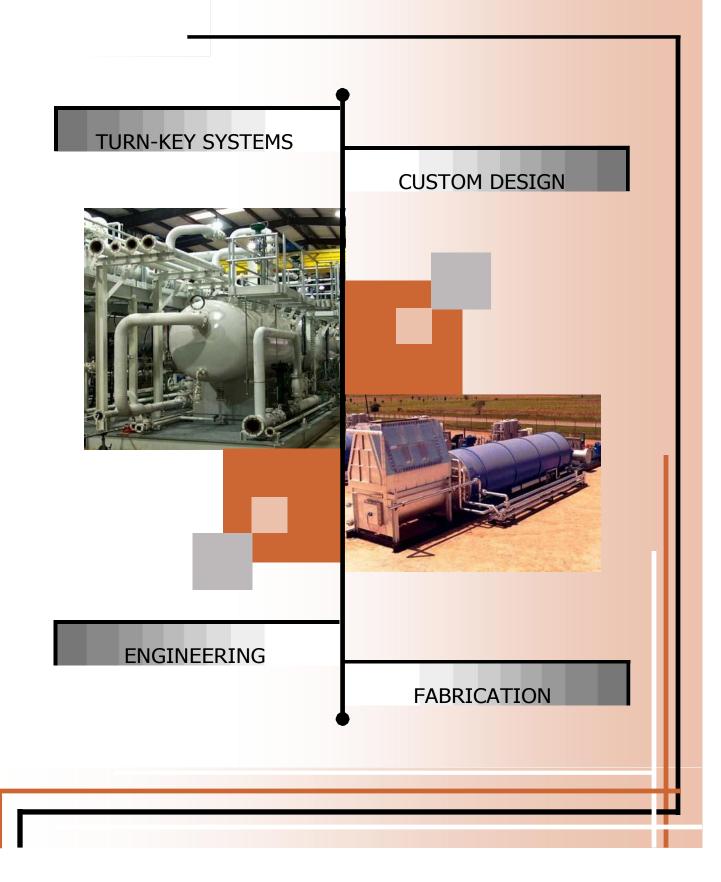
## TECNOLOG s.a. APIN Boilers Ofic. Ave Bolivia #1122/ Ave Las Calderas 330, Pta. Hermosa, Lima,

Lima 01, PERU edgargerber@tecnologperu.com www.tecnologperu.com Phone: +511-717-3725 - Plant +511-715-8866





### "From ultra-pure water treatment equipment to enhanced heavy-crude production facilities, this catalogue illustrates our capabilities and range of expertise."

Tecnolog through its Technology, since 1967, is the leader in the design and fabrication of the Once Through Oilfield Type Steam Generators and has supplied quite a few of steam generators installed worldwide.

Tecnolog/APIN<sup>™</sup> Steam Generators have been in operation since the inception of steam flood technology.

#### Tecnolog/APIN™ steam generators supplied

APIN<sup>™</sup> is the only steam generator designer/ manufacturer that is staffed by some of the original engineers whom now hold key positions at Tecnolog. Our staff of high caliber engineers, designers, fabrication specialists, and service technicians has combined experience of over 100 years in APIN<sup>™</sup> steam generator design. **APIN<sup>™</sup>** has Packaged Steam Generator capabilities to 400,000 pph as well as Field Erected APIN Boilers to +1MM pph.

**APIN™** /Tecnolog Reverse Osmosis System







### STEAM GENERATION

- WATER TECHNOLOGIES
- FABRICATION



APIN™ Gas Fired Heater Package

"Experienced in providing specific engineered packages, our designs or yours, to accommodate your operational and production requirements."

## **KEY CONTACTS**

#### **FABRICATION**

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#### **STEAM GENERATION**

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Ian Gerber EOR Manager Phone: +511-715-8866 Email: engineering@tecnologperu.com

#### WATER TECHNOLOGIES

EDGAR GERBER, President Phone: + 511-715-8866 Email: edgargerber@tecnologperu.com

## FABRICATION FACILITY & CAPABILITIES









#### WELDING CAPABILITIES:

Process Procedures	Number	Manual	Semi- Auto	Code Compliance	Backing
SMAW SMAW GCAW GMAW SAW SAW GTAW GTAW GTAW GTAW	<ul> <li>(2) P#1</li> <li>(2) P#8</li> <li>(2) P#1</li> <li>(2) P#8</li> <li>(2) P#1</li> <li>(1) P#8</li> <li>(2) P#1</li> <li>(2) P#8</li> <li>(1) P#42</li> <li>(1) P#44</li> <li>(1) P#45</li> </ul>	X X X X X X X	X X AUTO AUTO	ASME IX ASME IX ASME IX ASME IX ASME IX ASME IX ASME IX ASME IX ASME IX ASME IX	NO NO NO YES YES NO NO NO

#### CUTTING, GOUGING AND BEVELING METHODS EMPLOYED:

Air/Arc Carbon Gouge 0xy/Acetylene Cutting and Beveling 4 Torch Eye Machines Track Burners 24" Chop Saw w/rails and cooling Plasma Arc Cutting and Beveling 1/2" x 10' Shear Do-All Saw w/rails and cooling 90 Ton Iron Worker 3/8" x 10' Break

2 - 5 Ton Turning Rolls with Idler 1 - 20 Ton Turning Rolls with Idler

10 - 200# Positioner

1 - 5000# Positioner

#### MANIPULATOR / POSITIONING EQUIPMENT:

- 3 Manipulator/Sub-Arc
- 1 500# Positioner
- 1 10,000# Positioner
- 3 10 Ton Turning Rolls with Idler
- 2 30 Ton Turning Rolls with Idler

