















**In the Far East there are Process Plants in need of process hazard analyses, risk management programs, probability & consequence analyses, and hazard & operability reviews.**

***We're their safest choice.***

## Is your Process Plant safe?

Carmagen Engineering, Inc. (CEI) has industry-proven expertise and extensive experience covering a broad range of safety program services, including:

 Design of safety facilities, including related calculations	 Safety training courses and operator workshops
 Process hazard analysis (PHA) and related studies	 Mechanical integrity evaluations
 Safety and compliance audits	 Human factor considerations
 Risk management programs (RMP)	 Probability & consequence analysis, and vapor dispersion modeling
 Hazard and operability (HAZOP) reviews, including resolution of identified issues	 Incident investigations
 Layers of protection analysis (LOPA)	 Litigation support
 Safety integrity level (SIL) and safety instrumented systems (SIS)	 Safety reporting, data monitoring, and documentation

Carmagen brings an efficient knowledge-based approach to process safety evaluations, having technical consulting staff averaging over 30 years experience in refining, petrochemical, and chemical industries. Practical experience, data completeness/accuracy, and technical knowledge are essential when evaluating plant safety during a HAZOP on a new unit or on existing facilities.

The HAZOP objective is to identify, categorize, and prioritize potential hazards and action issues that need attention to result in a safer plant. CEI can provide HAZOP leadership as well as the robust technical support necessary to augment or comprise your multi-disciplinary team, assist you to resolve technical issues, and comply with legal mandates.

***To find out more about what Carmagen can do for you, check out our website or contact Jerry Lacatena at [jlacatena@carmagen.com](mailto:jlacatena@carmagen.com).***

All the right people in all the right places.<sup>SM</sup>

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