

**ENGINEERING SERVICES**  
FACILITY SITING STUDIES



TESTED FOR LIFE



In a hazardous area, it's crucial to consider damages from explosions, fires and the release of toxic materials - before they occur. RedGuard offers Facility Siting Studies, a consequence-based approach to risk management that assesses the impact of such events, allowing you to calculate risks and prevent accidents.

## FACILITY SITING STUDIES

### Protecting Health, Safety and Environment

At RedGuard, we're known for safety, however, protecting lives and assets with our blast resistant buildings is just one way we accomplish that. Facility Siting Studies, part of our Engineering Service offerings, can help you manage the risks associated with working in hazardous environments, and prevent accidents resulting in major financial loss, injuries, and lost lives.

At RedGuard, Facility Siting Studies are done by a third party engineering firm to comply with regulations, meet industry guidelines and reduce the chances of public exposure. The OSHA 29 CFR Part 1910.119 Process Safety Management regulation (known as PSM) requires a facility siting study to be carried out in a company's Process Hazard Analysis (PHA). Failure to conduct facility site studies could result in fines from OSHA, as well as trigger actions with more far-reaching consequences. All refineries, petrochemical or other chemical operations, and other facilities covered by the PSM regulation are required to complete facility site studies.

### Hazard Analysis

A proper study will include a thorough assessment and offer mitigation solutions. Our partners will give a clear analysis of potential hazards on your unique work site from explosions, fires and toxins. They'll assess the damage that would be incurred by occupied buildings and the harm subjected to onsite personnel. Damage levels will be illustrated with overpressure maps of a calculated explosion. They'll analyze the impact to onsite buildings, from both an exterior and interior point of view, plus, look at offsite areas and determine the response of each area to a blast.

### Hazard Mitigation

RedGuard will provide guidance to reduce risk from explosion, fire and toxic hazards to personnel in buildings. The analysis will include recommendations to reinforce existing buildings, replace them with blast resistant buildings, or to determine if buildings should be relocated to areas less susceptible to damage. Because we work with the integrity of a third party, you will never have to worry that our analysis is adjusted to sell buildings or service. Your safety is our priority.



### A RedGuard Facility Siting Study includes:

OCCUPIED BUILDING ASSESSMENT

FIRE, TOXIN AND EXPLOSION STUDY

TEMPORARY BUILDING SITING

PERMANENT BUILDING SITING

### Why RedGuard?

RedGuard is the leading authority in blast resistance and a world leader in providing safe, customizable and scalable modular buildings. RedGuard has aligned with industry-leading strategic partners who are known across the globe, and with a third party engineering firm recognized as the foremost authority on blast engineering. To save time and money, and to mitigate hazard areas as soon as they are identified, RedGuard can provide you with immediate turnkey solutions, or we can custom engineer a solution based on site requirements.

CONTACT US

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#### OUR GLOBAL FOOTPRINT

**Central U.S.A**  
Wichita, KS

**Southern U.S.A**  
Baytown, TX

**Gulf Coast U.S.A**  
New Iberia, LA

**Canada**  
Calgary, Alberta

**Asia**  
Singapore 508988

**Middle East**  
Dubai, United Arab Emirates

**Europe**  
Aberdeen, United Kingdom

Rotterdam, The Netherlands

