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BLOMBERG

PROVIDING SUSTAINABLE TECHNICAL  
AND BUSINESS SOLUTIONS

## CASE STUDY

### General Motors Corporation - Detroit, MI

#### FAST FACTS

- In 2006, 9.1 million General Motors vehicles were sold globally
- General Motors has been a global industry sales leader for 76 years
- General Motors' largest national market is the United States, followed by China, Canada, the United Kingdom and Germany
- General Motors was founded in 1908 in Flint, Michigan
- General Motors employs 284,000 employees around the world
- General Motors headquarters resides at the Renaissance Center in Detroit, Michigan

Founded in 1908 in Flint, Michigan, General Motors Corporation is the world's largest automotive company. With global headquarters at the Renaissance Center in Detroit, Michigan, General Motors manufactures its cars and trucks in 33 countries and employs 284,000 people around the world.

In 1999, Sebesta Blomberg was retained by General Motors to provide mechanical and control systems commissioning documentation services to the multi-phased complete renovation of the 5.5 million square-foot Renaissance Center in Detroit. The Renaissance Center, a group of 7 interconnected skyscrapers located on the Detroit International Riverfront, is the tallest building in Michigan since 1977. The building consists of four office towers, a hotel and retail space. In addition to the office space renovation, the first five levels of the complex (400,000 sq ft) included the creation of a five-story, glass enclosed Wintergarden, creation of a 35,000 square-foot museum, 40,000 square feet of exhibit space, a complete renovation of the 1,342 room Marriot Hotel and creation of a 12-foot wide glass circulation walkway accessing all four office towers.



In 2003, General Motors retained Sebesta Blomberg again as the Commissioning Agent for the new Central Utilities Complex at the General Motors Lordstown Assembly Plant. The new Central Utilities Complex serves the paint shop and existing assembly and metal fabrication plants in Lordstown, Ohio. The plant and process systems commissioned included: chilled water, cooling tower water, steam generation and condensate return, hot water, compressed air, high purity water treatment, process industrial water, refrigerant monitor and exhaust, regular and emergency electrical power distribution, HVAC and energy and utility monitoring.

At the time of the renovation, the top to bottom renovation of the Renaissance Center was the largest multi-use facility renovation effort of its kind underway anywhere in the world. Working with existing structure, multiple areas of construction and the regularly scheduled movement of people into renovated areas were part of the challenges of this project.

With renovations complete in 2005, the Renaissance Center is the tallest skyscraper in the Western Hemisphere, with the largest rooftop restaurant. The building is also one of the world's largest office complexes. Cost estimates to build the Renaissance Center today could exceed \$5 billion.