

Nalco Water's SCALE-GUARD program delivers proprietary chemistry and digital innovations for improved response to onsite scale problems and prolonged asset life.

## The SCALE-GUARD Program includes:

- Products uniquely formulated to provide maximum scale protection in a variety of mineral processing units
- Computer-based thermodynamic modeling software to predict water speciation, including alkalinity correction in the presence of cyanide in precious metal process water
- Scale-deposit monitoring for actionable insights on antiscalant dosage control
- Comprehensive consultative approach to guide product selection, dosage philosophy, performance monitoring and continuous process optimization work
- Global network of in-house technical experts to deliver best-practice scale control

#### Where it matters

SCALE-GUARD controls carbonate and sulfate scale in a variety of flotation and leaching applications in base metal and precious metal operations:

- Process water, fresh water, and reclaim water lines
- Mine water treatment
- Gold strip circuits

- Quench tank units
- Boilers and Heat Exchangers
- Gold and copper leaching circuits

#### SCALE-GUARD™ SCALE CONTROL SOLUTIONS FOR MINERAL PROCESSING

### **Local Sales & Service Support**

Continuous process monitoring and process improvement support from our dedicated service team to address dynamic environments and conditions



### **Innovative Chemistry**

Product offerings to treat a wide range of site conditions and various process units

#### **Global Technical Experts**

Our industry experts work in partnership with local field personnel to deliver optimized solutions backed by more than 100 years of industry experience

### **Digital Innovation**

Scientifically based solutions and advanced process monitoring with Mining Optimizer thermodynamic modeling software and Remote Deposit Monitor

# SCALE-GUARD—Nalco Water's Comprehensive Approach to Scale Control

Because no two operations are alike, Nalco Water's 6-step process allows our experts to understand your unique challenges, then build and deliver a customized program of solutions designed to optimize performance.



**1.** Detailed system survey and evaluation of process, water chemistry and current scale conditions



**2.** Thermodynamic modeling of system condition using Mining Optimizer



**3.** Chemistry selection, application and dosage selection



**4.** Customer training on best practices in process water management



**5.** Scale deposit monitoring for actionable insights



**6.** Continuous process water analysis, regular site visits and service reporting

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