Integrating Supply Chain and Facility Risk Analyses to Drive Business Decisions

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ABSTRACT

Typically, businesses manage supply chain risks separately from fixed facility risks. However, where significant fixed site risk reduction can negatively impact a supply chain, an integrated study that addresses both supply chain and fixed facility risk must be done. To assure a comprehensive risk analyses, a supply chain risk study must include rare/high consequence events, as does the fixed site study. A case study will be presented for a facility that imports, stores, and consumes large volumes of a highly toxic material, and is located in a highly populated area. In addition the site area is small, resulting in populated areas that are immediately adjacent to the facility. The methods used to identify business risk reduction opportunities (RROs) for the facility and the supply chain, and the process to determine the most cost-effective solutions will be described.