

Manufacturing Maintenance Solutions, Inc.

Email info@mmsteam.com

<http://www.mmsteam.com>

MMS is a **BRWZ** and ISNetworld® Certified Company

Like us on Facebook: MMS, Inc

Office (309) 263-6077

Service (888) 333-5910

Fax (309) 263-6092

ARC FLASH REGULATIONS CHANGED IN 2015

Is your Company Compliant?

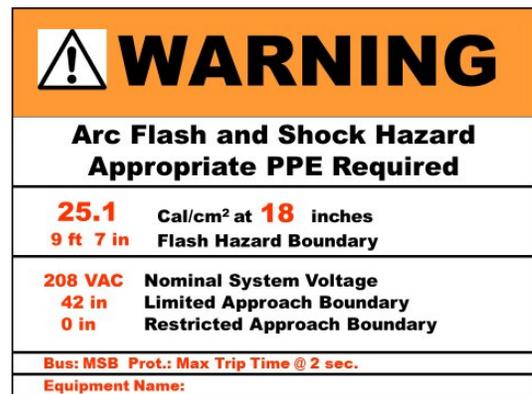
In the 2015 Edition NFPA 70E Standard for 'Electrical Safety In The Workplace' there were some changes regarding the terminology for Personal Protective Equipment (PPE) categories. The phrase that we have all been accustomed to using, PPE Category, also known as Hazard Risk Category (HRC), is no more. The emphasis has now been put on the actual **incident energy rating** of the hazard and workers will now match that rating, measured in calories per centimeter squared (cal/cm^2), to select the proper PPE for a given task when working on or around energized equipment.

Gone are the days of referring to sets of PPE as "Cat 1" or "Cat 2". You must now match the clothing and PPE items to the calculated incident energy rating which is determined by completing an incident energy analysis--an integral part of an arc flash hazard assessment.

In addition to the elimination of the category method, we also find that there will be no more Hazard Risk Category 0 (HRC 0) which is now referred to as $<1.2\text{cal}/\text{cm}^2$ and requires clothing made from non-melting, untreated, natural fibers. Although this change can seem confusing, it provides a much simpler approach as we now match the calculated hazard to appropriately rated

clothing.

Equipment must be properly marked to insure government compliance.



OSHA and the National Electrical Code require an employer to protect both in-house and contracted workers from electric shock and arc flash. The equipment owner is required to field-label electrical equipment with a label containing the available incident energy or required level of PPE. Unfortunately, many facility owners are often reluctant to address this requirement.

MMS Customer Support

December is typically a vacation month for manufacturing facilities and an opportunity month for MMS. Companies that MMS supports will contract for special maintenance services while their employees are enjoying a planned vacation.

- MMS has engaged in a rebuild process of a medium sized furnace where the masonry was removed, mechanical inspected for any issues and bricked to OEM standards. The controls on this furnace were dated to the point that it was time to perform an upgrade. MMS was awarded both the electrical and mechanical service requests.
- MMS was awarded a contract to reconfigure a complicated quench oil delivery system. The original scope of work and request for quote called for a two (2) week shutdown period for implementation. This request was modified to a completion period of one (1) week to meet an ever-increasing manufacturing demand. Engineers and MMS technicians worked out a schedule where the project would be staffed overnight to improve the scheduled startup. Although part of this upgrade was during a planned plant wide power outage that left the facility dark, MMS was able to deliver a functional product, on-time and on budget.

- MMS receives numerous calls from companies that discover the difficulty in finding help supporting legacy computer products and associated machine tools. The engineering staff members at MMS are able to migrate those legacy controls system onto a platform that is consistent with the products used at your plant or office. An upgraded control system will add new life to a machine and simplify diagnostics.
- Several mechanical tool changers are currently at the MMS facility in Pekin for rebuild and improvements.
- To provide insurance of compliance with Arc-Flash, MMS is updating gas train devices for companies by replacing flexible conduits that could provide a path for gases, with Din connector cabling that eliminate any path for the flow of combustible gases.
- Light curtain controls have been proactively added to a press at a Vocational Center to insure the safety of the students.
- Our contract maintenance lead is starting a new World Class Manufacturing Audit for the customer.



MMS, Inc.

Maintaining Your Success...

MMS is a manufacturing process support organization committed to 100% customer satisfaction with mechanical/electrical repair of machine tools and process plant equipment with 24/7 emergency repairs.

