REPORT NUMBER: 213-NAWC-07-009

CHILD RESTRAINT SYSTEM TESTS – FMVSS NO. 213

Evenflo Company Inc.
396 Embrace DLX

Naval Air Warfare Center
Aircraft Division (4.6.7.2)
48110 Shaw Rd, Building 2187, Unit 5
Patuxent River, MD 20670-1906

August 6, 2007

FINAL REPORT

PREPARED FOR:

U.S. Department of Transportation
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, DC 20590

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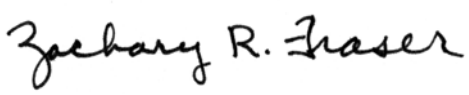

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16. *Abstract*

This report contains the results of tests performed in accordance with FMVSS 213, Child Restraint Systems, on the Evenflo Company Inc., 396 Embrace DLX Child Restraint. The child restraint appears to comply with all the requirements of FMVSS 213.

Final determination of compliance is made by the National Highway Traffic Safety Administration.

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SECTION I

PURPOSE AND TEST PROCEDURE

Purpose: The purpose of the test was to determine if the production child restraint systems supplied by the National Highway Traffic Safety Administration met the requirements of Federal Motor Vehicle Safety Standard (FMVSS) No. 213, Child Restraint Systems.

Test Procedure: The “Naval Air Warfare Center Aircraft Division's Test Procedure for FMVSS 213” submitted to and approved by the Office of Vehicle Safety Compliance, National Highway Traffic Safety Administration, contains the specific procedures used to conduct this test. This procedure shall not be interpreted to be in conflict with any portion of FMVSS No. 213 and amendments in effect as noted in the applicable contract.

SECTION II

INTRODUCTION AND SUMMARY

This report presents all of the FMVSS 213 compliance inspection and test data obtained on the Evenflo Company Inc., 396 Embrace DLX, Child Restraint System. The restraint was dynamically tested in the rearward-facing configuration, with an infant size dummy and a CRABBI 12 month old size dummy. Inversion testing was performed in the forward Y-axis rotation and in the lateral X-axis rotation for each restraint configuration. The results from all inspections and tests indicate that the Evenflo Company Inc., 396 Embrace DLX, Child Restraint complied with all of the requirements of FMVSS 213.

Restraint system inspection and full-scale dynamic testing were performed by the Naval Air Warfare Center, Aircraft Division, Patuxent River, MD. Compliance test data sheets for all tests are found in Section III and IV of this report.

SECTION III

INSPECTION AND TEST DATA

Data Sheet 1

FMVSS 213 –CHILD RESTRAINT SYSTEMS

Report No. 213-NAWC-07-009

Child Restraint System Identification

Manufacturer: Evenflo Company Inc.

Name: Evenflo Company Inc.
Address: 1801 Commerce Drive
Piqua, OH 45356-9960

Model No. 396 Group No. I		
1. Item Code: 009-EVE396-01-RNI Date of Manufacture: October 13, 2006 Sled Test No.: 07354		2. Item Code: 009-EVE396-02-R12MBL Date of Manufacture: October 13, 2006 Sled Test No.: 07359

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 2

LABELING
(FMVSS 213, S5.3, S5.5)

Report No. 213-NAWC-07-009		Date of Test: February 12, 2007
Item Code: 009-EVE396-01-RNI		Item Code: 009-EVE396-02-R12MBL

	Pass / Fail
S5.3.1(b) Harnesses manufactured for use on school bus seats must meet S5.3.1(a) of this standard, unless a label that conforms in content to Figure 12 and to the requirements of S5.3.1(b)(1) through S5.3.2(b)(3) of this standard is permanently affixed to the part of the harness that attaches the system to a vehicle seat back.	N/A
S5.3.1(b)(1) The label must be plainly visible when installed and easily readable.	N/A
S5.3.1(b)(2) The message area must be white with black text. The message area must be no less than 20 square centimeters.	N/A
S5.3.1(b)(3) The pictogram shall be gray and black with a red circle and slash on a white background. The pictogram shall be no less than 20 mm in diameter.	N/A

Remarks:

COMPLIANCE TEST DATA: FMVSS 213	
Labeling (Cont'd)	Pass/ Fail
S5.5 Any labels or written instructions provided in addition to those required by this section shall not obscure or confuse the meaning of the required information or be otherwise misleading to the consumer. Any labels or written instructions other than in the English language shall be an accurate translation of English labels or written instructions.	Pass
S5.5.1 Each add-on child restraint system shall be permanently labeled with the information specified is S5.5.2 (a) through (m)	Pass
S5.5.2 The information specified in paragraphs (a) through (m) of this section shall be stated in the English language and lettered in letters and numbers that are not smaller than 10-point type unless otherwise specified, the information shall be labeled on a white background with black text. Unless written in all capitals, the information shall be stated in sentence capitalization.	Pass
The following information is included: (a) Model name or number of the system.	Pass
(b) The manufacturer's name. A distributor's name may be used instead if the distributor assumes responsibility for all duties and liabilities imposed on the manufacturer with respect to the system by the National Traffic and Motor Vehicle Safety Act, as amended.	Pass
(c) The statement: "Manufactured in October 2006," inserting the month and year of manufacture.	Pass
(d) The place of manufacture (city and State, or foreign country). However, if the manufacturer uses the name of the distributor, then it shall state the location (city and State, or foreign country) of the principal offices of the distributor.	Pass
(e) The statement: “This child restraint system conforms to all applicable Federal Motor Vehicle Safety Standards”	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213	
Labeling (cont'd)	Pass / Fail
(f) One of the following statements as appropriate, inserting the manufacturer's recommendation for the maximum mass of children who can safely occupy the system, except that booster seats shall not be recommended for children whose masses are less than 13. kg. For seats that can only be used as belt-positioning seats, manufacturers must include the maximum and minimum recommended height, but may delete the reference to weight: (1) Use only with children who weigh ___ pounds (___kg) or less and whose height is ___Inches (___cm) or less; or (2) Use only with children who weigh between ___ and ___ pounds (mass between ___ and ___kg) and whose height is ___ Inches (___cm) or less and who are capable of sitting upright alone; or (3) Use only with children who weigh between _5_ and _22_ pounds (mass between _2.3_ and _10_kg) and whose height is _29 Inches (74_cm) or less. (4) Use only with children who weigh between ___ and ___pounds (mass between ___ and ___kg) and whose height is between ___ and ___Inches (___ and ___cm).	Pass
(g) The statements specified in paragraphs (1) and (2): (1) A heading as specified in S5.5.2(k)(3)(i), with the statement "WARNING! DEATH or SERIOUS INJURY can occur", capitalized as written and followed by bulleted statements in the following order: (i) As appropriate, the statements required by the following sections will be bulleted and placed after the statement required by 5.5.2(g)(1) in the following order: 5.5.2 (k)(1) or 5.5.2(k)(2), 5.5.2(f), 5.5.2(h), 5.5.2(j) and 5.5.2(i).	Pass
(ii) Secure this child restraint with the vehicle's child restraint anchorage system if available or with a vehicle belt. [For car beds, harnesses, and belt positioning boosters, the first part of the statement regarding attachment by the child restraint anchorage system is optional.]	Pass
(iii) Follow all instructions on this child restraint in the written instructions located on the bottom of seat.	Pass(1)

Remarks: (1) A variation of the required statement was included as follows; "Follow all instructions on this child restraint and in the accompanying written instruction manual."

