

Crash Reports

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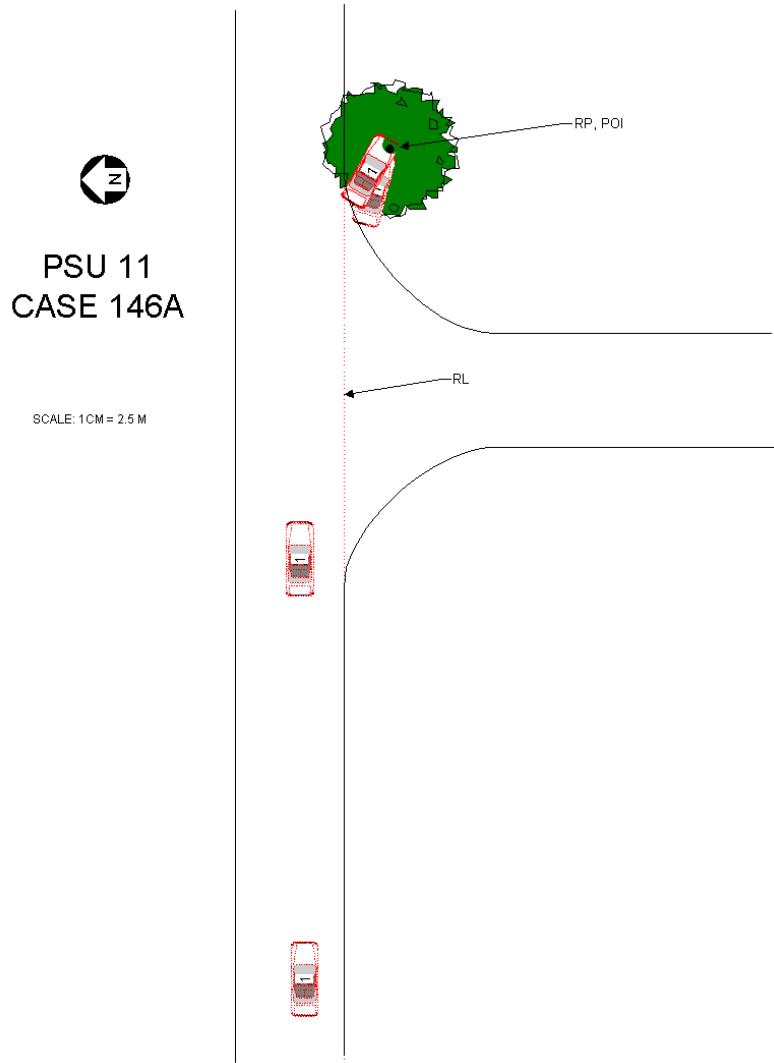
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1 Case 1997-11-146

Summary:

VEHICLE ONE WAS EASTBOUND ON A RURAL, DIRT ROADWAY. THE VEHICLE DEPARTED THE RIGHT ROADSIDE. FRONT OF VEHICLE ONE CONTACTED A 50 CM TREE. THE VEHICLE ROTATED CLOCKWISE SLIGHTLY AND CAME TO REST AGAINST THE TREE. THE VEHICLE THEN CAUGHT FIRE AND WAS SEVERELY CONSUMED BY THE FIRE. THE VEHICLE WAS TOWED. THE DRIVER WAS FATALLY INJURED.)



| Vehicle ID | Vehicle type | Make | Model | Year | Occupant's sex | Maximum known occupant AIS |
|------------|--------------|---------|---------------------------|------|--------------------|----------------------------|
| 1 | CONVERTIBLE | Pontiac | J-2000/2000/Sunbird (84+) | 1996 | 18 FEMALE-NOT PREG | 6=Maximum |

Occupant: 1997-11-146-1-1



Fire Information

| | |
|--------------------------|--------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Engine compart |
| Location of Fuel Leakage | Line/pump/filter |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, centered |
| Fuel Cap Location | Right side, behind rear axle |
| Fuel Tank Damage | No damage |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 998 |
| Total, Longitudal, and Lateral δV | 53 -47 26 |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 71 F D E W 4 |
| Damage (C1-C6) | 4 41 83 89 86 74 |
| Crush (L and D) | 135 18 |
| Object Contacted 1 | LARGE TREE |
| Object Contacted 2 | 0 |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 51.366 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 2 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | Not DIVIDED |
| Number of Travel Lanes | TWO |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | DIRT |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | ALCOHOL PRESENT |
| Alcohol Test (< 95 indicates BAC 0.xx) | 13 |

Vehicle Factors

| | |
|------------|-----------------------------------|
| Make-Model | Pontiac J-2000/2000/Sunbird (84+) |
| Year | 1996 |
| Class | PASSENGER CAR |
| Body Type | CONVERTIBLE |
| Weight | 129 |

Pre-Crash Driver Data

| | |
|-----------------------------------|------------------|
| Accident Type | 1 |
| Pre-event Movement | GOING STRAIGHT |
| Critical Pre-crash Event | OFF EDGE-RIGHT |
| Attempted Avoidance Manue- ver | 99 |
| Pre-impact Stability | 9 |
| Pre-impact Location | DEPARTED ROADWAY |

DRIVER Factors

| | | | | | |
|---------------|----|--------|-----|--------|------------------|
| Age | 18 | Height | 168 | Weight | 54 |
| Gender | | | | | FEMALE-NOT PREG |
| Ejection | | | | | No EJECTION |
| Ejection Area | | | | | No EJECTION |
| Entrapment | | | | | JAMMED DOOR/FIRE |

Restraint Factors

| | |
|--|------------------|
| Restrain | None used/avail |
| AOPS | YES-RES DET |
| Airbag Deployment | BAG DEPLOYED |
| Airbag Deployment - 1 st Seat | DR |
| PAS BAG DEPLY | |
| Airbag Deployment - Oth Seat | Not EQUIP W/ OTH |

Injuries

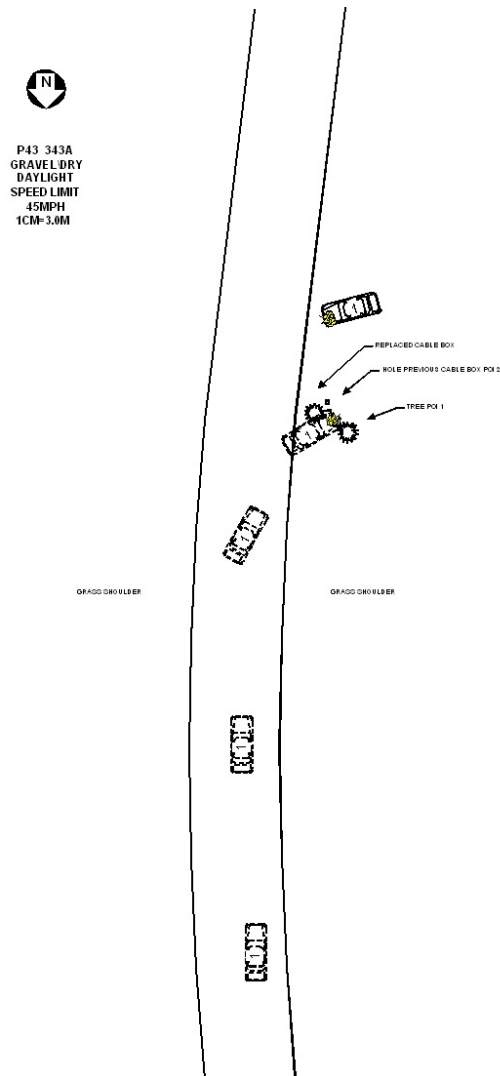
| | |
|---------------|-----------------|
| Occupant | 1997-11-146-1-1 |
| MAIS | 6=Maximum |
| Seat Position | Front left side |

| AIS Level | Injury Description | Contacts |
|-----------|--|---|
| 6=Maximum | Burn, 2nd or 3rd de- gree, >903=Serious | Inhalation injury, mi- nor (CO level<20 mg |

2 Case 2004-43-343

Summary:

Vehicle one, a 2003 Honda Civic, was traveling south on a dry, gravel, road negotiating a curve to the right. Vehicle one departed the road on the right and impacted a tree with its front plane. Vehicle one caught on fire and came to rest facing east on the south shoulder. The vehicle was towed due to damage. The driver of vehicle reported a severe injury and was transported and hospitalized. The RF occupant was entrapped in the vehicle and expired at the scene.)



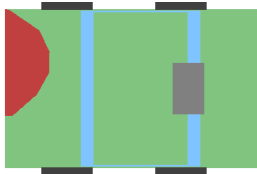
| Vehicle # | Body type | Make | Model | Year | Occ.# | Age | Occupant's sex | Maximum known occupant ais |
|-----------|------------------|-------|-----------|------|-------|-----|-----------------|----------------------------|
| 1 | 4-DR SEDAN/HDTOP | Honda | Civic/CRX | 2003 | 1 | 14 | MALE | 3=Serious |
| 1 | 4-DR SEDAN/HDTOP | Honda | Civic/CRX | 2003 | 2 | 15 | FEMALE-NOT PREG | 6=Maximum |

Occupant: 2004-43-343-1-1



Fire Information

| | |
|--------------------------|-----------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Engine compart |
| Location of Fuel Leakage | No fuel leakage |
| Type of Fuel Tank | Non-metallic |
| Fuel Tank Location | Behind rear axle, left side |
| Fuel Cap Location | Left side, behind rear axle |
| Fuel Tank Damage | No damage |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|-------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 998 |
| Total, Longitudal, and Lateral δV | 37 -37 < 0.5 KMPH |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 12 F Z E W 4 |
| Damage (C1-C6) | 12 51 69 70 54 7 |
| Crush (L and D) | 148 25 |
| Object Contacted 1 | LARGE TREE |
| Object Contacted 2 | 0 |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 40.581 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 2 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | Not DIVIDED |
| Number of Travel Lanes | TWO |
| Roadway Alignment | CURVE RIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | SLAG/GRAVL/STONE |
| Roadway Surface Condition | DRY |
| Light Conditions | DAYLIGHT |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | No ALCOHOL |
| Alcohol Test (< 95 indicates BAC 0.xx) | 96 |

