

# \$1.2 million equipment entrusted to Des-Case breathers

## Nashville Electric Service benefits from proactive maintenance measures

Operational efficiency is key when providing power to 300,000+ customers. Just ask NES, one of the nation's ten largest public electrical utility companies.

NES employees James Mitchell, underground and substation supervisor, and Don Sweeney, field superintendent-substation, were looking for ways to protect dielectric oils from moisture contamination. The company turned to Des-Case breather products.

NES selected Des-Case DC-2's to protect the \$1.2 million mobile substations/transformers. Used for emergency service only, it is imperative that the mobile units remain ready to operate at full capacity. The DC-2 prohibits damaging water and particulate (down to 3-micron) from entering the system, thereby preventing corrosion and keeping the oil clean and dry.

Des-Case also provides bulk silica gel to protect \$600,000 transformers. Each tap changer is protected using a 1/2 gallon of silica gel which adsorbs water.

Des-Case CS-6's were chosen

to protect the oil tankers which recondition oil. During the filling/emptying process, Des-Case breathers ensure that only clean, dry air enter the tank.

Additional Des-Case units, model DC-BB's, are also being installed to protect the hydraulic accumulators and reservoirs in circuit breaker cabinets.

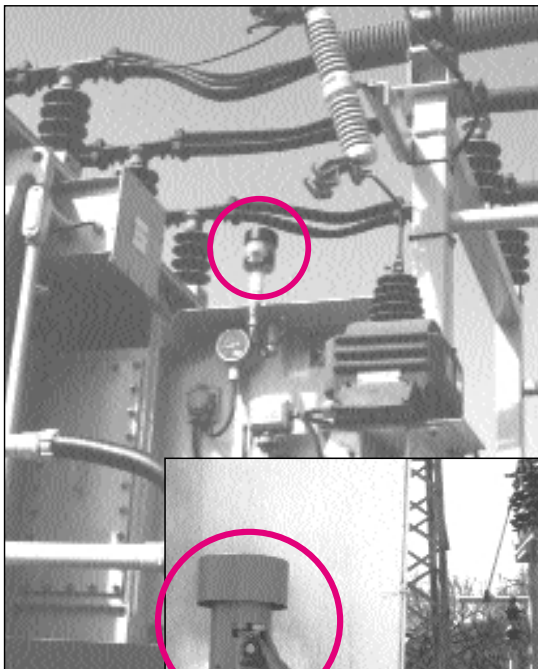
Des-Case products use a color indicator allowing NES maintenance crews to visually inspect the breathers to determine when replacement is necessary. This ensures ongoing protection.

"Utility companies are beginning to understand how vital clean, dry oil is to smooth operation of machinery," said Kim Presley of Des-Case. "The

best protection is to prevent contaminants from entering on the front end which is exactly what Des-Case does."

Des-Case is just one example of the NES commitment to seeking new ways to operate more efficiently.

"Des-Case products work and pay for themselves quickly," said Mitchell.



The Des-Case breather model DC-2 protects a \$1.2 million mobile substation that is used in emergency situations to power Davidson and Williamson counties.



James Mitchell, NES supervisor--underground and substation, specifies Des-Case breather models CS-6 for NES oil tankers.



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CORPORATION