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Atlantic Metal Working Symposium a Success!

The 1st Atlantic Metal Working Symposium was held in August at the Delta Beausejour Hotel in Moncton. Approximately one hundred metal industry representatives participated in the events scheduled for August 25th – 27th. Successful presentations were given on topics such as Contract Manufacturing in The U.S., Fabrication Opportunities in New England, Tax Implications of Exporting, Successful Trade Shows, Comparing your U.S. Selling Options, C-TPAT, U.S. Codes and Standards and Are You Export Ready. John Gardner, President of Gardner Electric was the Luncheon Speaker and Normand Caissie, President of Imperial Manufacturing Group gave the Keynote evening address. Apex Industries provided over forty participants with a tour their facilities to close out events.

Thanks to our many sponsors:

Sunny Corner Enterprises Inc. and Russel Metals Inc. – Evening Reception Sponsors
Ocean Steel & Construction Limited and Eastern Environmental Limited – Nutrition Breaks Sponsors

Bourque Industrial Limited and Microbotic Machining – Luncheon Sponsors
BDC – Evening Dinner Sponsor

Feedback from this event suggests this will be an annual event for years to come. Thanks goes to the **Atlantic Canada Opportunities Agency and the IBDA Program and the Governments of the four Atlantic Provinces** for financial and organizational assistance in providing this event for the metal sector.

New England Jobshop Show Trade Mission

The **Metal Working Association of New Brunswick** recently led seventeen Atlantic Canadian Metal Working Companies (eleven of them from New Brunswick) on a trade mission to the New England Jobshop Show in Marlborough, Mass. With the Assistance of a matchmaker, meetings were arranged with New England based Metal Sector companies in conjunction with the show. An Atlantic Canada reception was held with over two hundred participants at the show stopping by for some Atlantic Canadian hospitality. Within a week of our return, several participants reported

positively on their trip including a signed contract for \$150,000.00 U.S. This will also become an annual event as we look to build on our success. Thanks again to the **Atlantic Canada Opportunities Agency and the IBDA Program and the Governments of the four Atlantic Provinces** for financial and organizational assistance for this event.

Cross Border Security Issues Addressed.

On October 24, 2003 the Metal Working Association of New Brunswick presented a seminar on Cross Border Transportation of Manufactured Goods.

This course is designed to examine the following topics:

Border Security Environment Overview
Canadian and US Security Initiatives (PIP & C-TPAT)
Canadian and US Compliance Initiatives (CSA & ISA)
Joint Initiative -FAST (Free And Secure Trade)
Developing Border Security Action Plans

Michael R. Daly, Director of USA Consulting, Champlain NY, presented on behalf of Livingston International Trade Services Inc. Over 35 people participated in this half-day seminar. For more information and a copy of the presentation, go to the association website (www.mwanb.com).



Mike Daly of Livingston presents a seminar on Cross border Security Issues (C-TPAT).

Industry to Absorb Holiday Costs!

On November 7, 2003 Premier Lord declared Remembrance Day, beginning in 2004, will be New Brunswick's 7th statutory holiday. Although we all agree that Remembrance Day is important and veterans deserve recognition, Premier Lord's declaration was made without consultation with industry. The affects of such a declaration are clear. Those who choose to remain open or are open and have a collective agreement with their employees will be hardest hit. Paying employees' time and a half or double time will have a significant impact on a company's bottom line. In the Moncton Times & Transcript article covering this announcement, Dennis Driscoll, Provincial President of the New Brunswick Command for the Royal Canadian Legion indicated that families would be able to mark the occasion "as full family units with no financial penalties"... "It's great to have an event and put it

on, but there are individual costs associated with that even then people have life choices to make. This will make it easier for everybody."

Proclaiming Remembrance Day as a statutory holiday has increased costs substantially to employers and has eliminated their option to stay open or close without penalty.

Several members have already expressed concern over this announcement. A medium/large-sized company with approximately 100 employees has indicated this announcement will cost them in excess of \$20,000.00. The provincial government is expected to pay \$16 million more for an extra statutory holiday.

The association will continue to monitor this announcement for further developments. A letter will be sent to the Premier and cabinet outlining the association's position. Eliminating the choice for companies is not a suitable option. We all recognize the importance of honouring our veteran's contributions but small to medium sized companies cannot afford to have an additional statutory holiday and the costs associated with it.

