



TEI



SUCCESS STORIES

NAES CORPORATION, PLUM POINT ENERGY STATION

#5 HP FEEDWATER HEATER REPLACEMENT

LOCATION OSCEOLA, AR, U.S.A.
PLANT TYPE 724 MW COAL FIRED
CUSTOMER PLUM POINT ENERGY STATION
END USER NAES CORPORATION



Operating Conditions

Original Design Data TEI Specification Sheet

	ENGLISH	UNITS
Extraction Steam Inlet Flow	161.285	Lb/hr
Extraction Steam Inlet Enthalpy	1447.5	Btu/Lb.
Extraction Steam Inlet Temperature	847.5	°F
Pressure and Saturation Temperature	266.9	psia
	405.6	°F
Drains In Enthalpy	396.9	Btu/Lb.
Drains Inlet Flow	679.577	Lb/hr
Drains Out Enthalpy	350.4	Btu/Lb.
Drains Outlet Temperature	376.9	°F

Design Conditions

Shell Design Pressure	350	Psig
Shell Design Temperature	440	°F
Skirt Design Temperature	900	°F
TTD	-3.0	°F
DC Approach	10.0	°F

PROJECT OVERVIEW

Boiler

- + Supplier: IHI
- + Type: Pulverized Coal
- + Main Fuel: Coal
- + Backup Fuel: **Need Information**

Steam Turbine

- + Supplier: Toshiba Corporation
- + Type: Dual Flow - Four Exhaust
- + Design: **Need Information**
- + Pressure Levels: 2,500 psig

TEI SOLUTION

- + **Need information**
- >> **Need information**

PERFORMANCE RESULTS

- + Delivered on time and on budget

continued on back



AUXILIARY COMPONENTS PROVIDED BY TEI

- + Geomembrane liners (ESI)
- + Continuous emissions monitoring systems (Forney)
- + Cooling tower (GEA Cooling Technologies)
- + Steam turbine generator (Toshiba)
- + Condensers (Thermal Engineering)
- + Deaerators (Ecodyne)
- + Feedwater heaters (Thermal Engineering)
- + Fly and bottom ash handling system (United Conveyor Corp.)
- + Wastewater treatment equipment (Siemens Water Technology)

