



400 Seventh Street, S.W.
Washington, D.C. 20590

U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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AUTO SAFETY HOTLINE
(800) 424-9393
Wash. D.C. Area 366-0123

**SwRI AIRBAG DEPLOYMENT
INVESTIGATION
FULL SCOPE**

CASE NO. 9001AB

FINAL REPORT

SwRI Project 06-1977
DTNH 22-87-C-37169

Prepared by:

[REDACTED]

Prepared for:

U.S. Department of Transportation
National Highway Traffic Safety Administration

[REDACTED] Texas
[REDACTED] 1990

DISCLAIMERS

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

**SwRI AIRBAG DEPLOYMENT INVESTIGATION
FULL SCOPE**

CASE NO. 9001AB

**[REDACTED], Texas
[REDACTED] 1990**

SUMMARY

On [REDACTED] 1990, at approximately 2300 hours, 1 1990 Toyota Celica was northbound on a local street in a residential area of [REDACTED], Texas. The Toyota was stopped in the northbound lane prior to beginning a left turn to a private drive. The driver released the brakes, began the turn and struck a 1978 Datsun B210. The Datsun had been travelling southbound at a driver estimated speed of 35 mph. The driver of the Datsun applied full braking prior to the impact. The Toyota rotated 180 degrees and came to rest facing southbound in the Southbound lane a short distance from the point of impact. The Datsun continued forward in its original direction of travel and came to rest parallel to the Toyota in the southbound lane.

The accident occurred in the southbound lane of a two lane, undivided local street. The road surface was dry bituminous concrete, delineated by double yellow lines as a center stripe. Ambient conditions were clear nighttime with a temperature of approximately 78 degrees F. There were no traffic controls. The speed limit was 35 mph.

The 1990 Toyota Celica was a two door sedan, equipped with a factory installed driver side airbag system. It was also equipped with lap and shoulder belts in all seating positions. It sustained moderate frontal damage from the impact with the Datsun.

The 1978 Datsun B210 was a two door hatchback, equipped with lap and torso belt in the driver position. Other restraints available to occupants are unknown at this time. The Datsun sustained moderate frontal damage, according to the police report.

The driver of the Toyota was a thirty year old female, who was wearing the available lap and torso belts. She sustained a laceration to the left eyebrow, contusions around the left orbit, damage to the retina of the left eye, a scratch to the left cornea, abrasions to the ventral surface of the right forearm and swelling and tenderness to the dorsal aspect of the right hand. She was taken to a local hospital where she was treated and released. She sought further treatment later for her eye injury.

The right front occupant of the Toyota was a twenty-two year old male, who was not wearing the available lap and torso belt, according to the driver. He sustained a contusion to the right scalp, and did not seek any treatment.

The driver of the Datsun was a thirty-two year old male, who was wearing the available lap and torso belt. According to the police report, he sustained minor injuries. According to the police report, he accompanied his passenger to a local hospital, but did not seek treatment.

The right front occupant of the Datsun was a twenty year old female who was not wearing any restraint. She sustained a laceration to the knee (unknown aspect). She was taken to a local hospital for treatment.

Local police were notified and arrived at the accident scene eight minutes later. EMS was also notified and responded. The police investigated the accident and completed a report.

**SwRI AIRBAG DEPLOYMENT INVESTIGATION
FULL SCOPE**

CASE NO. 9001AB

[REDACTED], Texas

FINAL REPORT

ACCIDENT DATA

Location: [REDACTED], Texas
Area/Type: Urban/Residential
Accident Date/Time: [REDACTED] 1990
Investigating Police Agency: [REDACTED] Police Department
Notification Date: [REDACTED] 1990
Accident Type: Vehicle to vehicle/Head-on
Airbag Vehicle Occupant Injury Severity: Moderate (AIS 2)

AMBIENCE

Light Conditions: Dark with street lights
Weather: Clear
Precipitation: None
Road Surface: Dry
Temperature: Approximately 78 degrees F.

TRAFFICWAY

	Airbag Vehicle	Vehicle #2
Location:	Urban arterial	Urban arterial
Number of Lanes:	2	2
Surface:	Bituminous concrete	Bituminous concrete

TRAFFICWAY (CONT)

	Airbag Vehicle	Vehicle #2
Coefficient of Friction:	0.6	0.6
Roadway Edge:	Edge lines with paved shoulders	Edge lines with paved shoulders
Roadway Alignment:	Straight, upgrade	Straight, downgrade
Traffic Density:	Light	Light

TRAFFIC CONTROLS

Signals:	None	None
Signs:	None	None
Markings:	Double yellow center line with edge lines	Double yellow center line with edge lines
Speed Limit:	35 mph	35 mph

VEHICLES

Year:	1990	1978
Make:	Toyota	Datsun
Model:	Celica GT	B210
Body Style:	Two door sedan	Two door hatchback
VIN:	JT2ST87F6L0 [REDACTED]	HLB21CXXXXXX
Color:	Blue	Blue
Fleet:	Private	Private
Tow Status:	Towed due to damage	Towed due to damage
Reported Defects:	None	None
Previous Repair:	None	Unknown
Odometer Mileage:	2632	Over 100,000
Securiflex Windshield:	Not equipped	Not equipped

VEHICLES (CONT)

	Airbag Vehicle	Vehicle #2
Engine:	4 cyl./2.2 L EFI	4 cyl./
Windshield Damage/Source:	None/Inspection	Cracked from occupant contact/Inspection
Transmission:	Manual/5-Speed	Manual/5-Speed
Steering:	Power assisted	Manual
Brakes:	Power assisted	Manual hydraulic
Interior Padding:	Padded upper and lower instrument panel, steering wheel rim and hub, sun visor, A-pillar, armrest, door surface and roof side rail	Padded upper and lower instrument panel, steering wheel rim, sun visor, A-pillar, armrest, door surface and roof side rail
Active Restraints:	Lap and torso restraints, front and rear outboard positions, lap only in the front and rear center seat	Lap and torso restraints, front outboard positions, lap only in the two rear seat positions
Passive Restraints:	Factory installed driver side airbag system	None

VEHICLE DAMAGE***Exterior***

	Airbag Vehicle	Vehicle #2
Object Struck:	1978 Datsun	1990 Toyota
Accident Event Number:	1	1
Damage Location:	Front	Front
CDC:	01FZEW1	11FDEW2
Damage Description:	Moderate damage to the front including the grille, front bumper, hood, a/c condensing coils, radiator, right and left front fenders, battery and right front wheel and suspension	Moderate damage to the front including the grille, front bumper, hood, right and left front fenders, a/c coils and radiator core

Interior	Airbag Vehicle	Vehicle #2
Damage:	Passenger sun visor mirror broken	Cracked and broken a/c ducting, glove box cover, windshield and visors
Repair Cost:	Totalled	Totalled

VEHICLE VELOCITY ESTIMATES

Travel Speed:	5 mph (driver est.)	35 mph (driver est.)
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Reconstruction Algorithm

Total:	Unknown	Unknown
Longitudinal:	Unknown	Unknown
Lateral:	Unknown	Unknown
Energy Dissipated:	Unknown	Unknown

COLLISION SEQUENCE

Pre-Crash:	The Toyota was stopped in the northbound lane of travel, waiting to make a left turn. The driver observed no oncoming traffic and started the vehicle into the turn. The Datsun was southbound at a driver estimated speed of 35 mph. As the Datsun crested a small rise just north of the point of impact, the driver saw the Toyota entering the turn and applied full braking. The driver of the Toyota observed the Datsun, but had no time to react.
Crash:	The front center of the Datsun struck the front right of the Toyota causing the Toyota to begin a counterclockwise rotation. As the impact continued, the Toyota rotated approximately 150 degrees from its position at impact. The Datsun, because of its greater speed at impact continued forward only slightly redirected from its original path and direction of travel.
Post-Crash:	The Toyota came to rest facing south, 180 degrees from its original path of travel. It was approximately 5 feet away from and parallel to the position of the Datsun at final rest. Both vehicles were approximately 20 feet south of the point of impact.
Driver Activities:	The driver of the Toyota was dazed by the impact and her injuries and remained seated in the driver seat for a short period of time. She then exited the vehicle through the driver side door.

Police Activities: The police were notified and arrived at the scene approximately 8 minutes after the accident occurred.

Rescue Activities: EMS was called due to the injuries of the Toyota driver and the occupant of the Datsun.

Treatment Facilities: All the injured were taken to a local hospital where they were treated and released.

Scene Clearance: Both vehicles were towed from the scene due to damage and the scene was returned to normal approximately 45 minutes after the accident occurred.

HUMAN FACTORS/OCCUPANT DATA - AIRBAG VEHICLE

	<u>Driver</u>	<u>Occupant</u>
Age:	30 years old	22 years old
Sex:	Female	Male
Height:	66.75 inches	72 inches
Weight:	125	220
Occupation:	Marketing trainer	Unknown
Active Restraint Usage:	Lap and torso belt	None
Source of Usage:	Driver and inspection	Driver interview
Eyeglasses:	None	None
Driver Experience:	14 years	
Driver Education:	High school driver education	
Vehicle Familiarity:	Daily use	
Previous Accidents:	None	
Previous Violations:	None	

HUMAN FACTORS/OCCUPANT DATA (CON'T.) - AIRBAG VEHICLE

	<u>Driver</u>	<u>Occupant</u>
Trip Plan:	Drop off occupant and return home	
Route Familiarity:	Travelled weekly	
Type of Medical Treatment:	Treated and released from hospital, outpatient surgery two weeks later.	None

Driver Injury Data

Injury	Severity (AIS)	Source
Retina detachment	Moderate (AIS 2)	Impact with right hand
Severe contusion left orbit	Moderate (AIS 2)	"
Laceration left eyebrow	Minor (AIS 1)	"
Abrasion left cornea	Minor (AIS 1)	"
Injury (unspecified) to trigeminal nerve branch	Moderate (AIS 2)	"
Abrasions right forearm	Minor (AIS 1)	Airbag
Edema dorsum right hand	Minor (AIS 1)	Impact with left face
Contusion right thigh	Minor (AIS 1)	Console
Contusion left clavicle area	Minor (AIS 1)	Torso belt
Fracture upper left canine	Minor (AIS 1)	Unknown
Fracture upper left incisor	Minor (AIS 1)	Unknown

Occupant Injury Data

Contusion right scalp	Minor (AIS 1)	Sunvisor/windshield header
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DRIVER KINEMATICS

The driver was seated in a normal position with her left hand on the steering wheel and her right hand on the gearshift. She started the vehicle into the turn, completed the shift from first to second gear, moved her right hand from the gearshift to the steering wheel and continued to turn the steering wheel. The driver suddenly saw the oncoming vehicle and turned her head slightly to the right.