COMPLIANCE TEST DATA: FMVSS 213	
Labeling (Cont'd)	Pass/ Fail
(iv) Register your child restraint with the manufacturer (2) At the manufacturer's option, the phrase "DEATH or SERIOUS INJURY can occur" in the heading can be on either a white or yellow background.	Pass
(3) More than one label may be used for the required bulleted statement. Multiple labels shall be placed one above the other unless that arrangement is precluded by insufficient space or shape of the child restraint. In that case, multiple labels shall be placed side by side. When using multiple labels, the October 13, 2006d warnings must be in the correct order when read from top to bottom. If the labels are side-by-side, then the October 13, 2006d warnings must appear top to bottom of the leftmost label, then top to bottom of the next label to its right, and so on. There shall be no intervening labels and the required heading shall only appear on the first label in the sequence.	Pass
(h) In the case of each child restraint system that has belts designed to restrain children using them, and which do not adjust automatically to fit the child; the statement: SNUGLY ADJUST THE BELTS PROVIDED WITH THIS CHILD RESTRAINT AROUND YOUR CHILD.	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213	
Labeling (cont'd)	Pass / Fail
(i)(1) For a booster seat that is recommended for use with **either** a vehicle's Type I **or** Type II seat belt assembly, one of the following statements, as appropriate: (i) USE ONLY THE VEHICLE'S LAP AND SHOULDER BELT SYSTEM WHEN RESTRAINING THE CHILD IN THIS BOOSTER SEAT; or	N/A
(ii) USE ONLY THE VEHICLE'S LAP BELT SYSTEM, OR THE LAP BELT PART OF A LAP/SHOULDER BELT SYSTEM WITH THE SHOULDER BELT PLACED BEHIND THE CHILD, WHEN RESTRAINING THE CHILD IN THIS SEAT.	N/A
(2) Except as provided in paragraph (i)(2)(ii) of this sections, for a booster seat which is recommended for use with **both** a vehicle's Type I **and** Type II seat belt assemblies, the following statement: (i) USE ONLY THE VEHICLE'S LAP BELT SYSTEM OR THE LAP BELT PART OF A LAP/SHOULDER BELT SYSTEM WITH THE SHOULDER BELT PLACED BEHIND THE CHILD, WHEN RESTRAINING THE CHILD WITH THE (insert description of the system element provided to restrain forward movement of the child's torso when used with a lap belt (e.g. shield) ,) AND ONLY THE VEHICLE'S LAP AND SHOULDER BELT SYSTEM WHEN USING THIS BOOSTER WITHOUT THE (insert above description).	N/A
(ii) A booster seat which is recommended for use with both a vehicle's Type I and Type II seat belt assemblies is not subject to S5.5.2(i)(2)(i) if, when the booster is used with the shield or similar component, the booster will cause the shoulder belt to be located in a position other than in front of the child when the booster is installed. However, such a booster shall be <u>labeled with a warning to use the booster with the vehicle's lap and shoulder belt system when using the booster without a shield.</u>	N/A
(j) In the case of each child restraint system equipped with a top anchorage strap, the statement: SECURE THE TOP ANCHORAGE STRAP PROVIDED WITH THIS CHILD RESTRAINT.	N/A

<u>Remarks:</u>

COMPLIANCE TEST DATA: FMVSS 213	
Labeling (cont'd)	Pass / Fail
(k)(1) In the case of each rear-facing child restraint system that is designed for infants only, the following statement: (i) "USE ONLY IN A REAR-FACING POSITION WHEN USING IT IN THE VEHICLE."	Pass(1)
(2) In the case of a child restraint system that is designed to be used rearward-facing for infants and forward-facing for older children, the statement: (i) "USE ONLY IN A REAR-FACING POSITION WHEN USING IT WITH AN INFANT WEIGHING LESS THAN (insert recommended weight that is not less than 20 pounds)."	N/A
(3) Except as provided in (k)(4) of this section, each child restraint system that can be used in a rear-facing position shall have a label that conforms in content to Figure 10 and to the requirements of S5.5.2(k)(3)(i) through S5.5.2(k)(3)(iii) of this standard permanently affixed to the outer surface of the cushion or padding in or adjacent to the area where a child's head would rest, so that the label is plainly visible and easily readable. The test included in figure 10 reads: "WARNING. DO NOT place rear-facing child seat on front seat with air bag. DEATH OR SERIOUS INJURY can occur. The back seat is the safest place for children 12 and under". (i) The heading area shall be yellow with the word "warning" and the alert symbol in black. (ii) The message area shall be white with black test. The message area shall be no less than 30 square cm. (iii) The pictogram shall be black with a red circle and slash on a white background. The pictogram shall be no less than 30 mm in diameter.	Pass
(4) If a child restraint system is equipped with a device that deactivates the passenger-side air bag in a vehicle when and only when the child restraint is installed in the vehicle and provides a signal, for at least 60 seconds after deactivation, that the air bag is deactivated, the label specified in Figure 10 may include the phrase "unless air bag is off" after "on front seat with air bag".	N/A

Remarks: (1) A variation of the required statement was included as follows; "Place this infant restraint in a rear-facing position when using it in a vehicle."

COMPLIANCE TEST DATA: FMVSS 213	
Labeling (cont'd)	Pass / Fail
(l) An installation diagram showing the child restraint system installed in: (1) A seating position equipped with a continuous-loop lap/shoulder belt;	Pass
(2) A seating position equipped with only a lap belt, as specified in the manufacturer's instructions; and	Pass
(3) A seating position equipped with a child restraint anchorage system.	Pass
(m) The following statement, inserting an address and telephone number: "Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address and the restraint's model number and manufacturing date to (insert address) or call (insert telephone number). For recall information, call the U.S. Government's Auto Safety Hotline at 1-800-424-9393 (202-366-0123 in D.C. Area)." Effective November 8, 2005 (m) One of the following statements, inserting an address and a U.S. telephone number. If a manufacturer opts to provide a web site on the registration card as permitted in Figure 9a of this section (FMVSS 213), the manufacturer must include the statement in part (ii): (i) "Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address, e-mail address if available [preceding four words is optional] and the restraint's model number and manufacturing date to (insert a U.S. telephone number). For recall information, call the U.S. Government's Auto Safety Hotline at 1-800-424-9393. (ii) "Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address, e-mail address if available [preceding four words is optional] and the restraint's model number and manufacturing date to (insert address) or call (insert a U.S. telephone number) or register online (insert web site for electronic registration form). For recall information, call the U.S. Government's Auto Safety Hotline at 1-800-424-9393	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213	
Labeling (cont'd)	Pass/ Fail
(n) Child restraint systems, other than belt-positioning seats, harnesses, and backless child restraint systems, may be certified as complying with the provisions of section S8. Child restraints that are so certified shall be labeled with the statement: "This restraint is Certified for Use in Motor Vehicles and Aircraft"	Pass
Belt-positioning seats, harnesses, and backless child restraint systems shall be labeled with the statement: "This restraint is Not Certified for Use in Aircraft."	N/A
The statement required by this paragraph shall be in red lettering, and shall be placed after the certification statement required by S5.5.(e).	Pass
S5.5.3 The information specified in FMVSS 213, S5.5.2(f) through (l), shall be located on the add-on child restraint system so that it is visible when the system is installed as specified in S5.6.1., except that for child restraints with a detachable base, the installation diagrams specified in S5.5.2(l) are required to be visible only when the base alone is installed.	Pass

Remarks: Labels may be seen in photographs presented in Appendix C.

