SAFETY COMPLIANCE TESTING FOR
FMVSS NO. 301L
FUEL SYSTEM INTEGRITY

GENERAL MOTORS DE MEXICO
2003 BUICK RENDEZVOUS, MPV
NHTSA NO. C30106

GENERAL TESTING LABORATORIES, INC.
1623 LEEDSTOWN ROAD
COLONIAL BEACH, VIRGINIA 22443

JUNE 26, 2003
FINAL REPORT
PREPARED FOR
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
400 SEVENTH STREET, SW
ROOM 6111 (NVS-220)
WASHINGTON, D.C. 20590
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Prepared By: D. Messick

Approved By: [Signature]

Approval Date: 06/26/03

FINAL REPORT ACCEPTANCE BY OVSC:

Accepted By: [Signature]

Acceptance Date: 07/10/03
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<td>Grant Farrand, Project Engineer Debbie Messick, Project Manager</td>
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<td>Compliance tests were conducted on the subject, 2003 Buick Rendezvous MPV in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-301-02 for the determination of FMVSS 301 compliance. Test failures identified were as follows:</td>
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SECTION 1

PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF COMPLIANCE TEST

A 2003 Buick Rendezvous MPV was subjected to Federal Motor Vehicle Safety Standard (FMVSS) No. 301 testing to determine if the vehicle was in compliance with the requirements of the standard. The purpose of this standard is to reduce deaths and injuries occurring from fires that result from fuel spillage during and after motor vehicle crashes, and resulting from ingestion of fuels during siphoning.

1.1 The test vehicle was a 2003 Buick Rendezvous MPV. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: 3G5DA03E03S560384

B. NHTSA No.: C30106

C. Manufacturer: GENERAL MOTORS DE MEXICO

D. Manufacture Date: 12/02

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 301 testing on June 09, 2003.
SECTION 2

COMPLIANCE TEST RESULTS SUMMARY

2.0 TEST RESULTS

All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Procedure, TP-301-02 dated 8 November 1994 and General Testing Laboratories, Inc. (GTL) Test Procedure, TP-301-02, "Fuel System Integrity".

Based on the test performed, the 2003 Buick Rendezvous MPV appears to meet the lateral impact requirements of FMVSS 301 testing.
SECTION 3

COMPLIANCE TEST DATA

3.0 TEST RESULTS

The following data sheets document the results of testing on the 2003 Buick Rendezvous.
SUMMARY OF RESULTS

Vehicle's NHTSA No.: C30106  Test Model: RENDEZVOUS

Test Date.: 06/09/03  Time: 15:55  Temperature 83° F

Vehicle Model Year, Make, Model and Body Style:
2003 BUICK RENDEZVOUS MPV

Vehicle Test Weight: 4023 lbs.;  Impact Velocity: 19.5 mph

Type of Front Occupant Restraint System Installed in Test Vehicle:

Driver’s DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN STEERING WHEEL

Right Passenger’s DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN DASH

Stoddard solvent spillage from Vehicle’s Fuel System: None

REMARKS:

RECORDED BY: [Signature]  DATE: 06/09/03

APPROVED BY: [Signature]
DATA SHEET 1
TEST VEHICLE SPECIFICATIONS

TEST VEHICLE INFORMATION:

NHTSA No.: C30106
Year/Make/Model/Body Style: 2003 BUICK RENDEZVOUS MPV
Engine Data: 3.4 LITER V6
Transmission Data: 4 SPEED AUTOMATIC WITH OVERDRIVE
Final Drive Data: FRONT WHEEL DRIVE
Major Options: TIRE INFLATION MONITOR
Date Received: 03/17/03
Odometer Reading: 65 miles

DATA FROM VEHICLE'S CERTIFICATION LABEL:

Vehicle Manufactured By: GENERAL MOTORS DE MEXICO
Date of Manufacture: 12/02
VIN: 3G5DA03E035560384

GVWR: 2430 kg (5357 lbs.); GAWR Front: 1230 kg (2712 lbs.) GAWR Rear: 1210 kg (2668 lbs.)

DATA FROM VEHICLE'S TIRE PLACARD:

Location of Placard on Vehicle: DRIVER'S DOOR
Tire Pressure With Maximum Capacity Vehicle Load —
  Front: 35 psi; Rear: 35 psi
Recommended Tire Size: P215/70R16
Recommended Cold Tire Pressure: Front = 240 kPa (35 psi) Rear = 240 kPa (35 psi)
Size of Tires on Test Vehicle: P215/70R16
Type of Spare Tire: SPACE SAVER T135/70R16

Vehicle Capacity Data —

Type of Front Seat(s): BUCKET
Number of Occupants: Front = 2; Mid = ___; Rear = 3; Total = 5

A. VEHICLE CAPACITY WEIGHT (VCW) = 1477 lbs.
B. Number of Occupants x 150 lbs. = 750 lbs.
RATED CARGO AND LUGGAGE WEIGHT (RCLW) = A - B = 727 lbs.