Vehicle Factors

| | |
|------------|------------------|
| Make-Model | Honda Civic/CRX |
| Year | 2003 |
| Class | PASSENGER CAR |
| Body Type | 4-DR SEDAN/HDTOP |
| Weight | 257 |

Pre-Crash Driver Data

Accident Type 1
Pre-event Movement NEGOTIATE CURVE
Critical Pre-crash Event OFF EDGE-RIGHT
Attempted Avoidance Manue- 99
ver
Pre-impact Stability TRACKING
Pre-impact Location DEPARTED ROADWAY

DRIVER Factors

Age 14 Height 170 Weight 73
Gender MALE
Ejection No EJECTION
Ejection Area No EJECTION
Entrapment Not ENTRAPPED

Restraint Factors

Restrain Lap and shoulder
AOPS YES-RES DET
Airbag Deployment 9
Airbag Deployment - 1st Seat 9
Airbag Deployment - Oth Not EQUIP W/ OTH
Seat

Injuries

Occupant 2004-43-343-1-1
MAIS 3=Serious
Seat Position Front left side

| AIS Level | Injury Description | Contacts |
|------------|---|----------------|
| 2=Moderate | Awake on admission, prior unconscious, length NFS | Unknown SOURCE |
| 1=Minor | Thoracic skin abra- sion | Unknown SOURCE |
| 3=Serious | 851614 | Unknown SOURCE |
| 3=Serious | Pelvic fracture, open/displaced/comminuted | Unknown SOURCE |
| 3=Serious | Pelvic fracture, open/displaced/comminuted | Unknown SOURCE |
| 2=Moderate | Knee laceration into joint | Unknown SOURCE |

Occupant: 2004-43-343-1-2



Fire Information

| | |
|--------------------------|-----------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Engine compart |
| Location of Fuel Leakage | No fuel leakage |
| Type of Fuel Tank | Non-metallic |
| Fuel Tank Location | Behind rear axle, left side |
| Fuel Cap Location | Left side, behind rear axle |
| Fuel Tank Damage | No damage |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|-------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 998 |
| Total, Longitudal, and Lateral δV | 37 -37 < 0.5 KMPH |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 12 F Z E W 4 |
| Damage (C1-C6) | 12 51 69 70 54 7 |
| Crush (L and D) | 148 25 |
| Object Contacted 1 | LARGE TREE |
| Object Contacted 2 | 0 |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 40.581 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 2 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | Not DIVIDED |
| Number of Travel Lanes | TWO |
| Roadway Alignment | CURVE RIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | SLAG/GRAVL/STONE |
| Roadway Surface Condition | DRY |
| Light Conditions | DAYLIGHT |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | No ALCOHOL |
| Alcohol Test (< 95 indicates BAC 0.xx) | 96 |

Vehicle Factors

| | |
|------------|------------------|
| Make-Model | Honda Civic/CRX |
| Year | 2003 |
| Class | PASSENGER CAR |
| Body Type | 4-DR SEDAN/HDTOP |
| Weight | 257 |

Pre-Crash Driver Data

| | |
|-----------------------------------|------------------|
| Accident Type | 1 |
| Pre-event Movement | NEGOTIATE CURVE |
| Critical Pre-crash Event | OFF EDGE-RIGHT |
| Attempted Avoidance Manue- ver | 99 |
| Pre-impact Stability | TRACKING |
| Pre-impact Location | DEPARTED ROADWAY |

PASSENGER Factors

| | | | | | |
|---------------|----|--------|-----|--------|------------------|
| Age | 15 | Height | 152 | Weight | 41 |
| Gender | | | | | FEMALE-NOT PREG |
| Ejection | | | | | No EJECTION |
| Ejection Area | | | | | No EJECTION |
| Entrapment | | | | | JAMMED DOOR/FIRE |

Restraint Factors

| | |
|--|--------------------------|
| Restrain | Lap and shoulder |
| AOPS | YES-RES DET |
| Airbag Deployment | 9 |
| Airbag Deployment - 1 st Seat | 9 |
| Airbag Deployment - Oth Seat | Not EQUIP W/ OTH Seat |

Injuries

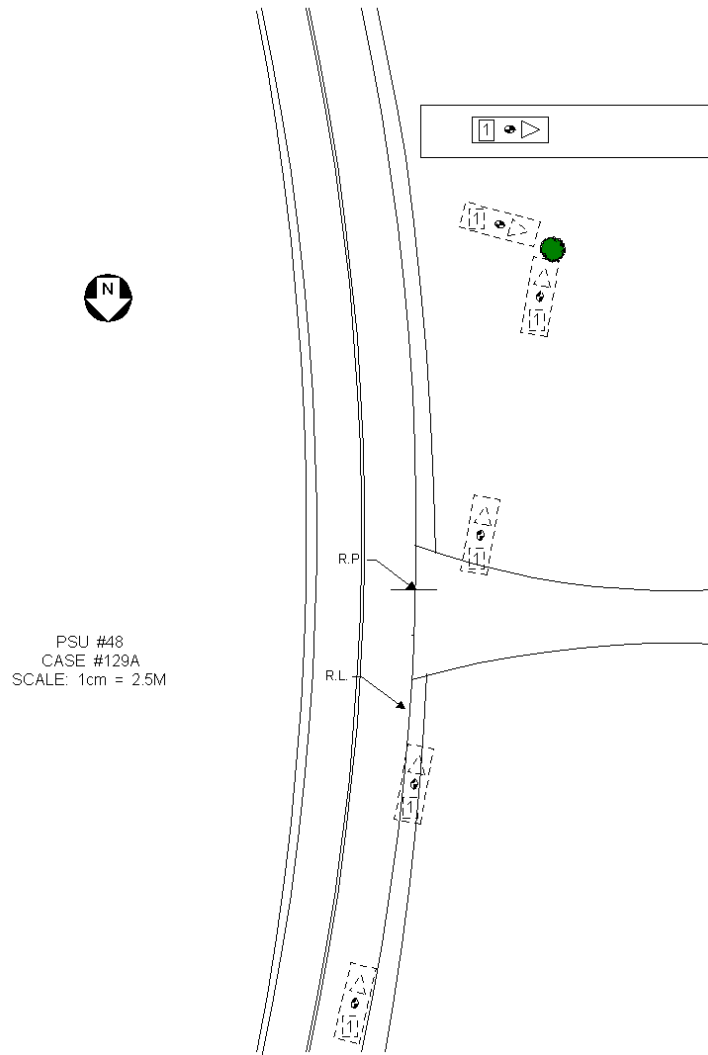
| | |
|---------------|------------------|
| Occupant | 2004-43-343-1-2 |
| MAIS | 6=Maximum |
| Seat Position | Front right side |

| AIS Level | Injury Description | Contacts |
|-----------|-----------------------------------|----------|
| 6=Maximum | Burn, 2nd or 3rd de- gree, >90 | |

3 Case 1997-48-129

Summary:

V1 WAS SOUTHBOUND ON A TWO-LANE COUNTY ROADWAY THAT CURVED TO THE LEFT. V1 TRAVELED OFF THE RIGHT SIDE OF THE ROAD AND STRUCK A LARGE TREE WITH ITS FRONTAL PLANE. V1 ROTATED CLOCKWISE VERY RAPIDLY AND SLID INTO A DITCH RUNNING EAST/WEST. V1 CAUGHT FIRE IN THE ENGINE COMPARTMENT AND BURNED COMPLETELY. THE DRIVER OF V1 WAS FATALLY INJURED AND TRANSPORTED TO THE MEDICAL EXAMINER'S OFFICE. V1 WAS TOWED FROM THE SCENE.)



| Vehicle | Body type | Make | Model | Year | Occ.# | Age | Occupant's sex | Maximum known occupant ais |
|---------|----------------|-------|--------|------|-------|-----|----------------|----------------------------|
| 1 | COMPACT PICKUP | Mazda | Pickup | 1997 | 1 | 35 | MALE | 6=Maximum |

Occupant: 1997-48-129-1-1



Fire Information

| | |
|--------------------------|---------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Engine compart |
| Location of Fuel Leakage | Tank |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, left side |
| Fuel Cap Location | Left side, forward rear axle |
| Fuel Tank Damage | Other damage |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|-------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 998 |
| Total, Longitudal, and Lateral δV | 71 -70 -12 |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 72 F D E W 5 |
| Damage (C1-C6) | 0 24 50 76 98 103 |
| Crush (L and D) | 160 43 |
| Object Contacted 1 | LARGE TREE |
| Object Contacted 2 | DITCH/CULVERT |

NASS Weighting Factor

| | |
|------------------|---------|
| Weighting factor | 298.291 |
|------------------|---------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 3 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | Not DIVIDED |
| Number of Travel Lanes | TWO |
| Roadway Alignment | CURVE LEFT |
| Roadway Profile | DOWNHILL GRADE |
| Roadway Surface Type | ASPHALT |
| Roadway Surface Condition | DRY |
| Light Conditions | DAYLIGHT |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | 9 |
| Alcohol Test (< 95 indicates BAC 0.xx) | 0 |

Vehicle Factors

| | |
|------------|----------------|
| Make-Model | Mazda Pickup |
| Year | 1997 |
| Class | TRUCK |
| Body Type | COMPACT PICKUP |
| Weight | 152 |

Pre-Crash Driver Data

| | |
|-----------------------------------|------------------|
| Accident Type | 1 |
| Pre-event Movement | NEGOTIATE CURVE |
| Critical Pre-crash Event | OFF EDGE-RIGHT |
| Attempted Avoidance Manue- ver | 99 |
| Pre-impact Stability | 9 |
| Pre-impact Location | DEPARTED ROADWAY |