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 10

INSTALLATION INSTRUCTIONS
(FMVSS 213, S5.6)

Report No. 213-NAWC-07-009		Date of Test: February 12, 2007
Item Code: 009-EVE396-01-RNI		Item Code: 009-EVE396-02-R12MBL

		Pass / Fail
S5.6	Any labels or written instructions provided in addition to those required by this section shall not obscure or confuse the meaning of the required information or be otherwise misleading to the consumer. Any labels or written instructions other than in the English language shall be an accurate translation of English labels or written instructions. Unless written in all capitals, the information required by S5.6.1 through S5.6.3 shall be stated in sentence capitalization.	Pass
S5.6.1	Each add-on child restraint system shall be accompanied by printed installation instructions in the English language that provide a step-by-step procedure, including diagrams, for installing the system in motor vehicles, securing the system in the vehicles, positioning a child in the system, and adjusting the system to fit the child. For each child restraint system that has components for attaching to a tether anchorage or a child restraint anchorage system, the installation instructions shall include a step-by-step procedure, including diagrams, for properly attaching to that anchorage or system.	Pass
S5.6.1.1	In the vehicle with rear-designated seating positions, the instructions shall alert vehicle owners that, according to accident statistics, children are safer when properly restrained in the rear seating positions rather than in the front seating positions.	Pass
S5.6.1.2	The instructions specify in general terms the types of vehicles, the types of seating positions, and the types of vehicle safety belts with which the add-on child restraint system can or cannot be used.	Pass
S5.6.1.3	The instructions shall explain the primary consequences of not following the warnings required to be labeled on the child restraint system in accordance with S5.5.2(g) through (k).	Pass
S5.6.1.4	The instructions for each car bed shall explain that the car bed should be positioned in such a way that the child's head is near the center of the vehicle.	N/A

Remarks:

COMPLIANCE TEST DATA: FMVSS 213	
Installation Instructions (cont'd)	Pass / Fail
S5.6.1.5 The instructions shall state that add-on child restraint systems should be securely belted to the vehicle, even when they are not occupied, since in a crash an unsecured child restraint system may injure other occupants.	Pass
S5.6.1.6 Each add-on child restraint system shall have a location on the restraint for storing the manufacturer's instructions	Pass
S5.6.1.7 The instructions shall include the following statement, inserting an address and telephone number: "Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address and the restraint's model number and manufacturing date to (insert address) or call (insert telephone number). For recall information, call the U.S. Government's Auto Safety Hotline at 1-800-424-9393 (202-366-0123 in D.C. Area)." Effective November 8, 2005 S5.6.1.7 One of the following statements, inserting an address and a U.S. telephone number. If a manufacturer opts to provide a web site on the registration card as permitted in Figure 9a of this section (FMVSS 213), the manufacturer must include the statement in part (ii): (i) "Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address, e-mail address if available [preceding four words is optional] and the restraint's model number and manufacturing date to (insert address) or call (insert a U.S. telephone number). For recall information, call the U.S. Government's Auto Safety Hotline at 1-800-424-9393. (ii) "Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address, e-mail address if available [preceding four words is optional] and the restraint's model number and manufacturing date to (insert address) or call (insert a U.S. telephone number) or register online (insert web site for electronic registration form). For recall information, call the U.S. Government's Auto Safety Hotline at 1-800-424-9393.	Pass
S5.6.1.8 In the case of each child restraint system that can be used in a position so that it is facing the rear of the vehicle, the instructions shall provide a warning against using rear-facing restraints at seating positions equipped with airbags, and shall explain the reasons for, and the consequences of not following the warning. The instructions shall also include a statement that the owners of vehicles with front passenger side airbags should refer to their owner's manual for child restraint installation instructions.	Pass
S5.6.1.9 In the case of each rear-facing child restraint system that has a means for repositioning the seating surface of the system that allows the system's occupant to move from a reclined to an upright position during testing, the instructions shall include a warning against impeding the ability of the restraint position.	N/A

Remarks:

COMPLIANCE TEST DATA: FMVSS 213	
Installation Instructions (cont'd)	Pass / Fail
S5.6.1.10 (a) For instructions for a booster seat which is recommended for use with **either** a vehicle's Type I **or** Type II seat belt assembly, one of the following statements, as appropriate, and the reasons for the statement: (1) WARNING! USE ONLY THE VEHICLE'S LAP BELT AND SHOULDER BELT SYSTEM WHEN RESTRAINING THE CHILD IN THIS BOOSTER SEAT; or	N/A
(2) WARNING! USE ONLY THE VEHICLE'S LAP BELT SYSTEM, OR THE LAP BELT PART OF A LAP/SHOULDER BELT SYSTEM WITH THE SHOULDER BELT PLACED BEHIND THE CHILD, WHEN RESTRAINING THE CHILD IN THIS SEAT.	N/A
(b)(1) Except as provided in S5.6.1.10(b)(2), the instructions for a booster seat which is recommended for used with **both** a vehicle's Type I **and** Type II seat belt assemblies shall include the following statement and the reasons therefore: WARNING! USE ONLY THE VEHICLE'S LAP BELT SYSTEM OR THE LAP BELT PART OF A LAP/SHOULDER BELT SYSTEM WITH THE SHOULDER BELT PLACED BEHIND THE CHILD, WHEN RESTRAINING THE CHILD WITH THE *(insert description of the system element provided to restrain forward movement of the child's torso when used with a lap belt (e.g. shield) ,)* AND ONLY THE VEHICLE'S LAP AND SHOULDER BELT SYSTEM WHEN USING THIS BOOSTER WITHOUT THE *(insert above description).*	N/A
(2) A booster seat which is recommended for use with both a vehicle's Type I and Type II seat belt assemblies is not subject to S5.6.1.10(b)(1) if, when the booster is used with the shield or similar component, the booster will cause the shoulder belt to be located in a position other than in front of the child when the booster is installed. However, the instructions for such a booster shall include a warning to use with the vehicle's lap and shoulder belt system when using the booster without a shield.	N/A

Remarks:

COMPLIANCE TEST DATA: FMVSS 213	
Installation Instructions (cont'd)	Pass/ Fail
(c) The instructions for belt-positioning seats shall include the statement: "This restraint is not certified for aircraft use," and the reason for this statement.	N/A
S5.6.1.11 For harnesses that are manufactured for use on school bus seats, the instructions must include the following statements, "WARNING! This restraint must only be used on school bus seats. Entire seat directly behind must be unoccupied or have restrained occupants." The labeling requirement refers to a restrained occupant as: an occupant restrained by any user appropriate vehicle restraint or child restraint system (e.g. lap belt, lap and shoulder belt, booster, child seat, harness…).	N/A
S5.6.3 In the case of each child restraint system that has belts designed to restrain children using them and which do not adjust automatically to fit the child, the printed instructions shall include the following statement: A snug strap should not allow any slack. It lies in a relatively straight line without sagging. It does not press on the child's flesh or push the child's body into an unnatural position.	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 14