The impact occurred at this point and the airbag deployed. The driver's right hand was at the 9-10 o'clock position on the steering wheel and her forearm was between her torso and the airbag module at deployment. When the bag deployed, it knocked her hand from the steering wheel rim toward her face causing abrasions to the ventral surface of the forearm. Her right hand continued toward her face striking the left orbit area, causing the retina detachment, cornea abrasion and contusion of the orbit area of the left eye and edema of the right hand. The driver's body moved forward and to the right and was restrained by the lap and torso belt and the airbag. She received contusions to the left clavicle area from the torso belt and to the right thigh from the center console.

The occupant, seated in the right front, moved forward and to the right at impact, striking the right sun visor and windshield header area. This caused a contusion of the right scalp.

HUMAN FACTORS/OCCUPANT DATA - VEHICLE #2

	<u>Driver</u>	<u>Occupant</u>
Age:	32 years old	20 years old
Sex:	Male	Female
Height:	Unknown	Unknown
Weight:	Unknown	Unknown
Occupation:	Unemployed	Unemployed
Active Restraint Usage:	Lap and torso belt	None
Source of Usage:	PAR	PAR

Driver Injury Data

Injury	Severity (AIS)	Source
Contusion chest	Minor (AIS 1)	Steering column
Contusion both knees	Minor (AIS 1)	Instrument panel
Contusion both elbows		"

HUMAN FACTORS/OCCUPANT DATA (CONT) - VEHICLE #2

Occupant Injury Data

Injury	Severity (AIS)	Source
Laceration left knee into thigh	Minor (AIS 1)	Instrument panel
Laceration right knee	Minor (AIS 1)	"
Laceration forehead	Minor (AIS 1)	Windshield
Cervical muscle strain	Minor (AIS 1)	Unknown
Lumbar muscle strain	Minor (AIS 1)	"

ATTACHMENTS

- Police Accident Report**
- Airbag Accident and Person Level Form**
- Medical Records for Driver of Airbag Vehicle**
- Photographic Index and Photographs**

**POLICE
ACCIDENT
REPORT**

POLICE DEPARTMENT OFFICER'S ACCIDENT REPORT

SAPD FORM NO. 12 (REV. 1-86)

PLAC WHERE ACCIDENT OCCURRED, DISTRICT OF OCCURRENCE, ASSIGNMENT NUMBER, ROAD ON WHICH ACCIDENT OCCURRED, INTERSECTING STREET OR RR X'ING NUMBER, DATE OF ACCIDENT, DAY OF WEEK, HOUR, AM/PM, EXACTLY WHEN OR APPROX. DO STATE.

UNIT # 1 - MOTOR VEHICLE, VEH. IDENT. NO. HLBZ18, YEAR 78, COLOR Blue, MAKE PLYMOUTH, MODEL B210, BODY STYLE 2DR, LICENSE 90, DRIVER'S NAME, RES. ADDR., CITY, STATE, OCCUPATION Unemployed, DAMAGE RATING F0-5.

UNIT # 2 - M.V. TRAN, VEH. IDENT. NO. JT 25T87E64, YEAR 90, COLOR Blue, MAKE Toyota, MODEL GLISA, BODY STYLE 2DR, LICENSE 91, DRIVER'S NAME, RES. ADDR., CITY, STATE, OCCUPATION, DAMAGE RATING F0-5.

DAMAGE TO PROPERTY OTHER THAN VEHICLES, OBJECT, OWNER'S NAME, ADDRESS, PHONE NO., HOW DAMAGED, FT. FROM CURB, DAMAGE ESTIMATE.

LIGHT CONDITION 4, WEATHER 11, SURFACE 1, TYPE ROAD SURFACE 1, IN YOUR OPINION, DID THIS ACCIDENT RESULT IN AT LEAST \$250.00 DAMAGE TO ANY ONE PERSON'S PROPERTY? YES.

PERSONS, ARRESTED, CITATION NO., CHARGE.

WITNESS, OFFICER, NAME, ADDRESS, RES. P.P., BUS. P.P.

TIME NOTED OF ACCIDENT 90 2305 M, HOW Dispatched, TIME ARRIVED AT ACCIDENT SCENE 90 2305 P.M., SIGNATURE, DATE, IS REPORT COMPLETE? YES.

UNIT NO. 1, VEHICLE REMOVED TO, DAMAGE RATING F0-5, BY Wrecker.

Table with columns: OCCUPANT'S POSITION, NAME/LAST NAME (FIRST), ADDRESS, RES. P.P., TYPE SPECIMEN TAKEN, RES.

UNIT NO. 2, COMPLETE ONLY IF UNIT NO. 2 HAS A MOTOR VEH., VEHICLE REMOVED TO, DAMAGE RATING F0-5, BY Wrecker.

Table with columns: OCCUPANT'S POSITION, NAME/LAST NAME (FIRST), ADDRESS, RES. P.P., TYPE SPECIMEN TAKEN, RES.

COMPLETE IF CASUALTY NOT IN MOTOR VEHICLE, CASUALTY NAME (LAST NAME FIRST), CASUALTY ADDRESS, RES. P.P.

DEPOSITION OF KILLED OR INJURED, ITEM NUMBER, TAKEN TO, BY.

DETAILS: Driver of UNIT # 2 STATED that she was driving N.B. on [redacted] and was stopped to turn left into the apt parking lot when UNIT # 1 came over the hill traveling S.B. and struck her head on. Driver # 1 left for the Hospital with his passenger before I could get his version of the accident.

SKID MARKS, POINTS OF IMPACT # 1, POINTS OF IMPACT # 2.

FACTORS AND CONDITIONS LISTED ARE THE INVESTIGATOR'S OPINION, FACTORS/CONDITIONS CONTRIBUTING, OTHER FACTORS/CONDITIONS MAY OR MAY NOT HAVE CONTRIBUTED.

- 1. ANIMAL ON ROAD-DOMESTIC, 2. ANIMAL ON ROAD-WILD, 3. BACKED WITHOUT SAFETY, 4. CHANGED LANE WHEN UNSAFE, 5. DEFECTIVE OR NO HEADLAMPS, 6. DEFECTIVE OR NO STOP LAMPS, 7. DEFECTIVE OR NO TAIL LAMPS, 8. DEFECTIVE OR NO TURN SIGNAL LAMPS, 9. DEFECTIVE OR NO TRAILER BRAKES, 10. DEFECTIVE OR NO VEHICLE BRAKES, 11. DEFECTIVE STEERING MECHANISM, 12. DEFECTIVE OR SLACK TIES, 13. DEFECTIVE TRAILER HITCH, 14. DISABLED IN TRAFFIC LANE, 15. DISOBEY STOP A OR SIGNAL, 16. DISOBEY STOP SIGN OR LIGHT, 17. DISOBEY TURN MARKS AT INTERSEC., 18. DISOBEY WARNING SIGN AT CONSTRA., 19. DISTRACTION IN VEHICLE, 20. DRIVER INATTENTION, 21. DROVE WITHOUT HEADLIGHTS, 22. FAILED TO CONTROL SPEED, 23. FAILED TO DRIVE IN SINGLE LANE, 24. FAILED TO GIVE HALF OF ROADWAY, 25. FAILED TO YIELD RIGHT-OF-WAY, 26. FAILED TO PASS TO LEFT SAFELY, 27. FAILED TO PASS TO RIGHT SAFELY, 28. FAILED TO SIGNAL OR GAVE WRONG SIG., 29. FAILED TO STOP AT PROPER PLACE, 30. FAILED TO STOP FOR SCHOOL BUS, 31. FAILED TO STOP FOR TRAIN, 32. FAILED TO YIELD ROW - EMERGENCY VEH., 33. FAILED TO YIELD ROW - OPEN INTERSEC., 34. FAILED TO YIELD ROW - PRIVATE DRIVE, 35. FAILED TO YIELD ROW - STOP SIGN, 36. FAILED TO YIELD ROW - PUB., 37. FAILED TO YIELD ROW - TURNING LEFT, 38. FAILED TO YIELD ROW - TURN ON RED, 39. FAILED TO YIELD ROW - YIELD SIGN, 40. FATIGUED OR ASLEEP, 41. FAULTY EVASIVE ACTION, 42. FIRE IN VEHICLE, 43. FLEED OR EVASIVE POLICE, 44. FUEL/LEAKED FUEL, 45. GLASS IN EYES, 46. HAD BODY DRIVING, 47. HAD BOTTLED DRIVER EXPLAIN IN DETAIL, 48. IMPAIRED VISION, 49. IMPAIRED VISION IN DETAIL, 50. IMPROPER START FROM PARKED POSITION, 51. LOAD NOT SECURED, 52. OVERSLEPT INTO TRAFFIC LANE, 53. OVERSLEPT VEH. ON LANE, 54. OVERTAKE & PASS WITHOUT CLEARANCE, 55. PARKED AND FAILED TO SET BRAKES, 56. PARKED IN TRAFFIC LANE, 57. TURN MARKS, 58. WARNING SIGNS, 59. YIELD SIGN, 60. CENTER STRIPE OR BURN.

**AIRBAG ACCIDENT
AND
PERSON LEVEL FORM**

OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

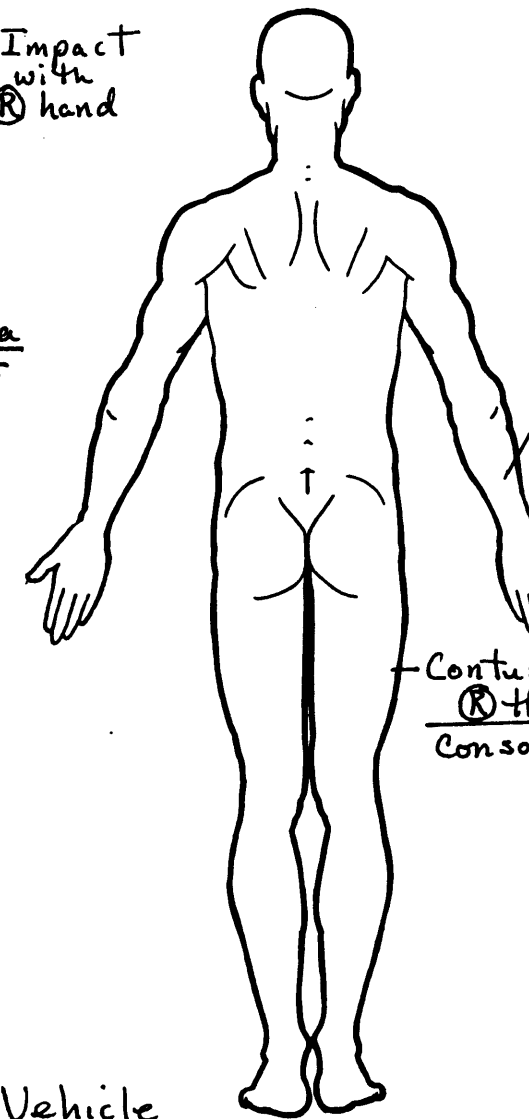
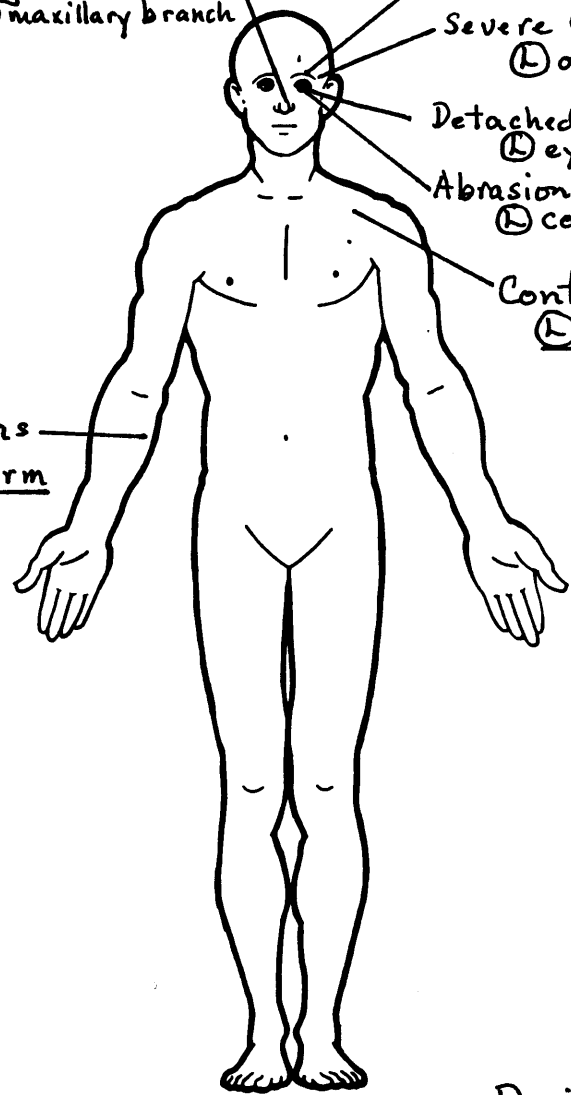
Unspecified injury
trigeminal nerve
Ⓜ maxillary branch