DRIVER Factors

| | | | | | |
|---------------|----|--------|-------------|--------|----|
| Age | 35 | Height | 175 | Weight | 77 |
| Gender | | | MALE | | |
| Ejection | | | No EJECTION | | |
| Ejection Area | | | No EJECTION | | |
| Entrapment | | | ENTRAPPED | | |

Restraint Factors

| | |
|--|--------------------------|
| Restrain | 99 |
| AOPS | YES-RES DET |
| Airbag Deployment | 9 |
| Airbag Deployment - 1 st Seat | 9 |
| Airbag Deployment - Oth Seat | Not EQUIP W/ OTH Seat |

Injuries

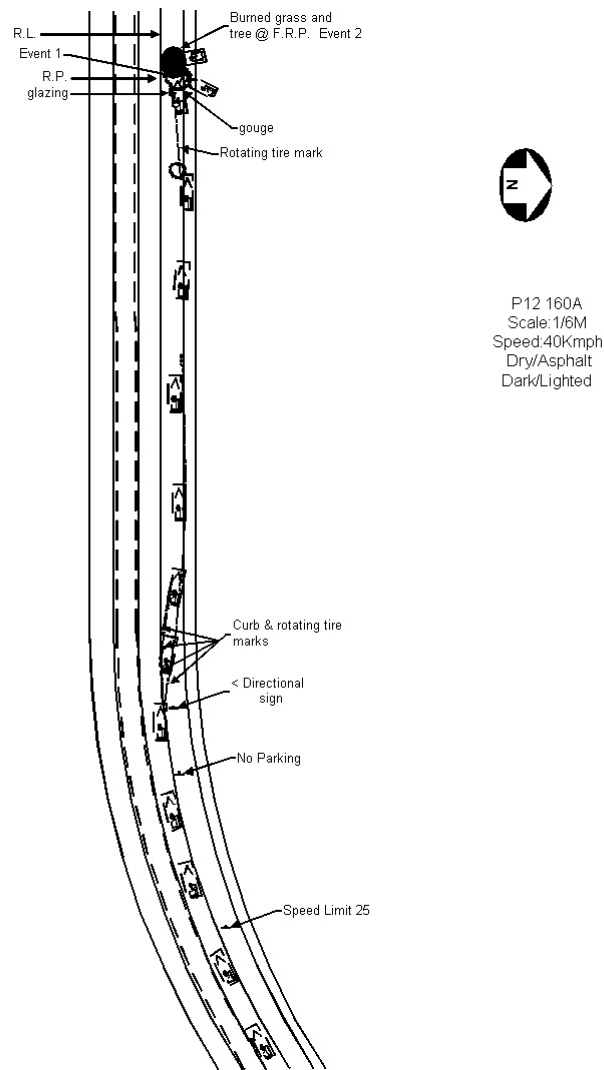
| | |
|---------------|-----------------|
| Occupant | 1997-48-129-1-1 |
| MAIS | 6=Maximum |
| Seat Position | Front left side |

| AIS Level | Injury Description | Contacts |
|-----------|---|---|
| 6=Maximum | Burn, 2nd or 3rd de- gree, >904=Severe | Inhalation injury, mod- erate (CO level 20-40 mg) |

4 Case 2005-12-160

Summary:

Vehicle 1, a 2004 GMC Sierra truck, was traveling westbound on a 3 lane, 2 way, asphalt roadway. Environmental conditions were dry, with clear skies and the roadway was illuminated by street lights. The roadway was straight in a residential area and abruptly curved to the left. The driver maintained a straight path of travel leaving the roadway to the right. The vehicle mounted a curb and traversed onto grass and a sidewalk before coming into contact with a tree to the frontal plane. Spinning counterclockwise around the tree, the position of the vehicle at final rest was at the edge of the roadway, under the tree where it burst into flames and burned the engine and cab. Occupant 2 was able to exit the vehicle, but occupant 1 was entrapped by the instrument panel and floor and was unable to be extricated before succumbing to injuries. The vehicle was towed from the scene. Occupant 2 was transported to a local trauma facility for treatment. Occupant 1 was removed from the vehicle and transported to a medical examiners facility out of the county.)



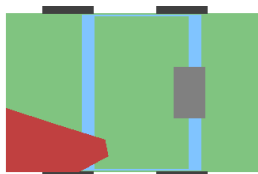
| Vehicle | Body type | Make | Model | Year | Occ.# | Age | Occupant's sex | Maximum known occupant ais |
|---------|--------------|------|--------------------|------|-------|-----|----------------|----------------------------|
| 1 | LARGE PICKUP | GMC | C,K,R,V-series P/U | 2004 | 1 | 21 | MALE | 6=Maximum |
| 1 | LARGE PICKUP | GMC | C,K,R,V-series P/U | 2004 | 2 | 23 | MALE | 3=Serious |

Occupant: 2005-12-160-1-1



Fire Information

| | |
|--------------------------|---------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Engine compart |
| Location of Fuel Leakage | No fuel leakage |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, left side |
| Fuel Cap Location | Left side, forward rear axle |
| Fuel Tank Damage | No damage |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|--------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 998 |
| Total, Longitudal, and Lateral δV | 93 -93 < 0.5 KMPH |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 92 F L A E 7 |
| Damage (C1-C6) | 116 162 157 77 0 0 |
| Crush (L and D) | 180 -52 |
| Object Contacted 1 | LARGE TREE |
| Object Contacted 2 | 0 |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 25.574 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 2 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | Not DIVIDED |
| Number of Travel Lanes | THREE |
| Roadway Alignment | CURVE LEFT |
| Roadway Profile | DOWNHILL GRADE |
| Roadway Surface Type | ASPHALT |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK/LIGHTED |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | ALCOHOL PRESENT |
| Alcohol Test (< 95 indicates BAC 0.xx) | 99 |

Vehicle Factors

| | |
|------------|------------------------|
| Make-Model | GMC C,K,R,V-series P/U |
| Year | 2004 |
| Class | TRUCK |
| Body Type | LARGE PICKUP |
| Weight | 215 |

Pre-Crash Driver Data

Accident Type 1
Pre-event Movement GOING STRAIGHT
Critical Pre-crash Event OFF EDGE-RIGHT
Attempted Avoidance Manue- No AVOIDANCE
ver
Pre-impact Stability TRACKING
Pre-impact Location DEPARTED ROADWAY

AIS Level

6=Maximum

DRIVER Factors

Age 21 Height 160 Weight 70
Gender MALE
Ejection No EJECTION
Ejection Area No EJECTION
Entrapment ENTRAPPED

Restraint Factors

Restrain 99
AOPS YES-RES DET
Airbag Deployment BAG DEPLOYED
Airbag Deployment - 1st Seat DR
PAS BAG DEPLY
Airbag Deployment - Oth Not EQUIP W/ OTH
Seat

Vena cava laceration, major (complete transect or EBL>205=Critical)

Injuries

Occupant 2005-12-160-1-1
MAIS 6=Maximum
Seat Position Front left side

2=Moderate

Unknown SOURCE
1=Minor

2=Moderate
2=Moderate

Occupant: 2005-12-160-1-2



Fire Information

| | |
|--------------------------|---------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Engine compart |
| Location of Fuel Leakage | No fuel leakage |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, left side |
| Fuel Cap Location | Left side, forward rear axle |
| Fuel Tank Damage | No damage |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|--------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 998 |
| Total, Longitudal, and Lateral δV | 93 -93 < 0.5 KMPH |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 92 F L A E 7 |
| Damage (C1-C6) | 116 162 157 77 0 0 |
| Crush (L and D) | 180 -52 |
| Object Contacted 1 | LARGE TREE |
| Object Contacted 2 | 0 |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 25.574 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 2 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | Not DIVIDED |
| Number of Travel Lanes | THREE |
| Roadway Alignment | CURVE LEFT |
| Roadway Profile | DOWNHILL GRADE |
| Roadway Surface Type | ASPHALT |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK/LIGHTED |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | ALCOHOL PRESENT |
| Alcohol Test (< 95 indicates BAC 0.xx) | 99 |

Vehicle Factors

| | |
|------------|------------------------|
| Make-Model | GMC C,K,R,V-series P/U |
| Year | 2004 |
| Class | TRUCK |
| Body Type | LARGE PICKUP |
| Weight | 215 |

Pre-Crash Driver Data

Accident Type 1
Pre-event Movement GOING STRAIGHT
Critical Pre-crash Event OFF EDGE-RIGHT
Attempted Avoidance Manue- No AVOIDANCE
ver
Pre-impact Stability TRACKING
Pre-impact Location DEPARTED ROADWAY

PASSENGER Factors

Age 23 Height 173 Weight 88
Gender MALE
Ejection No EJECTION
Ejection Area No EJECTION
Entrapment Not ENTRAPPED

Restraint Factors

Restrain 99
AOPS YES-RES DET
Airbag Deployment BAG DEPLOYED
Airbag Deployment - 1st Seat DR
PAS BAG DEPLY
Airbag Deployment - Oth Not EQUIP W/ OTH
Seat

