Changes for the Better

Quality in Motion

Project of the Year 2012 by Elevator World

2 significant projects which Mitsubishi Elevators and Escalators were installed have been awarded a prize of "Project of the Year 2012" by Elevator World Magazine.

What is "Project of the year2012"?
http://www.elevatorworld.com/project-of-the-year/

Category 1: Elevators, New Construction

300 East Randolph, Blue Cross Blue Shield Building, Chicago

(Mitsubishi Electric and Electronics, USA, Inc.);

<Building Overview>

Blue Cross Blue Shield Building is the headquarters for Health Care Service Corporation (HCSC) and its Blue Cross and Blue Shield of Illinois division. It was originally designed as a two-phase, vertically expandable office tower. When it opened in 1997, the building rose approximately 440-feet with 1.43 million square feet of space spread over 33 stories. 23 elevators and 8 escalators installed by Mitsubishi Electric & Electronic USA's Elevator and Escalator Division provided the vertical transportation (Phase1).
In 2006 HCSC had grown to a point where the Vertical Completion Project (VCP) became reality and expansion work to 57 stories had been started (Phase2). This expansion work had been completed in December 2010.

<Elevator Specifications for Phase 2 >

	Elevator		
Capacity(lbs)	4000	4000	6000
Speed(fpm)	1400	1400	500
Stops	12	12	24(additional)
Units	8	8	3
	Passenger elevator /Installations to new shafts		Service elevator / Story-increased work of existent elevator

<Major challenges of elevator installation in Phase 2 >

- The project team had to construct the entire VCP in a fully occupied building, without disrupting day-to-day operations or impacting the safety of the building's 4,000 tenants. It also had to be built without disrupting the existing structure. We carted as needed through the finished lobby areas to installation points. All rail support structures, rail brackets and elevator guide rails would be installed "after-hours" to minimize impact on HCSC employee and visitors.
- The design of the original building provided no landings for any of the 16 new passenger traction elevators and no access to hoistway between the lobby and the top occupied floor. More than half the rail brackets and nearly 2800 jumbo rails weighing 22 pounds per foot had to be installed and aligned in one 430-foot "jump" for each passenger unit until the first landing was reached.
- Three new service elevators were to replace the existing service cars in hoistways constructed directly above the existing equipment. Mitsubishi Electric would extend the main and counterweight guide rails upward from the original top-most service car rails, around the existing overhead sheaves and support steel carrying the "live" service elevators, then up into the Phase two portion of the building. An additional challenge was meeting the precise rail accuracy throughout the entire 800-foot service car hoistway in what were two separate structures.

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Category 3: Escalators, New Construction

Dubai Metro Green Line, Dubai

(ETA Melco Elevator Co. LLC);

<Project Overview>

Dubai Metro Green Line is one of biggest public transportation project along with Dubai Metro Red Line in UAE. Designed with 18 stations (12 elevated and 06 underground), it covers 22.5 km with a total of 230 vertical transportation units (145 escalators and 85 elevators) installed by ETA Melco Elevator Co.LLC. ETA Melco had installed 445 units of escalators and 221 units of elevators for both red and green line of Dubai Metro.

<Elevator and Escalator Specifications for Green Line>

	Elevator	
Capacity(kg)	1275	1600
Speed(mps)	1.0	1.0
Stops	2	2
Units	61	24

	Escalator
Rise	7.10-13.60
Speed(mps)	0.65
Inclined angle	30˚
Units	145

<Major challenges>

- Most of the escalators have a rise of 13.6 m, which required installation effort. Some of underground stations are located in the middle of heavy road traffic zones. That location required logistic difficulties when trusses were carried into the underground station. Those trusses were carried out during night time to meet the construction deadline.
- Working conditions of each station was different and there were challenges to hoist trusses and escalators. Together with ETA Melco engineers and technicians, the experts from Mitsubishi Electric were also involved in the installation of this project to meet challenges and keep best installation quality.

If you have any questions, Contact Us.