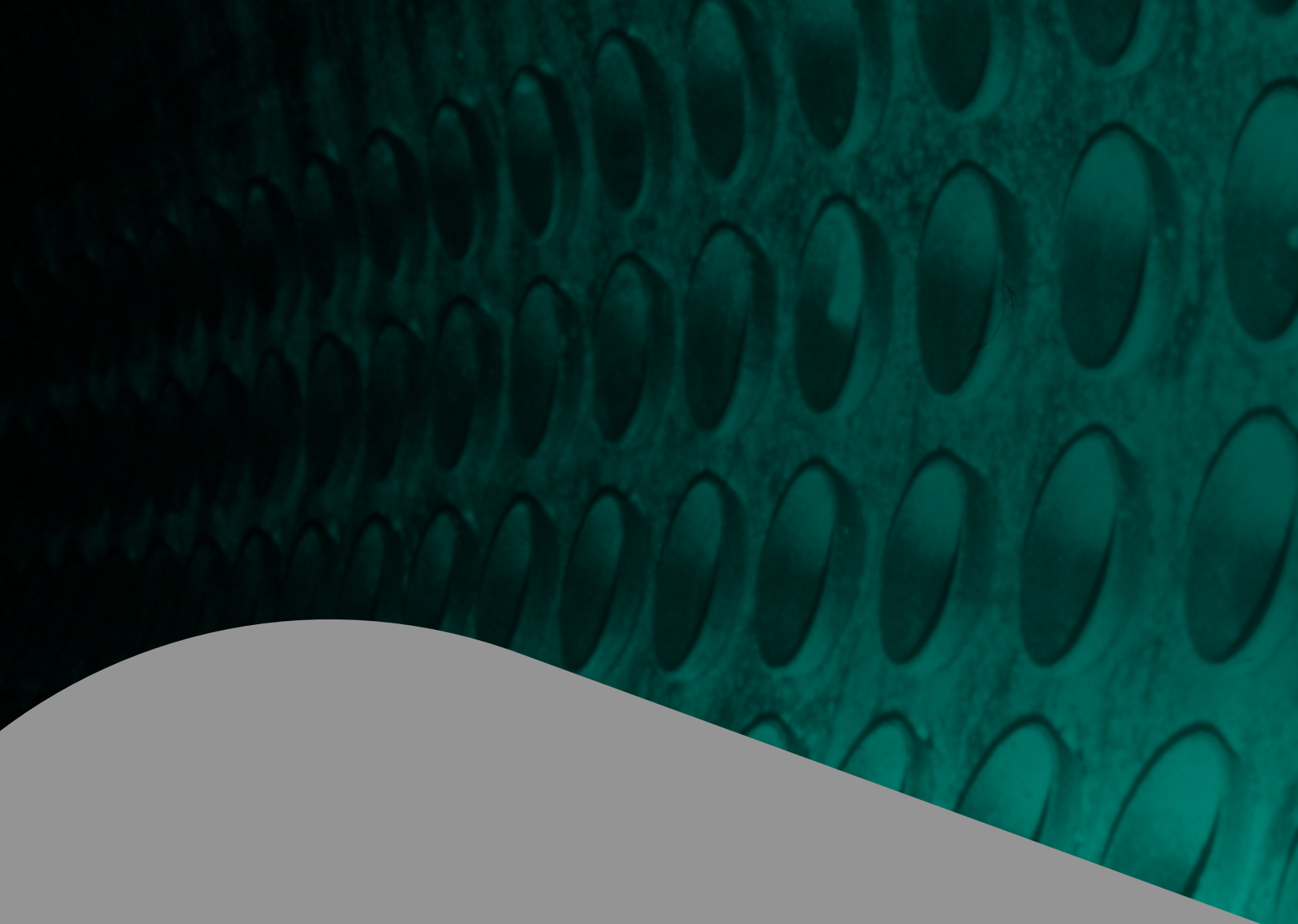


Ethylene plant process and solutions

**Increase production and
improve equipment reliability**



Whether struggling with equipment reliability or reaching desired run lengths, you need a reliable, adaptable partner who understands the operational challenges of ethylene processing and can foresee future issues as feedstocks change. Baker Hughes is an experienced oil and gas service provider with a local focus on your ethylene facility's needs. We offer a technically sound portfolio of services and solutions spanning:

- Customized chemical programs
- Water treatment services
- Engineered solutions

Our proven technical expertise throughout the hydrocarbon processing industry provides you with chemical programs and engineering services to overcome your most difficult operational challenges and achieve your production goals. See how Baker Hughes can help you increase your plant profitability and improve the reliability of your processes in the following diagram.

