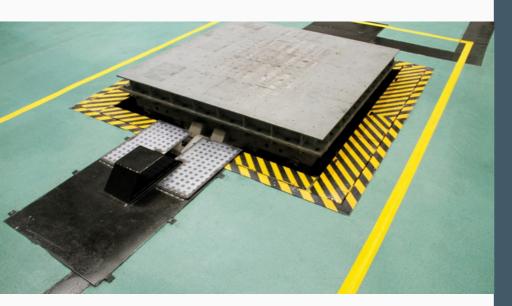


VIRLAB is a seismic, vibration and shock testing laboratory accredited by ENAC in accordance with the UNE-EN ISO/IEC 17025 standard. It is the only national laboratory approved by the Spanish Nuclear Power Plant Owners Group to carry out seismic qualification tests.

#### **Testing platforms**

**EDB250X250 Plateforme biaxiale oléohydraulique** Capable of testing equipment up to 6,000 kg and up to 4 m in length.



AREA OF USE: 2,500x2,500 mm

ACTUATORS: 2 cylinders 150 kN

AMPLITUDE: ± 125 mm

MAXIMUM SPEED: 800 mm/s

MAXIMUM ACCELERATION: 6 g (horizontal)

FREQUENCY RANGE: 0,1 to 200 Hz

#### **TEST STANDARDS**

IEC/IEEE 60980-344

Nuclear installations
Equipment important to safety
Seismic qualification

IEC 60068-3-3
Environmental testing Part 3-3: Supporting
documentation and guidance Seismic test methods for
equipment

IEC/60068-2-6 Environmental testing- Part 2-6: Tests- Test Fc: Vibration (sinusoidal)

IEC 60068-2-57
Environmental testing - Part
2-57: Tests - Test Ff: Vibration
- Time-history and sine-beat
method



#### LDS824LS Uniaxial electrodynamic platform

It can test equipment weighing up to 450 kg and has an extendable surface area of 1.000 mm x 1.000 mm.



AREA OF USE: 750x750 mm ACTUATOR: Generator of 27 kN AMPLITUDE: + 19 mm MAXIMUM SPEED: 1.500 mm/s

1.780 mm/s (shock)

MAXIMUM ACCELERATION: 60 g FREOUENCY RANGE: 1 to 3.200 Hz

#### EDB120 Oil-hydraulic biaxial platform

Ability to test equipment weighing up to 450 kg



AREA OF USE: 1,200x1,200 mm ACTUATORS: 2 cylinders 100 kN AMPLITUDE: ± 125 mm MAXIMUM SPEED: 1.000 mm/s MAXIMUM ACCELERATION: 10 g FREOUENCY RANGE: 0.1 to 150 Hz

#### TESTED EQUIPMENTS

Electrical components: Relays, contactors, switches, fuses, converters, connectors, terminals...

Electrical panels: Engine Control Centers, Relay Panels, Desks & Control Panels, Ripples, Battery Chargers, MV Cabs, LV Frames...

Motor pumps and fans

Valves: Thermostatic, ball, diaphragm, gate, anti-return...

Gates: Firewall, dimming, grids...

Instrumentation: Pressure switches, thermostats, level indicators, humidity detectors, voltmeters, frequencymeters...

#### **REFERENCES**

ORANO

EIFFAGE EES

**AXIMA NUCLEAIRE** 

**BOUYGUES CONSTRUCTION** 

CAMFIL

SOCOMEC

**TECNATOM** 

BERNARD CONTROLS

DAHER

SPIF

**VULCANIC** 

SNEF

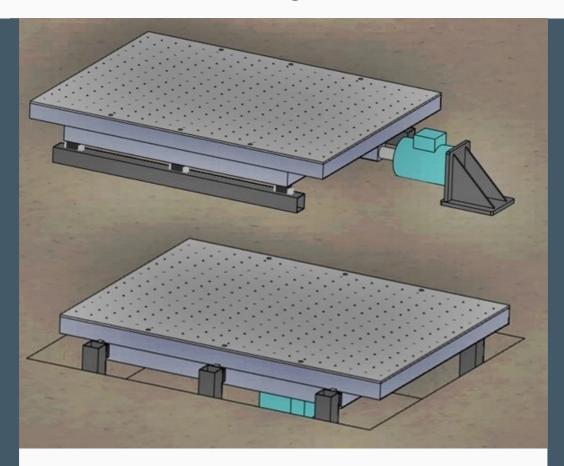
SPANISH NUCLEAR PLANTS

PAGE 02

### **NEW 4X3 meter PLATFORMS in 2024**

## Capable of testing equipment weighing up to 10,000 kg and up to 6 m in length

# Large capacity Double platform Quick change system



AREA OF USE: 4000 x 3000mm ACTUATORS: 2 cylinders 910 kN AMPLITUDE: ± 25 mm

MAXIMUM SPEED: 1200 mm/s

MAXIMUM ACCELERATION: 11 g (empty)

8g(with 3,000 kg equipment)

FREQUENCY RANGE: 0.1 to 200 Hz

