



# SAFER Transaction T0018 Inspection Report

## System Enhancement Requirements Specification

DRAFT Version 0.2

October 21, 2004

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## SAFER Transaction T0018 Inspection Report

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# 1 Overview

This document specifies a new transaction for the SAFER XML Interface specified in the SAFER 4.2 Interface Control Document and the SAFER 4.4 Beta 1 Web Services Interface Control Document.

This document is a preliminary draft and needs to account for the eventuality of using the same schema for SAFETYNET and MCMIS inspection reports, for which additional fields would need to be included.

## 1.1 T0018, Inspection Report Input Transaction

- Root Transaction Rag: T0018
- Interface Name: SAFER
- Interface Version: 4.02
- Transaction Version: 01.00
- Transaction Data Tag: ASPEN\_INSPECTION

## 1.2 Information Transmitted

The Inspection Report Input Transaction shall consist of inspection report information structured within a file as follows:

Interface Header + Inspection Report Transaction Header + InspMain + Vehicles + Violations + Brakes + HazMats + Shippers + LocalFields + Level6 + Level6Violations

The following information shall be provided:

The InspMain element shall contain the following information:

Description	Mandatory or Optional	XML Tag
Report Number	Mandatory	RptNum
Inspection Start Date	Mandatory	InspStartDate
Inspection Start Time	Mandatory	InspStartTime
Inspection End Date	Mandatory	InspEndDate
Inspection End Time	Mandatory	InspEndTime
Duration	Mandatory	Duration
Inspection Type (1-6)	Mandatory	Level
Time Zone	Mandatory	Timezone
Inspection Location Code	Mandatory	InspLocationCode
Inspection Location Description	Mandatory	InspLocationDesc
Highway	Mandatory	Highway

Milepost	Mandatory	Milepost
Facility Type	Mandatory	FacilityType
Inspection State	Mandatory	InspState
Inspection County	Mandatory	InspCounty
FIPS County Code	Mandatory	FIPSCountyCode
State County Code	Mandatory	StateCountyCode
Inspector Code	Mandatory	InspectorCode
Inspector Name	Mandatory	InspectorName
Co Inspector Code	Mandatory	CoInspectorCode
Co Inspector Name	Mandatory	CoInspectorName
Alcohol Substance Check	Mandatory	AlcSubChk
Drug Search	Mandatory	DrugSearch
Drug Arrest	Mandatory	DrugArrest
Size Weight Enforcement	Mandatory	SizeWeightEnf
Traffic Enforcement	Mandatory	TrafficEnf
Local Jurisdiction	Mandatory	LocalJurisdiction
Hazmat Inspection Type	Mandatory	HMIInspType
USDOT Number	Mandatory	USDOTNum
State Census Number	Mandatory	StateCensusNum
Intrastate Carrier ID	Mandatory	Intrastate Carrier ID
ICC Number	Mandatory	ICCNuM
Mexican Carrier ID	Mandatory	MexicanCarrierID
Interstate	Mandatory	Interstate
Carrier Name	Mandatory	CarrName
Carrier Street	Mandatory	CarrStreet
Carrier Colonia	Mandatory	CarrColonia
Carrier City	Mandatory	CarrCity
Carrier State	Mandatory	CarrState
Carrier Zip Code	Mandatory	CarrZipCode
Carrier Phone	Mandatory	CarrPhone
Carrier Fax	Mandatory	CarrFax
Shipper Name	Mandatory	ShipName
Shipper Number	Mandatory	ShipNum
Driver Last Name	Mandatory	DriverLName
Driver First Name	Mandatory	DriverFName
Driver Middle Initial	Mandatory	DriverMI
Driver License Number	Mandatory	DriverLicNum
Driver License State	Mandatory	DriverLicState
Driver Date of Birth	Mandatory	DriverDOB
Co-Driver Last Name	Optional	CoDriverLName
Co-Driver First Name	Optional	CoDriverFName
Co-Driver Middle Initial	Optional	CoDriverMI
Co-Driver License Number	Optional	CoDriverLicNum