REGISTRATION FORM
(FMVSS 213, S5.8)

Report No. 213-NAWC-07-009		Date of Test: February 12, 2007
Item Code: 009-EVE396-01-RNI		Item Code: 009-EVE396-02-R12MBL

		Pass / Fail
S5.8	Information requirements –attached registration form and electronic registration form.	
(a)	Each child restraint system, except for factory-installed built-in restraint systems, shall have a registration form attached to any surface of the restraint that contacts the dummy when the dummy is positioned in the system in accordance with S6.1.2 of Standard 213	Pass
(b)	Each attached form shall:	Pass
	(1) Consist of a postcard that is attached at a perforation to an informational card;	
	(2) Conform in size, content and format to Figures 9a and 9b of this section; and	Pass
	(3) Have a thickness of at least 0.178 mm (0.007 inches) and not more than 0.241 mm (0.0095 inches).	Pass
(c)	Each postcard shall provide the model name or number and date of manufacture (month, year) of the child restraint system to which the form is attached, shall contain space for the purchaser to record his or her name and mailing address, shall be addressed to the manufacturer, and shall be postage paid. No other information shall appear on the postcard, except identifying information that distinguishes a particular child restraint system from other systems of that model name or number may be preprinted in the shaded area of the postcard, as shown in Figure 9a of Standard 213.	Pass
(d)	Manufacturers may voluntarily provide a web address on the informational card enabling owners to register child restraints online, provided that the Web address is a direct link to the electronic registration form meeting the requirements of S5.8.2 of this section.	Pass

COMPLIANCE TEST DATA: FMVSS 213	
Registration Form (cont'd)	Pass/Fail
S5.8.2 Electronic Registration Form (a) Each electronic registration form must meet the requirements of S5.8.2. Each form shall: (1) Contain the following statements at the top of the form: (i) "FOR YOUR CHILD'S CONTINUED SAFETY" (Displayed in bold type face, caps, and minimum 12 point type.)	Pass
(ii) "Although child restraint systems undergo testing and evaluation, it is possible that a child restraint could be recalled." (Displayed in bold type face, caps and lower case, and minimum 12 point type.)	Pass
(iii) In case of a recall, we can reach you only if we have your name and address, so please fill in the registration form to be on our recall list." (Displayed in bold type face, caps and lower case, and minimum 12 point type.)	Pass
(iv) "In order to properly register your child restraint system, you will need to provide the model number, serial number and date of manufacture. This information is printed on the registration card and can also be found on a white label located on the back of the child restraint system. (Displayed in bold type face, caps and lower case, and minimum 12 point type.)	Pass
(v) "This registration is only applicable to child restraint systems purchased in the United states." (Displayed in bold type face, caps and lower case, and minimum 12 point type.)	Pass
(2) Provide as required registration fields, space for the purchaser to record the model name or number and date of manufacture (month, year) of the child restraint system, and space for the purchaser to record his or her name and mailing address. At the manufacturer's option, a space is provided for the purchaser to record his or her e-mail address.	Pass
(3) No other information shall appear on the electronic registration form, except for information identifying the manufacturer or a link to the manufacturer's home page, a field to confirm submission, and a prompt to indicate any incomplete or invalid fields prior to submission. Accessing the web page that contains the electronic registration shall not cause additional screens or electronic banners to appear.	Pass
(4) The electronic registration form shall be accessed directly by the web address that the manufacturer printed on the attached registration form. The form must appear on the screen when the consumer has inputted the web address provided by the manufacturer, without any further keystrokes on the keyboard or clicks of the mouse.	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 16

INSTALLATION
(FMVSS 213, S5.3)

Report No. 213-NAWC-07-009		Date of Test: February 12, 2007
Item Code: 009-EVE396-01-RNI		Item Code: 009-EVE396-02-R12MBL

	Pass / Fail
S5.3.1 No attachment to vehicle seat cushion or seat back, nor insert between them	Pass
S5.3.2 Secured by means of (check all that apply) Lap Belt Only ___X___ Lap Belt and Tether _____ Latch ___X___ OR Lap / Shoulder Belt Combination ___X___	Pass
S5.3.3 Lateral installation for car beds	N/A

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 17

MINIMUM HEAD SUPPORT SURFACE
(FMVSS 213, S5.2.1)

Report No. 213-NAWC-07-009		Date of Test: February 12, 2007
Item Code: 009-EVE396-01-RNI		Item Code: 009-EVE396-02-R12MBL

S5.2.1.2 The child restraint system is low enough to be exempt from this requirement	No (YES OR NO)

S5.2.1.1

Back Support Height

Maximum Child Weight kg (lbs.)	Required Minimum Height cm (in.)	Measured Height cm (in.)	Pass / Fail
Less than 9 kg (20 lbs.)	45.7 cm (18.0 in.)	48.8 cm (19.2 in.)	Pass

Back Support Width

Required Minimum Width cm (in.)	Measured Width cm (in.)	Side Wing Depth cm (in.)	Pass / Fail
20.3 cm (8.0 in.)	35.3 cm (13.9 in.)	13.9 cm (5.5 in.)	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 18

TORSO IMPACT PROTECTION
(FMVSS 213, S5.2.2)

Report No. 213-NAWC-07-009	Date of Test: February 12, 2007
Item Code: 009-EVE396-01-RNI	Item Code: 009-EVE396-02-R12MBL

Test	Compliance Requirement	Test Result	Pass / Fail
Back Support Surface	Flat or Concave	Flat	Pass
	Area ≥ 548 sq. cm (85 sq. in.)	650.3 sq. cm (100.8 sq. in.)	Pass
Side Support Surface	Flat or Concave	Concave	Pass
Max. Weight ≥ 9 kg (20 lbs)	Area ≥ 155 sq. cm (24 sq. in.)	514.2 sq. cm (79.7 sq. in.)	Pass
Max. Weight < 9 kg (20 lbs.)	Area ≥ 310 sq. cm (48 sq. in.)	N/A	N/A
Forward Restraining Surface	Flat or Concave	N/A	N/A
Horizontal Cross Section	Flat or Concave	N/A	N/A
Vertical Longitudinal	Flat or Convex	N/A	N/A
Cross Section	Radius of Curvature ≥ 5 cm (2 in.)	N/A	N/A

S5.2.2.2 Forward Fixed or Movable Surface — No (YES OR NO) — N/A (PASS / DEFERRED)

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 19

PROTRUSION LIMITATION
(FMVSS 213, S5.2.4)

Report No. 213-NAWC-07-009	Date of Test: February 12, 2007
Item Code: 009-EVE396-01-RNI	Item Code: 009-EVE396-02-R12MBL

Test	Compliance Requirement	Test Result	Pass / Fail
Height	≤ 9.53 mm (3/8 in.)	< 9.53 mm (3/8 in.)	Pass
Edge Radius	≥ 6.35 mm (1/4 in.)	> 6.35 mm (1/4 in.)	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 20