NEW STANDARDS IN STEEL

CSA STANDARD W47.1-03 "CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL"

In the near future, new editions of two of the most widely used welding standards in Canada are due to be released. This article serves to highlight some of the changes in CSA Standards W47.1-03 and W59-03

CSA STANDARD W47.1-03

The sixth edition of CSA Standard W47.1 will be released in the latter part of 2003 or early 2004. The standard has undergone extensive reviews by the W47.1 Technical Committee and other interested parties. It continues to specify certification requirements for companies and the qualification requirements for welding supervisors, welding engineers, welders and welding procedures.

Some of the many changes are as follows:

Divisions of Certification

- Companies may be certified in one of three divisions, based on the involvement of a welding engineer in the company's welding operations. The existing Divisions 2.1 and 2.2 will now become Division 2 as the requirement for an engineer responsible for welding design has been eliminated.

- The certification process has been simplified by eliminating some of the current documentation requirements.

Requirements for Welding Supervisors

The requirements for welding supervisors remain essentially the same.

- For all Divisions, welding supervisors must have five years of welding related experience pertinent to the company's type of operations.

- Welding supervisors employed by companies with a clearly defined and limited scope of operations may have examinations focused on the company's operations. Such qualifications will be non-transferable.

Requirements for Welding Engineers

Significant changes have been made in this area.

- The minimum duties of the welding engineer have been defined.

- The educational requirements for engineers have been simplified and are focused on the areas of welding fundamentals, welding metallurgy and welding procedures and practice.

- Suggested areas of study and guidelines for the welding engineer have been included in a non-mandatory appendix.

- The documentation to be provided by the welding engineer and reporting frequency have been defined.

- Engineers will not be required to show relevant experience or have knowledge in welding design.

Welder, Welding Operator and Tack Welder Qualifications

- The existing S and T classifications have been retained with another 3 classifications added; FW for welder and welding operators who only deposit fillet welds, ASW for arc spot welding of steel deck and WT for tack welders.

- Welding personnel using the GMAW process will require requalification if a change in the mode of transfer is made from short circuiting to spray, globular or pulsed and vice versa. Three different groove configurations are available for the S classification test assembly. Depending on the type chosen, welders and welding operators may also be required to qualify for welding fillet welds.

- Welders or welding operators may qualify for the T Classification by welding either plate or pipe test assemblies.

- T classification welders must also qualify for welding fillet welds.

- Provisions for qualifying with the GTAW process have been added.

- The provisions of AWS D1.6 may be used for the qualification of welding personnel for welding stainless steel.

- For welding sheet steel, except for arc spot welding of steel decking, the provisions of AWS D1.3 will be used for the qualification of welding personnel.

- Welders may be granted an exemption from the two year check testing requirement provided the company can verify that the welder has continued to use the process throughout the previous two years and within the last three months and can demonstrate that he or she maintains the requisite skill for the process.

Welding Procedures

- Companies will no longer be required to submit a Welding Engineering Standard or an appraisal of the limitation and suitability of joints.

- Companies welding deformed reinforcing bars to steel elements may apply the testing requirements of the standard to have their welding procedure data sheets accepted.

- Process essential variables have been revised and are now similar to those found in AWS D1.1. They have been organized into a tabular format for ease of use.

- New provisions have been included for situations where non-certified electrodes are used and for arc spot welding of steel deck.

- The provisions of AWS D1.6 may be used for the qualification of welding procedures for welding stainless steel.

- The qualification of welding procedures for sheet steel less than 3 mm, except for arc spot welding of steel decking is governed by the requirements of AWS D1.3

Welding supervisors and engineers who are currently qualified will not be required to requalify. Welding procedures that have been accepted to previous versions of the standard are still valid. However, any changes to existing welding procedure

specifications and data sheets or new documents must meet the requirements of the new standard. They say change is good and the changes to CSA Standard W59 are no exception. The newest edition of CSA Standard W59-03 "Welded Steel Construction" is scheduled for release in the fall of 2003. Since 1990, the Technical Committee on Welding of Bridges, Buildings and Machinery has been working on the eighth edition of CSA Standard W59. Like all CSA welding standards, this volunteer committee is made up of representatives from Canadian steel fabricators as well as engineering and inspection organizations. Thousands of hours have been put into the development of the document and, as a result, the document has seen many progressive changes, which reflect new technology and fabrication methods as well as the needs of today's fabricator. Highlights of the many changes are as follows:

AWS D1.3 Recognized for Thin Steels

Recognition of AWS D1.3 Structural Welding Code -Sheet Steel is made for welding of thin steels (<3mm).