Injuries

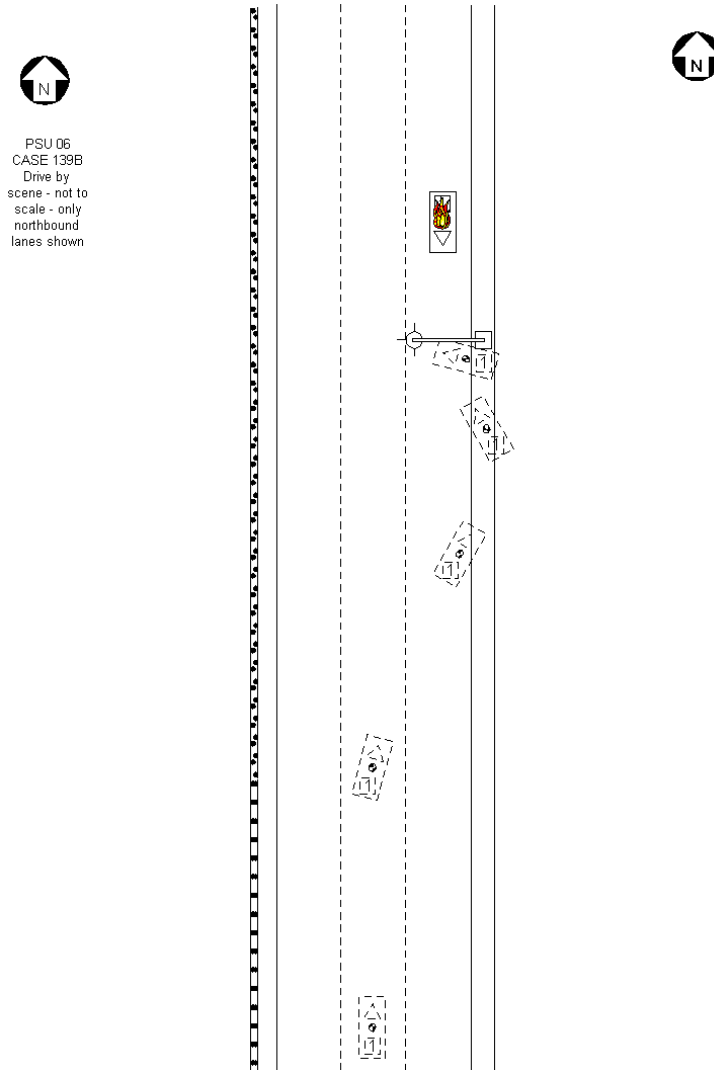
Occupant 2005-12-160-1-2
MAIS 3=Serious
Seat Position Front right side

| AIS Level | Injury Description | Contacts |
|------------------|---|-----------------|
| 2=Moderate | Metatarsal or tarsal fracture | Floor |
| 3=Serious | Lung contusion, uni-lateral | Unknown SOURCE |
| 2=Moderate | Lumbar fracture of transverse process without cord injury | Unknown SOURCE |
| 1=Minor | Leg skin laceration, minor | Right panel |
| 2=Moderate | Metatarsal or tarsal fracture | Floor |
| 1=Minor | Upper extremity skin abrasion | Unknown SOURCE |
| 1=Minor | Scalp laceration, minor | Unknown SOURCE |

5 Case 1998-6-139

Summary:

V1 was travelling north on a three-lane (northbound) divided interstate highway. V1 struck a concrete traffic barrier (jersey style) with its front plane. V1 rode up onto the barrier, damaging the underside of the vehicle and puncturing the fuel tank. V1 then struck a light pole that was mounted on the barrier. V1 then returned to the roadway, came to rest facing south, and caught fire. The driver was unable to exit the vehicle before it became fully engulfed in flames, and was killed by the fire. One other occupant suffered a moderate injury, two other occupants suffered minor injuries. The vehicle required towing.)



| Vehicle | Body type | Make | Model | Year | Occ.# | Age | Occupant's sex | Maximum known occupant ais |
|---------|------------------|---------|-------|------|-------|-----|-----------------|----------------------------|
| 1 | 4-DR SEDAN/HDTOP | Hyundai | Excel | 1989 | 1 | 18 | FEMALE-NOT PREG | 6=Maximum |
| 1 | 4-DR SEDAN/HDTOP | Hyundai | Excel | 1989 | 2 | 15 | FEMALE-NOT PREG | 3=Serious |
| 1 | 4-DR SEDAN/HDTOP | Hyundai | Excel | 1989 | 3 | 14 | MALE | 1=Minor |
| 1 | 4-DR SEDAN/HDTOP | Hyundai | Excel | 1989 | 4 | 17 | MALE | 1=Minor |

Occupant: 1998-6-139-1-1



Fire Information

| | |
|--------------------------|--------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Fuel tank |
| Location of Fuel Leakage | Tank |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, centered |
| Fuel Cap Location | Left side, behind rear axle |
| Fuel Tank Damage | Punctured |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 998 |
| Total, Longitudal, and Lateral δV | 25 -19 -16 |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 1 F D E W 3 |
| Damage (C1-C6) | 2 10 21 31 40 54 |
| Crush (L and D) | 138 0 |
| Object Contacted 1 | CONCRETE BARRIER |
| Object Contacted 2 | MEDIUM POLE |

NASS Weighting Factor

| | |
|------------------|-------|
| Weighting factor | 8.524 |
|------------------|-------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 4 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | DVDED/W/BARRIER |
| Number of Travel Lanes | THREE |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | CONCRETE |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK/LIGHTED |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | 9 |
| Alcohol Test (< 95 indicates BAC 0.xx) | 20 |

Vehicle Factors

| | |
|------------|------------------|
| Make-Model | Hyundai Excel |
| Year | 1989 |
| Class | PASSENGER CAR |
| Body Type | 4-DR SEDAN/HDTOP |
| Weight | 98 |

Pre-Crash Driver Data

| | |
|-----------------------------------|------------------|
| Accident Type | 1 |
| Pre-event Movement | GOING STRAIGHT |
| Critical Pre-crash Event | OVER LINE-RIGHT |
| Attempted Avoidance Manue- ver | 99 |
| Pre-impact Stability | 9 |
| Pre-impact Location | DEPARTED ROADWAY |

DRIVER Factors

| | | | | | |
|---------------|----|--------|-----|--------|------------------|
| Age | 18 | Height | 157 | Weight | 54 |
| Gender | | | | | FEMALE-NOT PREG |
| Ejection | | | | | No EJECTION |
| Ejection Area | | | | | No EJECTION |
| Entrapment | | | | | JAMMED DOOR/FIRE |

Restraint Factors

| | |
|--|--------------------------|
| Restrain | None used/avail |
| AOPS | NO |
| Airbag Deployment | Not EQUIP/AVAIL |
| Airbag Deployment - 1 st Seat | Not EQUIP/AVAIL |
| Airbag Deployment - Oth Seat | Not EQUIP W/ OTH Seat |

Injuries

| | |
|---------------|-----------------|
| Occupant | 1998-6-139-1-1 |
| MAIS | 6=Maximum |
| Seat Position | Front left side |

| AIS Level | Injury Description | Contacts |
|-----------|--|---|
| 6=Maximum | Burn, 2nd or 3rd de- gree, >903=Serious | Inhalation injury, mi- nor (CO level<20 mg |

Occupant: 1998-6-139-1-2



Fire Information

| | |
|--------------------------|--------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Fuel tank |
| Location of Fuel Leakage | Tank |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, centered |
| Fuel Cap Location | Left side, behind rear axle |
| Fuel Tank Damage | Punctured |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 998 |
| Total, Longitudal, and Lateral δV | 25 -19 -16 |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 1 F D E W 3 |
| Damage (C1-C6) | 2 10 21 31 40 54 |
| Crush (L and D) | 138 0 |
| Object Contacted 1 | CONCRETE BARRIER |
| Object Contacted 2 | MEDIUM POLE |

NASS Weighting Factor

| | |
|------------------|-------|
| Weighting factor | 8.524 |
|------------------|-------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 4 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | DVDED/W/BARRIER |
| Number of Travel Lanes | THREE |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | CONCRETE |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK/LIGHTED |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | 9 |
| Alcohol Test (< 95 indicates BAC 0.xx) | 20 |

Vehicle Factors

| | |
|------------|------------------|
| Make-Model | Hyundai Excel |
| Year | 1989 |
| Class | PASSENGER CAR |
| Body Type | 4-DR SEDAN/HDTOP |
| Weight | 98 |

Pre-Crash Driver Data

| | |
|-----------------------------------|------------------|
| Accident Type | 1 |
| Pre-event Movement | GOING STRAIGHT |
| Critical Pre-crash Event | OVER LINE-RIGHT |
| Attempted Avoidance Manue- ver | 99 |
| Pre-impact Stability | 9 |
| Pre-impact Location | DEPARTED ROADWAY |

PASSENGER Factors

| | | | | | |
|---------------|----|--------|-----|--------|-----------------|
| Age | 15 | Height | 157 | Weight | 54 |
| Gender | | | | | FEMALE-NOT PREG |
| Ejection | | | | | No EJECTION |
| Ejection Area | | | | | No EJECTION |
| Entrapment | | | | | Not ENTRAPPED |

Restraint Factors

| | |
|--|--------------------------|
| Restrain | None used/avail |
| AOPS | NO |
| Airbag Deployment | Not EQUIP/AVAIL |
| Airbag Deployment - 1 st Seat | Not EQUIP/AVAIL |
| Airbag Deployment - Oth Seat | Not EQUIP W/ OTH Seat |

Injuries

| | |
|---------------|------------------|
| Occupant | 1998-6-139-1-2 |
| MAIS | 3=Serious |
| Seat Position | Front right side |

| AIS Level | Injury Description | Contacts |
|------------|---|-----------------|
| 1=Minor | Facial skin laceration, minor | Unknown SOURCE |
| 1=Minor | 297402 | Unknown SOURCE |
| 1=Minor | 297402 | Unknown SOURCE |
| 3=Serious | Maxillary fracture, LeFort III | Unknown SOURCE |
| 3=Serious | Skull fracture, vault, comminuted (com- pound, depressed) | Unknown SOURCE |
| 1=Minor | Mandible body frac- ture, closed, +/- ra- mus involvement | Unknown SOURCE |
| 1=Minor | Leg skin contusion (hematoma) | Unknown SOURCE |
| 1=Minor | Corneal contusion (in- cludes hyphema) | Unknown SOURCE |
| 1=Minor | Conjunctiva injury | Unknown SOURCE |
| 2=Moderate | Alveolar ridge fracture +/- tooth injury | Unknown SOURCE |
| 1=Minor | Facial skin laceration NFS | Unknown SOURCE |
| 1=Minor | Burn degree un- known, body area unknown | Fire in vehicle |

