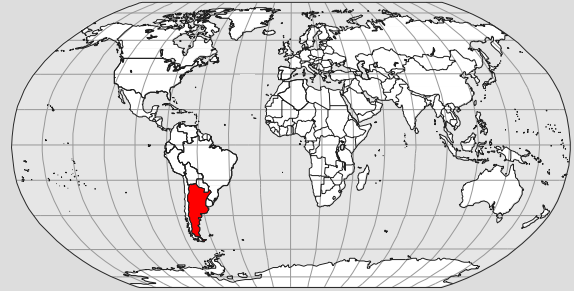


EMBALSE NUCLEAR POWER PLANT PLEX AND REPOWERING

Embalse, Córdoba, Argentina – Ansaldo Nucleare Spa – Nucleoeléctrica Argentina SA



Courtesy of Nucleoeléctrica Argentina S.A.



Main Facts

- In the frame of the Life Extension Project of Embalse Nuclear Power Plant (648 MWe CANDU, Argentina), new reactor core and new steam generators are installed in the plant. This solution entails the reconfiguration of the thermal cycle to cope with the new interface data, coming from the nuclear island.
- The thermal cycle reconfiguration, which comprises the installation of two new high pressure pre-heaters and forward pumps, is able to provide an efficiency improvement and an increase of general power plant output.
- In addition, improvements on feedwater system are installed to increase the safety margins of the plant. The improvements include the installation of two auxiliary condensate extraction pumps and motors.

Scope

- Complete Detail Design Engineering, based on Ansaldo Nucleare Basic Design.
- Construction Work Package preparation for Construction Contractor Tenders.
- Site Engineering support.
- As-built program.



Highlights

- Strategic Project for Nucleoeléctrica Argentina S.A.
- Verification and qualification of the refurbished Thermal Cycle systems against new seismic spectra.
- Special Stress Analysis Verifications.
- Up-to-date SmartPlant software was used in the engineering for all disciplines (3D model, piping, civil and structures, electrical, instrumentation, processes).



EMBALSE NUCLEAR POWER PLANT PLEX AND REPOWERING – EMBALSE, CÓRDOBA, ARGENTINA – ANSALDO NUCLEARE SPA – NA-SA

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