**IEEE Technical Presentation** **Date: November 8, 2017**

# Tutorial on Motor Construction and Design at Integrated Power Services - IPS, Cleveland

## Cleveland Location on November 8 from 5:00 PM to 7:30 PM at:

Beacon Place Lower Level Conference Room
6055 Rockside Woods Blvd. N. –
Independence, OH 44147

**SYNOPSIS:** IPS Cleveland is one of many IPS North American Service Centers offering local, regional and national coverage, all backed by a single Quality Management System, Health Safety & Environmental program, Continuous Improvement culture and Customer Service that offers an Unmatched Customer Experience (UCE).

IPS Cleveland provides service for:

- industrial AC & DC electric motors, generators and
- mechanical power transmission equipment such as gearboxes, pumps, fans, compressors, shafts.

Electric motors are used in all areas of our everyday lives. They can be found in automobiles, trains, factories, power plants, and even in your own home. Each motor is designed for a specific purpose, such as running a fan, pump, or drive train. IPS North American service centers handle all industrial AC & DC electric motor and generator repairs — everything from small, fractional HP, low-voltage units (<690V) to assets weighing 145 tons and rated to 15kV.

**PRESENTATION:** This presentation covers motor construction topics that include:

1. understanding motor nameplate information,
2. winding insulation systems,
3. stator core manufacturing techniques,
4. processing procedures.
5. Q&A

**The Speaker:** Mr. David Hinchliffe P.E. is the Senior Electrical Engineer for IPS Cleveland since 2014. David oversees electrical failure investigations, repair and testing. He is also the Electrical Insulation Engineer for the development and maintenance of the IPS proprietary insulation systems.

From 2004 to 2014, David worked for Exelon Generation in progressively advancing roles at Oyster Creek Nuclear Generating plant. Starting as an Electrical Component Specialist and advancing to System Manager. He oversaw maintenance and quality issues of electrical motors based on predictive maintenance technologies, vibration monitoring, thermography, lube oil analysis, motor design analysis, protective device assessment and motor load effects. He also

held the position of Electric Motor Corporate Subject Matter Expert and the Large Power Transformer Subject Matter Expert.

From 2002 until 2004, David worked for STV Incorporated in Philadelphia as a Vehicle Specialist, performing qualification testing on electric locomotives prototype propulsion testing on new diesel-electric locomotives for NJ Transit in Tarbes, FR and Valencia, ES.

David graduated in 2002 from Drexel University, Philadelphia, PA with a BS in Electrical Engineering and is a Licensed Professional Engineer in Pennsylvania and Ohio.

## Notes:

1. This event is sponsored by the Cleveland Section and PES chapter.
2. Snacks and beverages would be served from 5:00 to 5:30 PM.
3. Eligible for 2 hour PDH certificate.

This is to certify that _____ attended this IEEE-sponsored technical presentation. Certified by _____. Certificate of attendees and other evidence of CPD activities should be retained by the attendee.