Occupant: 1998-6-139-1-3



Fire Information

| | |
|--------------------------|--------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Fuel tank |
| Location of Fuel Leakage | Tank |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, centered |
| Fuel Cap Location | Left side, behind rear axle |
| Fuel Tank Damage | Punctured |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 998 |
| Total, Longitudal, and Lateral δV | 25 -19 -16 |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 1 F D E W 3 |
| Damage (C1-C6) | 2 10 21 31 40 54 |
| Crush (L and D) | 138 0 |
| Object Contacted 1 | CONCRETE BARRIER |
| Object Contacted 2 | MEDIUM POLE |

NASS Weighting Factor

| | |
|------------------|-------|
| Weighting factor | 8.524 |
|------------------|-------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 4 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | DVDED/W/BARRIER |
| Number of Travel Lanes | THREE |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | CONCRETE |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK/LIGHTED |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | 9 |
| Alcohol Test (< 95 indicates BAC 0.xx) | 20 |

Vehicle Factors

| | |
|------------|------------------|
| Make-Model | Hyundai Excel |
| Year | 1989 |
| Class | PASSENGER CAR |
| Body Type | 4-DR SEDAN/HDTOP |
| Weight | 98 |

Pre-Crash Driver Data

| | |
|-----------------------------------|------------------|
| Accident Type | 1 |
| Pre-event Movement | GOING STRAIGHT |
| Critical Pre-crash Event | OVER LINE-RIGHT |
| Attempted Avoidance Manue- ver | 99 |
| Pre-impact Stability | 9 |
| Pre-impact Location | DEPARTED ROADWAY |

PASSENGER Factors

| | | | | | |
|---------------|----|--------|---------------|--------|----|
| Age | 14 | Height | 155 | Weight | 39 |
| Gender | | | MALE | | |
| Ejection | | | No EJECTION | | |
| Ejection Area | | | No EJECTION | | |
| Entrapment | | | Not ENTRAPPED | | |

Restraint Factors

| | |
|--|--------------------------|
| Restrain | None used/avail |
| AOPS | NO |
| Airbag Deployment | Not EQUIP/AVAIL |
| Airbag Deployment - 1 st Seat | Not EQUIP/AVAIL |
| Airbag Deployment - Oth Seat | Not EQUIP W/ OTH Seat |

Injuries

| | |
|---------------|----------------|
| Occupant | 1998-6-139-1-3 |
| MAIS | 1=Minor |
| Seat Position | Second left |

| AIS Level | Injury Description | Contacts |
|------------------|---------------------------|-----------------|
| 1=Minor | Ankle joint sprain | Seat, back |

Occupant: 1998-6-139-1-4



Fire Information

| | |
|--------------------------|--------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Fuel tank |
| Location of Fuel Leakage | Tank |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, centered |
| Fuel Cap Location | Left side, behind rear axle |
| Fuel Tank Damage | Punctured |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 998 |
| Total, Longitudal, and Lateral δV | 25 -19 -16 |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 1 F D E W 3 |
| Damage (C1-C6) | 2 10 21 31 40 54 |
| Crush (L and D) | 138 0 |
| Object Contacted 1 | CONCRETE BARRIER |
| Object Contacted 2 | MEDIUM POLE |

NASS Weighting Factor

| | |
|------------------|-------|
| Weighting factor | 8.524 |
|------------------|-------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 4 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | DVDED/W/BARRIER |
| Number of Travel Lanes | THREE |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | CONCRETE |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK/LIGHTED |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | 9 |
| Alcohol Test (< 95 indicates BAC 0.xx) | 20 |

Vehicle Factors

| | |
|------------|------------------|
| Make-Model | Hyundai Excel |
| Year | 1989 |
| Class | PASSENGER CAR |
| Body Type | 4-DR SEDAN/HDTOP |
| Weight | 98 |

Pre-Crash Driver Data

Accident Type 1
Pre-event Movement GOING STRAIGHT
Critical Pre-crash Event OVER LINE-RIGHT
Attempted Avoidance Maneuver 99
Pre-impact Stability 9
Pre-impact Location DEPARTED ROADWAY

PASSENGER Factors

Age 17 Height 168 Weight 61
Gender MALE
Ejection No EJECTION
Ejection Area No EJECTION
Entrapment Not ENTRAPPED

Restraint Factors

Restrain None used/avail
AOPS NO
Airbag Deployment Not EQUIP/AVAIL
Airbag Deployment - 1st Seat Not EQUIP/AVAIL
Airbag Deployment - Oth Seat Not EQUIP W/ OTH

Injuries

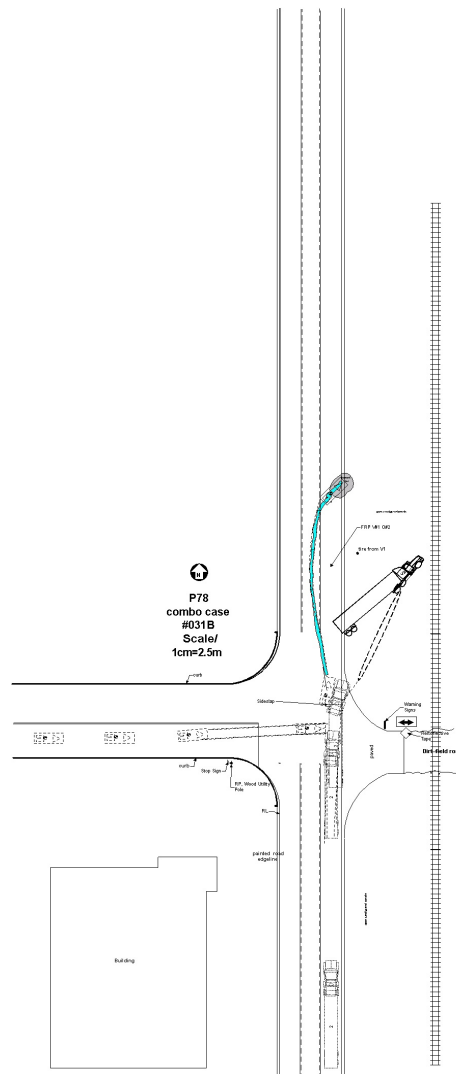
Occupant 1998-6-139-1-4
MAIS 1=Minor
Seat Position Second right

| AIS Level | Injury Description | Contacts |
|-----------|-------------------------------|----------------|
| 1=Minor | Facial skin laceration NFS | Unknown SOURCE |
| 1=Minor | Finger fracture | Unknown SOURCE |

6 Case 2003-78-31

Summary:

This two-vehicle crash occurred at the urban T intersection of a two-lane asphalt roadway and a three-lane asphalt roadway. The two-lane road is controlled by a stop sign. Both roads are level with no defects. This crash occurred during nighttime hours with no additional lighting. The speed limit on the two-lane road is posted 56 KmPH (35 mph) and on the three-lane road is 72 KmPH, or 45 mph. From the stop sign on the two-lane road there are no sight line restrictions. Vehicle one, a 1995 Ford F-250 with an add-on utility box was eastbound. Vehicle two, a 1995 Freightliner with a box van was northbound. The front plane of the F-250 impacted the left plane near the front of the Freightliner in the intersection. The F-250 rotated rapidly counterclockwise and sideswiped the left side of the Freightliner with its right side. The initial impact and rotation caused the right front passenger of the F-250 to be ejected through the right front door glazing and struck the driver door of the Freightliner. The F-250 continued off to the north to final rest where a fire began in the engine compartment. The fire consumed the interior of the F-250. The Freightliner immediately after impact rotated clockwise and exited the right side of the roadway and overturned a total of one quarter turn coming to final rest in sand gravel on its left side facing generally northeast. Vehicles one and two were both towed due to damages. Vehicle one was totally destroyed by fire. Vehicle two did not burn but did have extensive rollover damage. The driver of the F-250 was fatal at the scene with 80



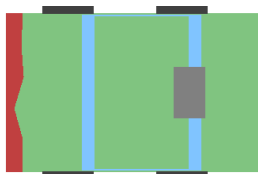
| Vehicle | Body type | Make | Model | Year | Occ.# | Age | Occupant's sex | Maximum known occupant ais |
|---------|--------------|------|--------------|------|-------|-----|----------------|----------------------------|
| 1 | LARGE PICKUP | Ford | F-series P/U | 1995 | 1 | 31 | MALE | 5=Critical |
| 1 | LARGE PICKUP | Ford | F-series P/U | 1995 | 2 | 40 | MALE | 1=Minor |

Occupant: 2003-78-31-1-1



Fire Information

| | |
|--------------------------|---------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Engine compart |
| Location of Fuel Leakage | No fuel leakage |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, left side |
| Fuel Cap Location | Left side, forward rear axle |
| Fuel Tank Damage | No damage |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|-------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 999 |
| Total, Longitudal, and Lateral δV | 999 999 999 |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 82 F D E W 2 |
| Damage (C1-C6) | 26 27 13 28 24 27 |
| Crush (L and D) | 190 0 |
| Object Contacted 1 | VEHICLE NO. 2 |
| Object Contacted 2 | 0 |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 52.638 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 4 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | Not DIVIDED |
| Number of Travel Lanes | TWO |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | ASPHALT |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | INTERSECTION REL |
| Traffic Control Device | |
| Police Reported Alcohol Presence | ALCOHOL PRESENT |
| Alcohol Test (< 95 indicates BAC 0.xx) | 37 |

Vehicle Factors

| | |
|------------|-------------------|
| Make-Model | Ford F-series P/U |
| Year | 1995 |
| Class | TRUCK |
| Body Type | LARGE PICKUP |
| Weight | 214 |

Pre-Crash Driver Data

Accident Type 88
Pre-event Movement GOING STRAIGHT
Critical Pre-crash Event CROSS OVER INTER
Attempted Avoidance Manue- BRAKE W/ LOCKUP
ver
Pre-impact Stability LONGITUDINAL SKID
Pre-impact Location STAYED IN LANE

