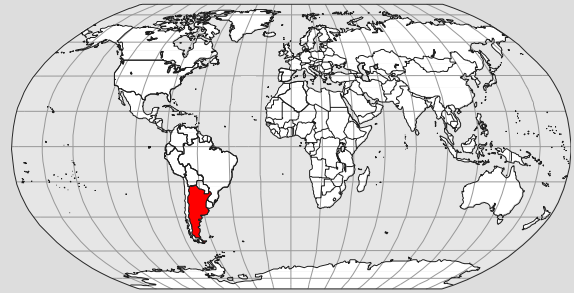


ENGINEERING AND FIELD SERVICES FOR ATUCHA II NUCLEAR POWER PLANT COMPLETION ATUCHA II NUCLEAR POWER PLANT

Lima, Buenos Aires, Argentina - Nucleoeléctrica Argentina SA

Main Facts

- Atucha II is a 745 MWe Nuclear Power Plant unit, including a Pressurized Heavy Water Reactor of the pressure-vessel type.
- It is located at the Atucha site, 100 Km north of Buenos Aires City
- Project was re-launched in 2007.



Schedule of contracts

December 2008 – December 2013

Scope:

- Piping engineering, supports & stress analysis:
 - Checking, modification and analysis of interferences in isometrics during piping erection.
 - Revision and completion of piping design.
 - Engineering of standard, special & anti-whip piping supports.
- Electrical Engineering:
 - Field survey and re-engineering of power supply and command circuits and panels. Design of typical outputs.
- I&C Engineering:
 - Detail engineering for instruments assembly and for control system.
- Process engineering.
- Services for Precomm, Comm & Start-Up:
 - Supply and operation of a Commissioning Management System.
 - Supply of personnel to assist in start-up field activities
- Supervision of Inspection and Non-Destructive Examination: Surface and ultrasound testing of components and welding of piping.
- Licensing, Safety and Core Design:
 - Development of calculation codes for licensing reports.
 - Calculations for experimental measurement of the fuel Doppler effect reactivity coefficient.
 - Study and Analysis of algorithms for control of azimuthal power distribution due to Xenon instabilities.



Courtesy of Nucleoeléctrica Argentina S.A.

Highlights

- Detail Engineering for the modification of the Boron Injection System. Electronic model, piping and supports drawings, isometrics and list of materials.
- Preparation of Operation Manuals according to the methodology and format established by the client.
- Supply, customizing and operation of a Pre-commissioning, Commissioning and Start-Up Management System in order to guarantee total traceability of the tasks performed by the Start-Up team of the client. Logging of field checks and punch lists, issuance of progress reports at high level and in detail.
- Development of nuclear engineering analysis suite for operational transient calculations.
- Local support to Westinghouse Electric Germany Inc. for preparation of reports on thermo mechanical effects on the fuel elements.



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