

# ***B & B BENCHMARK***

B & B ELECTRIC MOTOR CO. Wichita, Ks.

## **CUSTOMER APPRECIATION DAY WAS A GREAT SUCCESS**

We had a great turn out of customers at our annual Customer Appreciation Day. We had several lucky Door Prize winners along with great food and exhibitor displays. One new attraction this year was the display of several antique and classic cars. Next year we will have another showing with different vehicles on display. If you have a vehicle you would like to display please contact our sales person Ed Giesen as he will be heading up the display.



## **HOW TO HANDLE THE REPAIR AND REPLACEMENT OF ELECTRICAL APPARATUS AND MECHANICAL EQUIPMENT SUBMERGED IN WATER**

ELECTRIC MOTORS When electric motors become submerged in water at any time it will be necessary for the motors to be disassembled, inspected to see if there is any obvious damage to the windings, then thoroughly washed with soap and water, rinsed to remove all contaminants, and then placed in a drying oven to evaporate the moisture from the stator and rotor windings. The motor windings will then need to be megohm tested to see that all moisture has been removed. Then electrically tested to see if the windings are in good electrical condition and the bearings and lubricants will need to be replaced. In many cases it is more cost effective to replace the submerged electrical or mechanical apparatus than to clean and replace the parts. The parts and labor many times exceed the cost of a new product. If the electrical equipment is special designed or more than 20 HP, it would be more cost effective to have the equipment cleaned and repaired.

ELECTRICAL APPLIANCES Electrical appliances such as stoves, refrigerators, freezers, washer, dryers, TV's, computers, small appliances, and other electronic devices definitely should be replaced. These appliances containing electronic and electrical parts have components that cannot be cleaned and dried out. Refrigerators and freezers will have moisture in the insulation lining of the units. To make any clean up of the units they would have to be completely disassembled, the insulation replaced as well as the controls and electrical wiring which makes repairing not cost effective.

ELECTRONIC EQUIPMENT & MOTOR

CONTROLS Electronic equipment cannot be washed and dried out. Many of the components will absorb moisture and the moisture cannot be dried out of the circuit boards and components. Any motor starters or controllers will need to be disassembled, dried out, and then reassembled including the holding coils. This is a good time to inspect and change out any burnt contacts. If there are electronic devices in the controls they will need to be replaced. Again depending on the device it may be more cost effective to replace the control than to clean and reuse.

MECHANICAL EQUIPMENT

Pumps, gearboxes, industrial equipment, farm machinery, and any other mechanical equipment will need to be disassembled and cleaned. The bearings, seals, and lubricants, will need to be replaced to put the equipment back in usable operating condition.

All mechanical engines will need to have the liquids drained and thoroughly cleaned before refilling. All openings will need to be thoroughly cleaned and inspected. The electrical wiring, electrical components, gauges, electronic sensors, alternators, starters, batteries, and any other electrical or electronic devices will need to be replaced. Again it may be more cost effective to replace the equipment than perform repairs.

ELECTRIC TRANSFORMERS

Any electric transformers will need to be cleaned, dried out, and then tested to see if the windings are shorted or open. If the transformers are of a small kva it will definitely be less expensive to replace the unit. If the transformers are of a larger kva it may be less expensive to clean and dry out the units providing they did not blow to a ground or short out when the water entered the unit.

If the motor or transformer was shut down prior to the water entering the unit there is a good chance the windings will still be good once the unit is cleaned, dried and tested. Again if a new unit is not too expensive it may be better to replace than to repair.

FLOODING OF HOMES AND BUILDINGS

When a home or building is flooded it will be necessary to remove all wall coverings back to bare walls or studs. Thoroughly clean the area and begin the process of ventilating and dehumidifying the area to keep down mold and mildew problems. The electrical wiring, receptacles, switches, and any other electrical wiring devices will need to be replaced. The breaker box or panel will need to be replaced if it has been submerged in water. Your outside electric meter will need to be replaced as well as the electrical wiring provided by your local power company if it has been under water.

Your heating and air conditioning system will need to be replaced. The duct work may be able to be cleaned or it may be more cost effective to replace the duct work particularly if you have to remove wall and ceiling coverings. The gas meter will need to be replaced by your local utility company.

If there is other contamination besides just water and mud it may be necessary to completely remove and destroy the structure and rebuild the facility. This will need to be determined by your local health department and or your insurance company.

Develop an emergency flood plan to shut down and protect valuable records and equipment subject to flooding. In many cases you have some pre-warning of possible flooding of your home or business facility.

This information has been provided as a guide to help you understand how to process or replace electrical and mechanical equipment that has been submerged in water.

For more information, consultation, technical assistance, new sales and processing of your equipment, please give us an call as we are here to serve your needs 24/7.

**B & B Electric Motor Co.**  
**332 Lulu, Wichita, Kansas 67211**  
**office 316-267-1238 or 800-499-1238**  
**cellular 316-641-0806, or 641-1095**

**B & B  
ELECTRIC  
MOTOR CO.**

332 Lulu St  
Wichita, Kansas

**24 HOUR  
EMERGENCY  
SERVICE**

**CALL**

(316) 267-1238  
Don (316) 641-0806  
Ed (316) 641-1095  
Bob (316) 641-0375  
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**TRAINING SEMINAR**

We will again be presenting an educational seminar for our valued customers on, Tuesday **October 23, 2007**. The seminar will cover the Application and Maintenance of Rotating Electrical Machinery. We will cover design and applications of single and three phase motors, the proper lubrication of motors, as well as other important information. This seminar has been approved by the City of Wichita for **Three Hours of Continuing Education Credit** for all HVAC, and Journeyman/Master certificate holders. The seminar will be held at the Wichita Workforce Development Center, Located at 150 No. Main St. We will meet in the 3rd floor conference room. The seminar will be from 3-6:30 pm. There will be a \$20.00 charge to cover room rental, educational materials and food. **Please make your reservations by October, 19, 2007, by calling our office at (316) 267-1238.**

This seminar has been rated very high by the attendees. If you have not attended this seminar or your personnel have not attended, the information is worth much more than the cost of the seminar to your organization.

In our last newsletter we featured one of our employees Kyler Stude. I am pleased to announce that Kyler's wife gave birth to a 10 pound, 2 ounce boy on July 25, they named him Austin James Stude.

CONGRATULATIONS KYLER & SHELLY.



**TECHNICAL TRAINING SEMINAR**

**B&B ELECTRIC MOTOR CO**  
**332 LULU**  
**WICHITA, KS 67211**

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### **Mission Statement**

**B&B ELECTRIC MOTOR CO. is committed to the high standards established by the Electrical Apparatus Service Association. Our pledge is to maintain these standards and to provide the quality workmanship and service to our customers which has earned us an excellent reputation in over thirty-five years of business. We continually provide the newest technology and quality products to meet the needs of our customers. Our staff of dedicated professionals provides the best quality workmanship and service, and are the cornerstone of our business.**