DRIVER Factors

Age 31 Height 170 Weight 91
Gender MALE
Ejection PARTIAL EJECTION
Ejection Area Right FRONT
Entrapment Not ENTRAPPED

Restraint Factors

Restrain 99
AOPS NO
Airbag Deployment Not EQUIP/AVAIL
Airbag Deployment - 1st Seat Not EQUIP/AVAIL
Airbag Deployment - Oth Not EQUIP W/ OTH
Seat

Injuries

Occupant 2003-78-31-1-1
MAIS 5=Critical
Seat Position Front left side

| AIS Level | Injury Description | Contacts |
|---------------------------|---------------------------------------|---|
| 5=Critical | Burn, 2nd or 3rd degree, 402=Moderate | Splenic laceration, minor (tear<3cms deep, no major vessel) |
| Unknown SOURCE 1=Minor | Thoracic skin contusion | Unknown SOURCE |

Occupant: 2003-78-31-1-2



Fire Information

| | |
|--------------------------|---------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Engine compart |
| Location of Fuel Leakage | No fuel leakage |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, left side |
| Fuel Cap Location | Left side, forward rear axle |
| Fuel Tank Damage | No damage |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|-------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 999 |
| Total, Longitudal, and Lateral δV | 999 999 999 |
| Est. δV with sequence number | DELTA V CODED 1 |
| CDC | 82 F D E W 2 |
| Damage (C1-C6) | 26 27 13 28 24 27 |
| Crush (L and D) | 190 0 |
| Object Contacted 1 | VEHICLE NO. 2 |
| Object Contacted 2 | 0 |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 52.638 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 4 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | Not DIVIDED |
| Number of Travel Lanes | TWO |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | ASPHALT |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | INTERSECTION REL |
| Traffic Control Device | |
| Police Reported Alcohol Presence | ALCOHOL PRESENT |
| Alcohol Test (< 95 indicates BAC 0.xx) | 37 |

Vehicle Factors

| | |
|------------|-------------------|
| Make-Model | Ford F-series P/U |
| Year | 1995 |
| Class | TRUCK |
| Body Type | LARGE PICKUP |
| Weight | 214 |

Pre-Crash Driver Data

Accident Type 88
Pre-event Movement GOING STRAIGHT
Critical Pre-crash Event CROSS OVER INTER
Attempted Avoidance Manue- BRAKE W/ LOCKUP
ver
Pre-impact Stability LONGITUDINAL SKID
Pre-impact Location STAYED IN LANE

PASSENGER Factors

Age 40 Height 173 Weight 91
Gender MALE
Ejection COMPLETE EJECT
Ejection Area Right FRONT
Entrapment Not ENTRAPPED

Restraint Factors

Restrain 99
AOPS NO
Airbag Deployment Not EQUIP/AVAIL
Airbag Deployment - 1st Seat Not EQUIP/AVAIL
Airbag Deployment - Oth Not EQUIP W/ OTH
Seat

Injuries

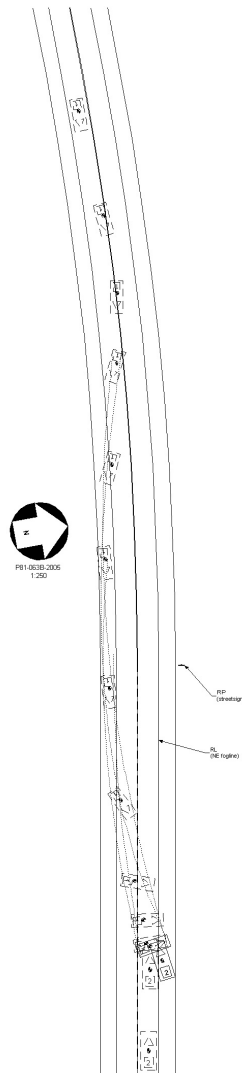
Occupant 2003-78-31-1-2
MAIS 1=Minor
Seat Position Front right side

| AIS Level | Injury Description | Contacts |
|------------------|---|-----------------|
| 1=Minor | Burn degree unknown, body area unknown | Fire in vehicle |
| 1=Minor | Facial skin laceration, minor | Unknown SOURCE |
| 1=Minor | Skin laceration (body region unknown) | Unknown SOURCE |

7 Case 2005-81-63

Summary:

Vehicle One (V1), a 1999 Ford F-150 SVT Lightning equipped with front driver and passenger airbags, was traveling eastbound on a two-lane, two-way non-physically divided roadway. Vehicle Two (V2), a 1998 Dodge Ram 3500 equipped with front driver and passenger airbags, was traveling westbound on the same roadway. V1 negotiating a curve, lost control and began to rotate and skid clockwise. V1 then rotated counter clockwise and traveled across the centerline of the roadway and into the westbound lane where the front of V2 impacted the right side of V1. V1 and V2 lodged together at impact and caught fire. Source of the fire is unknown; both vehicles were almost completely burned. V1 and V2 came to rest while still engaged in the westbound lane and partially on the westbound shoulder, V1 facing north and V2 facing west. Airbag status in both V1 and V2 is unknown due to fire damage. The driver of V1 was fatal prior to the fire with neck dislocation, liver laceration, and lung contusion. The passenger was fatal prior to the fire with heart laceration and aorta transection as well as lung, liver and spleen laceration. The driver of V2 was fatal due to charring of body with injuries that included rib, pelvic and mid back fracture. Both V1 and V2 towed due to fire damage.)



| Vehicle | Body type | Make | Model | Year | Occ.# | Age | Occupant's sex | Maximum known occupant ais |
|---------|--------------|-------|--------------|------|-------|-----|----------------|----------------------------|
| 1 | LARGE PICKUP | Ford | F-series P/U | 1999 | 1 | 20 | MALE | 3=Serious |
| 1 | LARGE PICKUP | Ford | F-series P/U | 1999 | 2 | 18 | MALE | 5=Critical |
| 2 | LARGE PICKUP | Dodge | Ram 1500 P/U | 1998 | 1 | 70 | MALE | 6=Maximum |

Occupant: 2005-81-63-1-1



Fire Information

| | |
|--------------------------|---------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | 9 |
| Location of Fuel Leakage | Unknown |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, left side |
| Fuel Cap Location | Unknown |
| Fuel Tank Damage | Unknown |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|---------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 999 |
| Total, Longitudal, and Lateral δV | 999 999 999 |
| Est. δV with sequence number | SEVERE 1 |
| CDC | 64 R D A W 8 |
| Damage (C1-C6) | 27 78 93 139 155 86 |
| Crush (L and D) | 355 5 |
| Object Contacted 1 | VEHICLE NO. 2 |
| Object Contacted 2 | 0 |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 19.461 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 3 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | Not DIVIDED |
| Number of Travel Lanes | TWO |
| Roadway Alignment | CURVE RIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | ASPHALT |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | 9 |
| Alcohol Test (< 95 indicates BAC 0.xx) | 0 |

Vehicle Factors

| | |
|------------|-------------------|
| Make-Model | Ford F-series P/U |
| Year | 1999 |
| Class | TRUCK |
| Body Type | LARGE PICKUP |
| Weight | 277 |

Pre-Crash Driver Data

| | |
|------------------------------|------------------|
| Accident Type | 64 |
| Pre-event Movement | NEGOTIATE CURVE |
| Critical Pre-crash Event | Unk CONTROL LOSS |
| Attempted Avoidance Maneuver | 99 |
| Pre-impact Stability | LAT SKID-CTR CLK |
| Pre-impact Location | Left TRAVEL LANE |

DRIVER Factors

| | | | | | |
|---------------|----|--------|---------------|--------|----|
| Age | 20 | Height | 165 | Weight | 77 |
| Gender | | | MALE | | |
| Ejection | | | No EJECTION | | |
| Ejection Area | | | No EJECTION | | |
| Entrapment | | | Not ENTRAPPED | | |

Restraint Factors

| | |
|--|-----------------|
| Restrain | 99 |
| AOPS | YES-RES DET |
| Airbag Deployment | Unk IF DEPLOYED |
| Airbag Deployment - 1 st Seat | DR |
| PAS UNK DEPLY | |
| Airbag Deployment - Oth Seat | Unk IF DEPLOYED |

Injuries

| | |
|---------------|-----------------|
| Occupant | 2005-81-63-1-1 |
| MAIS | 3=Serious |
| Seat Position | Front left side |

| AIS Level | Injury Description | Contacts |
|----------------|---|----------------------------|
| 3=Serious | Hepatic laceration, moderate (>3cms deep, EBL>203=Serious | Lung contusion, unilateral |
| Unknown SOURCE | | |
| 2=Moderate | Dislocation of atlanto-occipital | Unknown SOURCE |
| 2=Moderate | Pleural laceration | Unknown SOURCE |

Occupant: 2005-81-63-1-2



Fire Information

| | |
|--------------------------|---------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | 9 |
| Location of Fuel Leakage | Unknown |
| Type of Fuel Tank | Metallic |
| Fuel Tank Location | Forward of rear axle, left side |
| Fuel Cap Location | Unknown |
| Fuel Tank Damage | Unknown |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|---------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 999 |
| Total, Longitudal, and Lateral δV | 999 999 999 |
| Est. δV with sequence number | SEVERE 1 |
| CDC | 64 R D A W 8 |
| Damage (C1-C6) | 27 78 93 139 155 86 |
| Crush (L and D) | 355 5 |
| Object Contacted 1 | VEHICLE NO. 2 |
| Object Contacted 2 | 0 |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 19.461 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 3 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | Not DIVIDED |
| Number of Travel Lanes | TWO |
| Roadway Alignment | CURVE RIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | ASPHALT |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | 9 |
| Alcohol Test (< 95 indicates BAC 0.xx) | 0 |

Vehicle Factors

| | |
|------------|-------------------|
| Make-Model | Ford F-series P/U |
| Year | 1999 |
| Class | TRUCK |
| Body Type | LARGE PICKUP |
| Weight | 277 |