Laceration
Ⓜ eyebrow
Severe Contusion
Ⓜ orbit
Detached retina
Ⓜ eye
Abrasion
Ⓜ cornea

Impact with
Ⓜ hand

Contusion
Ⓜ clavicle area
Torso belt

Abrasions
Ⓜ forearm
Airbag



Driver - Airbag Vehicle
9001 AB

SOURCE OF INJURY DATA

OFFICIAL

- (1) Autopsy records with or without hospital medical records
- (2) Hospital medical records other than emergency room (eg. discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify): _____
- (9) Police

INJURY SOURCE

FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add-on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): _____

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): _____
- (25) Left side window glass or frame

(26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail

(27) Other left side object (specify): _____

RIGHT SIDE

(30) Right side interior surface, excluding hardware or armrests

(31) Right side hardware or armrest

(32) Right A pillar

(33) Right B pillar

(34) Other right pillar (specify): _____

(35) Right side window glass or frame

(36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, roof side rail

(37) Other right side object (specify): _____

INTERIOR

(40) Seat, back support

(41) Belt restraint webbing/buckle

(42) Belt restraint B-pillar attachment point

(43) Other restraint system component (specify): _____

(44) Head restraint system

(45) Air cushion

(46) Other occupants (specify): _____

(47) Interior loose objects

(48) Child safety seat (specify): _____

(49) Other interior object (specify): _____

ROOF

(50) Front header

(51) Rear header

(52) Roof left side rail

(53) Roof right side rail

(54) Roof or convertible top

FLOOR

(56) Floor including toe pan

(57) Floor or console mounted transmission lever, including console

(58) Parking brake handle

(59) Foot controls including parking brake

REAR

(60) Backlight (rear window)

(61) Backlight storage rack, door, etc.

(62) Other rear object (specify): _____

EXTERIOR OF OCCUPANT'S VEHICLE

(65) Hood

(66) Outside hardware (e.g., outside mirror, antenna)

(67) Other exterior surface or tires (specify): _____

(68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

(70) Front bumper

(71) Hood edge

(72) Other front of vehicle (specify): _____

(73) Hood

(74) Hood ornament

(75) Windshield, roof rail, A-pillar

(76) Side surface

(77) Side mirrors

(78) Other side protrusions (specify): _____

(79) Rear surface

(80) Undercarriage

(81) Tires and wheels

(82) Other exterior of other motor vehicle (specify): _____

(83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

(84) Ground

(85) Other vehicle or object (specify): _____

(86) Unknown vehicle or object

NONCONTACT INJURY

(90) Fire in vehicle

(91) Flying glass

(92) Other noncontact injury source (specify): _____

(97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

DIRECT/INDIRECT INJURY

- (1) Direct contact injury
- (2) Indirect contact injury
- (3) Noncontact injury
- (7) Injured, unknown source

OCCUPANT INJURY CLASSIFICATION

O.I.C. Body Region

- (M) Abdomen
- (Q) Ankle-foot
- (A) Arm (upper)
- (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head-skull
- (U) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck-cervical spine
- (P) Pelvic-hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body

(W) Wrist-hand

Aspect of Injury

- (A) Anterior-front
- (B) Bilateral (rib fracture only)
- (C) Central
- (I) Inferior-lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior-back
- (R) Right
- (S) Superior-upper
- (W) Whole region

Lesion

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush

(G) Detachment, separation

(D) Dislocation

(F) Fracture

(Z) Fracture and dislocation

(U) Injured, unknown lesion

(L) Laceration

(O) Other

(P) Perforation, puncture

(R) Rupture

(S) Sprain

(T) Strain

(E) Total severance, transection

System/Organ

- (W) All systems in region
- (A) Arteries-veins
- (B) Brain
- (D) Digestive
- (E) Ears
- (O) Eye
- (H) Heart
- (U) Injured, unknown system

(I) Integumentary

(J) Joints

(K) Kidneys

(L) Liver

(M) Muscles

(N) Nervous system

(P) Pulmonary-lungs

(R) Respiratory

(S) Skeletal

(C) Spinal cord

(Q) Spleen

(T) Thyroid, other endocrine gland

(G) Urogenital

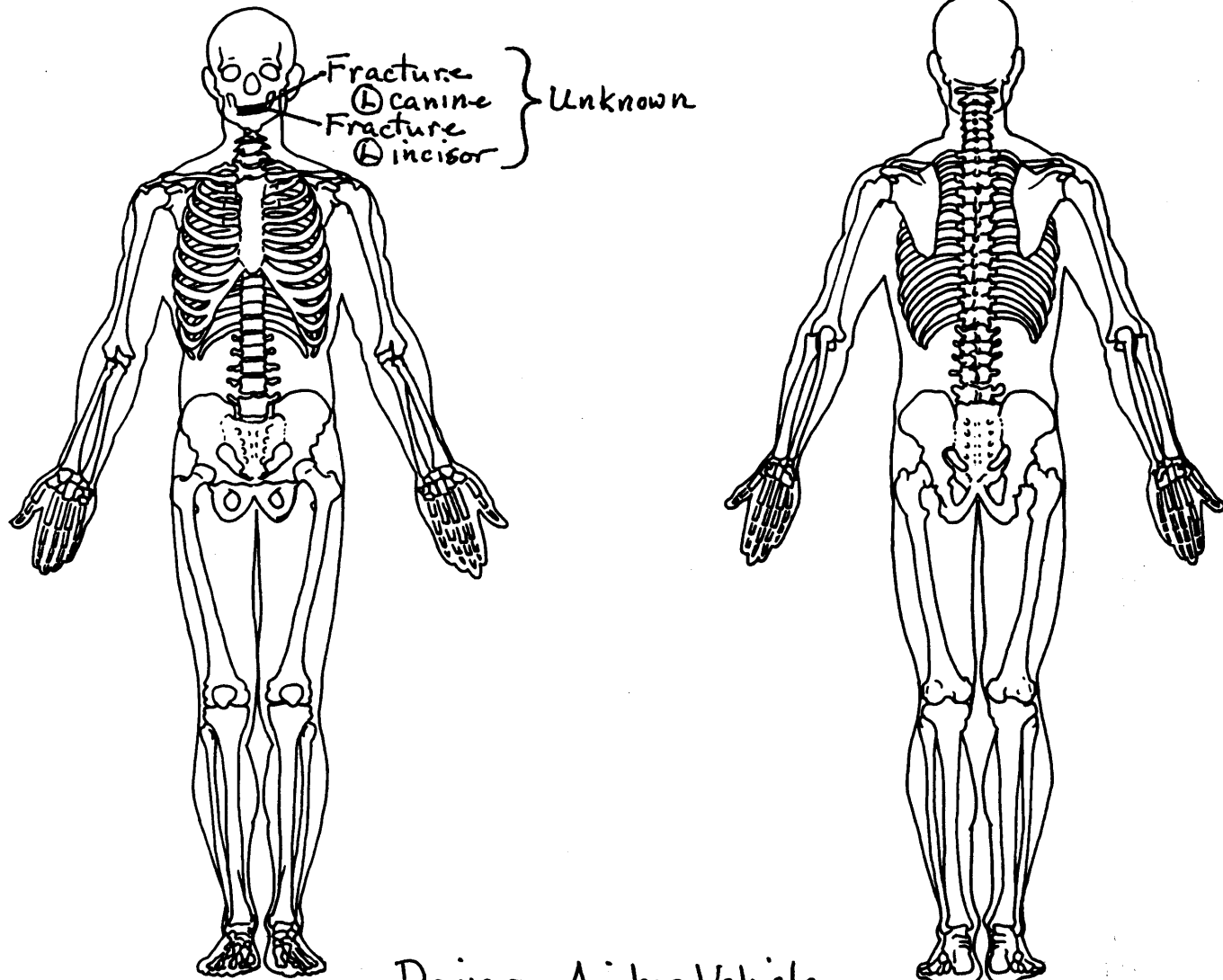
(V) Vertebrae

Abbreviated Injury Scale

- (1) Minor injury
- (2) Moderate injury
- (3) Serious injury
- (4) Severe injury
- (5) Critical injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity

OFFICIAL INJURY DATA – SKELETAL INJURIES

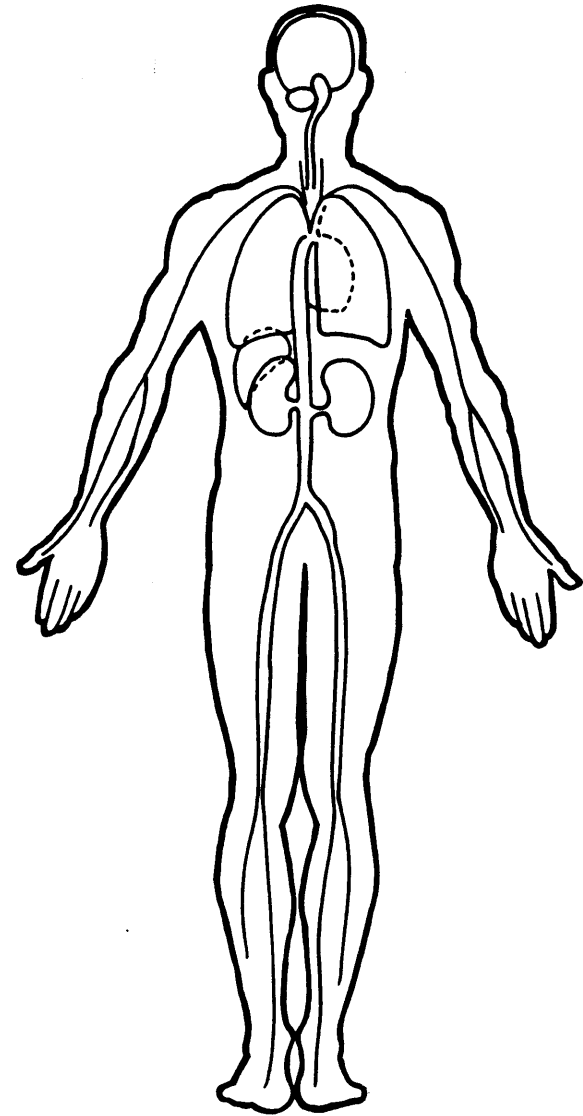
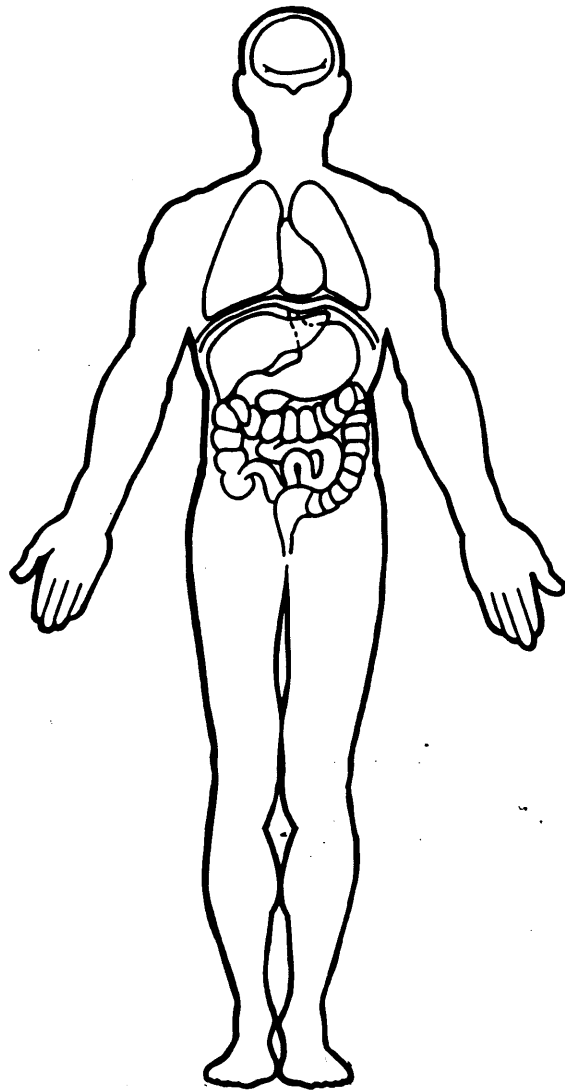
Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



Driver - Airbag Vehicle
9001AB

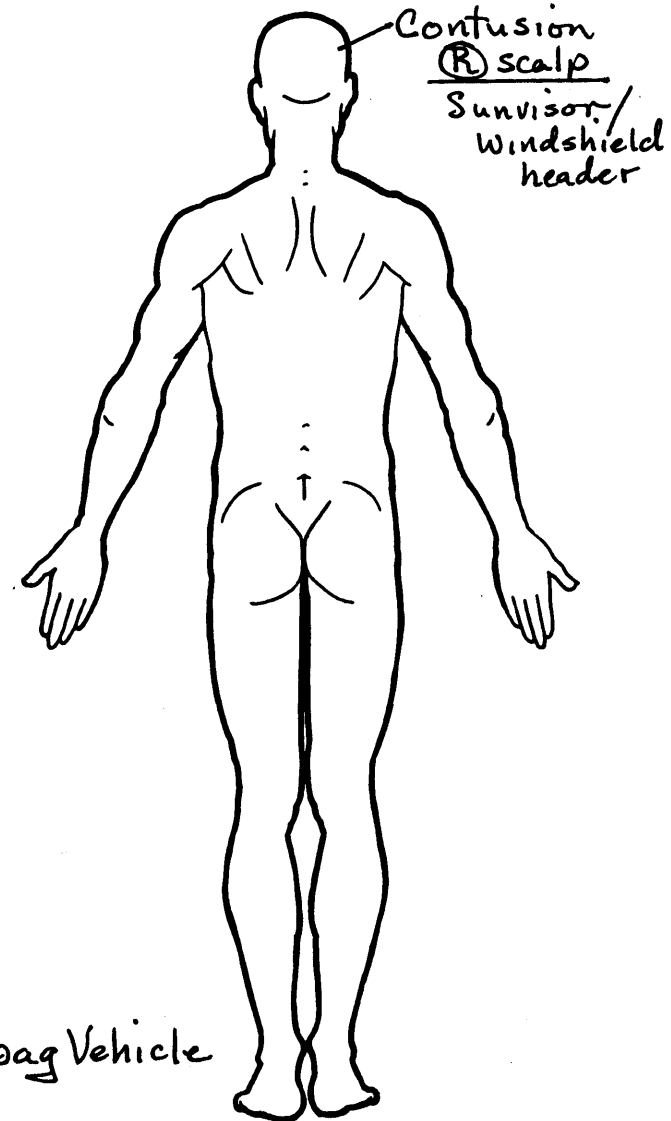
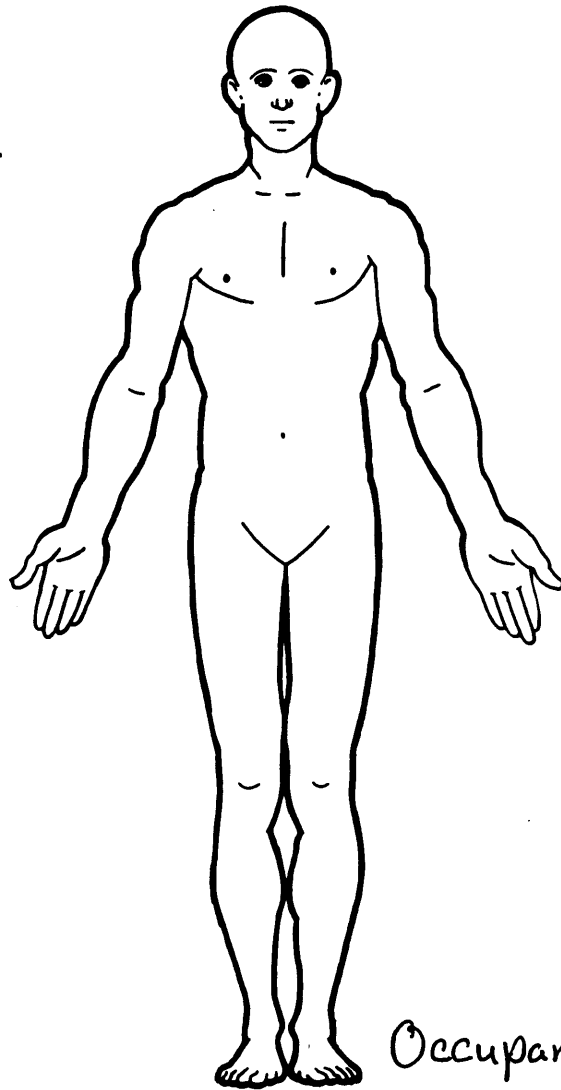
OFFICIAL INJURY DATA – INTERNAL INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



OFFICIAL INJURY DATA – SOFT TISSUE INJURIES

Indicate the *Location, Lesion, Detail* (size, depth, fracture type, head injury clinical signs and neurological deficits), and *Source* of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



Occupant Ø2 - Airbag Vehicle

9001 AB

SOURCE OF INJURY DATA

OFFICIAL

- (1) Autopsy records with or without hospital medical records
- (2) Hospital medical records other than emergency room (eg. discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify): _____
- (9) Police

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, or roof side rail
- (27) Other left side object (specify): _____

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify): _____
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A-pillar, B-pillar, roof side rail
- (37) Other right side object (specify): _____

EXTERIOR OF OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify): _____
- (68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify): _____
- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify): _____

- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify): _____

- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

- (84) Ground
- (85) Other vehicle or object (specify): _____

- (86) Unknown vehicle or object

NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify): _____
- (97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

DIRECT/INDIRECT INJURY

- (1) Direct contact injury
- (2) Indirect contact injury
- (3) Noncontact injury
- (7) Injured, unknown source

INJURY SOURCE

FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add-on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A-pillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify): _____

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B pillar
- (24) Other left pillar (specify): _____
- (25) Left side window glass or frame

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify): _____

- (44) Head restraint system
- (45) Air cushion
- (46) Other occupants (specify): _____

- (47) Interior loose objects
- (48) Child safety seat (specify): _____

- (49) Other interior object (specify): _____

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Floor or convertible top

FLOOR

- (56) Floor including toe pan
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify): _____

OCCUPANT INJURY CLASSIFICATION

O.I.C. Body Region

- | |
|---|
| (M) Abdomen |
| (Q) Ankle-foot |
| (A) Arm (upper) |
| (B) Back-thoracolumbar spine |
| (C) Chest |
| (E) Elbow |
| (F) Face |
| (R) Forearm |
| (H) Head-skull |
| (U) Injured, unknown region |
| (K) Knee |
| (L) Leg (lower) |
| (Y) Lower limb(s) (whole or unknown part) |
| (N) Neck-cervical spine |
| (P) Pelvic-hip |
| (S) Shoulder |
| (T) Thigh |
| (X) Upper limb(s) (whole or unknown part) |
| (O) Whole body |

- | |
|----------------|
| (W) Wrist-hand |
|----------------|

Aspect of Injury

- | |
|-----------------------------------|
| (A) Anterior-front |
| (B) Bilateral (rib fracture only) |
| (C) Central |
| (I) Inferior-lower |
| (U) Injured, unknown aspect |
| (L) Left |
| (P) Posterior-back |
| (R) Right |
| (S) Superior-upper |
| (W) Whole region |

Lesion

- | |
|----------------|
| (A) Abrasion |
| (M) Amputation |
| (V) Avulsion |
| (B) Burn |
| (K) Concussion |
| (C) Contusion |
| (N) Crush |

- | |
|----------------------------------|
| (G) Detachment, separation |
| (D) Dislocation |
| (F) Fracture |
| (Z) Fracture and dislocation |
| (U) Injured, unknown lesion |
| (L) Laceration |
| (O) Other |
| (P) Perforation, puncture |
| (R) Rupture |
| (S) Sprain |
| (T) Strain |
| (E) Total severance, transection |

