

KONE EcoMod™

A guaranteed solution to moving people quickly and efficiently



PROJECT

McCarran
International Airport
Las Vegas, Nevada

OWNER

Clark County, Nevada

MARKET SEGMENT

Airport

TIMELINE

June 2006 –
November 2006

CONSULTANT

Bechtel Infrastructure
Corporation

PRODUCT SOLUTION

4 EcoMod escalators



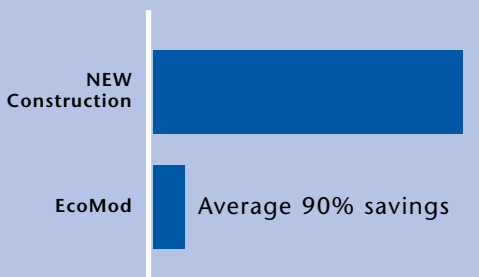
“We selected KONE to replace our escalators for two key reasons: the exceptional value that they provide and the minor disruption of service during construction. Disruption of service was most critical for us in an airport with such busy-passenger demands.”

Bob Kingston, Assistant Director, Department of Aviation – Facilities / Clark County

MKT-01-0161 12/20/2007

the savings

Additional Construction Costs



This information is an estimate.
Cost will vary with each project.

the challenge

- Replace 4 dual drive escalators in the busiest airport terminal that serves 46 million passengers per year
- Conduct work with minimal interference with passenger traffic
- Coordinate the work within the strict guidelines of high airport security and safety
- Provide a solution that is cost effective, provides safe passenger use and addresses today's environmental issues

the KONE solution

- Install EcoMod to save time and money
- Provide a turnkey installation that includes minor subcontracting work of structural engineering, concrete coring, electrical and barricading
- Replace the escalator in the existing envelope and avoid costly construction expenses and passenger delays
- Provide energy savings through KONE EcoStart®
- Provide air travelers with an efficient, smoother and safer ride

“We really appreciate KONE’s customer service approach as a partner rather than a vendor. The EcoMod was a perfect match for us due to its reuse of the original truss work. It saved us time and money.”

Bob Kingston, Assistant Director, Department of Aviation – Facilities / Clark County



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the client’s situation

Upgrading escalators in any location that is open 24-7 is a major challenge. When it happens to be the sixth busiest airport in the world serving a top U.S. tourist destination, severe customer disruption seems inevitable.

That was the issue facing McCarran International Airport when it was time to upgrade escalators in its D Concourse, which serves 43,000 passengers per day. The process of installation was as important as the quality and cost of the escalators to officials of Clark County which owns and operates the airport. Access to and from the main terminal to Concourse D required the need to modernize four escalators while continuing to serve 17 different airlines at 34 gates. During construction the airport still needed to get passengers from one area of the airport to another in a reasonable amount of time to maintain on-time air travel schedules, customer safety and satisfaction. Past upgrade experiences were not positive for the airport as all escalator banks were shut down and construction meant tearing out entire escalators. Floors, walls and ceilings often had to be repaired or replaced. These installations were complex, costly and disruptive to passengers and airport operations.

the KONE achievement

Because EcoMod escalators do not require a complete tear out of existing escalators, KONE did not have to shut down all the escalators nor create a major construction area within the terminal. This not only saved the airport several hundred thousand dollars, but created minimal disruption to passengers.

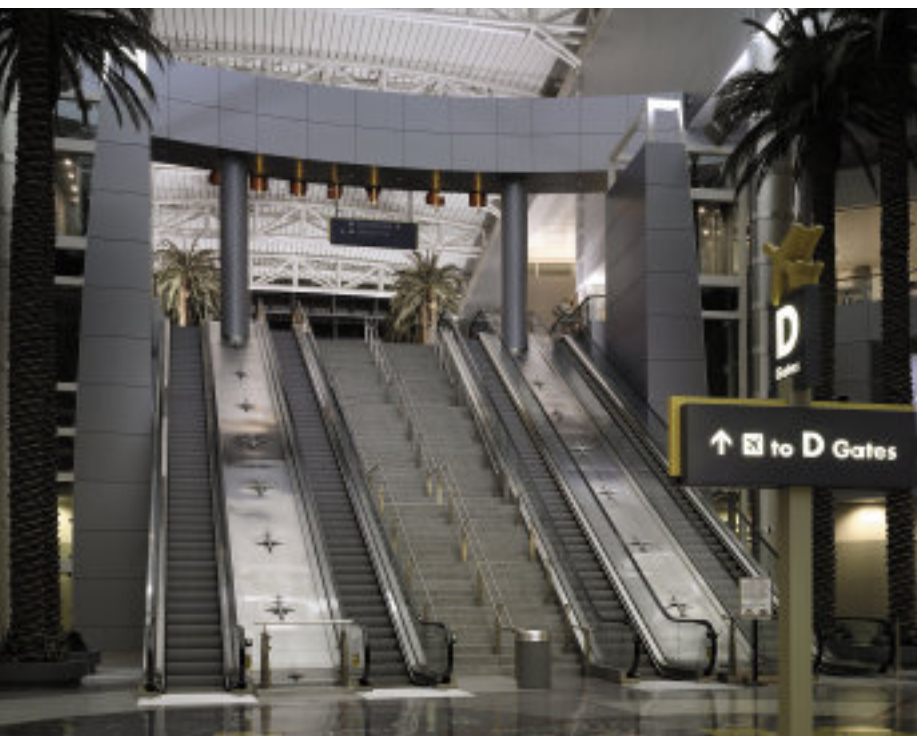
“As a turnkey product installation, KONE took on the responsibilities that subcontractors might normally do such as structural engineering, concrete coring, electrical and barricading,” said Jeff Massey, KONE Regional Modernization Sales Manager. “Because airport officials worked only with one vendor, it not only made project planning easier and installation faster, but didn’t compromise airport security and safety.”


The KONE EcoMod escalators utilize our patented KONE EcoDrive™ with direct drive technology which eliminates the need for drive chain lubrication and allows for oil change intervals of 30,000 operating hours – nearly twice as long as traditional escalators. The life span of the drive itself is extended because of reductions in wear and tear. KONE EcoDrive utilizes a set of planetary gears that are 96% efficient, which reduces energy consumption. KONE EcoMod has a sophisticated microprocessor base controller that constantly monitors speed, direction, safety status and other key operating systems.

A KONE EcoMod installation is good for the environment as well. The KONE EcoStart solid-state starter for each escalator saves money on energy bills. “Our customers can achieve energy savings of up to 40% on an annual basis with this technology,” said Massey. KONE also makes a point to recycle the parts from the escalators that were replaced. The original truss is reused in the new installation; other components are held for the future service needs of the older escalators still in service; and the remaining steel and aluminum parts are recycled rather than sent to a landfill.

the bottom line

KONE EcoMod escalator offered McCarran Airport officials a solution that met all of their needs – a small construction footprint, faster installation time, a quality product upgrade, cost savings, and most important, minimal passenger disruption.



 KONE’s product solutions provide innovation, performance and sustainability. **Logical Solutions** now and for the future.



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