New Materials Recognized

New materials such as ASTM A106, A710, A913 and A992 have been included as approved materials in W59 expanding the document's scope.

New Weld Design Rules for Flare Groove Welds

Weld design rules for flare groove welds have been completely rewritten and expanded to recognize flare bevel groove welds in butt joints and flare bevel groove welds in T-joints. The concept of a flare bevel fillet weld has been introduced.

Electrode Classification and Storage

The document has been revised to recognize the new electrode classifications defined in CSA Standard W48-01. A reference chart comparing old and new classifications has been included. The term "low hydrogen" has been introduced to replace the term "basic", and the storage and conditioning guidelines

Similarly, welders, whose current qualifications have not yet expired,

for SMAW electrodes have been revised.

Recognition of Metal Cored Arc Welding (MCAW)

The use of the MCAW process has increased dramatically in Canada in the past few years. W59 now officially recognizes the process and allows its use. Prequalified joints are available for MCAW when used in the spray transfer mode.

New Guidance for Beam Copes and Weld Access Holes

New information regarding beam copes and weld access holes is now included in W59, along with special requirements for Group 4 and 5 shapes.

Revised Guidelines for Radiographic Inspection

The guidelines for radiographic inspection have been updated to reflect current practice, and now include the use of both hole type and wire type IQIs.

Following extensive revisions, additional emphasis has been placed on workmanship, stress analysis and the need for a comprehensive work plan including both inspection and documentation. A new appendix on Fatigue Life Enhancement has been included.

Addition of Prequalified Joints for Flare Groove Welds

Prequalified joints are now available for flare groove welds made with the SMAW, FCAW, MCAW, GMAW and SAW processes. This change will help reduce procedure qualification cost for fabricators using W59.

Addition of Prequalified Joints for Gas Metal Arc Welding (GMAW)

Brand new to this edition of W59, is the addition of prequalified joints for the GMAW process. Prequalified joints are available for fillet welds, flare groove welds and both complete and partial penetration groove welds when GMAW is used in the spray transfer mode. A new appendix on GMAW has also been added.

will not be required to requalify until they are due for check testing.

Cyclically Loaded Structures

The title of Clause 12 has been changed to "Cyclically Loaded Structures - Design and Construction" to better reflect the section's new emphasis on the effects of cyclic and fatigue loading on structures. Additional fatigue detail categories have been added.

To purchase a copy of CSA Standard W47.1-03 or CSA Standard W59-03, please contact the Canadian Welding Bureau at 1-800-844-6790 or 905-542-1312 or visit our web site at www.cwbweb.com to purchase online. For additional information on the new CSA Standard W47.1, please contact the author at 905-542-1312 or jim.macrae@cwbgroupp.com. For additional information on the new CSA Standard W59, please contact the author at 905-826-5133 or craig.martin@cwbgroupp.com.

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CSA W59-03

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Here We Grow Again! New Members for 2003-2004.

HSC Fabrication Ltd.

Contact: Jeff Harrison

Heffler Inkpen Hardy Freeman Insurance Ltd.

Contact: Dawn Dugas

Vally Graphics Ltd.

Contact: Reg VanDrecht

Max Steel Inc.

Contact: Mario Nadeau

Upcoming Events

TBA January 2004, CFB Gagetown

MWANB Meeting and Tour

TBA March, 2004, Fredericton

MWANB Meeting (Sponsored by Valley Graphics in conjunction with the CIS Hockey National Championships)

TBA April, 2004, Moncton

2nd Annual Advanced Welding & Fabrication Technology Seminar



A Moose Story

Yvon Johnson of Johnson Enterprises in Val D'Amour poses with his prize Moose he killed this fall. Yvon is an avid bow hunter and took this one down from over fifty yards away