

# HYDROGEN PRODUCTION UNIT

PEMEX  
Tula - Mexico



**COMPLETION  
DATE 1996**

## PROJECT DESCRIPTION

The process layout includes feed treatment (HDS and ZnO reactors), steam reformer, waste heat boiler, Ht Shift, BFW preheating, gas cooling and PSA. The feed is natural gas and the steam reformer is designed to operate at balanced draftmode.

Main process features:

- Capacity: 100000 Nm<sup>3</sup>/h
- Steam to carbon ratio = 3.0
- Reformer outlet temperature = 852°C
- Consumptions:
- Feed + Fuel = 3.63 Gcal/1000Nm<sup>3</sup>H<sub>2</sub>;
- Steam export = 0.73 t/1000Nm<sup>3</sup>H<sub>2</sub>

## FOSTER WHEELER ITALIANA SCOPE OF WORK

- Basic Design Package preparation and supply of Terrace Wall™ Steam Reformer