



# ENGINEERING SERVICES (Mining, Oil & Gas and Energy)

Tecpetrol | Pampa Energía | Total | YPF | Eramet | Axion-PAE | Oldelval | Pluspetrol

## ENVIRONMENT

Techint, Engineering and Construction, provides Engineering, Supply, Construction, Operation and Management services for large-scale projects globally. Thanks to its extensive experience in the market, it can develop highly complex projects, from design to setting up.

Adetech - Industrial Group has joined the Techint staff as an engineering services subcontractor in different disciplines, both at its headquarters and in Neuquén.



EXECUTION

 +  
 15000

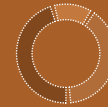
WEEKS



WORK TEAM

+20

ENGINEER/TECHNICIAN



COMPOSITION

 45% ▮ Process  
 40% ▮ Inst. and Control  
 15% ▮ Electrical

DETAIL

2017-20

## PROCESS ENGINEERING

**"La Ribera" / YPF Field:** Process Simulation with HYSYS of main USP equipment, pumps, two-phase and three-phase vessels, tank sizing, pipeline simulation, for flow studies, calculation memories, P&ID elaboration.

**"El Mangrullo" Field / PAMPA ENERGÍA:** Engineering for a new EPF Gas treatment plant. Updating of all the P&ID's of the new Gas Treatment Plant # 2 contemplating connections with Gas Treatment Plant # 1 and gas pipelines and the considerations described in the project design bases.

**"Los Toldos Este II" Field / TECPETROL:** Development of Basic Engineering in the design of surface facilities for the early management of oil production associated with the field, Development of P&ID, Calculation of pipes, tanks, pump capacities, development of P&ID's Service Gas and Instrument Air System.

**Luján de Cuyo Refinery "Unidad de Aminas III" (Amines Unit III) / YPF:** Visualization and Conceptual Engineering of OSBL.

**Luján de Cuyo Refinery "ID Revamping HTN II" / YPF:** Detailed Engineering, hydraulic calculations reports, and FWS, Evaluation and validation of existing Safety Valves, Evaluation of process variables.

**La Plata Refinery "Unidad de Aguas Ácidas" (Acid Water Unit) / YPF:** Visualization and conceptual engineering of OSBL.

**Campana Refinery / AXION - PAE:**

- Project for a new Light Naphtha Isomerization Unit / Development of initial simulation models in HYSYS V9.

- Expansion Project of the Solvent Hydrogenation Unit.

- Basic Engineering in the APS unit, Modeling and verification of the heat exchangers belonging to the existing preheating trains under the current crude oil processing

**"La Calera" Field. CNQ-26 / PLUSPETROL:** Instrument Channeling, SHELTER layout. Typical of Electrical and Mechanical Assembly of Instruments.

**"Fenix" Field / TOTAL:** Elaboration of extended Basic Engineering of the Instrumentation, Control and Communications area, selection of the required equipment, generation of basic engineering understood from the control system and security system, programming and realization of schematics in DCS INVENSYS and TRICONEX.

**Campana Refinery / AXION - PAE:** Development of the Conceptual Engineering for the design of the Coke Conveyor System for the transfer of coal produced by the Fluidized Catalytic Cracking (FCC) unit, preparation of data sheets and channeling instrumentation.

**"Medanito - Puesto Hernández" oil pipeline / OLDELVAL:** Control Architecture, Instrument channeling. Control Valves Data Sheets.

**"Tratayén - Mega" Interconnection Gas Pipeline / TECPETROL:** Preparation of data sheets (DS), Instrument Lists, Connection Diagrams, Calculation Reports and Signal Lists.

**Wind Farm "Manantiales Behr" (Behr Springs) / YPF:** Control and communications engineering / Technical Office: Preparation of technical documentation, plans, selection of equipment in communication networks, configuration of Networks, control architecture of the Park. Assistance in PRE-COM, COM of the Project.

## ELECTRIC ENGINEERING

**"Los Toldos Sur I EPF1" Field / EXXON MOBIL:** As built Electrical Plans of the equipment associated with the CCM (single-line diagram, electrical conduits, exterior lighting, typical details, etc.) and development of survey reports.

**"Tratayén - Mega" interconnection pipeline / TECPETROL:** Review of electrical engineering for emission to the client, such as exterior lighting, ducting, single-line diagrams.

## INSTRUMENTATION AND CONTROL ENGINEERING

**"Fortín de Piedra" Field / TECPETROL:** EPC-FDP. Compressor capacity evaluation. Instrument Channeling and Typical Electrical and Mechanical Assembly of Instruments..

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