



<b>Elevating and Amusement Devices Safety Program</b>	Ref. No.: 279-19
<b>ADVISORY</b>	Date: May 15, 2019

**Subject:** Construction Hoist & Transport Platform Brake Testing Frequency  
**Distribution:** Posted on TSSA website and sent to Construction Hoist Working Group

1. **Background**

The current TSSA practice for testing construction hoist brakes are at the initial inspection, on every mast extension, when the mast is fully extended, and at every six-month intervals when the hoist is in service (during the TSSA periodic inspection). The test is completed with 125% load at rated speed in down direction.

This amount of testing was imposed to address brake failures that were observed several years ago.

TSSA has reviewed the number of directions written against brakes over the last few years, and surveyed inspectors and the hoist industry on any known failures. As a result, TSSA has concluded that the 125% brake tests on every extension is unwarranted and adds unnecessary expense, and burden to the industry.

This advisory is to inform industry and inspectors of changes to the practice of testing brakes and introduces a new test requirement to be performed and recorded by contractors.

2. **Advisory**

- 2.1 TSSA will implement this new brake testing practice effective June 1, 2019.
- 2.2 Construction hoist & transport platform brake tests are to be performed at 125% load at rated speed in the down direction, by operation of the emergency stop switch. It is prohibited to permit personnel in the hoist during the completion of these brake tests.
- 2.3 The testing of construction hoist & transport platform brakes with 125% load will be witnessed by TSSA inspectors; during the initial inspection, when the mast is fully extended, and at every six-month interval while the hoist is in service (during the TSSA periodic inspection). \*periodic frequency is typically every 6 months
- 2.4 The 125% brake tests are also to be completed every three months by the contractor as part of their maintenance, and the results of the test recorded in the maintenance log book. If the manufacturer suggests more frequent checks then the testing frequency shall be increased accordingly.
- 2.5 A manufacturer specific brake adjustment procedure should be available, if requested by the inspector. Any required manufacturer brake maintenance tests such as brake pad clearances, brake torques, no load stops, etc. shall be performed at manufacturer suggested frequency and recorded in the maintenance log book.
- 2.6 For existing devices, where initial inspections are done before June 1, 2019, the brake tests can be performed at less than rated speed if controllers are not updated yet.

<b>Hoist Brake Tests: Performed with 125% LOAD at Rated Speed in the Down Direction</b>					
	<b>On Initial</b>	<b>After every Extension</b>	<b>Every 3 Months</b>	<b>Every 6 Months / At every Periodic*</b>	<b>On Full Extension</b>
<b>Current</b>	By contractor TSSA witnessed	By contractor TSSA witnessed	-	By contractor TSSA witnessed	By contractor TSSA witnessed
<b>After Jun1/19</b>	By contractor TSSA witnessed	-	By contractor Pass recorded in LOG BOOK	By contractor TSSA witnessed	By contractor TSSA witnessed