

REDUCE MAN-HOURS. DRIVE CONSISTENCY. ENSURE PROCESS COMPLIANCE.

**\$10
BILLION**

Typical investment to build a competitive production facility

**2000
SIFS**

Conservative count of Safety Instrumented Functions (SIFs) to support a similar-sized facility

**20
HOURS**

Conservative estimate per SIF to design and comply with IEC 61511/ISA-84

Process safety is a significant, mandatory investment in today's global market

Traditional approach to safety is inefficient, and documentation is unusable post-design

5-7 

WORK GROUPS

Average number of teams from PHA to logic, internal staff, consultants and EPCs

5+ 

DATA SOURCES

Disparate reports and tools supporting safety lifecycle

\$150 

PER HOUR

Conservative blended hourly rates for process safety engineering

ROLES INTEGRAL TO THE PROCESS SAFETY LIFECYCLE

- Management
- Process Safety Engineers
- Functional Safety Engineers
- Instrument & Controls
- Automation and O&M



INFORMATION GATHERING, DELIVERABLES, REPORTS, AND TOOLS

- PHA & LOPA Reports
- SIL Verification
- Safety Requirements Specification
- SIS Cause & Effects
- Functional Test Plans



Potential when leveraging a digitized process safety lifecycle during capital project execution

WHAT IS YOUR COPY FACTOR TO UNLOCK SAVING?

65%

Typical copy factor between equipment and SIFs

\$ 2.7 MILLION

Savings in functional safety engineering services alone

Lifecycle Enabled

Data generated in design is ready to be used in operations to validate assumptions and make risk-based business decisions



Reduce



Drive



Ensure

Sources: Polling customer base globally, HPS experience and 2018 press releases

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