



SAFE & SURE

OVERVIEW

3D TRASAR™ Technology for Recovery Boiler Leak Indication (RBLI) is another example of how NALCO Water provides a better means of measuring and handling safety and reliability concerns. The highly sensitive program provides a more direct and accurate method of detecting critical and non-critical boiler leaks.

NALCO Water's RBLI technology combines mass balance and 3D TRASAR monitoring, with independent system processes to provide reliable, safe boiler operations. This technology provides a level of safety while saving time, energy and costs.

NALCO  **Water**
An Ecolab Company

OFFERING

Why Recovery Boiler Leak Indication? Recovery boiler operation is critical to Pulp and Paper Making process. Undetected Boiler leaks can cause a significant loss for Pulp and Paper operation including unscheduled production downtime, asset damage and safety incidents. Traditional Mass Balance approach can only detect larger leaks and is not able to differentiate between Critical and Non-Critical leaks. Determination of which type of leak you have can allow an operator to decide between a rapid drain and a controlled orderly shutdown of the boiler.

Highly sensitive TRASAR Technology

NALCO Water's RBLI technology combines mass balance and patented 3D TRASAR technology and is able to detect leak as low as 2 gpm. Also, by comparing the Mass Balance data to the 3D TRASAR data will allow an operator to differentiate between a concentrated boiler water leak or a leak in a non-critical area. Benefits for NALCO Water's RBLI program are summarized as below:

- Increasing plant safety and reliability
- Protect critical assets
- Minimize production downtime
- Reducing energy consumption

CONTACT US

For more information about NALCO Water's RBLI technology, please contact your local NALCO Water sales engineer, or visit nalco.ecolab.com/program/recovery-boiler-leak-indication/

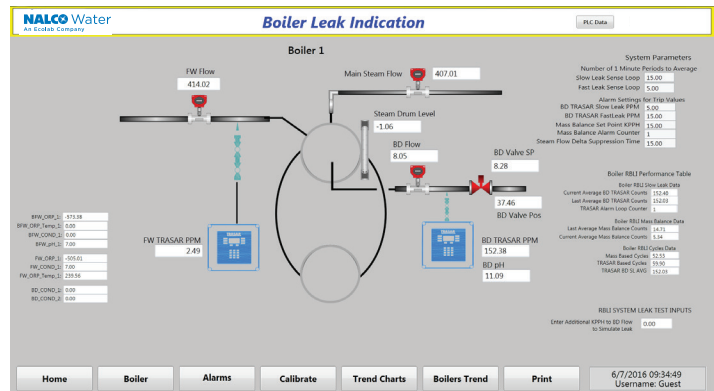


Figure 1. Nalco Water's RBLI user interface showing both Mass Balance and TRASAR Technology readings.



Figure 2. Nalco Water's Recovery Boiler Leak Indication Skid

Nalco Water, an Ecolab Company

North America: *Headquarters* – 1601 West Diehl Road • Naperville, Illinois 60563 • USA
Nalco Champion – 7705 Highway 90-A • Sugar Land, Texas 77487 • USA

Europe: Richtstrasse 7 • 8304 Wallisellen • Switzerland

Asia Pacific: 2 International Business Park • #02-20 The Strategy Tower 2 • Singapore 609930

Latin America: Av. das Nações Unidas 17.891 • 6° Andar 04795-100 • São Paulo • SP • Brazil

nalco.ecolab.com

3D TRASAR, Nalco Water and the logos are Trademarks of Ecolab USA Inc.
 ©2016 Ecolab USA Inc. All Rights Reserved 8/16 B-1503

NALCO Water
 An Ecolab Company