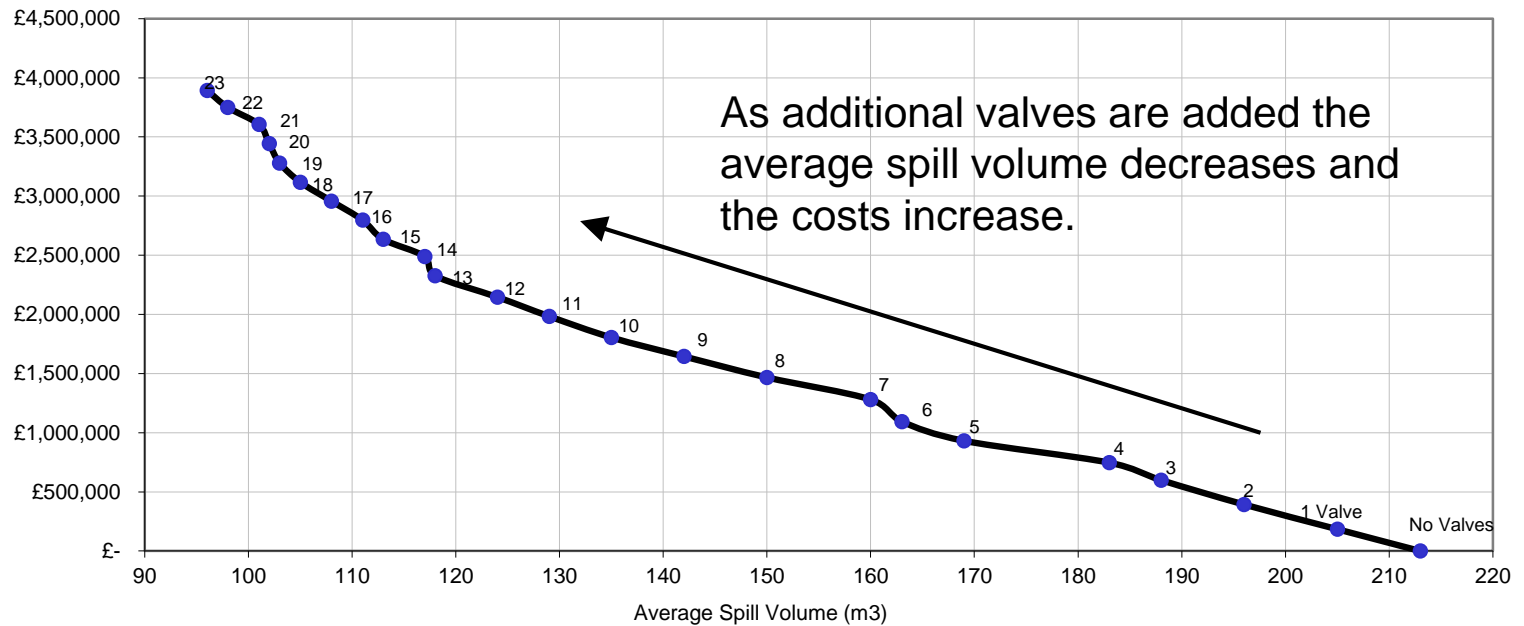
Positioning of Valves – Sensitivity Adjusted



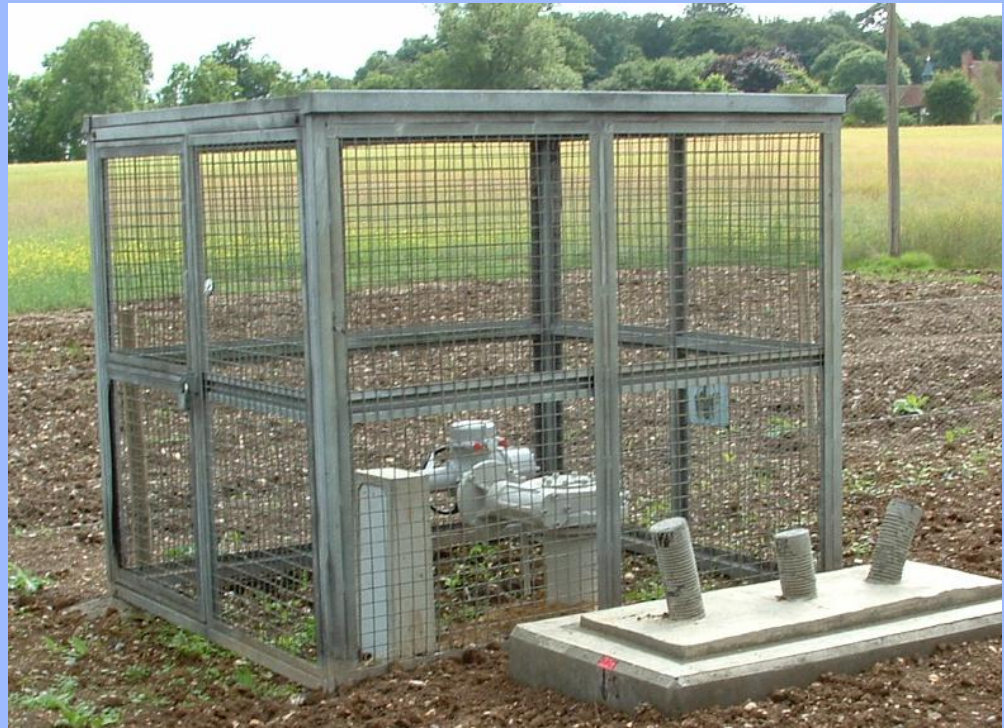
Physical Location of Valves



Justification



Automation



Installation



Installation



Installation



Installation



Questions

- Any questions?