

**RE: Construction, Excavation and Demolition –  
Concrete Pumping – Outriggers**

**ITEM: R20.40-1**

## **BACKGROUND**

### **1. Explanatory Notes**

Section 20.40 requires that outriggers be used in accordance with the manufacturer's specifications. These specifications may not, however, cover all situations. Section 4.3(1) requires that equipment be operated in accordance with safe work practices.

### **2. The Regulation**

Section 20.40:

- (1) Outriggers must be used in accordance with the concrete placing boom ~~or mast~~ manufacturer's specifications.
- (2) Extendible outriggers for a concrete placing boom ~~or mast~~ must be marked to indicate maximum extension.
- (3) A concrete placing boom ~~or mast~~ manufactured after January 1, 1999 must have its outriggers or jacks permanently marked to indicate the maximum load they will transmit to the ground.

Section 4.3(1):

The employer must ensure that each tool, machine and piece of equipment in the workplace is

- (a) capable of safely performing the functions for which it is used, and
- (b) selected, used and operated in accordance with
  - (i) the manufacturer's instructions, if available,
  - (ii) safe work practices, and
  - (iii) the requirements of this Regulation.

## **POLICY**

Manufacturer's instructions generally require that outriggers be fully deployed when the boom on a concrete pump is raised. Section 20.40 requires compliance with these instructions.

However, in some situations it may be impracticable to fully deploy outriggers. The manufacturer's instructions do not generally cover this possibility.

Section 4.3(1) provides that, in the absence of manufacturer's instructions, the operation of mobile equipment must be carried out in accordance with safe work practices. Set out below are guidelines for determining the "safe work practices" to be followed under section 4.3(1) in such cases.

- (1) As far as possible, the worksite must be organized so that concrete pump trucks can have their outriggers fully deployed when raising the boom. Where section 118 of the *Act* applies, the prime contractor or owner and the employer of the truck operator share responsibility for planning truck location. Truck location should be addressed if a pre-job meeting is held.
- (2) The full deployment of outriggers will **not** be considered impracticable just because it:
  - is more convenient;
  - saves money;
  - avoids repositioning the truck; or
  - requires the removal of stored materials that might reasonably be moved.
- (3) Among the situations where it may be impracticable to fully deploy outriggers are:
  - where it would put the machine within an unsafe distance to hazards such as excavations and powerlines;
  - where the outriggers would extend into traffic and the circumstances of the job render it impracticable to obtain permission to close traffic lanes (This is subject to municipal by-laws governing the obstruction of traffic that may result from using the pump truck.); and
  - where adjoining structures or an excavated or natural bank restricts deployment.

- (4) The pump operator must be trained as to the situations where the outriggers need not be fully deployed and, where they are not fully deployed, as to the regions where the boom may be located so as to maintain truck stability. The operator must have written detailed instructions in the truck.
- (5) Outriggers that cannot be fully deployed must be extended as far as possible and all jacks lowered to apply ground loading and to level the truck. Floats must be used where required. Outriggers must be fully deployed on the working side of the boom.

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<b>EFFECTIVE DATE:</b>	April 1, 2001
<b>AUTHORITY:</b>	ss.20.40 and 4.3(1), <i>Occupational Health and Safety Regulation</i>
<b>CROSS REFERENCES:</b>	
<b>HISTORY:</b>	<b>Housekeeping changes effective February 1, 2012 to reflect the regulation changes effective that date amending section 20.40 of the regulation.</b>  Housekeeping changes effective September 15, 2010 to add Section 4.3(1), delete Section 16.3(4) which has been repealed, make consequential changes to the text, delete practice reference and make formatting changes. Replaces Policy No. 26.02-4 of the Prevention Division <i>Policy and Procedure Manual</i> . A housekeeping change was made on December 14, 2001.
<b>APPLICATION:</b>	This Item results from the 2000/2001 "editorial" consolidation of all prevention policies into the <i>Prevention Manual</i> . The POLICY in this Item merely continues the substantive requirements of Policy No. 26.02-4, as they existed prior to the Effective Date, with any wording changes necessary to reflect legislative and regulatory changes since Policy No. 26.02-4 was issued.

