Information Bulletin No. IBE16-001 **Issued 2016**

Subject: Proper Wire Rope Gauges

Issue:
There is confusion as to what wire rope gauges that are to be used when measuring wire ropes as required by the latest adopted code in Alberta

Background:
On March 1, 2016 a new *Elevating Devices Codes Regulation AR 192/2015* came into effect adopting the ASME A17.1-2013/CSA B44-13.

- The ASME A17.1-2013/CSA B44-13 references the ASME A17.6-2017 as the method for determining the safety criteria for inspection and installation of Steel Wire Ropes Aramid and Flat Belt Type suspension means and compensation means, and governor ropes.

- The Elevating Devices Codes Regulation and the ASME A17.1-2013/B44-13 both state that the inspection of suspension means, compensation mean and governor ropes applies to all existing elevating devices.

- The ASME A17.6 sets out more stringent requirements for wire discard criteria rope than in the previous regulation AR 62/2009.

- Therefore, new wire rope gauges reflect those changes. An example of this is the rejection criteria for 5/8-inch wire ropes is;

  - The previous rope diameter rejection criteria called the ropes to be rejected at $37/64^{th}$ or 0.578 mm

  - The new requirements call for replacement at 0.586 mm and a more stringent 0.605 mm if showing rouge.

TYPE: Information	Elevator Wire Rope Gauge	REGULATION: Elevating Devices Code

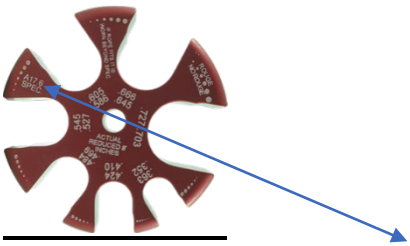

Figure 1 MUST have reference to A17.6 spec

Path Forward:

- Effective December 1, 2016 Safety Codes Officers will use the new wire rope gauges to determine the proper rejection criteria as set out the ASME A17.6 2010.

- The Safety Codes Officers will use the same method, as was previously used in the AR 62/2009 when determining the overall condition of the rope except: using the new rope gauge and the requirements of ASME A17.6-2010 as follows;

  - **INSTRUCTIONS:** (Determine loss of diameter)

    1) By fitting the gauge to the rope at two points spaced at least 1 metre apart; at each point the gauge shall be fitted twice at right angles to each other.

    2) By sliding the gauge the length of one rope lay. Loss of rope diameter is indicated when the gauge moves freely **at all four measurements.**

Implementation:
Effective Immediately

Original signed by

Dean McKernon, VP of Operations, AEDARSA

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