1 Primary fractionation

- Increase quench oil tower run length without any reduction in throughput.

2 Water quench and dilution steam

- **PETROTEC™ emulsion breaker program** significantly reduces DSG feed oil and gas content.
- Our exchanger fouling control program improves both DSG run length and steam production.
- DSG exchanger corrosion control program increases exchanger life and helps eliminate corrosion.

3 Cracked gas compressors

- Compressor clean-up application regains lost efficiency and savings in steam costs.
- **POLYFREE™ additive program** allows producers to delay compressor turnaround, even with low wash oil injection rates.
- Our compressor clean-up applications reduce vibrations.

4 Acid gas scrubber

- **POLYFREE caustic system** fouling control program reduces caustic carryover while increasing run life.
- **PETROTEC foam control program** restores throughput loss due to acid gas scrubber foaming.
- Our caustic system polymerization control program reduces spent caustic system maintenance costs.

5 Light ends fractionation

- **POLYFREE tower and reboiler fouling control programs** improve reboiler cleaning cycles, increase column run lengths, and prevent popcorn polymer formation.

6 C4 storage and transportation

- Our mixed C4 storage stabilizer improves C4 storage stability and reduces end-user processing problems.

7 Gasoline hydrogenation unit

- Fouling control program helps extend GHU preheat exchanger run lengths.
- Overhead corrosion control programs reduce maintenance costs and extend equipment reliability.