Co-Driver License State	Optional	CoDriverLicState
Co-Driver Date of Birth	Optional	CoDriverDOB
Cargo	Optional	Cargo
Origin	Optional	Origin
Destination	Optional	Destination
Hazmat Placard	Optional	HMPlacard
Cargo Tank Spec Number	Optional	CargoTankSpecNum
GCWR	Optional	GCWR
Axles	Optional	Axles
Total Hazmat	Optional	TotalHM
Total Vehicle	Optional	TotalVehicle
Total Violations	Optional	TotalVio
Total OOS Violations	Optional	TotalOOSVio
Total Vehicle OOS Violations	Optional	TotalVehicleOOSVio
Accident	Optional	Accident
OOS Until	Optional	OOSUntil
Vehicle OOS	Optional	VehicleOOS
Driver OOS	Optional	DriverOOS
Unit 1 Plate Number	Optional	Unit1PlateNum
Notes	Optional	Notes
Aspen Match	Optional	AspenMatch
Aspen Version Number	Optional	AspenVersionNum
Report Status	Optional	RptStatus
Transferred	Optional	Transferred
Transfer Date	Optional	TranDate
Transfer Time	Optional	TranTime
Tag	Optional	Tag
Aspen 1	Optional	Aspen1
Aspen 2	Optional	Aspen2
Study 1	Optional	Study1
Study 2	Optional	Study2
Study 3	Optional	Study3
Study 4	Optional	Study4
Study 5	Optional	Study5
Country Code	Optional	CountryCode

The Vehicles Element shall contain a sequence of up to 6 (six) of the following Vehicle element:

<b>Description</b>	<b>Mandatory or Optional</b>	<b>XML Tag</b>
Report Number	Optional	RptNum
Unit Number	Optional	UnitNum
Unit Type	Optional	UnitType

Unit Make	Optional	UnitMake
Unit Year	Optional	UnitYear
Unit Company Number	Optional	UnitCoNum
Unit License Number	Optional	UnitLicNum
Unit License State	Optional	UnitLicState
Unit VIN	Optional	Unit VIN
Unit Gross Vehicle Weight Rating	Optional	UnitGVWR
CVSA Decal	Optional	CVSADecal
Decal Number	Optional	DecalNum
OOS Number	Mandatory	OOSNum

The Violations Element shall contain an unbounded number of the following Violation Element:

<b>Description</b>	<b>Mandatory or Optional</b>	<b>XML Tag</b>
Report Number	Mandatory	RptNum
Violation ID	Mandatory	VioID
Unit Number	Mandatory	UnitNum
Federal Violation Code	Mandatory	FedVioCode
State Violation Code	Mandatory	StateVioCode
Section Code	Mandatory	SectionCode
Full Violation Description	Mandatory	VioDesc
Violation Description Type	Mandatory	VioDescType
OOS	Optional	OOS
Defect Ver Code	Optional	DefectVerCode
Citation Number	Mandatory	CitationNum
Shipper ID	Mandatory	ShipID
Federal/State	Mandatory	FedState
Aspen Tag	Mandatory	AspenTag
Post Crash	Optional	PostCrash

The Brakes element shall consist of up to 14 (fourteen) Brake elements containing the following information:

<b>Description</b>	<b>Mandatory or Optional</b>	<b>XML Tag</b>
Report Number	Mandatory	RptNum
Axle Number	Mandatory	AxleNum
Chamber Sub Type	Mandatory	ChamberSubType
Left Brake	Mandatory	LeftBrake
Right Brake	Mandatory	RightBrake

The HazMats element shall consist of up to three (3) HazMat elements containing the following information:

<b>Description</b>	<b>Mandatory or Optional</b>	<b>XML Tag</b>
Report Number	Mandatory	RptNum
Hazmat Sequence Number	Mandatory	HMSeqNum
Hazmat Code	Mandatory	HMCode
Hazmat Quantity	Optional	HMQuantity
Hazmat Waste	Optional	HMWaste
Hazmat Description	Mandatory	HMDescription