Pre-Crash Driver Data

Accident Type 64
 Pre-event Movement NEGOTIATE CURVE
 Critical Pre-crash Event Unk CONTROL LOSS
 Attempted Avoidance Maneuver 99
 Pre-impact Stability LAT SKID-CTR CLK
 Pre-impact Location Left TRAVEL LANE

PASSENGER Factors

Age 18 Height 157 Weight 75
 Gender MALE
 Ejection No EJECTION
 Ejection Area No EJECTION
 Entrapment JAMMED DOOR/FIRE

Restraint Factors

Restrain 99
 AOPS YES-RES DET
 Airbag Deployment Unk IF DEPLOYED
 Airbag Deployment - 1st Seat DR
 PAS UNK DEPLY
 Airbag Deployment - Oth Seat Unk IF DEPLOYED

Injuries

Occupant 2005-81-63-1-2
 MAIS 5=Critical
 Seat Position Front right side

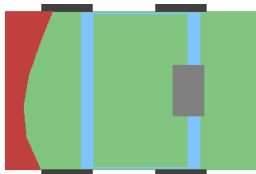
| AIS Level | Injury Description | Contacts |
|----------------|---|---|
| 5=Critical | Thoracic aortic laceration, major, & mediastinal bleeding | Right interior |
| 5=Critical | Myocardial laceration with perforation (+/- tamponade) | Right interior |
| 4=Severe | >3 rib fxs on each side, stable chest | Right interior |
| 2=Moderate | Dislocation of atlanto-occipital | Roof right rail |
| 4=Severe | Lung laceration, unilateral, with hemo-mediastinum | Right interior |
| 4=Severe | Lung contusion, bilateral | Right interior |
| 3=Serious | Diaphragm laceration or rupture | Right hardware |
| 4=Severe | Hepatic laceration, major (<503=Serious) | Splenic laceration, moderate (>3 cms deep, no hilar injury) |
| Right hardware | | |
| 3=Serious | Symphysis pubis separation or fracture | Right hardware |
| 3=Serious | Femur fracture NFS | Right hardware |
| 2=Moderate | Pelvic fracture NFS | Right hardware |

Occupant: 2005-81-63-2-1



Fire Information

| | |
|--------------------------|---------------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | 9 |
| Location of Fuel Leakage | Unknown |
| Type of Fuel Tank | Non-metallic |
| Fuel Tank Location | Forward of rear axle, left side |
| Fuel Cap Location | Left side, forward rear axle |
| Fuel Tank Damage | Unknown |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|-------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 999 |
| Total, Longitudal, and Lateral δV | 999 999 999 |
| Est. δV with sequence number | MODERATE 1 |
| CDC | 12 F D E W 3 |
| Damage (C1-C6) | 57 34 29 38 56 76 |
| Crush (L and D) | 156 0 |
| Object Contacted 1 | VEHICLE NO. 1 |
| Object Contacted 2 | 0 |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 19.461 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 3 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|------------------|
| Traffic Flow | Not DIVIDED |
| Number of Travel Lanes | TWO |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | ASPHALT |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | NONINTER/NONJUNC |
| Traffic Control Device | |
| Police Reported Alcohol Presence | 9 |
| Alcohol Test (< 95 indicates BAC 0.xx) | 0 |

Vehicle Factors

| | |
|------------|--------------------|
| Make-Model | Dodge Ram 1500 P/U |
| Year | 1998 |
| Class | TRUCK |
| Body Type | LARGE PICKUP |
| Weight | 999 |

Pre-Crash Driver Data

Accident Type 65
 Pre-event Movement GOING STRAIGHT
 Critical Pre-crash Event OPP DIR-OVR LEFT
 Attempted Avoidance Manue- 99
 ver
 Pre-impact Stability 9
 Pre-impact Location STAYED IN LANE

AIS Level

6=Maximum

DRIVER Factors

Age 70 Height 178 Weight 136
 Gender MALE
 Ejection No EJECTION
 Ejection Area No EJECTION
 Entrapment JAMMED DOOR/FIRE

>3 rib fractures one side & <3 other side, with stable chest

Restraint Factors

3=Serious

Restrain Lap and shoulder
 AOPS YES-RES DET
 Airbag Deployment Unk IF DEPLOYED
 Airbag Deployment - 1st Seat DR
 PAS UNK DEPLY
 Airbag Deployment - Oth 9
 Seat

2=Moderate

Injuries

Occupant 2005-81-63-2-1
 MAIS 6=Maximum
 Seat Position Front left side

1=Minor

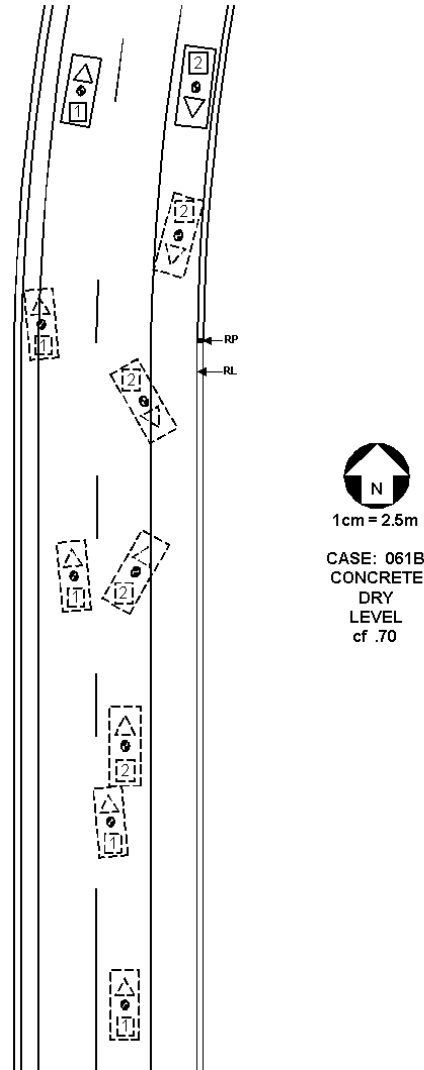
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8 Case 2002-49-61

Summary:

VEHICLES 1 AND 2 WERE TRAVELING NORTH ON A FIVE LANE DIVIDED FREEWAY, BOTH IN THE RIGHT LANE AND EXITING ONTO A TWO LANE RAMP. THE FRONT RIGHT OF VEHICLE 1 IMPACTED THE BACK LEFT OF VEHICLE 2. VEHICLE 1 CAUGHT FIRE AT IMPACT. VEHICLE 1 CONTINUED NORTH AND IMPACTED THE FRONT LEFT TO THE WEST CONCRETE BARRIER WALL. VEHICLE 2 ROTATED CLOCKWISE AND IMPACTED THE BACK LEFT TO THE EAST CONCRETE BARRIER WALL AND CAUGHT FIRE. VEHICLE 1 BURNED COMPLETELY AND VEHICLE 2 WAS MODERATELY BURNED. BOTH VEHICLES WERE TOWED AND THE DRIVER AND RF PASSENGER OF VEHICLE 2 WERE FATALLY INJURED AS A RESULT OF OVER 96



| Vehicle | Body type | Make | Model | Year | Occ.# | Age | Occupant's sex | Maximum known occupant ais |
|---------|-------------|-----------|--------------|------|-------|-----|----------------|----------------------------|
| 1 | CONVERTIBLE | Chevrolet | Corvette | 1998 | 1 | 29 | MALE | 6=Maximum |
| 1 | CONVERTIBLE | Chevrolet | Corvette | 1998 | 2 | 28 | MALE | 6=Maximum |
| 2 | LARGE VAN | Dodge | B-series Van | 1997 | 1 | 22 | MALE | 0=None |
| 2 | LARGE VAN | Dodge | B-series Van | 1997 | 2 | 48 | MALE | 0=None |

Occupant: 2002-49-61-1-1



Fire Information

| | |
|--------------------------|----------------|
| Fire Occurrence | Major fire |
| Fire Origin | Engine compart |
| Location of Fuel Leakage | Unknown |
| Type of Fuel Tank | Unknown type |
| Fuel Tank Location | Unknown |
| Fuel Cap Location | Unknown |
| Fuel Tank Damage | Unknown |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 999 |
| Total, Longitudal, and Lateral δV | 999 999 999 |
| Est. δV with sequence number | 9 1 |
| CDC | 12 F 9 9 9 99 |
| Damage (C1-C6) | 0 0 0 0 0 0 |
| Crush (L and D) | 0 0 |
| Object Contacted 1 | VEHICLE NO. 2 |
| Object Contacted 2 | CONCRETE BARRIER |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 11.720 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 5 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|-----------------|
| Traffic Flow | ONE WAY |
| Number of Travel Lanes | TWO |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | CONCRETE |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK/LIGHTED |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | INTERCHANGE REL |
| Traffic Control Device | |
| Police Reported Alcohol Presence | 9 |
| Alcohol Test (< 95 indicates BAC 0.xx) | 9 |

Vehicle Factors

| | |
|------------|--------------------|
| Make-Model | Chevrolet Corvette |
| Year | 1998 |
| Class | PASSENGER CAR |
| Body Type | CONVERTIBLE |
| Weight | 147 |

Pre-Crash Driver Data

| | |
|-----------------------------------|------------------|
| Accident Type | 24 |
| Pre-event Movement | GOING STRAIGHT |
| Critical Pre-crash Event | Same DIR-LOSPEED |
| Attempted Avoidance Manue- ver | 99 |
| Pre-impact Stability | 9 |
| Pre-impact Location | 9 |

DRIVER Factors

| | | | | | |
|---------------|----|--------|-------------|--------|----|
| Age | 29 | Height | 173 | Weight | 79 |
| Gender | | | MALE | | |
| Ejection | | | No EJECTION | | |
| Ejection Area | | | No EJECTION | | |
| Entrapment | | | 9 | | |