MMS will grow and succeed in our business by helping our customers to grow and succeed in their business.

World Class Manufacturing at **MMS**

MMS strives to have a fully engaged workforce dedicated to the principles of World Class Manufacturing, leading by example through:

- ⇒ Cultivating a completely safe work environment.
- ⇒ Meeting and exceeding customer expectations and requirements.
- ⇒ Driving out all waste from our operation.

World Class Manufacturing (WCM) is the road map that MMS will use to become the best Support & Contract Maintenance Supplier in the world, most admired for our people, partnerships, quality and innovation.

MMS would be pleased to review any issues or opportunities with your company that will meet the metrics and future demands or requirements that have been set for your continued growth.

Contracted Maintenance Support

Priorities:

Manufacturing facilities provide quality goods and products in a timely manner to their customers. That's why they are in business. Maintenance crews for these companies, although convenient, do not always have the immediate resources to keep equipment running in an optimum manner to meet the customers requirements.

The Solution:

MMS listens. MMS also understands and commits to the metrics of the businesses that we

support. Our goals are to drive production standards and equipment uptime to the metrics of the companies that we support. MMS succeeds when our customers succeed. MMS knows the maintenance business.

Contract maintenance is not about how many tickets or incidents are completed per employee per day. Its about productivity, meeting the demands of manufacturing, machine uptime, availability of technical resources, continuous training of employees, performance, and planned events that reduce or remove variability in the delivery of products.

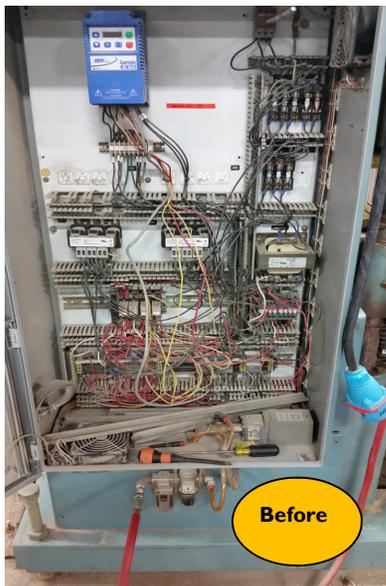
World Class Preventative Maintenance (PM) More than an Inspection

October 2016 was a time of new opportunities for MMS. Mike Falco, MMS Vice President, was contacted to supply a need for maintenance crews by a subsidiary of CPG International in Wilmington Ohio with the specific objective to perform Preventative Maintenance on product lines as they became available at Azek Building Projects® / TemberTech®. Since that phone conversation MMS has had crews at the Wilmington plant for work on several rail and decking product lines.

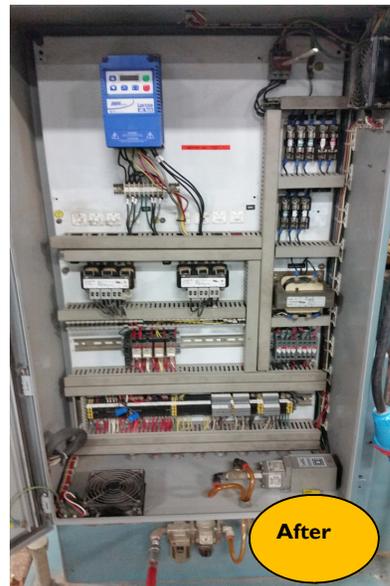
During a recent visit to the CPG facility, MMS V.P. Mike Falco and Project Manager Mike Joachim met with CPG Plant Engineering Manager Mike Cole and V.P. of Engineering Bill Bremer. Mike Cole expressed his utmost appreciation of the craftsmanship, professionalism and overall dedication our team demonstrated completing each PM on schedule. Mike also expressed that our superior work was something that our competitors could not achieve in the past. Bill Bremer expressed the same appreciation and quoted; "MMS is the best contract maintenance team he has seen at CPG".

This is an example of proper corrective actions.

Hats off to our MMS team for a job well done.



Before



After

Contact Information

Office: (309) 263-6077
Service: (888) 333-5910
info@mmsteam.com

www.mmsteam.com

Follow Us

www.Linkedin.com

[Facebook – MMS, Inc](#)

MMS Inc.

14646 Watson Road
Pekin IL 61554

MMS is a **BROWZ** and
ISNetworld® Certified Company