



## **Expanded Engineering Services For All Your Structural Needs!**

Domson is proud and excited to announce that Mr. Hamid Mosleh P.Eng., M.Eng. has joined our team. Mr. Mosleh brings a new dimension to Domson that has long been requested by our clients – that is an experienced civil structural engineer.

With over 30 years of Canadian experience, Mr. Mosleh extends our engineering capabilities to include the following new services:

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- Cold Formed Steel
- Single / Multi-Story

### **Building Science**

- Roofing and Cladding
- Fire Protection
- Building Envelope
- Reserve Fund Studies

### **Industrial Support**

- Design / Review of Mezzanines
- Overhead Crane Design
- Pre-Start Health and Safety Reviews (PSR's)
- Equipment Platforms, Storage Bins, Pipe Supports
- Modifications for Plant Re-Tooling

### **Structural Reinforcement & Restoration**

- Roof Structure Upgrades For New HVAC
- Design for Vibrating Machinery
- Parking Garage Repairs
- Change of Use Reviews

### **Fall Protection**

- Suspended Scaffold Systems
- Roof Anchor Design and Testing
- Horizontal Lifeline Systems

### **Construction Support**

- Building Erection Plans
- Shoring Design and Inspection
- Project Management

### **Fabrication Support**

- Complete Shop Drawings
- Connection Design

We would be pleased to discuss your needs and offer our support on any current or future projects. Contact us to obtain a quote or to inquire about our capabilities in further detail.

## **New Crane Standards Up For Public Review**

Canadian Standards Association has announced that the newest draft for CSA Z-150 “Safety Code for Mobile Cranes” as well as a brand new standard, CSA Z150.3 “Safety Code for Articulating Boom Cranes” is available for Public Review.

You can find the drafts at [www.csa.ca](http://www.csa.ca) – just click the link for Public Reviews on the right of the screen just under the CSA banner.

This is your chance to affect the standards that you will have to live with, but you only have until May 8, 2011. So check them out and **have your say!**

### **DOMSON ENGINEERING & INSPECTION LTD.**

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### **Sneak Peak – CSA Z150 “Safety Code For Mobile Cranes”**

The new draft of the mobile crane standard addresses various issues relating to the technological improvements in cranes over the past decade or so. For example, there is significant guidance on the use of operational aids such as LMI's.

There is more detail regarding operational items such as personnel lifting, leaving a machine unattended, crane setup, operation near power lines, signaling, etc.

A sample crane log is provided in an annex at the end of the standard. There is also a new picture showing how suspended and pinned manbaskets should be rigged.

The draft standard has also re-vamped the inspection requirements for annual inspections, boom teardown inspections and hook block inspections.

It is proposed that annual inspections become due at the end of the month on the year following the previous inspections. This will give crane owners a little more leeway in getting the inspections done. There is also more guidance on what should be inspected annually.

The draft completely removes the 10 year / 10,000 hour due date for boom teardowns. Instead, these inspections are to be done when the boom is already disassembled for other reasons or due to concerns of internal defects.

With regard to hook block inspections, the 5 year teardown has also been eliminated although there is better guidance on what should be inspected on a hook block or ball annually.

There's a new section about magnetic particle inspection on the ends of an assembled boom which is to be done every five years.

Overall, there are a lot of new additions and clarifications to the standard being contemplated. Of course, when the document is finalized, we will bring you a full comparison of the new standard versus the existing 1998 version.

### **Sneak Peak – CSA Z150.3 “Safety Code For Articulating Boom Cranes”**

Many people will be surprised to find out that the old CSA Z150 did not apply to articulating cranes, so we really had no Canadian standard for them before this.

Despite that, the draft of this new standard closely follows the structure of the CSA Z150 standard. There are sections on design and construction; inspection and maintenance; and on operation. While the specific items are definitely suited to articulating cranes, many of the requirements are similar.

When it comes to inspection, the draft standard calls for daily, periodic and annual inspections similar to CSA Z150. There is no requirement for boom teardowns or hook teardowns.

This document is a welcome addition to the CSA family of equipment standards. It plugs the hole left by the parent Z150 standard and ends our reliance on American codes. That said, we encourage everyone to review the draft and provide any feedback to CSA.

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