System/Organ

- | |
|-----------------------------|
| (W) All systems in region |
| (A) Arteries-veins |
| (B) Brain |
| (D) Digestive |
| (E) Ears |
| (O) Eye |
| (H) Heart |
| (U) Injured, unknown system |

- | |
|------------------------------------|
| (I) Integumentary |
| (J) Joints |
| (K) Kidneys |
| (L) Liver |
| (M) Muscles |
| (N) Nervous system |
| (P) Pulmonary-lungs |
| (R) Respiratory |
| (S) Skeletal |
| (C) Spinal cord |
| (Q) Spleen |
| (T) Thyroid, other endocrine gland |
| (G) Urogenital |
| (V) Vertebrae |

Abbreviated Injury Scale

- | |
|-------------------------------|
| (1) Minor injury |
| (2) Moderate injury |
| (3) Serious injury |
| (4) Severe injury |
| (5) Critical injury |
| (6) Maximum (untreatable) |
| (7) Injured, unknown severity |

**MEDICAL RECORDS
FOR
DRIVER OF AIRBAG VEHICLE**

NAME: [Redacted] AGE: 20 SEX: F MEANS OF ARRIVAL: EMS DATE: [Redacted] 90
 EMERGENT URGENT NONURGENT
SPECIAL NEEDS:

TIME: 2:34 Chief Complaint: Swollen Eye
Referred by: [Redacted] Other Pertinent Data:
B/P: 120/80 P: 97 R: 20 T: 98
Treatment Areas: MED. TRAUMA ORTHO OB/GYN PEDI

Assessment: 30 y/o presents by EMS w/ proop head found on back of car. It was under of car @ stop. Head on floor. Seat belt & air bag. Swollen Right Eye. Pupil reactive to light & strength to touch.
No answer
AO's: 1 R pupil reactive to light & strength to touch

Treatment PTA:
Allergies: NKA
Skin: Normal Dry Moist Diaphoretic Turgor Normal Poor
Skin Temp.: Normal Hot Warm Cool Cold
Color: Normal Pale Flushed Jaundiced Cyanotic Ashen

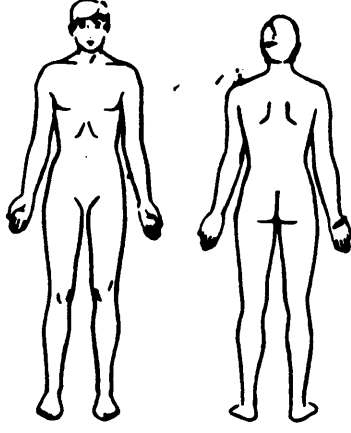
Special Needs:
LNMP: [Redacted] Preg: No Yes # wks. Confirmed Unconfirmed
WT: [Redacted] Last Tetanus: 22 yrs Immun:
PMH: None
Med: None
Informant: Pt. Other Interpreter:

Procedures: Blood drawn Urine obtained (C.C. spec.) Ice & Elevation Splint/Drug applied X-rays ordered Other:
Service/M.D. Notified: Time:
Condition after screening: Good Fair Poor Nurse Sig./Title:

Time: 2:50 To Rm. [Redacted] Stretcher Exam. by M.D. [Redacted] Exam. by Nurse [Redacted] Time: 2:55 Cond: Good Fair Pc

VITAL SIGNS

Table with columns: Time, B/P, P, R, T. Rows for recording vital signs.



- 1. _____
- 2. _____
- 3. _____

LOC (Level of Consciousness) scale: Alert, Oriented x 3, Appropriate, Inappropriate, Lethargic, Unresponsive. Alert, Oriented x 3.

RHYTHM: Apical (Regular/Irregular), PULSES: USE NUMBER (0-4), NECK VEINS, CAPILLARY REFILL, EDEMA: USE NUMBER (0-4).

RESPIRATORY: QUALITY (Unlabored, Labored, Shallow, Deep, Dyspnea), SOUNDS: USE NUMBER (1-7), COUGH: Nonproductive/Productive, SPUTUM/COLOR.

SIZE (MM) and REACTION: R - Reacts, RB - Reacts Slowly, O - No Reaction. Includes a scale of 1-9 circles.

CHARACTER: (Soft, Firm, Flat, Distended), SOUNDS: (Normal, Hyperactive, Hypoactive, Absent), Nausea, Vomiting, Diarrhea, Constipation, Time Initial Assessment, Nurse Signature.

Extremities & members tingling & N/V & blurred vision
 from (K) (+) deformities of hand & abrasion.
 Chest x-ray (+) pleural effusion, see page placed to
 S.O. of duplex C.A. (+) bowel sounds, about 2000-2500
 & pelvic tenderness, pt ready to see M.D. 0005 P.M.
 with 10 minutes. Dr. Kow apt to be in area stretch
 (00:30) M.D. from 11:45 to 11:55, extent of pleural
 effusion awaiting cytology to result of 11:15
 removed a slit lamp moved back to R. B. procedure
 performed by Dr. [redacted], last given for Dr. [redacted]
 R.C. [redacted] [redacted]

DOCTOR	TIME DR. CONTACTED A.M. <input type="checkbox"/> UNABLE TO CONTACT P.M.	PATIENT SEEN By Doctor: [redacted]	TIME PATIENT SEEN 0005 A.M.
--------	---	---------------------------------------	--------------------------------

PHYSICIAN'S ORDERS	MEDICATION AND TREATMENT	Time Given	Given By:	X R A Y	FACIAL BONES	CHEST PA & LAT	CERV. SPINE	LUMBO SACRAL SP
					SKULL COMPLETE	RIBS	DORSAL SPINE	PELVIS
						KUB	UPRIGHT ABD	HIP
					OTHER X-RAY EXAM DESIRED			
					CBC	Amylase	BUN	EKG
					Urine	SGOT	Creat.	ABG
					Blood Sugar	HCG	Alk. Phos.	ACA-9
					Theo	Carp	Chem 19	Dig.
					ETOH	Tegretol	Drug Screen	CCP

M.D. Signature: _____

Dismissed to: () FWR () Home () Other: _____
 Dismissed to: () WALK () W/C () STRETCHER _____
 Discharge Instructions to: () Patient () Other: _____
 () English () Spanish () Other: _____
 Instruction Form(s) given: _____
 Condition: () Good () Fair () Poor () Unknown

ADMIT () Admitted to: _____
 TIME: _____ () Transferred to: _____
 MEANS OF TRANSPORT: () AMB. () W/C () Stretcher () Other: _____
 Report called to: _____

Name/Title	
INTAKE	OUTPUT
TOTAL	TOTAL

R.N./L.V.N. Signature: [redacted] Date: 90

CONSENT

I HEREBY AUTHORIZE SUCH MEDICAL PROCEDURES AS ARE DEEMED NECESSARY TO BE PERFORMED ON THE BELOW PATIENT BY OR AT THE DIRECTION OF THE MEDICAL STAFF OF SOUTHWEST TEXAS METHODIST HOSPITAL OR SAN ANTONIO, TEXAS. IN CONSIDERATION FOR SERVICES RENDERED SUCH PATIENT, I PROMISE TO PAY THE SOUTHWEST TEXAS METHODIST HOSPITAL AT ITS PRINCIPAL OFFICES IN SAN ANTONIO, BEXAR COUNTY, TEXAS ALL CHARGES FOR SUCH SERVICES RENDERED AND ANY UNPAID BALANCES NOW DUE SOUTHWEST TEXAS METHODIST HOSPITAL AT THE BELOW NAMED PATIENT OR GUARANTOR.

MY USUAL S.A. AREA PHYSICIAN IS _____ I DO DO NOT REQUEST YOU CONTACT HIM

WITNESS _____ SIGNATURE _____

EMERGENCY MEDICAL RECORD
CLINICAL REPORT

CHIEF COMPLAINT AND HISTORY
 S. 30yo F down in hood on as she
 was jumping out air
 bag inflated NACOC - Pain @ face
 no neck pain

PHYSICAL FINDINGS
 BIBEMS
 C: w/duh of alert w/osp
 HEENT - unresponsive @ periorbital
 swelling, ecchymosis
 Eyes - pupil isog, equal, normal
 reaction limited ROM, no hypera
 deen 2mm lacrimation @ both
 No occlusion mandible - all
 neck - non-tender
 chest / ROS - swollen tender
 Abd non-tender / Jmx -> middle MTC's
 back / PLS, cap full, ex
 WMSI non-tender

X-RAY IMP.
 @
DIAGNOSIS
 MVA - hand contusion
 Eye contusion
 facial laceration

PHYSICIAN ORDERS	MEDICATION - TREATMENT		Time Given	Given By	FACIAL BONES SKULL COMPLETE	CHEST PA & LAT RIBS KUB	CERV. SPINE DORSAL SPINE UPRIGHT ABD	LUMBO SACRAL SP PELVIS HIP
	dt. 5ml Sub Q (2) Nel Sub Q		2:02	J				
	Aktane				OTHER	② CREDIT	① Abund.	
	Morone				CBC	Amylase	CARP	EKG
					Urine	SGOT	CCP	ABG
					PT	HCG	Alk. Phos.	Dig.
					PTT	Theo	Chem 19	
					ETOH		Drug Screen	
					OTHER			

TREATMENT
 refer [redacted]

ADMITTED TREATED & RELEASED [redacted] OR E.D. PHYSICIAN

NONE/ED/ROW

CHIEF COMPLAINT AND HISTORY

Auto accident - air bag, however struck
 (1) brow sustaining periorbital contusion

PHYSICAL FINDINGS

Vision intact
 IOP wnl (tactile pressure)
 2cm laceration (1) lateral brow
 It periorbital edema.
 Edm Iun.
 Pupil - mid. dilated, reactive.
 Subconjunctival hemorrhage / edema
 Lg. paracentral abrasion & mild corneal stromal edema
 Microscopic hyphemic. A/C deep.
 Retina grossly wnl.

EKG IMP.

X-RAY IMP.

DIAGNOSIS

- (1) Brow laceration (1)
- (2) Corneal abrasion, OS
- (3) Hyphemic, C.

PHYSICIAN ORDERS

MEDICATION - TREATMENT

Time Given Given By:

X-RAY

LAB

FACIAL BONES	CHEST PA & LAT	CERV SPINE	LUMBO SACRAL SP
SKULL COMPLETE	RIBS	DORSAL SPINE	PELVIS
	KUB	UPRIGHT ABD	HIP
OTHER			
CBC	Amylase	C-ARP	EKG
Urine	SGOT	CCP	ABG
PT	HCG	Alk. Phos.	Dig.
PTT	Theo	Chem 19	
ETOH		Drug Screen	
OTHER			

TREATMENT

Suture laceration (1) brow.
 my office

Vitamin K12

ADMITTED

TREATED & RELEASED

ATTENDING OR E.D. PHYSICIAN

IMAGING CONSULTATION

Cervical Spine - Complete
 12:25 AM

Patient Loc: ~~ER~~ *Med Beds*
 Status: I
 DOB: Sex: F
 Age: 31 Years

Requester: M.D.
 Hand - Complete - 3 Views / RIGHT / EMERGENCY ROOM
 -90 12:25 AM
 Orbits - Xray / LEFT / EMERGENCY ROOM
 -90 12:25 AM

Diagnosis:
 MVA
 History:
 SAME

Final Report

CERVICAL SPINE:

Straightening on the lateral view consistent with muscle spasm or positioning to be correlated clinically. Prevertebral soft tissues are normal and disc spaces preserved. No fractures. Odontoid view normal.

