

April 11, 2012

Mr. Blake McCauley and Mr. Charles Bedell
Blanch Associates
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Dear Mr. Blake McCauley and Mr. Charles Bedell:

The purpose for this testing was to determine the structural integrity and injury effects of portable seat belt in both frontal and rear impact crash simulations. These simulations were conducted following the guidelines of FMVSS 208 for injury and APTA SS-CS-016-99, which defined the acceleration pulse used. The seats utilized for the testing were used motor coach seats, which had steel reinforcements added to ensure there would be no structural failures on the seat during the testing. For the frontal impacts a test was conducted using two unbelted Anthropomorphic Test Dummies (ATD's) in the test seat (baseline), and another test was conducted with two ATD's belted using the portable seat belts and injury values for the two tests were compared. The same methodology was applied to the rear impacts, however in this case one test was run with one occupant belted and the other unbelted. All three portable seat belts were able to withstand the loading from both the frontal and rear impacts with no visible damage to the belt system observed. The tested belts also remained in their original positions.

Sincerely,



Kevin Oliverio
Test Engineer, MGA Research Corporation

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