DYNAMIC IMPACT TEST CONDITIONS
(FMVSS 213, S6.1)

Report No.	213-NAWC-07-009		Test No.	07354
Date of Test:	July 30, 2007		Item Code:	009-EVE396-01-RNI

Laboratory Ambient Conditions During Testing

Temperature Range: 72 to 71 Degrees F

Relative Humidity Ranger 62 % to 63 %

Test Device		Configuration I
	Nominal velocity (km/h)	48 km/h (+0, -5)
	(mph)	30 mph (+0, -2)

Dummy Used: Infant	S/N: 096

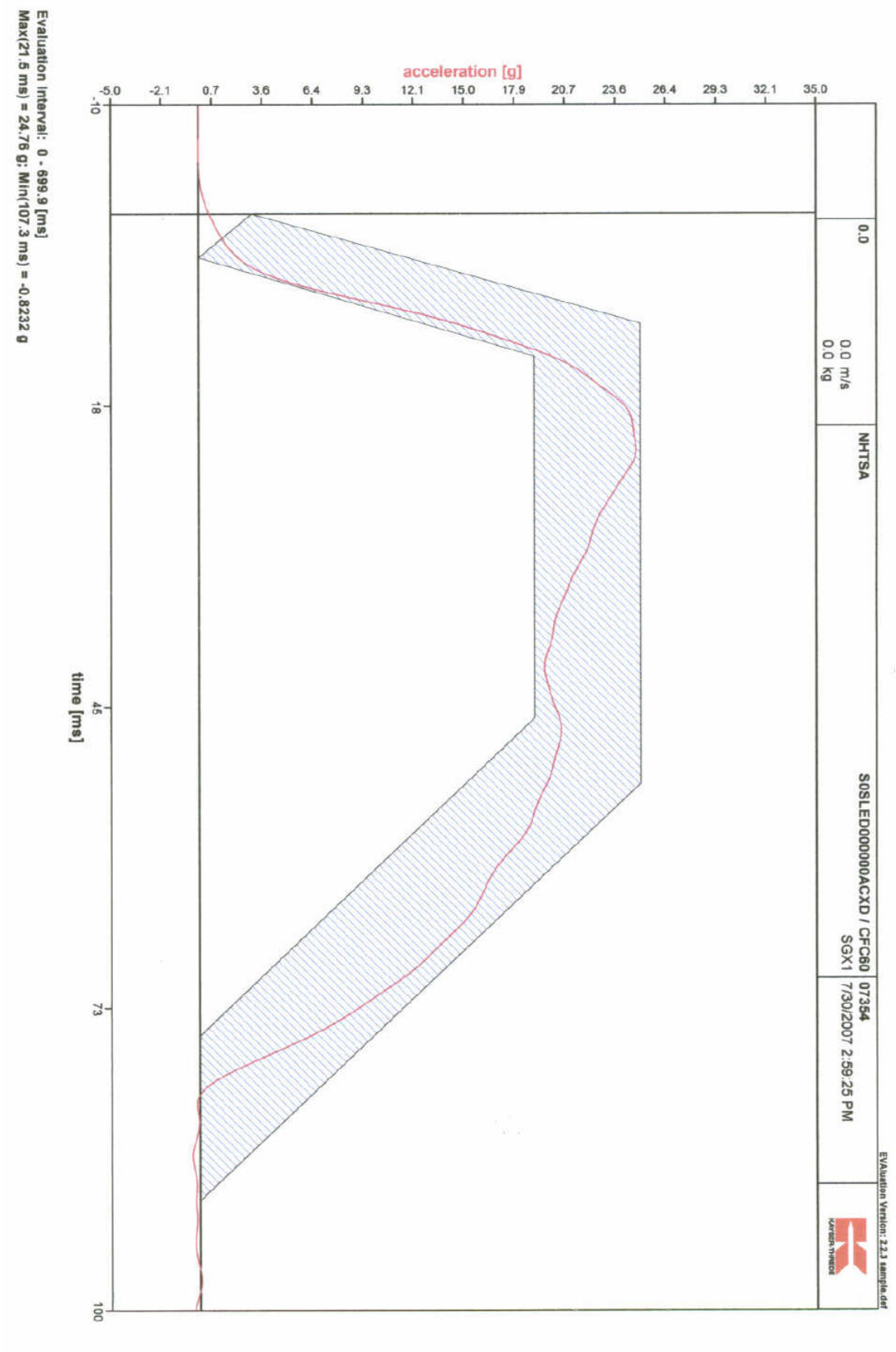
Child Restraint System: Installation Mode		Rear-facing
Adjustment Mode		Reclined
"Misuse" Mode		N/A

Test Results	12.9 m/s	(41.8 ft/sec)
Actual Velocity	45.6 km/h	(28.5 mph)

Integrated area of sled acceleration deviation
Below the lower severity boundary 0.0 m/s (0.0 ft/s)
Limits:
Configuration I: 0.13 m/s (0.44 ft/s)
Configuration II: 0.09 m/s (0.29 ft/s)

Include pre- and post-test photographs and acceleration-time history plot.

Remarks:
Pre- and Post-test photographs are presented in Appendix C.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-5.0 -2.1 0.7 3.6 6.4 9.3 12.1 15.0 17.9 20.7 23.6 26.4 29.3 32.1 35.0
-10
18
45
73
100
time [ms]
Evaluation Interval: 0 - 699.9 [ms]
Max(21.5 ms) = 24.76 g; Min(107.3 ms) = -0.8232 g
0.0
0.0 m/s
0.0 kg
NHTSA
S0SLED000000ACXD / CFC60
SGX1
07354
7/30/2007 2:59:25 PM
EVAluation Version: 2.2.3 sample.def

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 22

BELT RESTRAINT
(FMVSS 213, S5.4.3)

Report No.	213-NAWC-07-009		Test No.	07354
Date of Test:	July 30, 2007		Item Code:	009-EVE396-01-RNI

S5.4.3.1 Snug Fit of Belts

Extra Webbing

Dummy	Each Shoulder Belt (in.)	Each Lap Belt Side (in.)	Crotch Belt (in.)	Pass / Fail
096	Left: 12 in.	N/A	N/A	Pass

S5.4.3.2 Direct Restraint Belts	YES / NO	
(1) Belt / Dummy contact for restraint	No	Pass
(2) Rigid structure behind dummy	Yes	
(3) Belt / Child restraint slip possible	No	
Note: If all "yes", restraint fails	No	
S5.4.3.3 Seating System Belt and / or Shields	YES / NO	
(1) Upper Torso	Yes	Pass
(2) Lower Torso	No	
(3) Crotch restraint	Yes	
S5.4.3.4 Child Harness Belts	YES / NO	
(1) Upper Torso	N/A	N/A
(2) Lower Torso	N/A	
(3) Prevent Standing	N/A	

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 23

BUCKLE RELEASE
(FMVSS 213, S5.4.3.5, S6.2)

Report No.	213-NAWC-07-009		Test No.	07354
Date of Test:	July 30, 2007		Item Code:	009-EVE396-01-RNI