ORBITS:

No emphysema. Soft tissues normal. Orbital margins intact. There is some soft tissue haziness in the region of the left ethmoid air cells possibly manifesting sinusitis.

RIGHT HAND:

Soft tissue swelling over the dorsum but no fracture or arthritic change.

Approved by: /signed by/ Online Radiologist

Transcribed on: 9012:22 PM by
 Finalized on : 90 2:06 PM by Online Radiologist
 Attending MD :

MEDICAL RECORD COPY

M.D.

CENTRAL 30 - 2 THRESHOLD TEST

STIMULUS III, DATE, BACKGROUND 31.5 ASB NAME [REDACTED]
 LIND SP CHECK SIZE III ID [REDACTED] BIRTHDATE [REDACTED]
 VIBRATION TARGET CENTRAL DATE [REDACTED]-90 TIME [REDACTED] PM
 STRATEGY FULL THRESHOLD PUPIL DIAMETER VA [REDACTED]
 RX USED DS [REDACTED] OCK [REDACTED] DE [REDACTED]

VIBRATION LOSSES 0.25
 FALSE POS ERRORS 0.22
 FALSE NEG ERRORS 1.13
 QUESTIONS ASKED 501
 FLUCTUATION 1.49 DB

TEST TIME 00:14:01

HFA 64N 610-3819

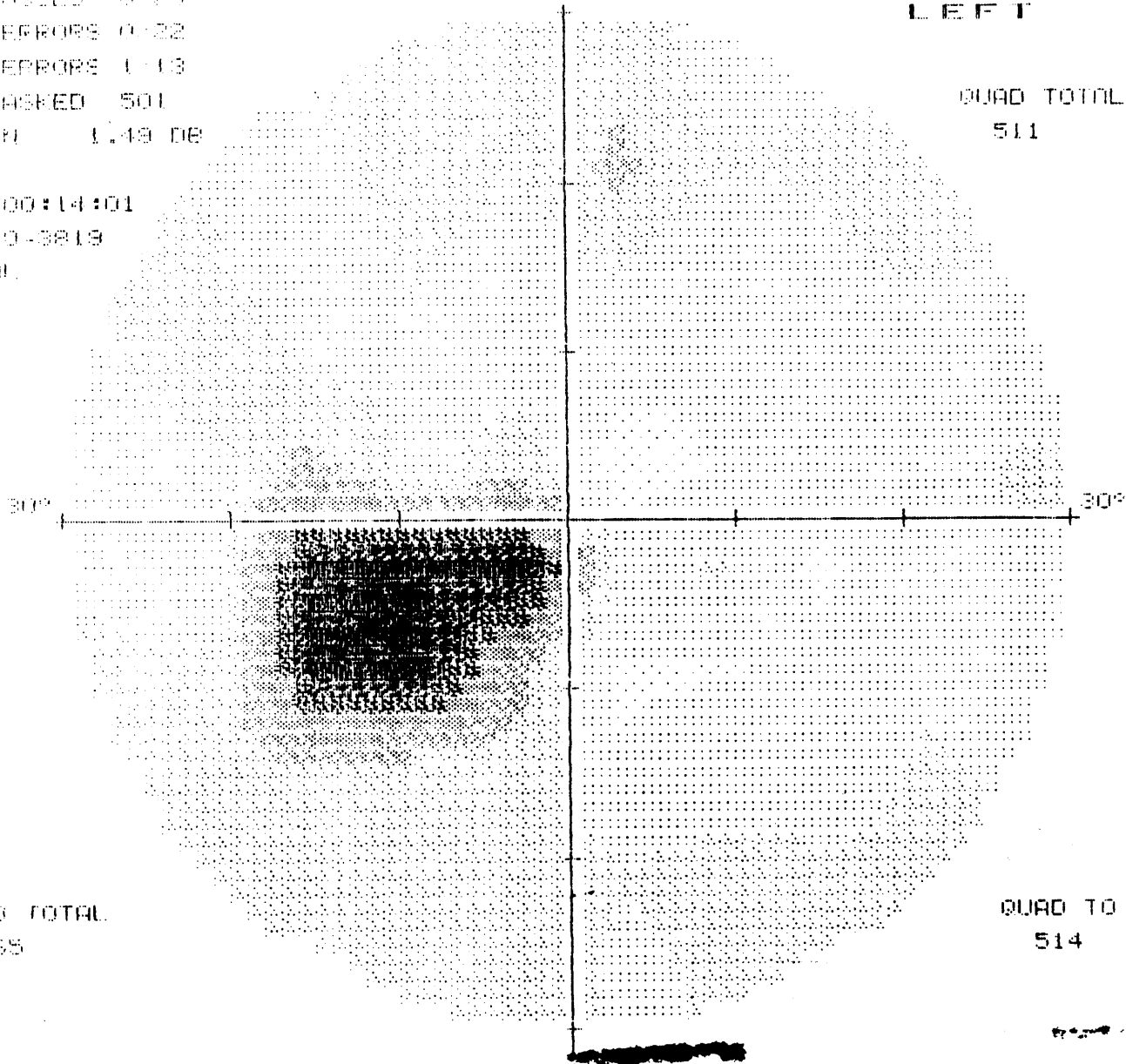
QUAD TOTAL

478

LEFT

QUAD TOTAL

511



QUAD TOTAL

365

QUAD TO

514

GRAYTONE SYMBOLS

SYN	[Symbol 1]	[Symbol 2]	[Symbol 3]	[Symbol 4]	[Symbol 5]	[Symbol 6]	[Symbol 7]	[Symbol 8]	[Symbol 9]	[Symbol 10]
ASB	.8 to .1	2.5 to .2	8 to .3	25 to .4	79 to .32	251 to 100	794 to 316	2512 to 1000	7943 to 3162	2 to 10000
DB	41 to 50	38 to 40	31 to 35	26 to 30	21 to 25	16 to 20	11 to 15	6 to 10	1 to 5	30

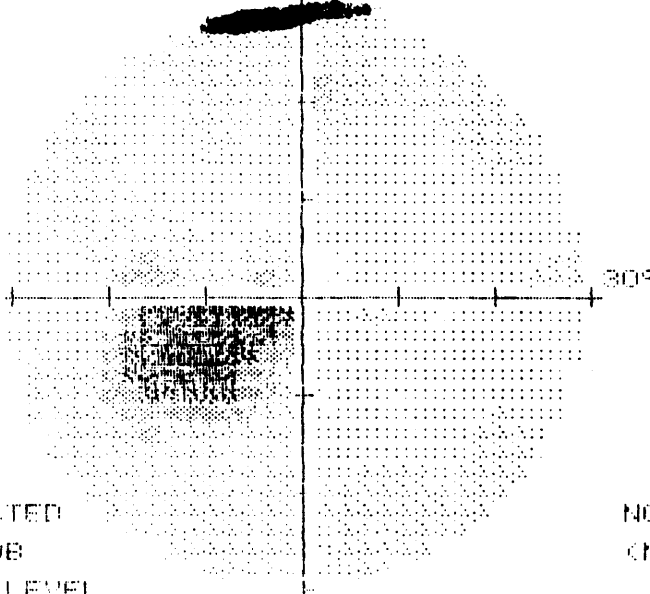
CENTRAL 30 - 2 THRESHOLD TEST

STIMULUS III, WHITE, BCKGND 31.5 A58 NAME [REDACTED]
 BLIND SPOT CHECK SIZE III ID [REDACTED] BIRTHDATE [REDACTED]
 FIXATION TARGET CENTRAL DATE [REDACTED]-90 TIME [REDACTED] PM
 STRATEGY FULL THRESHOLD PUPIL DIAMETER VA [REDACTED]
 BK USED [REDACTED] DS [REDACTED] OCM [REDACTED] DEC [REDACTED]

STATION LOSSES 0:35
 FALSE POS ERRORS 0:22
 FALSE NEG ERRORS 1:13
 QUESTIONS ASKED 501
 FLUCTUATION 1.49 DB

LEFT

TEST TIME 00:14:01 30°
 GRP S-N 610-6819



* = WITHIN 4 DB OF EXPECTED
 NO. = DEFECT DEPTH IN DB
 RE DB = CENTRAL REF LEVEL

NO. = THRESHOLD IN DB
 (NO.) = 2ND TIME

			7						
	5								
30°		11	10						30°
		29	30	32	5	6			
	6		25	30	12				
		8	5	7					
		6		6					
		6	6						

QUAD TOTAL			21	23	23	27			QUAD TOTAL
478									511
			28	22	26	19	25	25	
			25	29	25	28	25	26	25
			(25)	(25)	(27)	(28)	(31)	(31)	
			26	22	26	27	28	29	28
			(27)	(27)	(28)	(29)	(31)	(31)	
			27	27	19	29	22	33	27
30°			(17)	(17)	(22)	(22)	(22)	(27)	25
			30	28	10	10	26	25	32
			(30)	(30)	(10)	(10)	(28)	(28)	26
			22	26	10	10	31	28	26
			(24)	(24)	(10)	(20)	(28)	(28)	28
			22	22	24	22	30	27	25
			(28)	(20)	(26)	(24)	(28)	(28)	
			23	25	23	25	24	25	
QUAD TOTAL									QUAD TOTAL
335									514
			22	22	27	24			

GRAY TONE STIMULI

STIM										
A58	.6 to .1	2.5 to 1	8 to 3.2	25 to 10	79 to 32	251 to 100	794 to 316	2512 to 1000	7943 to 3162	∞ to 10000
DB	41 to 50	36 to 40	31 to 35	26 to 30	21 to 25	16 to 20	11 to 15	6 to 10	1 to 5	∞ to 10

CENTRAL 30 - 2 THRESHOLD TEST

STIMULUS III, WHITE, BACKGROUND 31.5 ASB NAME [REDACTED]
BLIND SPOT CHECK SIZE III TO BIRTHDATE [REDACTED]
LOCATION TARGET CENTRAL DATE [REDACTED] 4:50 TIME [REDACTED] 4:49 PM
STRATEGY FULL THRESHOLD PUPIL DIAMETER VA
RX USED DS DCK DEC

ADAPTATION LOSSES 0/25
FALSE POS ERRORS 0/22
FALSE NEG ERRORS 1/13
QUESTIONS ASKED 501
FLUCTUATION 1.49 DB
TEST TIME 00:14:01
HFA S/N 810-3819

LEFT

Table showing test results across various angles (30°, 0°, 30°) for both eyes. Includes 'QUAD TOTAL' and 'NO. = THRESHOLD IN DB' rows.

