



## AIR SENTRY® INCREASING PERFORMANCE ON POWER TRANSFORMERS

**Location:** Midwest, USA  
**Industry:** Power Generation  
**Application:** 7.5 mw Transformers

### Product Recommendation Air Sentry® - D-102 Breathers

D-Series breathers provide application flexibility by using 100% silica gel for moisture adsorption. All D-Series models feature 2-micron solid particle filtration and are available with airflow ratings of 20 cfm.

#### Applications

- Gearboxes
- Fluid Reservoirs
- Stationary Applications
- Oil Storage Tanks
- Transformers
- Pumps



### Previous Situation

#### Pre-Trial Activity:

Midwestern Power Company requested a product that protects the integrity of the insulating fluid in 7.5 mw transformers with tap load changers.

### Solution

Air Sentry® D-102 model breathers were mounted on the fluid reservoir of each substation transformer. Solid particle contamination larger than 2-micron and 90% of the airborne water vapor were prevented from entering the system.

Clean and dry insulating fluid is essential in maintaining its maximum dielectric strength and to insure full system reliability.

Each 150 gallon reservoir has a vent hole to allow air to flow in and out as fluid temperature changes.

