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TECHNICAL BULLETIN 200227 CONVEYOR BELT BRUSH ROTATION DIRECTION

To: All Operators of Magic Carpet Lifts
Subj: Belt Brush Rotation Direction

The following language is in 7.1.2.7 in the B-77-2017 standard. This subject is related to Machinery Systems.

“Any driven rotating brush designed to clean the conveyor belt surface shall run opposite the direction of the belt travel. When the brush is not driven, it shall be prevented from rotating.”

Normally, changes in the B-77 code made after delivery of a conveyor system would allow older units to be grandfathered in, not subject to the regulations of the new code.

Prior to 2004, we offered a 3-1/2” diameter brush on a solid axle. This brush arrangement has been involved in several injuries when mechanics have worked on the equipment without observing proper lock out/tag out procedures.

In 2004, we changed over to a 10” brush design with the bristle strips, which are sacrificial, arranged in a 3-lobe pattern. The brush would stop in a neutral position with brush motor power dis-engaged, even with the belt running.

ACTION: We cannot ensure mechanics will follow Lock Out/Tag Out procedures. Magic Carpet Lifts, Inc. requires all customers using the 3-1/2” brush to remove that brush from service. If a brush is required, Magic Carpet will offer the three-lobe brush in its place. Note, this three-lobe brush hangs 7” below the existing brush bottom edge.

Lock Out/Tag Out procedures are a must when entering the locked area under the Magic Carpet Lift. Please note, this change does not immunize personnel from injury if the pit areas under the lift are entered.