Test	Compliance Requirement	Test Result	Pass / Fail
Buckle Minimum Surface Area	Area $\geq$ 3.9 cm^2 (0.6 $in.^2$)	3.9 cm^2 (0.6 $in.^2$)	Pass
Pre – Impact Release Force	Force Range: 40 to 62 Newtons (9 to 14 lbs)	48.9 N (11.0 lbs.)	Pass
Buckle Integrity	Did not release during test	No release	Pass
Post – Impact Release Force	Force Range: $\leq$ 71 Newtons (16 lbs)	62.3 N (14.0 lbs.)	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 24

RESTRAINT SYSTEM INTEGRITY
(FMVSS 213, S5.1.1)

Report No.	213-NAWC-07-009		Test No.	07354
Date of Test:	July 30, 2007		Item Code:	009-EVE396-01-RNI

Test	Compliance Requirement	Test Result	Pass / Fail
Structural Integrity	No complete separation	No separation	Pass
	No partial separation With exposed edge radius > 9.53 mm (1/4 in.)	No separation	Pass
	No partial separation With protrusions > 6.35 mm (3/8 in.)	No separation	Pass
Adjustment Position	No change	No change	Pass
Back Surface / Seating Surface Angle	Not < 45 degrees	> 45 deg.	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 25

INJURY CRITERIA
(FMVSS 213, S5.1.2)

Report No.	213-NAWC-07-009		Test No.	07354
Date of Test:	July 30, 2007		Item Code:	009-EVE396-01-RNI

Test	Compliance Requirement	Test Result	Pass / Fail
Head Injury Criterion	$\leq$ 1000	N/A	N/A
Chest Injury Criterion	Cumulative duration over 60 $\leq$ 3 ms	Peak g = ___N/A___ Duration Exceeding 60 g = ___N/A____	N/A

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 26

OCCUPANT EXCURSION
(FMVSS 213, S5.1.3, S5.1.4, S5.2.1.1 (c))

Report No.	213-NAWC-07-009		Test No.	07354
Date of Test:	July 30, 2007		Item Code:	009-EVE396-01-RNI

Forward-Facing Restraints

Test	Compliance Requirement	Test Result	Pass / Fail
Torso Retention (FMVSS 213, S5.1.3.1)	Retain within system	N/A	N/A
Head Excursion (FMVSS 213, S5.1.3.1)	81.3 cm (32 in.)	N/A	N/A
Knee Target Excursion (FMVSS 213, S5.1.3.1)	$\leq$ 91.5 cm (36 in.)	N/A	N/A
Head – Torso Angle (FMVSS 213, S5.2.1.1 (c))	Rearward change $\leq$ 45 degrees	N/A	N/A

Rear-Facing Restraints

Test	Compliance Requirement	Test Result	Pass / Fail
Torso Retention (FMVSS 213, S5.1.3.1)	Retain within system	Retained	Pass
Head Target Excursion (FMVSS 213, S5.1.3.2)	Not beyond restraint's top and forward edge	None	Pass
Back Support Angle (FMVSS 213, S5.1.4)	$\leq$ 70 degrees	34.2 degrees	Pass(1)
Head – Torso Angle (FMVSS 213, S5.2.1.1 (c))	Rearward change $\leq$ 45 degrees	< 45 degrees	Pass

Remarks: (1) The child restraint was installed per the manufacturers instructions using the horizontal guide on the side of the restraint.

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 27

DYNAMIC IMPACT TEST CONDITIONS
(FMVSS 213, S6.1)

Report No.	213-NAWC-07-009		Test No.	07359
Date of Test:	July 31, 2007		Item Code:	009-EVE396-02-R12MBL

Laboratory Ambient Conditions During Testing

Temperature Range: 70 to 70 Degrees F

Relative Humidity Ranger 63 % to 63 %

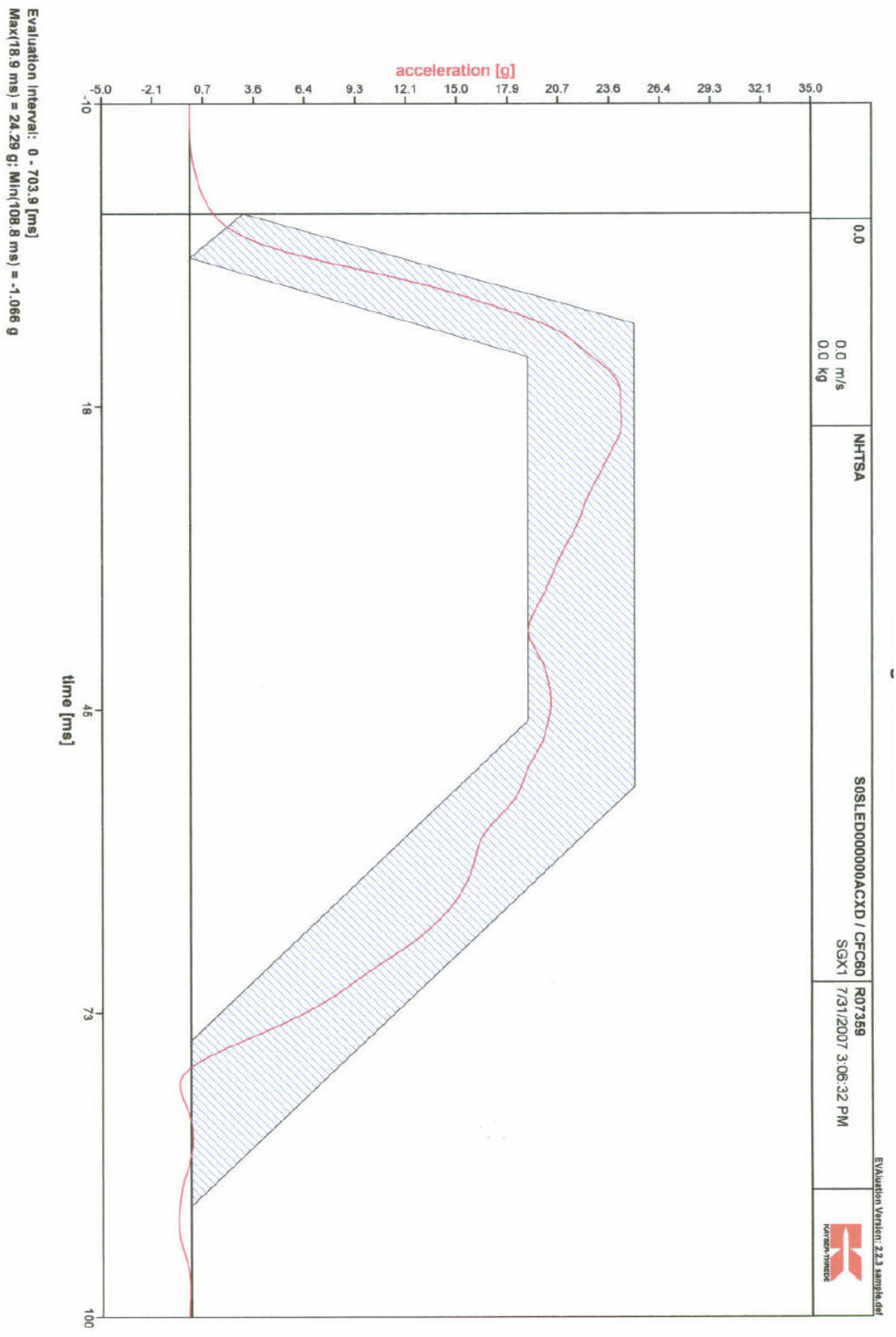
Test Device	Configuration I	
Nominal velocity (km/h)	48 km/h (+0, -5)	
(mph)	30 mph (+0, -2)	
Dummy Used: CRABBI 12 month old	S/N: 085	
Child Restraint System: Installation Mode	Rear-facing	
Adjustment Mode	Reclined	
"Misuse" Mode	N/A	
Test Results Actual Velocity	12.8 m/s 45.3 km/h	(41.5 ft/sec) (28.3 mph)

