CHILD RESTRAINT
SLED TEST
R44 European Testing

Report Number: 2114-14-03
Report Date: December 17, 2014

Contract Number: 2114
Test Dates: November 11 & December 17, 2014

Test Conducted By:

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Transportation Test Operations
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Prepared For:

Headup
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DISCLAIMER

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Prepared by: _____ Date: December 17, 2014

Adam Hardbattle, SLED Engineer

Approved by: _____ Date: December 17, 2014

William Horn, SLED Director

SECTION 1
TEST PURPOSE

This report represents the results of a sled test program performed at Calspan's Transportation Test Operations for Headup during November 11, 2014 and December 17, 2014. All tests were performed on the Transportation Research Group's tandem configuration Hydraulically Controlled, Gas Energized (HYGE) Accel Sled. The objective of these tests was to obtain data in accordance with the standards set forth in the United Nations ECE Regulation No. 44. Addendum 43: Revision 3. *Uniform provisions concerning the approval of restraining devices for child occupants of power-driven vehicles ("Child restraint System").*

SECTION 2
TEST SUMMARY

Tests were conducted on 6 seats (Evenflow Sureride, Britax Parkway). The following ATDs and Anchor systems were used during this test project. Please refer to the test summary page for additional test details.

ATD			
TYPE	WEIGHTED	SERIAL #	RUN #
☒ P Series 3YO	☐	03, 01C	01A, 01B, 08A, 10A
☒ P Series 6YO	☐	06	08B, 09B
☐ HIII – 3YO	☐		
☐ HIII – 6YO	☐		
☐ HIII – 10YO	☐		
☐ TNO – 9MO	☐		
☐ CRABI – 12MO	☐		
☐ Newborn	☐		
☐ HIII 5th Female	☐		
☐ Other	☐		

Injury numbers pass the ECE-R44 dynamic test requirements. Direct comparison tests indicate that the device had no effect on these injury numbers. No additional data other than that required for ECE-R44 dynamic was taken for booster seat testing. The internal harness restraint P3 ATD had an additional 3 axis accelerometer array installed to record head accelerations.

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R44 *FRONTAL IMPACT SLED TEST*

Sled Test # Date	*Child Restraint*	*Harness Position*	*Crotch Position*	*Recline Position*	*ATD Direction*	*Restraint System*	*Tether (Y/N)*	*ATD*	*Chest Clip 3ms (g's)*	*Chest Z Clip 3ms (g's)*	*Clay Deformation*	*Test G's (g's)*	*Velocity (kph)*
12-14-08A 17 Dec 2014	Evenflow Sureride	4	R	1	FF	Lap/Shoulder	Y	P3 SN03	43.3	16	No	24.4	50.4
12-14-08B 17 Dec 2014	Britax Parkway	-	-	-	FF	Lap/Shoulder	N	P6 SN06	43.5	22.2	No	24.4	50.4
12-14-09A 17 Dec 2014	Evenflow Sureride	4	R	1	FF	Lap/Shoulder	Y	P3 SN03	49	25.7	No	24.3	50.3
12-14-09B 17 Dec 2014	Britax Parkway	-	-	-	FF	Lap/Shoulder	N	P6 SN06	40.6	20.8	No	24.3	50.3
12-14-10A 17 Dec 2014	Evenflow Sureride	4	R	1	FF	Lap/Shoulder	Y	P3 SN03	46.2	24.4	No	24.3	50.1

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July 28, 2016

To whom it May Concern.,

The NapUp product has been tested at the Calpsan test laboratory on multiple occasions between 2014 thru 2016. During those testing days the NapUp device was tested to the following standards:

FMVSS 213
CMVSS 213
ECE R44
NPRM/ U.S. Side Impact 49 CFR Part 571

In all the modes of testing, the product performed within the test standards requirements for the respective Child restraint system standard.

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