

3D TRASAR™

System Assurance Center

24/7/365 Monitoring with Peace of Mind



The System Assurance Center is the global nerve center for Nalco Water's 3D TRASAR Automation Technology. The center takes the pulse of thousands of 3D TRASAR controlled water systems and sensors around the world. Staffed by more than one hundred highly skilled, degreed engineers, this team has a deep understanding of each application and technology.

The System Assurance Center maximizes the benefits of 3D TRASAR Technology and automation by:

- Monitoring system and critical asset performance 24/7/365
- Responding and troubleshooting alarms and resolving system upsets quickly
- Acting as an extension of local Nalco Water Representatives and site operations as an "extra layer of protection"

The use of data through automation also allows opportunities for optimizing performance and achieving operational goals as well as sustainability targets. These goals often involve water, energy or waste savings; production expansion; performance or product quality improvement; asset preservation; or Total Cost of Operations (TCO) reduction. The System Assurance Center, along with the local Nalco Water representative, ensures that best practices are maintained at each location or across the enterprise.

APPLICATION EXPERTISE



**BOILER
WATER**



**COOLING
SYSTEMS**



MEMBRANES



**DISSOLVED
AIR FLOTATION**

21,000
SYSTEMS GLOBALLY
IN 100 COUNTRIES

10 YEARS
PROVEN SUCCESS

**BEGAN AS THE
NALCO 360 EXPERT CENTER
IN 2008**

WORLD-CLASS
CLIENT SATISFACTION

**145 CHEMICAL
ENGINEERS**
TROUBLESHOOTING ALARMS

**ON DUTY
24/7/365**
INCLUDING WEEKENDS/HOLIDAYS

105,000
CRITICAL SYSTEM UPSETS
AVERTED PER YEAR
MOST COMMON IS pH LOW

2.0 MILLION
SYSTEM ALARMS
HANDLED PER YEAR

- CONTINUOUS
- REASSURING
- RELIABLE



Peace of Mind

From 24/7/365 Monitoring by
145 Trained Engineers



Asset Preservation

From Extra Eyes Watching Over
Your Valuable Plant Assets



Added Support

Augments Support of Local
Nalco Water Representative



Goal Achievement

Synergy Helps You Achieve
Your Goals



Unmatched Experience

10 Years of Proven Success/
Support 21,000 Systems

NALCO Water
An Ecolab Company

CASE STUDIES



ASSET PROTECTION

While switching acid feed tanks, customer failed to follow established safety procedures, left acid feed pump in manual mode while responding to an emergency call.

3D TRASAR™ for Cooling Water controller sends low pH alarm to System Assurance Center.

AT RISK

- Critical Condenser assets
- Production run time
- Customer safety

ACTION TAKEN

- System Assurance Center notified local Nalco Water Representative.
- Plant operations notified, pump operation corrected.
- Local sales engineer directed customer to adjust blowdown and inhibitor feed.

RESULTS

- Prevented \$700,000 in replacement labor and material costs to condenser.
- Quick response prevented system downtime
- Escalated awareness of potential safety concern for customer.



ASSETS



PRODUCTIVITY



SAFETY



WATER SAVINGS

Cooling System experiences sudden drop in Conductivity due to failed blowdown valve

3D TRASAR for Cooling Water controller sends alarm to the System Assurance Center during plant off hours.

AT RISK

- Customer sustainability goals
- Brand reputation

ACTION TAKEN

- System Assurance Center notified local Nalco Water Representative who in turn contacted the plant with detailed analysis
- Based on analysis, customer located defective blowdown valve.
- Maintenance and repair performed

RESULTS

- Quick response prevents 16,000 gallons of water loss over weekend
- Prevents excess sewer costs



WATER



WASTE

Nalco Water, an Ecolab Company

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