

Hydrogen Generation Plant at REFAP

Project

Client
REFAP S.A.

Location
Refinería Alberto Pasqualini
Canoas, Porto Alegre
Estado de Rio Grande do Sul
Brazil

Period
2003–2005

Participation
Skanska LA: 50 %
Promon Engenharia: 50%



Skanska LA is performing at the Alberto Pasqualini Refinery (REFAP), located at the Canoas Community, the construction of an hydrogen plant. The work includes detailed engineering, procurement, civil construction, industrial assembly, conditioning, pre operational testing, start up and a 6 month period operation assistance. It also comprises the execution of all the interconnections of the steam reforming system unit, the hydrogen purification system (PSA - Pressure Swing Adsorption) and the existing and in construction units.

This Hydrogen Generation Unit (U-702) is design to produce 550.000 Nm³/day of hydrogen with a 99,90% purity in order to satisfy the demand of the Hydro treatment Unit (U-7000), also in construction. The Unit is fed either by natural gas (224.880 Nm³/day) or by refinery gas from the U-300 Unit (302.000 Nm³/day).

The contract initially contemplated a 540 days term, planning the completion by June 2005. Yet, due to the client's needs, new actions were taken for its early completion achieving to reschedule it 72 days ahead so the works will be finished by the end of March 2005.

Technical Information:

Capacity:	550.000 Nm ³ /día
Piping:	440 ton
Concrete:	2.300 m ³
Towers:	17 un
Interchangers:	15 un
Reactors:	2 un
Special equipment:	2 compressors, 5 steam turbines, 1 chimney and 1 oven. □



Contact

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