Integrated area of sled acceleration deviation
Below the lower severity boundary 0.0 m/s (0.0 ft/s)

Limits:
Configuration I: 0.13 m/s (0.44 ft/s)
Configuration II: 0.09 m/s (0.29 ft/s)

Include pre- and post-test photographs and acceleration-time history plot.

Remarks:
Pre- and Post-test photographs are presented in Appendix C.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-5.0 -2.1 0.7 3.6 6.4 9.3 12.1 15.0 17.9 20.7 23.6 26.4 29.3 32.1 35.0
-10
18
45
73
100
time [ms]
Evaluation Interval: 0 - 703.9 [ms]
Max(18.9 ms) = 24.29 g; Min(108.8 ms) = -1.066 g
0.0
0.0 m/s
0.0 kg
NHTSA
S0SLED000000ACXD / CFC60
SGX1
R07359
7/31/2007 3:06:32 PM
EVAluation Version: 2.2.3 sample.def

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 29

BELT RESTRAINT
(FMVSS 213, S5.4.3)

Report No.	213-NAWC-07-009		Test No.	07359
Date of Test:	July 31, 2007		Item Code:	009-EVE396-02-R12MBL

S5.4.3.1 Snug Fit of Belts Extra Webbing				Pass / Fail
Dummy	Each Shoulder Belt (in.)	Each Lap Belt Side (in.)	Crotch Belt (in.)	
085	7 3/4 in.	N/A	N/A	Pass

S5.4.3.2 Direct Restraint Belts	YES / NO	Pass
(1) Belt / Dummy contact for restraint	No	
(2) Rigid structure behind dummy	Yes	
(3) Belt / Child restraint slip possible	No	
Note: If all "yes", restraint fails	No	
S5.4.3.3 Seating System Belt and / or Shields	YES / NO	Pass
(1) Upper Torso	Yes	
(2) Lower Torso	Yes	
(3) Crotch restraint	Yes	
S5.4.3.4 Child Harness Belts	YES / NO	N/A
(1) Upper Torso	N/A	
(2) Lower Torso	N/A	
(3) Prevent Standing	N/A	

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 30

BUCKLE RELEASE
(FMVSS 213, S5.4.3.5, S6.2)

Report No.	213-NAWC-07-009		Test No.	07359
Date of Test:	July 31, 2007		Item Code:	009-EVE396-02-R12MBL

Test	Compliance Requirement	Test Result	Pass / Fail
Buckle Minimum Surface Area	Area $\geq$ 3.9 cm^2 (0.6 $in.^2$)	3.9 cm^2 (0.6 $in.^2$)	Pass
Pre – Impact Release Force	Force Range: 40 to 62 Newtons (9 to 14 lbs)	62.3 N (14.0 lbs.)	Pass
Buckle Integrity	Did not release during test	No release	Pass
Post – Impact Release Force	Force Range: $\leq$ 71 Newtons (16 lbs)	66.7 N (15.0 lbs.)	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 31

RESTRAINT SYSTEM INTEGRITY
(FMVSS 213, S5.1.1)

Report No.	213-NAWC-07-009		Test No.	07359
Date of Test:	July 31, 2007		Item Code:	009-EVE396-02-R12MBL

Test	Compliance Requirement	Test Result	Pass / Fail
Structural Integrity	No complete separation	No separation	Pass
	No partial separation With exposed edge radius > 9.53 mm (1/4 in.)	No separation	Pass
	No partial separation With protrusions > 6.35 mm (3/8 in.)	No separation	Pass
Adjustment Position	No change	No change	Pass
Back Surface / Seating Surface Angle	Not < 45 degrees	> 45 degrees	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 32

INJURY CRITERIA
(FMVSS 213, S5.1.2)

Report No.	213-NAWC-07-009		Test No.	07359
Date of Test:	July 31, 2007		Item Code:	009-EVE396-02-R12MBL

Test	Compliance Requirement	Test Result	Pass / Fail
Head Injury Criterion	≤ 1000	678	Pass
Chest Injury Criterion	Cumulative duration over 60 ≤ 3 ms	Peak g = 52.8 Duration Exceeding 60 g = 0	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 33

OCCUPANT EXCURSION
(FMVSS 213, S5.1.3, S5.1.4, S5.2.1.1 (c))

Report No.	213-NAWC-07-009		Test No.	07359
Date of Test:	July 31, 2007		Item Code:	009-EVE396-02-R12MBL

Forward-Facing Restraints

Test	Compliance Requirement	Test Result	Pass / Fail
Torso Retention (FMVSS 213, S5.1.3.1)	Retain within system	N/A	N/A
Head Excursion (FMVSS 213, S5.1.3.1)	81.3 cm (32 in.)	N/A	N/A
Knee Target Excursion (FMVSS 213, S5.1.3.1)	≤ 91.5 cm (36 in.)	N/A	N/A
Head – Torso Angle (FMVSS 213, S5.2.1.1 (c))	Rearward change ≤ 45 degrees	N/A	N/A

Rear-Facing Restraints

Test	Compliance Requirement	Test Result	Pass / Fail
Torso Retention (FMVSS 213, S5.1.3.1)	Retain within system	Retained	Pass
Head Target Excursion (FMVSS 213, S5.1.3.2)	Not beyond restraint's top and forward edge	None	Pass
Back Support Angle (FMVSS 213, S5.1.4)	≤ 70 degrees	54.3 degrees	Pass
Head – Torso Angle (FMVSS 213, S5.2.1.1 (c))	Rearward change ≤ 45 degrees	< 45 degrees	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 34

AIRCRAFT PASSENGER SEAT INVERSION TEST
CONDITIONS AND RESULTS
(FMVSS 213, S8.2, S8.2.5, S8.2.6)

Report No. 213-NAWC-07-009		Date of Test: August 3, 2007
Item Code: 009-EVE396-01-RNI		Item Code: 009-EVE396-02-R12MBL

	Pass / Fail
S8.1 Each child restraint manufactured for use in aircraft shall be accompanied by printed instructions in English that provide step-by-step procedure, including diagrams, for installing the system in aircraft passenger seats, securing a child in the system when it is installed in aircraft, and adjusting the system to fit the child.	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 35

AIRCRAFT PASSENGER SEAT INVERSION TEST
CONDITIONS AND RESULTS
(FMVSS 213, S8.2, S8.2.5, S8.2.6)

