

Physical security controls

FENCE

- 3-4 FT - casual intruders
- 6-7 FT - Trespassers
- 8+ FT + Barbed wire - keeps out most of the bad actors

TEMPERATURE

- Humidity (External)
- Temperature
- NOT TOO HOT, NOT TOO COLD ... JUST RIGHT!
- Ambient temperature ⊕ External factors.

ELECTRICITY

- Blackout - Total outage
- Brownout - low voltage
- Fault
- Surge - constant high voltage
- Spike - burst of high voltage
- Sag - drop in voltage

HUMIDITY

(INTERNAL)

- ↑ - corrosion
- ↓ - static electricity

40-60%

DEW POINT

41°F - 50.0°F

FIRE EXTINGUISHERS & SUPPRESSION AGENTS

- Class A - Ash - wood, paper etc
- B - Boil - burning oil, alcohol, petro products
- C - conductive - Electrical fire
- D - Dirty thin - burning metals
- K - Kitchen - burning oil/grease

PREVENTION	DETECTION	SUPPRESSION
fire rated doors & construction materials	Smoke & fire detectors, sensors	contain and extinguish

ELECTROMAGNETIC INTERFERENCE

- common mode noise hot and ground wires
- Travelling mode noise hot and neutral wires

RADIO FREQUENCY INTERFERENCE

- FARADAY CAGES AND BAGS
- Electromagnetic interference
- Carriington events
- solar flares
- Electromagnetic pulses

WATER SUPPRESSION SYSTEMS

- Preaction systems
- wet pipe
- dry pipe
- Deluge

GAS DISCHARGE SYSTEMS

- more effective than water systems
- remove oxygen from the air
- Halon is effective but bad for environment

LOCKS

- Programmable
 - Electronic combination locks
 - Key card systems
 - Biometric
- Reset
 - Conventional → [latches, cylinders, deadbolt]
 - Pick & Bump resistant

Mantraps

- double door
- Turnstiles

Rollards

- Physical barriers
- Boom barriers to restrict entry.

LIGHTING

- Floodlight
- Streetlight
- Fresnel light
- searchlight
- Mercury vapour
- sodium vapour
- quartz
- LED
- CONTINUOUS
- TRIP
- STANDBY
- EMERGENCY

PHYSICAL SECURITY CONTROLS --- CONTD

VISITOR PARKING AREAS

BADGES
AND/OR
SMART
CARDS

ESCORT

CCTV SURVEILLANCE

INFRASTRUCTURE
FACILITIES

VIDEO CAMERAS
MOTION DETECTORS
THERMAL DETECTORS

Quality
of
Images

Monitoring

Storage

Retention Access
Legal
and
regulatory
compliance

Emergency
procedures

- Emergency exits
- Lighting for critical areas
- Failsafe

SHARED FACILITIES

WORK AREAS

Secure
work
areas

clean
desk
policy

DATA CENTERS

secured
equipment
cabinets

WIRING
CLOSETS

WIRELESS
DEVICES

CONDUITS

SIGNAGE

SENSOR TRIGGER
ALARMS

PC PHYSICAL CONTROLS

Cable
locks

Port
controls

Switch
control

Peripheral
switch
control

SECURITY GUARDS

- logging on entry/exit of visitors/guests
- Tracking of vehicle movement in and out.
- Physical inspection of people and vehicles.

HUMAN / ROBOTIC SENTRIES

ARMED / UNARMED

HIRE / CONTRACT

INSURANCE

SCREENING & BACKGROUND CHECKS