GRAYTONE SYMBOLS

Table of Graytone symbols used for ASB and UB tests, showing patterns and corresponding values.



CENTRAL 30 - 2 THRESHOLD TEST

STIMULUS III, WHITE, BCKGND 31.5 RSB NAME [REDACTED]
 BLIND SPOT CHECK SIZE III ID [REDACTED] BIRTHDATE [REDACTED]
 DIRECTION TARGET CENTRAL DATE [REDACTED]-90 TIME 12:48:49 PM
 STRATEGY FULL THRESHOLD PUPIL DIAMETER VA
 RX USED DS BOX DEC

FIXATION LOSSES 0/25
 FALSE POS ERRORS 0/22
 FALSE NEG ERRORS 1/13
 QUESTIONS ASKED 501
 FLUCTUATION 1.49 DB

LEFT

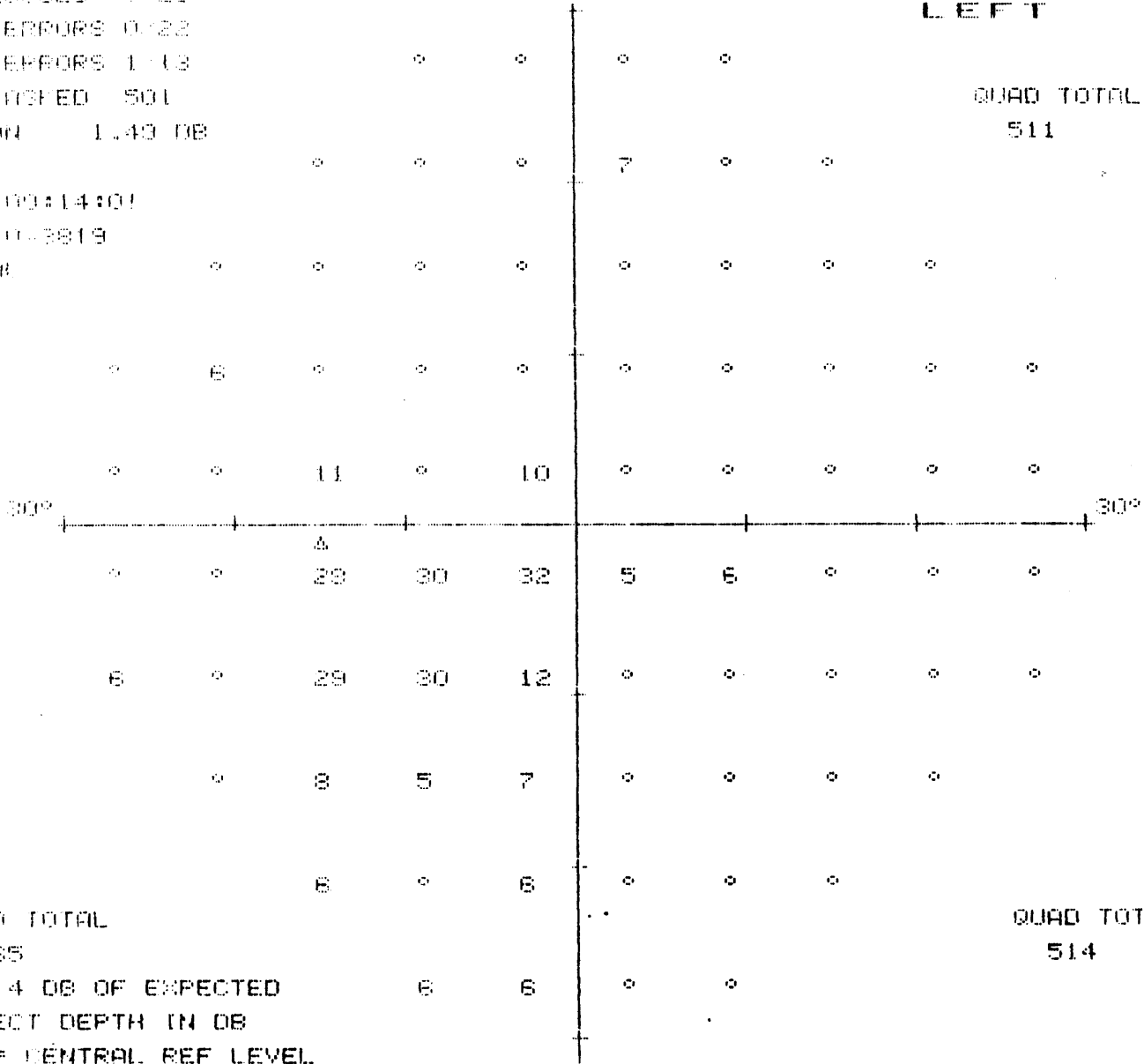
QUAD TOTAL 511

TEST TIME 09:14:01

UPN S.N. 610-3919

QUAD TOTAL

478



GRAYTONE SYMBOLS

SYN										
RSB	.8 to .1	2.5 to 1	8 to 3.2	25 to 10	79 to 32	251 to 100	794 to 316	2512 to 1000	7943 to 3162	2 to 10000
DR	41 to 50	36 to 40	31 to 35	26 to 30	21 to 25	16 to 20	11 to 15	6 to 10	1 to 5	10

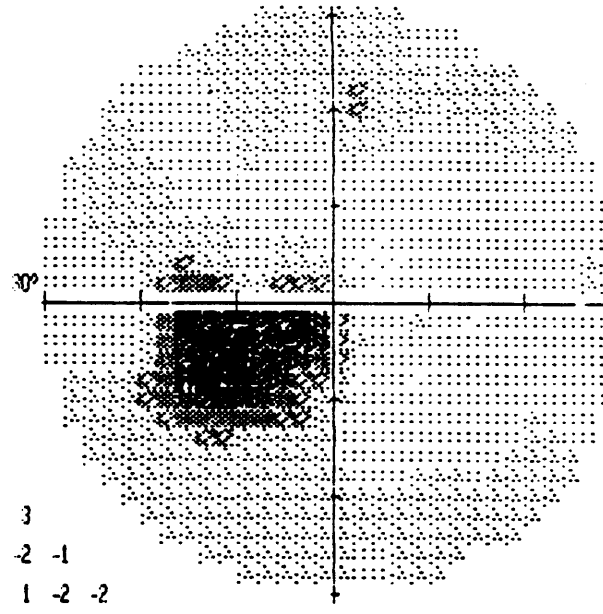
GENERAL 30 - 2 THRESHOLD TEST

PACOME [REDACTED] BIRTHDATE [REDACTED]-58 DATE [REDACTED]
 STOPPUS III, WHITE, BROWN 31.5 RB BLIND SPOT CHECK SIZE III FIXATION TARGET - CENTRAL ID TIME 12:48:49 PM
 STRATEGY FULL THRESHOLD R% USED OS DCX DEG PUPIL DIAMETER YA

LEFT

AGE 31
 FIXATION LOSSES 0-25
 FALSE POS ERRORS 0-22
 FALSE NEG ERRORS 1-19
 QUESTIONS ASKED 501
 TEST TIME 00:14:01
 REF ID 610-3813

21	23	23	27						
28	22	26	19	25	25				
25	29	25	28	25	29	26	25		
(25)	(27)	(27)	(27)	(31)	(31)				
26	22	26	27	28	29	29	30	29	27
27	27	19	28	22	33	30	27	27	25
(17)	(22)	(28)	(28)	(28)	(28)				
30	29	10	10	18	31	33	28	26	29
(30)	(30)	(10)	(20)	(29)	(29)				
22	25	10	10	18	31	33	28	26	29
(24)	(24)	(10)	(20)	(29)	(29)				
22	22	24	22	30	27	26	25		
(29)	(20)	(26)	(24)	(29)	(29)				
33	25	23	25	24	25				



-4	-2	-3	1						
0	-6	-2	-8	-3	-3				
-4	-1	-5	-2	-5	0	4	3		
-4	-8	-5	-4	-4	-3	2	-1	2	-1
-4	-4	-4	-11	0	-3	-5	3	-4	
-1	-3	-15	-26	-7	-8	0	-5	-3	
-3	-6	-34	-34	-14	2	-7	-4	-4	-1
-5	-11	-7	9	2	4	-4	-4		
-8	-6	-8	-5	-5	-4				
TOTAL	-8	-8	2	4					

-3	-1	-2	3						
2	-4	0	-8	-2	-1				
-3	1	-3	0	-4	1	-2	-2		
-2	-7	3	-3	-2	-2	-1	1	0	1
-2	-3	-3	-10	1	-1	-3	-2	-2	
0	-1	-33	-34	-5	7	1	-3	-1	
-6	-5	-32	-33	-12	0	0	-2	-3	1
-4	-3	-5	-7	0	3	-2	-3		
-6	-4	-6	-4	4	-3				
PATTERN	-6	-6	0	-3					

GLOBAL INDICES
 MD 6.72 DB P < 0.5%
 PSD 9.80 DB P < 0.5%
 SF 1.49 DB
 CPSD 9.45 DB P < 0.5%

PROBABILITY SYMBOLS
 ■ P < 5%
 □ P < 2%
 ○ P < 1%
 ● P < 0.5%

GRAYTONE SYMBOLS

SYM										
OSB	8 1	25 1	8 3.2	25 10	79 32	251 100	794 316	2512 1000	7943 3162	2 10000
	41 50	36 40	31 35	26 30	21 25	18 20	11 15	8 10	1 5	50

REV 40

CENTRAL 30 - 2 THRESHOLD TEST

STIMULUS III, WHITE, BCKGRND 31.5 ASB NAME [REDACTED]

LIND SPOT CHECK SIZE III ID [REDACTED]

BIRTHDATE [REDACTED]