#### PIPING MATERIALS:

Carbon Steel Hastelloy Nickel Clad Chrome Monel Stainless

#### SPECIALIZED CAPABILITIES:

Rolling Equipment:2" x 12' plate roll,Machining Lathes:60" Dia x 12 ftMilling & Drilling unlimited with CNC EquipmentTube Bender:1 1/2" to 3" O.D. - 3" to 18"" radius

#### **ELECTRICAL:**

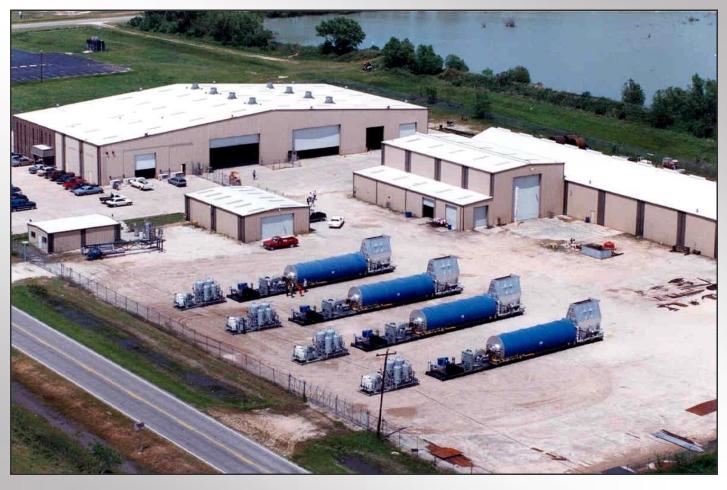
Climate Controlled Building 30' x 40' Electrical/Control (systems, enclosures, logic controllers, etc.) System Design Programmable Logic Controllers

#### BLASTING and PAINTING: Enclosed

Blasting Building 40' x 80' Climate Controlled Paint Building 40' x 80'

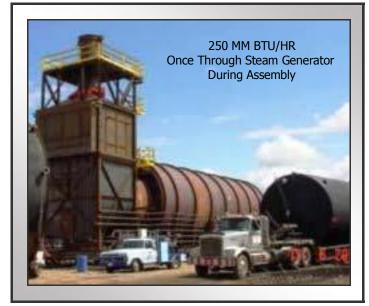
NDT - NON-DESTRUCTIVE TESTING: Sub-contractor testing on-site

# TECNOLOG s.a.



4—APIN<sup>™</sup> 50 MM BTU/HR Once Through Steam Generators ready for shipment, each with its own APIN water treatment system.







APIN/Tecnolog DESIGNED and FABRICATED

OTSG 50MMBTU/HR, 2600 psig discharge pressure, dual oil/ Gas fired, skid mounted.

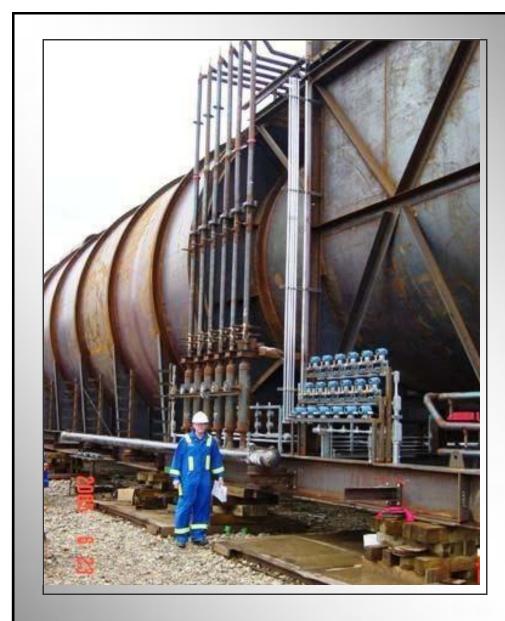
#### CHINA NATIONAL PETROLEUM LIAO HE FIELD

**APIN**<sup>™</sup> Once through, single pass, direct fired unit consisting of a combination chamber radiant section, convection section and burner system complete with all necessary valves and safety Equipment required for safe and Efficient operation.



PETROBRAS-ALTO DO RODRIGUES FIELD, BRAZIL Waste Heat Recovery APIN<sup>™</sup> Steam Generator — 50 MM BTU/HR, 1500 Psig Discharge Pressure Design, fabrication, transport, installation and training all by qualified Tecnolog personnel.

# **TECNOLOG**



**APIN<sup>™</sup>** 250 MM BTU/HR Nominal One of Four During Assembly on site.

APIN<sup>™</sup> Once Through Steam Generator Six Pass, 1450 Psig Discharge Pressure Gas Fired, Skid Mounted

Engineered, Designed, and Fabricated for Assembly On-Site





## **APIN UPS & EORSG STEAM INSTALLATIONS**



APIN UPS System for APIN EORSG support



**APIN™ EORSG located at East Texas oilfield** 



Tecnolog moved to a new 110,000 ft\* (10,000 m²)manufacturing plant

## WATER TECHNOLOGIES



**APIN**<sup>™</sup> RO System with Chemical Cleaning Skid and Control Panel.

**APIN™** Multi-Media Filtration System



Sets of Tecnolog Dual Bank Water Softener and Chemical Feed Systems for **APIN™** Oil Field Steam Generators.

