

The background image shows two silver and red Val automated guideway transit (AGT) vehicles on an elevated track. The vehicles are numbered 10 and 03. In the background, there are industrial structures with tall chimneys under a clear sky.

SIEMENS

Chicago - O'Hare International Airport (USA)

ATS (Airport Transit System)

Val fully automated metro system - Turnkey project

Turnkey contract including civil and system works, contract for operation and maintenance. Elevated, fully automated AGT System without driver or on-board attendant.

Airport environment :

- ◇ EMC requirements; patronage (airline passengers and others travelling to and from the airport, and between each terminal)
- ◇ 24 hours a day and 7 days a week operation
- ◇ automated modes of operation : bi-directional
- ◇ pinched loop - shuttle mode; single track run around
- ◇ automatic push recovery with on-board passengers
- ◇ automatic platform door operation
- ◇ guideway heating for severe winter environment (average 123 days per year of subfreezing temperatures, 33 inches of snowfall, and daily January average low temperature of 19°F).

Full responsibility of the turnkey contract (system and civil works). Automatic train control (on board and wayside), control center, signaling, communication systems, platform doors, power supply, vehicles, depot, technical buildings (excluding stations), track, civil works (at grade, viaduct).

Operation and Maintenance contract: Organization and training of O&M company; Management of the O&M company for the initial 2 years; level 3 maintenance of rolling stock, ATC boards, communication equipment, platform doors and operation control center.

Answers for cities.

Technical Information	Chicago O'Hare International Airport
Line length	4.3 km - double lane guideway
Number of stations	5
Number of vehicles / Car consist	15 Val 256 vehicles Mixed one-car, two-car, three-car trains, 114 passengers/car
System technology	Fully automated AGT system. Fixed block technology.
Contract award	1986 - 1992
Revenue service	1993
Passengers carried/peak hour	3200 pphpd
Passengers carried annually	12 500 000
Operating hours	24 hours/day, 7 days/week
Type of service	Airport
System Availability Achieved	99.8 %
Commercial speed	37 km/h



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