A Pretreatment/water clarifiers

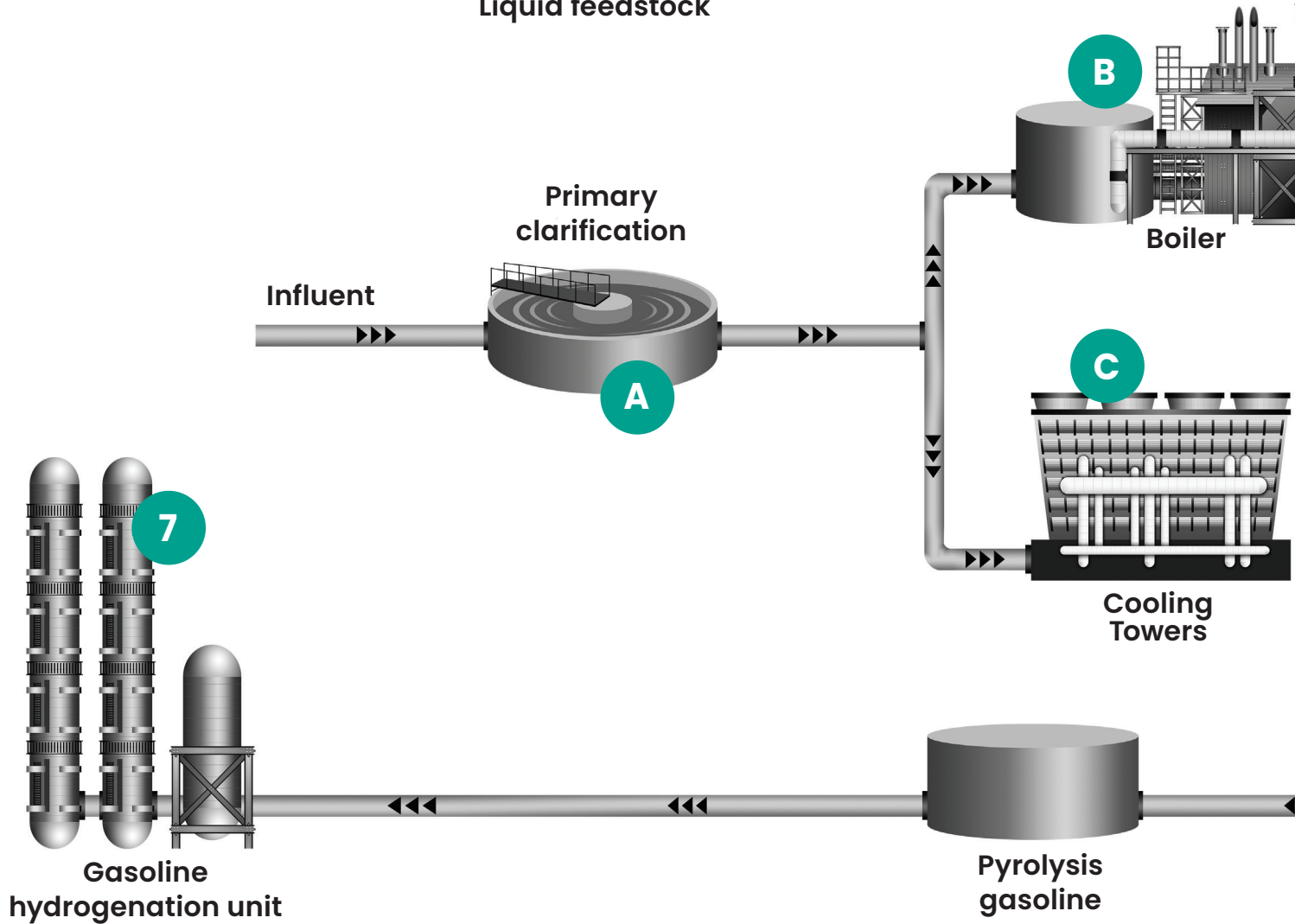
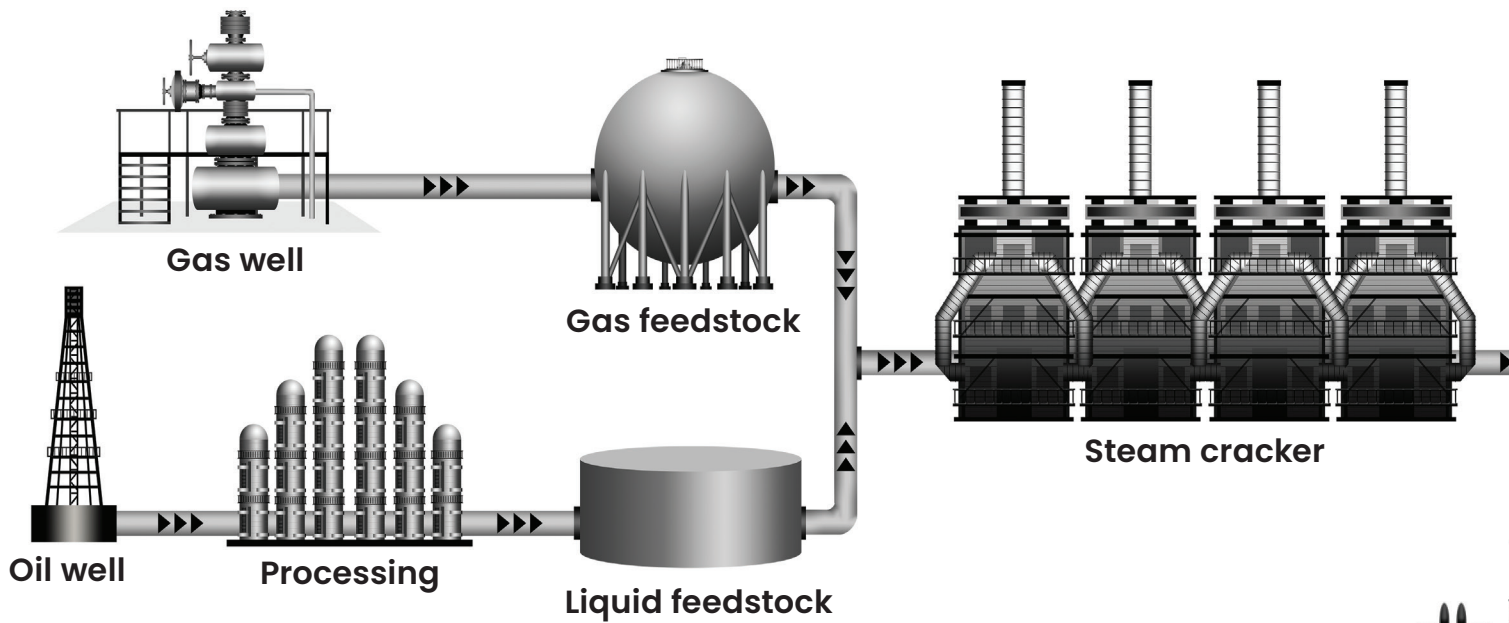
SpectraFloc™ polymers enhance solids separation and help keep foaming under control.

