

SECURE-FENCING

White Paper – Turin International Airport, Italy Host of the 2006 Winter Olympics

Introduction:

In the summer of 2004 Secure-Globe started the project of securing the 8km perimeter of Turin airport.

The airport fence perimeter consists of fairly old fencing in reasonable shape with about 12 emergency “swing” gates that are permanently closed (by pad lock).

Further, a major access point gate to the airport is used to enable transfer of supplies, fuel etc.. via control of the Italian customs office.

Another access point is the entry to the fire brigade emergency helicopter service area, which is used for rescue operations in the Alps and surrounding areas.

Since Turin International Airport will become the main entry points of all Athletes and visitors for the 2006 Winter Olympics it was essential to secure the airport as good as possible under strict expense constraints.

The solution adopted, as shown in the following drawing, is Secure-Fencing around the fencing perimeter with CCTV camera follow-up on alarm situations.

Further, since Secure-Fencing works in 2 modes, High voltage and /or Low voltage, it was decided to activate the High voltage when instructed by the security forces, and have the low voltage detection always ON.

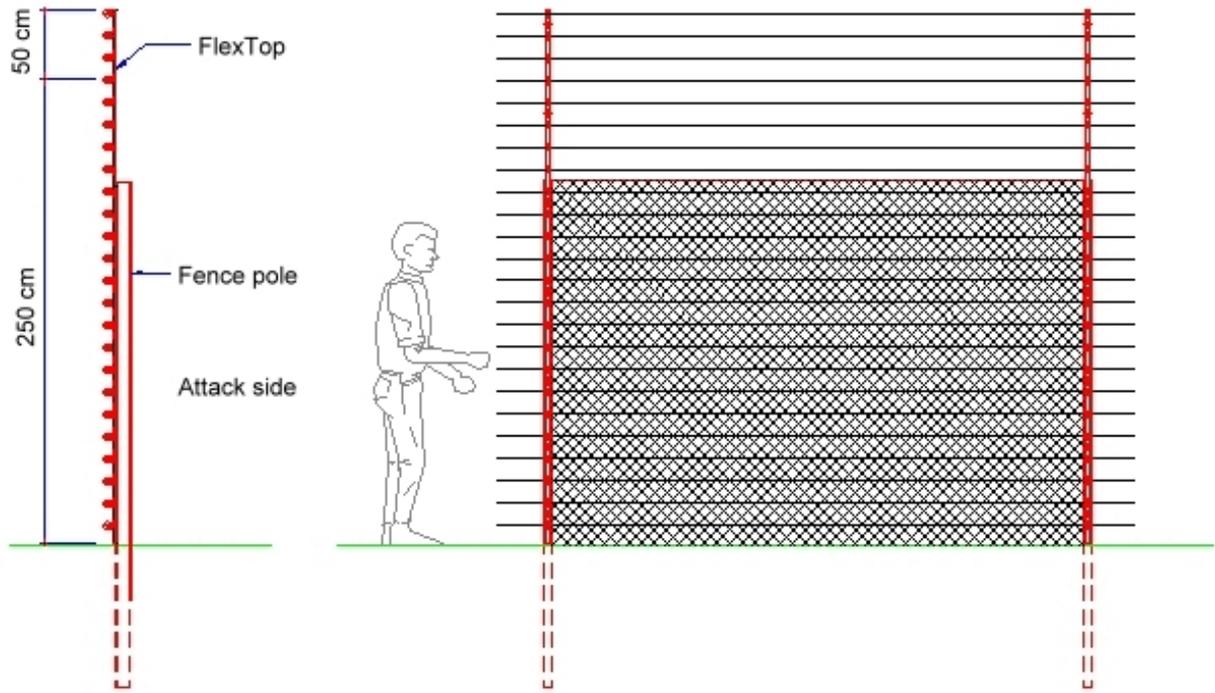
The Design:

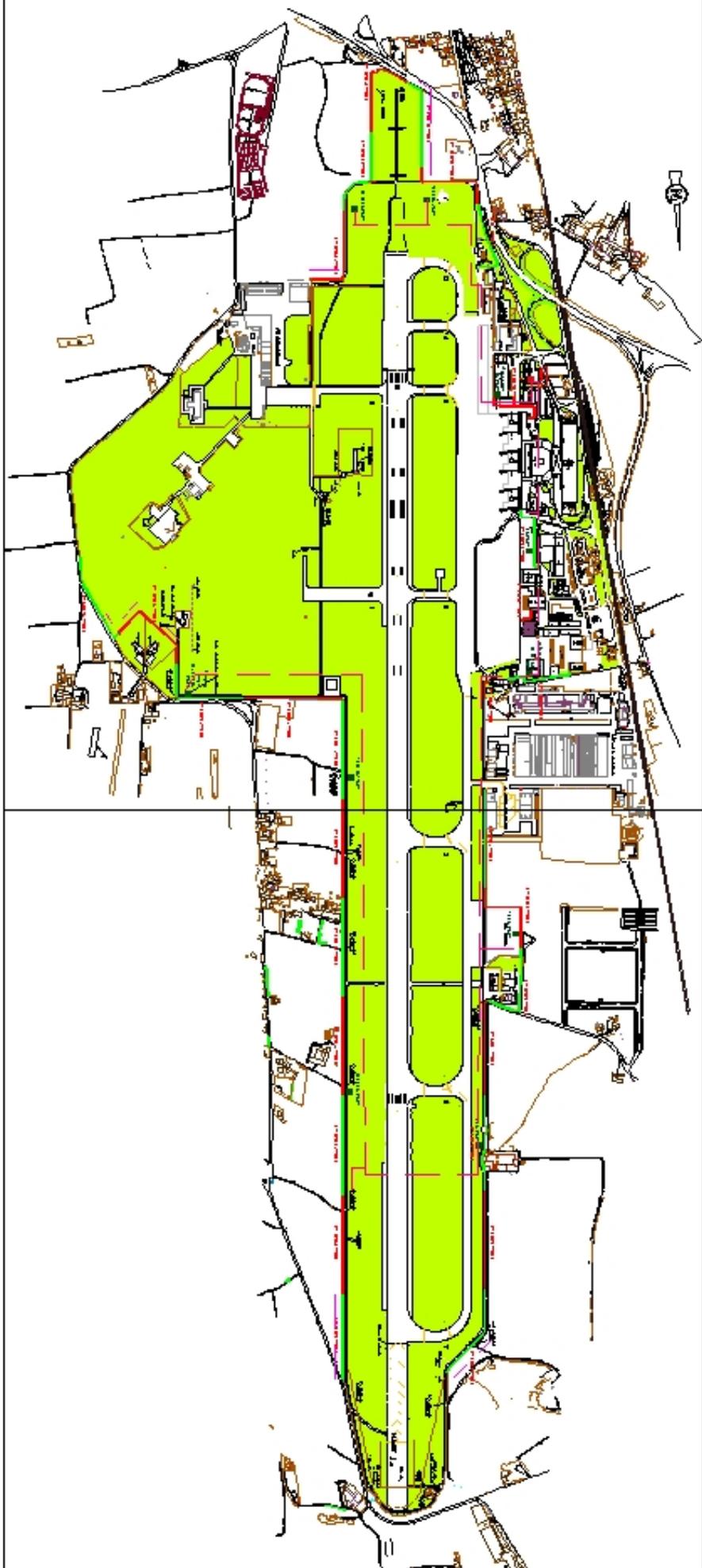
The fence perimeter was “cut” into zones of 300-350 meters. This enabled rotating CCTV to lock into an alarmed area and have a “looking” range of approx 150-175 meters. The Secure-Fencing zones were wired into concentration boxes, which in turn were connected to the central security control system in the airport’s security room.

When a Secure-Fencing alarm goes off it triggers the security control system.

A voice message indicates the type of alarm and the zone while the visual display shows the location on the airport’s map. At the same time, another screen shows the images from the 2 CCTVs adjacent to the alarm zone. If an intrusion is detected the cameras can follow the intruder while the operator directs security people to the specific location.







The Implementation:

A 3 meter high Secure-Fencing system was installed against the existing airport fence. The distance between the wires was 12.5 cm insuring no passing thru without detection is possible.

A building roof, adjacent to the fence was also secured so no one could climb the roof and enter the airport via that way.

12 airport emergency gates were secured so that they generate an alarm when opened and will also set off the alarm when someone tries to climb over or cut thru the gates.

The process of securing the airport took 2.5 months of work, using 6 people.

During this time over 200,000 meters of wires were used as well as approx 2700 poles. Although Secure-Fencing has been certified by the Dutch Aerospace Lab (NLR) not to interfere with ILS VOR navigation systems, the Italian authorities (ENAC) requested a special test airplane to verify this before ILS VOR approaches were allowed. They were also not able to detect any interference signals and consequently certified Secure-Fencing in this regard.

The Result:

Turin International Airport is currently one of the best protected airports in the world.

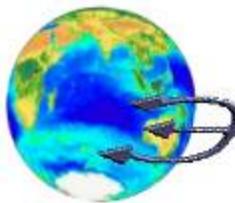
World wide, security experts come to visit the airport to see the results!

As many airports have access control at their gates but lack any perimeter security they are open to intrusion by anyone.

Secure-Fencing has solved several issues that are still a serious problem with other systems:

- Very low false alarm rate
- Affordable to install on long perimeters
- Detection under any weather conditions
- Also a deterrent when on high security alert
- No system maintenance required

If airport perimeter security is an issue we can solve it fast and economically.



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