Report No.	213-NAWC-07-009		Sled Test No.	07354
Date of Test	August 3, 2007		Item Code	009-EVE396-01-RNI

Date of Manufacture:	October 13, 2006

Laboratory Ambient Conditions During Testing Temperature Range
Temperature Range 70 to 70 degrees F
Relative Humidity Range 62 % to 62 %

Inversion Test:	
Dummy Used	096, Infant
Child Restraint System	
Installation Mode	Rear-facing
Adjustment Mode	Reclined

Rotation About Y-Axis (Forward)

Test	Compliance Requirement	Test Result	Pass / Fail
Dummy Retention (FMVSS 213, S8.2.5)	Retained within system	Retained	Pass
Child Restraint Retention (FMVSS 213, S8.2.5)	Retained within aircraft seat	Retained	Pass

Rotation About X-Axis (Lateral)

Test	Compliance Requirement	Test Result	Pass / Fail
Dummy Retention (FMVSS 213, S8.2.6)	Retained within system	Retained	Pass
Child Restraint Retention (FMVSS 213, S8.2.6)	Retained within aircraft seat	Retained	Pass

Remarks:

COMPLIANCE TEST DATA: FMVSS 213
Data Sheet 36

AIRCRAFT PASSENGER SEAT INVERSION TEST
CONDITIONS AND RESULTS
(FMVSS 213, S8.2, S8.2.5, S8.2.6)

Report No.	213-NAWC-07-009		Sled Test No.	07359
Date of Test	August 3, 2007		Item Code	009-EVE396-02-R12MBL

Date of Manufacture:	October 13, 2006

Laboratory Ambient Conditions During Testing Temperature Range
Temperature Range 70 to 70 degrees F
Relative Humidity Range 62 % to 62 %

Inversion Test:	
Dummy Used	085, 12 month old
Child Restraint System	
Installation Mode	Rear-facing
Adjustment Mode	Reclined

Rotation About Y-Axis (Forward)

Test	Compliance Requirement	Test Result	Pass / Fail
Dummy Retention (FMVSS 213, S8.2.5)	Retained within system	Retained	Pass
Child Restraint Retention (FMVSS 213, S8.2.5)	Retained within aircraft seat	Retained	Pass

Rotation About X-Axis (Lateral)

Test	Compliance Requirement	Test Result	Pass / Fail
Dummy Retention (FMVSS 213, S8.2.6)	Retained within system	Retained	Pass
Child Restraint Retention (FMVSS 213, S8.2.6)	Retained within aircraft seat	Retained	Pass

Remarks:

SECTION V

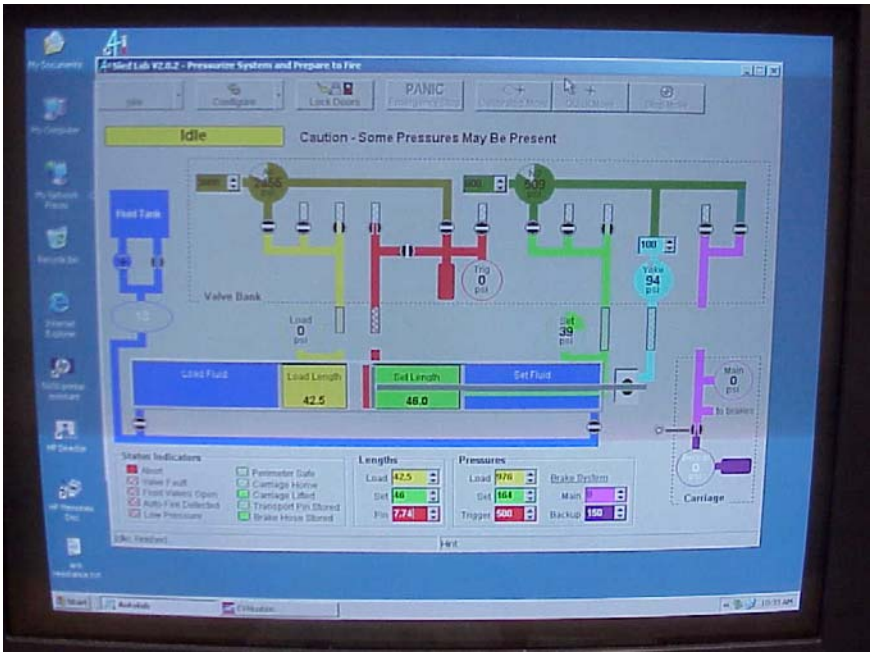
EQUIPMENT LIST AND CALIBRATION SCHEDULE

EQUIPMENT	INSPECTED	REINSPECTION DUE
HYGROTHERMOGRAPHS (1)	1 February 07	1 February 08
Cole-Parmer Inst. Com Model No. 60714 Temp +/- 1 deg F Hum +/- 3% S/N 051082		
MECHANICAL FORCE GUAGES		
Model No. MF-50 50 lb. Capacity +/- 0.2% full-scale S/N 1398-98	1 February 07	1 February 08
BENCH SCALE		
Ohaus Corp. 200 lb Capacity +/- 0.05 lb.	1 February 07	1 February 08

SECTION VI

PHOTOGRAPHS OF EQUIPMENT

SLED BUCK



SLED CONSOLE

ITEM CODE: 009-EVE396-01-RNI

PRE-TEST PICTURES

ITEM CODE: 009-EVE396-01-RNI

POST-TEST PICTURES

ITEM CODE: 009-EVE396-02-R12MBL

PRE-TEST PICTURES

ITEM CODE: 009-EVE396-02-R12MBL

POST-TEST PICTURES

Y AXIS PRE- AND POST TEST ITEM CODE: 009-EVE396-01-RNI

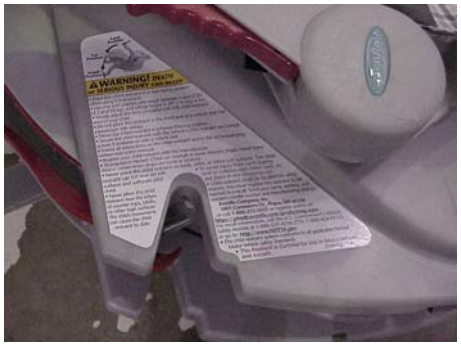
X AXIS PRE- AND POST-TEST ITEM CODE: 009-EVE396-01-RNI

Y AXIS PRE- AND POST-TEST ITEM CODE: 009-EVE396-02-R12MBL

X AXIS PRE- AND POST-TEST ITEM CODE: 009-EVE396-02-R12MBL

EMBRACE DLX

MODEL #: 396



LABELS

ITEM CODE: 009-EVE396-01-RNI
ITEM CODE: 009-EVE396-02-R12MBL

SECTION VII

DEVIATIONS OR INTERPRETATIONS FROM FMVSS 213

The test bench used in the testing of the child restraint deviated from the test bench specified in FMVSS 213. The seat back angle used in the tests was in a more reclined position than the angle specified in FMVSS 213. Based on a laboratory analysis of the test data, NHTSA's Office of Vehicle safety Compliance determined that the seat back angle deviation may have affected the test results but not to the extent that FMVSS 213 requirements would have been exceeded. The laboratory corrected the seat back angle after the FY07 test program.