

APPLICATIONS

PUMPS



OPERATION:

The Burlington Northern Railroad needed to reduce the time and cost of cleaning their locomotives prior to their regularly scheduled maintenance at the Service Pit Facility. This is a seasonal cleaning and maintenance between April and October and the locomotives cannot be tied up for long periods of time.

The new high pressure cleaning system consists of a low pressure chemical pump to apply degreasers. After a soak period, two Model 3535 pumps deliver 72 GPM of fresh water at 1200 PSI through a series of nozzles blasting the locomotive with high pressure as it passes through the cleaning tunnel to remove dirt and grime from the surface.

The previous hand cleaning method required four men and at least two hours per locomotive.

The new automated high pressure cleaning system, situated at the end of a rip track, requires only one man to monitor the operation of the system and enables at least 65 locomotives to be cleaned and serviced daily.

Maintenance on the cleaning system over a four year period included only the replacing of some nozzles.

LOCOMOTIVE CLEANING

File No. 102

Section 7

PROBLEM:

Finding an effective and efficient method of cleaning locomotives.

SOLUTION:

Building a cleaning tunnel equipped with an arch of spray nozzles to apply cleaning solution and blast clean with high pressure.

SPECIFICATIONS:

CAT PUMPS Model (two)	3535
Pressure	1200 PSI
Flow (each)	36 GPM
Temperature	Ambient
Fluid	Water
Duty Cycle	Seasonal, 24 Hr/Day
Drive (two)	30 H.P. Electric Motor

BENEFITS:

- Reduces manpower from 4 men to 1.
- Reduces cleaning time per locomotive from 2 hours to 15 minutes.
- Improves quality of cleaning.
- Operates with extremely low maintenance.



“Customer confidence is our greatest asset”

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

Aug 1999 8940

World Headquarters

CAT PUMPS

1681 - 94th Lane N.E. Minneapolis, MN 55449-4324

Phone (612) 780-5440 — FAX (612) 780-2958

e-mail: sales@catpumps.com

www.catpumps.com

International Inquiries

FAX (612) 785-4329

e-mail: intlsales@catpumps.com



The Pump with "Nine Lives"

CAT PUMPS (U.K.) LTD.

1 Fleet Business Park, Sandy Lane, Church Crookham, Fleet
Hampshire GU13 0BF, England

Phone Fleet 44 1252-622031 — Fax 44 1252-626655

N.V. CAT PUMPS INTERNATIONAL S.A.

Heiveldkens 6A, 2550 Kontich, Belgium
Phone 32-3-450.71.50 — Fax 32-3-450.71.51

e-mail: cpi@catpumps.be www.catpumps.be

CAT PUMPS DEUTSCHLAND GmbH

Buchwiese 2, D-65510 Idstein, Germany
Phone 49 6126-93030 — Fax 49 6126-930333
e-mail: catpumps@t-online.de www.catpumps.de