

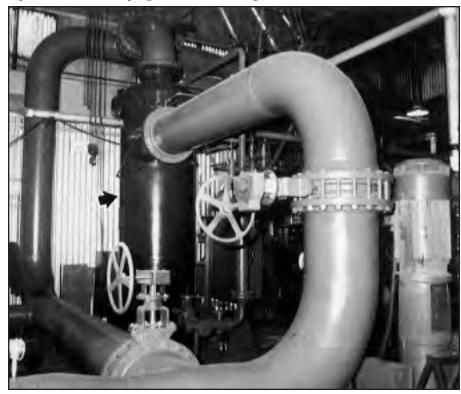
Application Bulletin

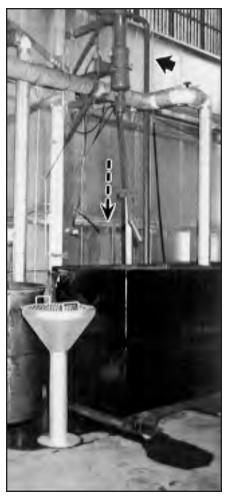
Separator Replaces Wire Basket Strainers; Helps Control Maintenance Problems and Production Downtime

Installed on a full-stream cooling water system to prevent plugging of quench water spray nozzles, a LAKOS R-FD Industrial Code Separator has dramatically reduced plant shutdowns at the Olin casting plant in East Alton, Illinois. Previously, the plant experienced daily interruptions in production to clean the in-line strainers at each of their spray manifolds.

The separator removes copper, graphite and charcoal matter. Solids handling is enhanced with the use of a LAKOS N-FD Industrial In-Line model, installed on the R-FD unit's continuous (full-velocity) purge line to actually further concentrate the purged solids prior to dumping into a large vessel for solids handling (see photo B). The N-FD's outlet flow discharges back into the system (cold well), thereby recovering virtually all the purged liquid and minimizing make-up water needs.

Photo A (below): A 90• vertical profile R-FD Separator was chosen by Olin to minimize floor space requirements and accommodate existing piping. **Photo B** (**right**): Purged solids from the R-FD Separator are concentrated with an N-FD Separator, which then purges solids into a large collection vessel below.





continued on reverse

Full flow is maintained through the R-FD Separator at all times. When plant conditions require less water, a differential pressure transmitter controls a by-pass valve to allow excess water from the separator to return to the plant's cold well. This automatic system thereby assures proper separator performance and eliminates the need for additional equipment to accommodate the plant's variable flow requirements.

A very profitable side benefit from the use of the LAKOS Separator has been the recovery of over 30,000 pounds of copper with a value in excess of \$15,000. Now that the system has been cleaned up, Olin conservatively estimates that over 12,000 additional pounds of copper will be recovered each year with annual savings in excess of \$6,000.

Overall, Olin reports better filtration quality, reduced liquid loss, valuable solids recovery and a noticeable improvement in product quality (reduced rejection rate)...all with the performance and versatility of a LAKOS Separator.

Others who have used LAKOS Separators for similar applications:

BETHLEHEM STEEL CORP.; Steelton, PA SOUTHERN IRON & STEEL; Penang, Malaysia

PHILLIPS CABLE; Watertown, NY

ST. JOE LEAD COMPANY; Herculaneum, MO

DAIDO STEEL; Nagoya, Japan

BENDIX CORP.; Baltimore, MD BLACK & DECKER; Baltimore, MD

U.S. STEEL CORP.; McKeesport, PA

CHEVROLET MOTOR DIV.-G.M.; Tonawands, NY

CIRCLE CITY HEAT TREATING; Indianapolis, IN

WIRE ROPE COMPANY; St. Joseph, MO KEYSTONE GROUP; Crawfordsville, IN

ASARCO; Glover, MO PERU FOUNDRY; Peru

KOBE STEEL; Moka, Japan CHARTER ELECTRICAL MELTING; Chicago, IL

KRUPP; Werdohl, West Germany ROANOKE STEEL; Roanoke, VA

BRITISH STEEL; Birmingham, England

TAIWAN STEEL; Taipei, Taiwan

JERSEY BILLETS; Parlin, NJ

MC LOUTH STEEL PRODUCTS; Trenton, MI GEORGETOWN TEXAS STEEL; Beaumont, TX

FLORIDA STEEL; Baldwin, FL SEATTLE STEEL; Seattle, WA PHELPS DODGE: Fort Wayne, IN

GOVERNMENT AIRCRAFT COMPANY; Melbourne, Victoria

AMAX SPECIALTY METALS; Florham Park, NJ

FMC; Baltimore, MD

GENERAL MOTORS TRUCK & BUS; Pontiac, MI

WAYNE METAL; Markle, IN DONG KUK STEEL; Inchon, Korea

LTV STEEL; Canton, OH

CLAUDE LAVAL CORPORATION

Not connected with The DeLaval Separator Company

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