

## **ELECTRIC MOTOR AND GENERATOR CLEANING**

### **APPLICATION SHEET**

Dry Ice blast cleaning is used in **Electric Motor and Generator Maintenance** for:

- Removal of carbon deposits
- Removal of grease/oil build-up
- Cleaning buss bars
- Stator core
- Stator
- Rings
- Windings
- Covers

#### **Advantages include:**

- The biggest advantage is sheer speed of cleaning
- Reduced downtime means greater productivity
- A superior clean, dry ice blast cleaning reaches areas that are not accessible to hand cleaning
- Dry ice blast cleaning is non-abrasive
- Reduced chemical usage (reduced V.O.C.)
- Cleaning can be completed online
- No drying time
- Raises the level of ohms

When cleaning a motor or generator the dry ice blast cleaning process successfully removes contaminants such as carbon build up, oil, and other foreign material. These contaminants reduce the efficiency of motors, generators, and turbines. Heavy carbon and oil deposits will decrease efficiency and in severe cases may cause short circuits and or electrical fires. The dry ice blast cleaning process allows for reduced maintenance and downtime, increasing productivity.

Dry ice blasting is environmentally friendly because it virtually eliminates clean up and waste disposal issues. Other blast media such as, corn cob and walnut shells, get trapped inside of the motor assembly, whereas dry ice sublimates upon contact. Dry ice blast cleaning also eliminates the need for drying time, steam cleaning typically requires a drying time of 24 to 48 hours. Worker safety is enhanced with dry ice blasting by limiting exposure to harsh chemicals and solvents, the need for such solvents is reduced and or eliminated by using dry ice.

Recommended cleaning for motor and generators is every 1 – 3 years depending on the environment.