

APPLICATIONS

PUMPS



LIVE WIRE INSULATOR WASHING

File No. 132

Section 6

PROBLEM:

To clean insulators without interruption of electrical service.

SOLUTION:

Design a truck mounted high pressure washer.

SPECIFICATIONS:

CAT PUMPS Model*6020
 Pressure700 PSI
 Flow60 GPM
 TemperatureAmbient
 Fluid.....Water
 Duty Cycle.....Intermittent
 DrivePTO

*Alternate CAT PUMP model 6767 plunger pump.

BENEFITS:

- Compact, lightweight mobile unit accommodates the many set-ups necessary each day.
- Dependable, low maintenance operation provides the continuous service needed for the frequent insulator washing.
- Fast cleaning done in just 15 seconds.
- Economical cleaning done without interruption of electrical service.

OPERATION:

Southern California Edison (S.C.E) put the pressure on one of their cleaning problems by using CAT PUMP in their specially designed equipment to clean high voltage transmission line insulators.

Dust, smog, salt or other pollutants collect on high voltage insulators. These materials can become conductors of electricity, which will reduce the effectiveness of the insulator and cause problems in electrical service such as short circuits.

During the dry season in parts of southern California, high voltage insulators can require cleaning as often as every two months, depending upon the amount of rainfall.

Any conventional means of cleaning this residue from the insulators would mean shutting down the lines and interrupting service to homes, offices, schools and businesses.

S.C.E. has a washing fleet of 50 trucks, each capable of carrying 1200 to 4000 gallons. Each truck is equipped with a hydraulically-actuated boom, 75 to 100 feet long, which is used to get the nozzle close enough to the insulators for effective cleaning.

Time for set-up must be kept to an absolute minimum. The special trucks, built to S.C.E.'s specifications, have hydraulic leveling jacks at the rear corners, which are controlled by the boom operator. A unit can be set up quickly, which is critical, considering the many hundreds of set-ups necessary each day, for each truck.

Thanks to a unique nozzle developed by the S.C.E. engineers, an insulator can be washed in only 15 seconds from just one location without any power interruption.

“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