FIXATION TARGET CENTRAL DATE [REDACTED]-80 TIME 12:48:49 PM

STRATEGY FULL THRESHOLD PUPIL DIAMETER VA

RX USED DS

DCX

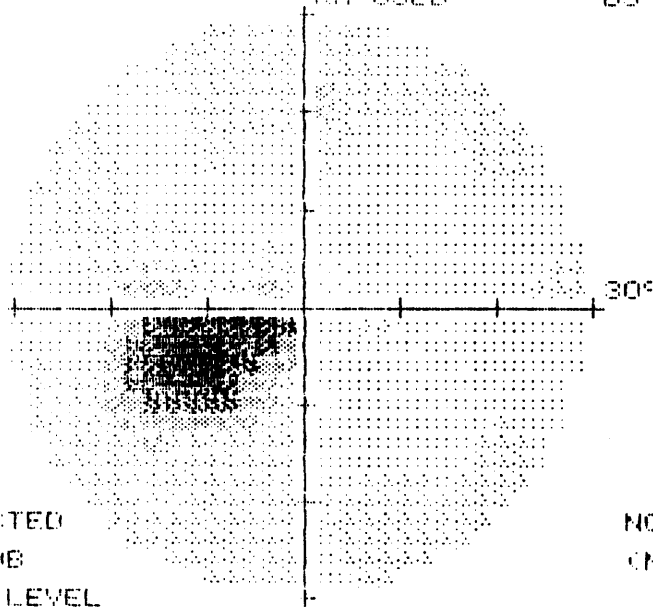
DEC

FIXATION LOSSES 0/25
 FALSE POS ERRORS 0/22
 FALSE NEG ERRORS 1/13
 QUESTIONS ASKED 501
 FLUCTUATION 1.49 DB

LEFT

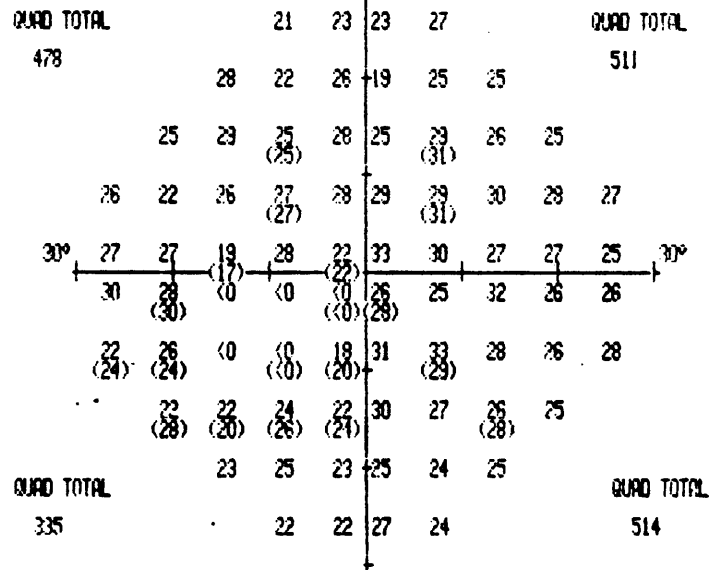
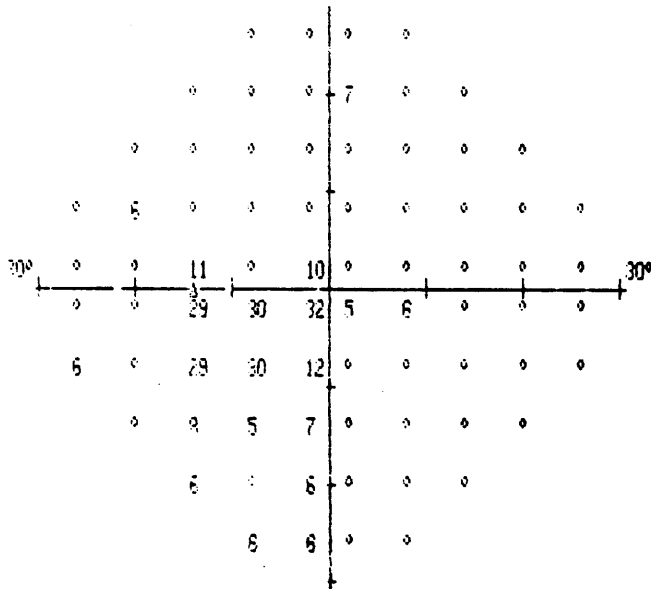
TEST TIME 00:14:01 30°

REF SN B10-3819



* = WITHIN 4 DB OF EXPECTED
 NO. = DEFECT DEPTH IN DB
 24 DB = CENTRAL REF LEVEL

NO. = THRESHOLD IN DB
 (NO.) = 2ND TIME



GRAYTONE SYMBOLS

SYN	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	
ASB	.8 to .1	2.5 to 1	8 to 3.2	25 to 10	79 to 32	251 to 100	794 to 316	2512 to 1000	7943 to 3162	2 to 10000
DB	41 to 50	36 to 40	31 to 35	26 to 30	21 to 25	16 to 20	11 to 15	6 to 10	1 to 5	10

**PHOTOGRAPHIC INDEX
AND
PHOTOGRAPHS**

PHOTOGRAPHIC INDEX

CASE NO. 9001AB

<u>Photo No.</u>	<u>Description of Subject Matter</u>
1.	Overview accident scene in direction of airbag vehicle travel
2.	View of accident scene in direction of airbag vehicle travel
3.	Point of impact against view of airbag vehicle travel
4.	Vehicle #2 path of travel
5.	Final rest position looking south
6.	Overall view of airbag vehicle
7.	Damage to airbag vehicle
8.	Damage to airbag vehicle
9.	Damage to airbag vehicle
10.	Damage to airbag vehicle
11.	Damage to airbag vehicle
12.	Damage to airbag vehicle
13.	Damage to airbag vehicle
14.	Rear view of airbag vehicle
15.	Rear view of airbag vehicle
16.	Interior of airbag vehicle
17.	Note belt stretching just above buckle
18.	Lower instrument panel
19.	Dirt or flesh transfer
20.	Airbag
21.	Note blood and tissue smear

22. Note second blood and tissue smear
23. Right side occupant position
24. Interior airbag vehicle
25. Interior airbag vehicle, note broken visor
26. Vehicle #2 exterior
27. Vehicle #2 exterior
28. Vehicle #2 exterior
29. Vehicle #2 exterior
30. Vehicle #2 exterior
31. Vehicle #2 exterior
32. Vehicle #2 exterior
33. Vehicle #2 exterior
34. Vehicle #2 exterior
35. Vehicle #2 interior
36. Vehicle #2 interior
37. Vehicle #2 interior
38. Vehicle #2 interior
39. Vehicle #2 interior

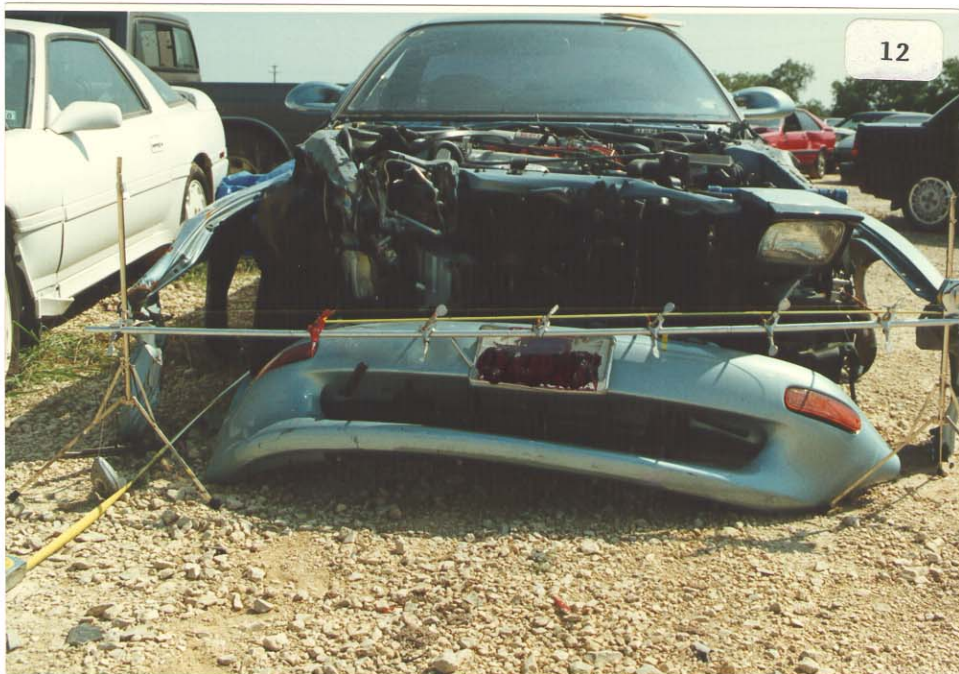


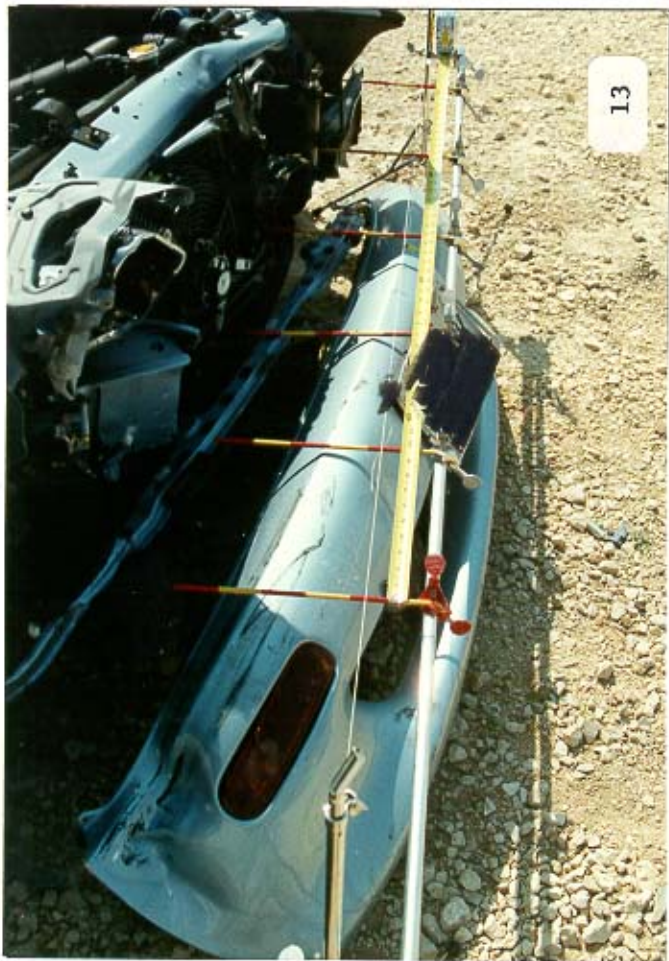












13



14



15



16





















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**SwRI AIRBAG DEPLOYMENT
INVESTIGATION
FULL SCOPE**

CASE NO. 9001AB SUPPLEMENT

FINAL REPORT

SwRI Project 06-1977
DTNH 22-87-C-37169

Prepared by:

[REDACTED]

Prepared for:

U.S. Department of Transportation
National Highway Traffic Safety Administration

[REDACTED], Texas
[REDACTED] 1990

PHOTOGRAPHIC INDEX
CASE NO. 9001AB Supplement

<u>Photo No.</u>	<u>Description of Subject Matter</u>
1.	Injuries to driver of airbag vehicle, [REDACTED] 90
2.	Injuries to driver of airbag vehicle, [REDACTED] 90
3.	Injuries to driver of airbag vehicle, [REDACTED] 90
4.	Injuries to driver of airbag vehicle, [REDACTED] 90
5.	Injuries to driver of airbag vehicle, [REDACTED] 90
6.	Injuries to driver of airbag vehicle, [REDACTED] 90

“GRAPHIC” PHOTOGRAPHS AND IMAGES

The following “GRAPHIC” Photographs and Images have been removed from this case.

Photo #1-6

If you would like a copy of these photographs and/or images please write to:

MARJORIE SACCOCCIO
VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER
55 BROADWAY
CAMBRIDGE, MA 02142

In the body of your request please include the case, photograph and image number(s).