

# HIPPS stands for High Integrity Pressure Protection System



**HIPPS provides a method preventing an overpressure condition using programmable logic solvers (PLC) and instrumentation.**

HIPPS is used when a mechanical relief device such as a Pressure Safety Valve (PSV) is not practical or cannot provide the required level of mitigation to an over pressure event.

A HIPPS system needs to provide the same Safety Integrity Level (SIL) that is provided by a PSV (SIL3).

Typically a HIPPS system needs to be registered with the AHJ (i.e. ABSA) and thus must follow the defined implementation standard to ensure approval.

## A HIPPS system may be the right solution to your following issues:

- Do you need to re-engineer and/or re-license an existing flare system to meet revised pressure or capacity requirements?
- Do you need to upsize the pressure rating for vessels within the CPF to meet feed stock process requirements?
- Do you need to add an expensive product handling system to deal with the consequences of a PSV event?
- Have you added or re-completed wells that can operate at a higher pressure than your plant or compressor can handle?
- Do you have an critical asset that needs ultra-reliable protection?

## MICA Controls has a proven track record of installed applications :

- SAGD Central Processing Facility (CPF) protecting fuel gas pressure vessels not rated for possible upstream high pressure events. (ABSA registered)
- SAGD CPF protecting inlet process vessels not rated for possible upstream high pressure events of multiphase emulsion. (ABSA registered)
- Gas Processing Facility protecting inlet process vessels not rated for a possible event of high upstream pressure from new producing wells. (ABSA registered)
- Well site gas injection protection of the reservoir from potential high pressure produced by compressors.

## Available HIPPS Architecture features:

- Fully fault tolerant electronic components
- 2oo3 transmitter configuration for high availability and ease of maintenance
- 2oo2 valve train architecture for high availability
- Partial stroke testing with fault monitoring
- Fully monitored valve position diagnostics
- Safe integration with existing plant BPCS
- No license or maintenance fees
- Ease of maintenance via imbedded automatic diagnostics