Restraint Factors

| | |
|--|--------------------------|
| Restrain | 99 |
| AOPS | YES-RES DET |
| Airbag Deployment | Unk IF DEPLOYED |
| Airbag Deployment - 1 st Seat | DR |
| PAS UNK DEPLY | |
| Airbag Deployment - Oth Seat | Not EQUIP W/ OTH Seat |

Injuries

| | |
|---------------|-----------------|
| Occupant | 2002-49-61-1-1 |
| MAIS | 6=Maximum |
| Seat Position | Front left side |

| AIS Level | Injury Description | Contacts |
|-----------|-----------------------------------|----------|
| 6=Maximum | Burn, 2nd or 3rd de- gree, >90 | |

Occupant: 2002-49-61-1-2



Fire Information

| | |
|--------------------------|----------------|
| Fire Occurrence | Major fire |
| Fire Origin | Engine compart |
| Location of Fuel Leakage | Unknown |
| Type of Fuel Tank | Unknown type |
| Fuel Tank Location | Unknown |
| Fuel Cap Location | Unknown |
| Fuel Tank Damage | Unknown |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 999 |
| Total, Longitudal, and Lateral δV | 999 999 999 |
| Est. δV with sequence number | 9 1 |
| CDC | 12 F 9 9 9 99 |
| Damage (C1-C6) | 0 0 0 0 0 0 |
| Crush (L and D) | 0 0 |
| Object Contacted 1 | VEHICLE NO. 2 |
| Object Contacted 2 | CONCRETE BARRIER |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 11.720 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 5 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|-----------------|
| Traffic Flow | ONE WAY |
| Number of Travel Lanes | TWO |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | CONCRETE |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK/LIGHTED |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | INTERCHANGE REL |
| Traffic Control Device | |
| Police Reported Alcohol Presence | 9 |
| Alcohol Test (< 95 indicates BAC 0.xx) | 9 |

Vehicle Factors

| | |
|------------|--------------------|
| Make-Model | Chevrolet Corvette |
| Year | 1998 |
| Class | PASSENGER CAR |
| Body Type | CONVERTIBLE |
| Weight | 147 |

Pre-Crash Driver Data

| | |
|-----------------------------------|------------------|
| Accident Type | 24 |
| Pre-event Movement | GOING STRAIGHT |
| Critical Pre-crash Event | Same DIR-LOSPEED |
| Attempted Avoidance Manue- ver | 99 |
| Pre-impact Stability | 9 |
| Pre-impact Location | 9 |

PASSENGER Factors

| | | | | | |
|---------------|----|--------|-------------|--------|----|
| Age | 28 | Height | 170 | Weight | 73 |
| Gender | | | MALE | | |
| Ejection | | | No EJECTION | | |
| Ejection Area | | | No EJECTION | | |
| Entrapment | | | 9 | | |

Restraint Factors

| | |
|--|--------------------------|
| Restrain | 99 |
| AOPS | YES-RES DET |
| Airbag Deployment | Unk IF DEPLOYED |
| Airbag Deployment - 1 st Seat | DR |
| PAS UNK DEPLY | |
| Airbag Deployment - Oth Seat | Not EQUIP W/ OTH Seat |

Injuries

| | |
|---------------|------------------|
| Occupant | 2002-49-61-1-2 |
| MAIS | 6=Maximum |
| Seat Position | Front right side |

| AIS Level | Injury Description | Contacts |
|-----------|-----------------------------------|----------|
| 6=Maximum | Burn, 2nd or 3rd de- gree, >90 | |

Occupant: 2002-49-61-2-1



Fire Information

| | |
|--------------------------|-----------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Fuel tank |
| Location of Fuel Leakage | Unknown |
| Type of Fuel Tank | Unknown type |
| Fuel Tank Location | Behind rear axle, centered |
| Fuel Cap Location | Left side, behind rear axle |
| Fuel Tank Damage | Unknown |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 999 |
| Total, Longitudal, and Lateral δV | 999 999 999 |
| Est. δV with sequence number | MODERATE 1 |
| CDC | 6 B 9 9 9 99 |
| Damage (C1-C6) | 0 0 0 0 0 0 |
| Crush (L and D) | 0 0 |
| Object Contacted 1 | VEHICLE NO. 1 |
| Object Contacted 2 | CONCRETE BARRIER |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 11.720 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 5 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|-----------------|
| Traffic Flow | ONE WAY |
| Number of Travel Lanes | TWO |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | CONCRETE |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK/LIGHTED |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | INTERCHANGE REL |
| Traffic Control Device | |
| Police Reported Alcohol Presence | No ALCOHOL |
| Alcohol Test (< 95 indicates BAC 0.xx) | 96 |

Vehicle Factors

| | |
|------------|--------------------|
| Make-Model | Dodge B-series Van |
| Year | 1997 |
| Class | TRUCK |
| Body Type | LARGE VAN |
| Weight | 999 |

Pre-Crash Driver Data

| | |
|-----------------------------------|------------------|
| Accident Type | 25 |
| Pre-event Movement | GOING STRAIGHT |
| Critical Pre-crash Event | Same DIR-HISPEED |
| Attempted Avoidance Manue- ver | No AVOIDANCE |
| Pre-impact Stability | TRACKING |
| Pre-impact Location | STAYED IN LANE |

DRIVER Factors

| | | | | | |
|---------------|----|--------|------------------|--------|----|
| Age | 22 | Height | 173 | Weight | 75 |
| Gender | | | MALE | | |
| Ejection | | | No EJECTION | | |
| Ejection Area | | | No EJECTION | | |
| Entrapment | | | JAMMED DOOR/FIRE | | |

Restraint Factors

| | |
|--|--------------------------|
| Restrain | Lap and shoulder |
| AOPS | YES-RES DET |
| Airbag Deployment | NONDEPLOYED |
| Airbag Deployment - 1 st Seat | NONDEPLOYED |
| Airbag Deployment - Oth Seat | Not EQUIP W/ OTH Seat |

Injuries

| | |
|---------------|-----------------|
| Occupant | 2002-49-61-2-1 |
| MAIS | 0=None |
| Seat Position | Front left side |

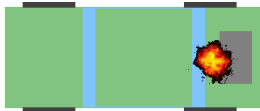
| AIS Level | Injury Description | Contacts |
|-----------|--------------------|----------|
|-----------|--------------------|----------|

Occupant: 2002-49-61-2-2



Fire Information

| | |
|--------------------------|-----------------------------|
| Fire Occurrence | Major fire |
| Fire Origin | Fuel tank |
| Location of Fuel Leakage | Unknown |
| Type of Fuel Tank | Unknown type |
| Fuel Tank Location | Behind rear axle, centered |
| Fuel Cap Location | Left side, behind rear axle |
| Fuel Tank Damage | Unknown |
| Fuel Type | Gasoline |



Crash Severity

| | |
|---|------------------|
| Nr. Quarter Turns | No rollover |
| Impact Speed | 999 |
| Total, Longitudal, and Lateral δV | 999 999 999 |
| Est. δV with sequence number | MODERATE 1 |
| CDC | 6 B 9 9 9 99 |
| Damage (C1-C6) | 0 0 0 0 0 0 |
| Crush (L and D) | 0 0 |
| Object Contacted 1 | VEHICLE NO. 1 |
| Object Contacted 2 | CONCRETE BARRIER |

NASS Weighting Factor

| | |
|------------------|--------|
| Weighting factor | 11.720 |
|------------------|--------|

Rollover Characteristics

| | |
|--|-------------|
| Number of Events | 5 |
| Rollover Initiation Type | No rollover |
| Location of Rollover Initiation | No rollover |
| Rollover Initiation Object Contacted | No rollover |
| Location on Vehicle where Principal Tripping Force was Applied | No rollover |
| Direction of Initial Roll | No rollover |

Pre-Crash Environment

| | |
|--|-----------------|
| Traffic Flow | ONE WAY |
| Number of Travel Lanes | TWO |
| Roadway Alignment | STRAIGHT |
| Roadway Profile | LEVEL |
| Roadway Surface Type | CONCRETE |
| Roadway Surface Condition | DRY |
| Light Conditions | DARK/LIGHTED |
| Atmospheric Conditions | No ADVERSE COND |
| Relation to Intersection | INTERCHANGE REL |
| Traffic Control Device | |
| Police Reported Alcohol Presence | No ALCOHOL |
| Alcohol Test (< 95 indicates BAC 0.xx) | 96 |

Vehicle Factors

| | |
|------------|--------------------|
| Make-Model | Dodge B-series Van |
| Year | 1997 |
| Class | TRUCK |
| Body Type | LARGE VAN |
| Weight | 999 |

Pre-Crash Driver Data

| | |
|-----------------------------------|------------------|
| Accident Type | 25 |
| Pre-event Movement | GOING STRAIGHT |
| Critical Pre-crash Event | Same DIR-HISPEED |
| Attempted Avoidance Manue- ver | No AVOIDANCE |
| Pre-impact Stability | TRACKING |
| Pre-impact Location | STAYED IN LANE |

PASSENGER Factors

| | | | | | |
|---------------|----|--------|---------------|--------|----|
| Age | 48 | Height | 170 | Weight | 82 |
| Gender | | | MALE | | |
| Ejection | | | No EJECTION | | |
| Ejection Area | | | No EJECTION | | |
| Entrapment | | | Not ENTRAPPED | | |

Restraint Factors

| | |
|--|--------------------------|
| Restrain | Lap and shoulder |
| AOPS | YES-RES DET |
| Airbag Deployment | NONDEPLOYED |
| Airbag Deployment - 1 st Seat | NONDEPLOYED |
| Airbag Deployment - Oth Seat | Not EQUIP W/ OTH Seat |

Injuries

| | |
|---------------|------------------|
| Occupant | 2002-49-61-2-2 |
| MAIS | 0=None |
| Seat Position | Front right side |

| AIS Level | Injury Description | Contacts |
|-----------|--------------------|----------|
|-----------|--------------------|----------|