

***“Existing Buildings Risk Indicator (EBRI)©” by Ali A. Almudhei, Saudi Aramco***

Evaluating the code compliance of existing international buildings is a challenging exercise, especially when previous building codes were not enforced during the design and construction. As a result, an innovative indicator has been developed by group of building safety experts, to measure the level of risk at any type of building based on the adopted building code requirements. This risk-based indicator enables code enforcement authorities, investors and property owners to make relevant business decisions, including major upgrades of the property. The risk-indicator analyses multiple factors that measures the consequences of the potential risk of each building and the likelihood of a failure of design and operational risk mitigation measures. The indicator plots the result of the analysis on a risk-based chart which will indicate if the building is at low risk and no action is required or at high and intolerable risk , where major upgrades or building evacuation are necessary.