

# ENGINEERING & CONSTRUCTION RISK INSTITUTE

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## Replicate Plants

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**Introduction:** This Best Practice discusses the key issues surrounding the concept of constructing repeat or replicate plants.

**Purpose:** From time to time, under exceptional circumstances, consideration may be given to the concept of building a replica plant. The main motivation may be saving time and money in addition to operability and maintenance considerations that can be achieved with a replica plant

However, replica plants are not as straightforward as it they initially appear.

This document looks at the issues and risks associated with designing and building repeat or replicate plants.

**Scope:** Building a replica plant is either driven by the owner, which due to desired cost and time savings may want to build a repeat plant, or the EPC contractor who may find a sales/competitive advantage in offering a repeat plant that has been built by the contractor for the owner or another client.

Replica plants can be a way to save time and money and from the owner's perspective, take advantage of known performance, operation and maintenance familiarity from the original plant.

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