RECORDED BY: ______________________  DATE: 06/05/03
APPROVED BY: ______________________
DATA SHEET 2  
PRE-TEST DATA

WEIGHT OF TEST VEHICLE:

A.  As Received At Laboratory (Maximum Fluids) —

Right Front = \(529.3\) kg (1167 lbs.)  
Right Rear = \(349.7\) kg (771 lbs.)

Left Front = \(523.4\) kg (1154 lbs.)  
Left Rear = \(357.4\) kg (788 lbs.)

TOTAL FRONT = \(1052.7\) kg (2321 lbs.)  TOTAL REAR = \(707.1\) kg (1559 lbs.)

\% of TOTAL = \(60\) \%  
\% of TOTAL = \(40\) \%

TOTAL DELIVERED WEIGHT = \(1759.9\) kg (3880 lbs.)

B.  Calculation of Target Test Weight —

1. Total Delivered Weight = \(1759.9\) kg (3880 lbs.)

2. Rated Cargo & Lugg. Weight (RCLW) = \(329.7\) kg (727 lbs.)

3. Weight of 2 Dummies (164 lbs. each) = \(148.8\) kg (328 lbs.)

TARGET TEST WEIGHT = \(1 + 2 + 3 = 2238.4\) kg (4935 lbs.)

C.  Vehicle, Dummies and \(329.7\) kg (727 lbs.) of Cargo Weight —

Right Front = \(603.7\) kg (1331 lbs)  
Right Rear = \(520.7\) kg (1148 lbs)

Left Front = \(589.2\) kg (1299 lbs)  
Left Rear = \(519.3\) kg (1145 lbs)

TOTAL FRONT = \(1192.9\) kg (2630 lbs)  TOTAL REAR = \(1040.0\) kg (2293 lbs)

\% of TOTAL = \(54\) \%  
\% of TOTAL = \(46\) \%

TOTAL TEST WEIGHT = \(2233.03\) kg (4923 lbs)

Weight of Ballast secured in cargo area = \(329.7\) kg (727 lbs)

Type of Ballast: SALT AND SAND BAGS

Method of Securing Ballast: REAR SEAT BELTS AND CARGO HANKS

Vehicle Components Removed for Weight Reduction:

NONE

\footnote{VEHICLE WAS LOADED TO AN RCLW OF 329.7 KG per S7.1.6a as specified for a passenger car and should have been loaded per S7.1.6h to 136 KG or RCLW whichever is less, therefore this test was performed in a worse case overload condition.}
DATA SHEET 2
PRE-TEST DATA CONTINUED

TEST VEHICLE ATTITUDE:

As Delivered —
Right Front: 795 mm (31.3 inches)
Left Front: 800 mm (31.5 inches)
Right Rear: 815 mm (32.1 inches)
Left Rear: 815 mm (32.1 inches)

As Tested —
Right Front: 781 mm (30.7 inches)
Left Front: 785 mm (30.9 inches)
Right Rear: 768 mm (30.2 inches)
Left Rear: 766 mm (30.1 inches)

Vehicle's Wheelbase = 2855 mm (112.4 inches)

FUEL SYSTEM DATA:

Fuel System Capacity Listed in Owner's Manual = 68.1 liters (18.0 gallons)
Usable Capacity Figure Furnished By COTR = 68.1 liters (18.0 gallons)

Test Volume Range (91 to 94% of Usable Capacity) — 92.5%

61.9 liters (16.3 gallons) TO 64.0 liters (16.9 gallons)

ACTUAL TEST VOLUME = 63.0 liters (16.6 gallons) (with entire fuel system filled)

Test Fluid Type: Stoddard solvent
Test Fluid Specific Gravity: .7583
Test Fluid Kinematic Viscosity: 1.7 centistokes at 77° F
Test Fluid Color: BLUE ("red" is preferred)
Type of Vehicle Fuel Pump: ELECTRIC
Electric Fuel Pump Operation with Ignition Switch ON and Engine OFF — YES, FOR 3 SECONDS AND THEN TURNS OFF UNLESS ENGINE IS RUNNING

Details of Fuel System: FUEL INJECTION, PUMP IN TANK

REMARKS:

RECORDED BY: DATE: 06/05/03
APPROVED BY:
DATA SHEET 3
POST IMPACT DATA

TYPE OF TEST: 301L
TEST DATE: 06/09/03; TIME: 15:55; TEMP.: 83 °F
VEH. NHTSA NO.: C30106; VIN: 3G5DA03E03S560384

REQUIRED IMPACT VELOCITY RANGE: 18.9 mph to 19.9 mph

ACTUAL IMPACT VELOCITY: (speed traps located within 5 feet of impact plane)

Trap No. 1 = 19.5 mph
Trap No. 2 = 19.5 mph
Average Impact Speed = 19.5 mph

REMARKS:

RECORDED BY: [Signature]  DATE: 06/09/03
APPROVED BY: [Signature]
DATA SHEET 4
SUMMARY OF FMVSS 301 DATA