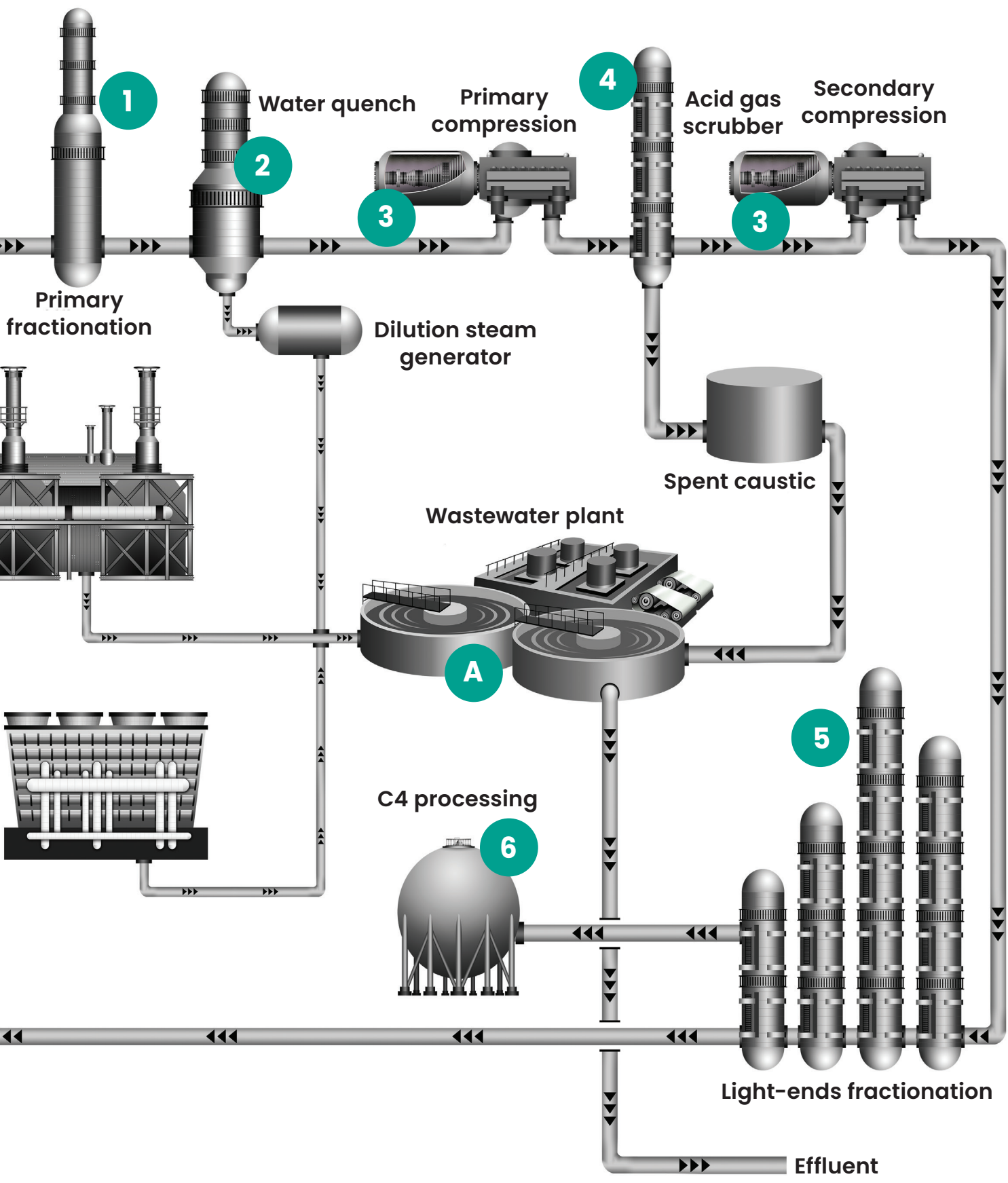
B Boiler water systems

- Oxygen scavengers help protect steam systems.
- Boiler condensate treatments reduce corrosion rates and offer high efficiency energy savings.
- Internal boiler treatments provide enhanced energy savings from cleaner heat exchange.
- **TOTAL SYSTEMS APPROACH™ process** is applied to the complete steam system to confirm the best mechanical and chemical solutions.

C Cooling tower systems

- **DemandTrac™ PLUS water treatment programs** improve exchanger efficiency and control deposits and corrosion.
- **BioKlenz™ biofilm control services** provide cost savings in tower repairs and help control biology in cooling systems.
- Exchanger reliability programs enhance overall system performance and increase unit reliability.
- **LeakGuard™ hydrocarbon leak detection services** and **LeakID™ hydrocarbon identification testing** help improve safety of operations.







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