

## REACTOR POOL LINERS

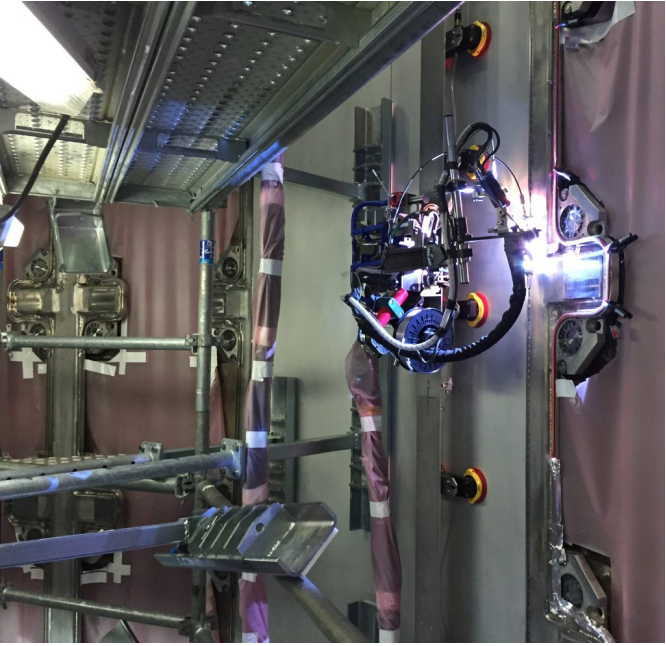
Cegelec CEM designs, builds and installs pool liners in compliance with the construction codes.



The **liners** of nuclear pools are made of stainless-steel sheets welded together, and must guarantee **complete leak tightness of the pool during normal and accident operation.**

Beyond their large dimensions, which in themselves require **high standards of design, assembly and welding**, the metal reactor pool liners must be able to withstand, during construction and throughout their life cycle, the **significant mechanical stresses** to which they will be exposed:

- ✓ **Geometric accuracy**
- ✓ **Temperature increases and thermal cycling**
- ✓ **Resistance to pressure**
- ✓ **Major stresses in the event of an earthquake**
- ✓ **Resistance to borax**





Since 2010, Cegelec CEM has held the contract for a work package covering the design, construction and installation of nine pools and the associated equipment, in accordance with the RCC-MX and MRX construction codes:

- ✓ Development of an all-position **automatic machine** for **site welding**
- ✓ Qualification and compliance with **RCC-MX** code criteria
- ✓ Development of **ultrasonic testing** on thin stainless-steel measuring 3.4 and 6 mm
- ✓ **Lining of nine pools** in reactor and auxiliary buildings (tubular structure, liner sheets, second-phase concrete, fittings, etc.)
- ✓ Underwater **transfer airlock** with two doors
- ✓ **Seven sluice gates**
- ✓ **29 reactor pool penetrations**, some of which with N1 ESPN pressure classification



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