TEST VEHICLE NHTSA NO.: _C30106_ ; TEST DATE: ______06/09/03_____

VEHICLE YEAR/MAKE/MODEL/BODY STYLE: 2003 BUICK RENDEZVOUS

TYPE OF IMPACT: _______ 301L __________

STODDARD SOLVENT SPILLAGE MEASUREMENT:

A. From impact until vehicle motion ceases —
   Actual = _____0____ oz.  Maximum Allowable = 1 ounce

B. For 5 minute period after vehicle motion ceases —
   Actual = ___0___  oz.  Maximum Allowable = 5 ounces

C. For next 25 minutes —
   Actual = ____0___  oz.  Maximum Allowable = 1 oz./minute

D. Provide Spillage Details: _______NONE__________

REMARKS:

RECORDED BY: [Signature]  DATE: ______06/09/03_____
APPROVED BY: [Signature]
DATA SHEET 5
STATIC ROLLOVER TEST DATA:

A. Test Phase = 0° to 90°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90° Rotation Time = 1 minute, 34 seconds

(Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold Time = 5 minutes, 0 seconds

3. TOTAL = _6_ minutes, 34_ seconds

4. NEXT WHOLE MINUTE INTERVAL = _7_ minutes

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = _0_ oz.
   (5 oz. allowed)

2. 6th minute = _0_ oz.
   (1 oz. allowed)

3. 7th minute = _0_ oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE

________________________________________________________________________________

________________________________________________________________________________
B. Test Phase = 90° to 180°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90°
Rotation Time = 1 minute, 35 seconds

(Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold
Time = 5 minutes, 0 seconds

3. TOTAL = 6 minutes, 35 seconds

4. NEXT WHOLE MINUTE INTERVAL = 7 minutes

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of
rotation = 0 oz.
(5 oz. allowed)

2. 6th minute = 0 oz.
(1 oz. allowed)

3. 7th minute = 0 oz.
(1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE
C. Test Phase = 180° to 270°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90°
   Rotation Time = __1__ minutes, __27__ seconds

   (Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold
   Time = 5 minutes, 0 seconds

3. TOTAL = __6__ minutes, __27__ seconds

4. NEXT WHOLE MINUTE INTERVAL = __7__ minutes

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = __0__ oz.
   (5 oz. allowed)

2. 6th minute = __0__ oz.
   (1 oz. allowed)

3. 7th minute = __0__ oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE
D. Test Phase = 270° to 360°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90°
   Rotation Time = 1 minutes, 45 seconds

(Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold
   Time = 5 minutes, 0 seconds

3. TOTAL = 6 minutes, 45 seconds

4. NEXT WHOLE MINUTE INTERVAL = 7 minutes

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = 0 oz.
   (5 oz. allowed)

2. 6th minute = 0 oz.
   (1 oz. allowed)

3. 7th minute = 0 oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE
DATA SHEET 6
CAMERA LOCATION

VEHICLE NHTSA NO.: C30106

TEST DATE: 06/09/03

PHOTO PIT

TEST VEHICLE

CONCRETE PAD

TOW ROAD

MONORAIL

NO STEEL GRATING ALLOWED OVER PHOTO PIT

TOP VIEW

CAMERA 1 – REAR SIDE VIEW OF VEHICLE DURING CRASH
CAMERA 2 – FRONT SIDE VIEW OF VEHICLE DURING CRASH
CAMERA 3 – OVERHEAD VIEW OF ENTIRE IMPACT
CAMERA 4 – UNDERBODY VIEW OF FUEL TANK LOCATED IN PIT
## SECTION 4
INSTRUMENTATION AND EQUIPMENT LIST

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**冷轮胎压力**

- 215/70R16: 240 kPa (35 psi)
- 215/65R16: 240 kPa (35 psi)
- 138/70R16: 420 kPa (60 psi)

FIGURE 5.17

VEHICLE CERTIFICATION AND TIRE INFORMATION LABEL.
2003 BUICK RENDEZVOUS
NHTSA NO. C30106
FMVSS NO. 5011.
SECTION 6

BARRIER INFORMATION
NOTES:
1. Face Plate 0.50 in. (19mm) thick cold rolled steel
2. All Inner Reinforcements 4.0 x 2.0 x 0.19 in. (102 x 51 x 5mm) Steel Tubing
3. Impact Surface above shown without .75 x 48 x 96 in. Plywood Face attached

DIMENSIONS SHOWN IN TABLE ON NEXT PAGE
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TEST SET-UP OF COMMON CARRIAGE WITH 60" X 78" FLAT FACE IMPACT SURFACE INSTALLED:

LEFT FRONT WEIGHT 1081
RIGHT FRONT WEIGHT 1079
LEFT REAR WEIGHT 882
RIGHT REAR WEIGHT 873

TOTAL WEIGHT 3915

* EXCLUDING 3/4" PLYWOOD FACE

DIMENSIONS FOR GTL 60" X 78" FLAT FACE IMPACT SURFACE