The Shippers element shall consist of an unbounded number of Shipper elements, each containing the following information:

<b>Description</b>	<b>Mandatory or Optional</b>	<b>XML Tag</b>
Report Number	Mandatory	RptNum
Shipper ID	Mandatory	ShipID
Shipper USDOT Number	Mandatory	ShipUSDOTNum
Shipper Name	Mandatory	ShipName
Shipper Address	Mandatory	ShipAddress
Shipper City	Mandatory	ShipCity
Shipper State	Mandatory	ShipState
Shipper Zip Code	Mandatory	ShipZipCode

The LocalFields element shall contain an unbounded number of the LocalField record, each containing the following information:

<b>Description</b>	<b>Mandatory or Optional</b>	<b>XML Tag</b>
Report Number	Mandatory	RptNum
Optional Field ID	Mandatory	OptFieldID
Optional Field Data	Mandatory	OptFieldData
Printout	Mandatory	Printout

The optional Level6 element shall contain the following information:

<b>Description</b>	<b>Mandatory or Optional</b>	<b>XML Tag</b>
Report Number	Mandatory	RptNum
Point of Origin	Optional	PointOfOrigin
Enroute	Optional	EnRoute
Point of Destination	Optional	PointOfDestination
Accident	Optional	Accident
Incident	Optional	Incident

HRCQ	Optional	HRCQ
RQ	Optional	RQ
TRU Waste	Optional	TRUWaste
Proper Shipping Name	Mandatory	Proper Shipping Name
Shipper ID Number	Mandatory	ShipIDNumber
Instrument Type	Mandatory	InstrumentType
Instrument Serial Number	Mandatory	InstrumentSerialNumber
Probe Number	Mandatory	ProbeNumber
Background	Mandatory	Background
Two Meter	Mandatory	Two-Meter
Two Meter Vehicle Location	Mandatory	Two-MeterVehicleLoc
In Cab	Mandatory	In-Cab
In Cab Vehicle Location	Mandatory	In-CabVehicleLoc
Surface	Mandatory	Surface
Surface Vehicle Location	Mandatory	SurfaceVehicleLoc
Undercarriage	Mandatory	Undercarriage
Undercarriage Vehicle Location	Mandatory	UndercarriageVehicleLoc
Serial Number 1	Mandatory	SerialNumber1
Transport Index 1	Mandatory	TransportIndex1
Serial Number 2	Mandatory	SerialNumber2
Transport Index 2	Mandatory	TransportIndex2
Serial Number 3	Mandatory	SerialNumber3
Transport Index 3	Mandatory	TransportIndex3

The Level6Violations Element shall contain an unbounded number of the Level6Violation element, containing the following information:

<b>Description</b>		<b>XML Tag</b>
Report Number	Mandatory	RptNum
Violation ID	Mandatory	VioID
Unit Number	Mandatory	UnitNum
Federal Violation Code	Mandatory	FedVioCode
Section Code	Mandatory	SectionCode
Level VI OOS	Optional	LevelVIOOS
Violation Description	Mandatory	VioDesc

## 1.3 Interface Terminals

### 1.3.1 Source

SAFER Version 4.4



### **1.3.2 Destination**

A state system, such as CVIEW or its equivalent.

## **1.4 Communication/Transmission Process**

### **1.4.1 Format/Record Layout**

Refer to the schema for this transaction in Appendix A of this document for the complete XML specification.

### **1.4.2 Standards and Conventions**

- XML Parsers expect Unicode by default – either UTF-8 or UTF-16. Any character set other than UTF-8 or UTF-16 must be specified with the “encoding” attribute in the XML header. For example:

`<?xml version="1.0" encoding="US-ASCII"?>` would be used if the ASCII character set were used to encode the document.

- The File Transfer Protocol, as described in Reference 4 of the SAFER 4.2 ICD, shall be used for the FTP interface.
- The Simple Object Access Protocol (SOAP) and Web Services Definition Language (WSDL) standards shall be used for the Web Services interface.

### **1.4.3 Conditional Processing**

The following conditional processing shall apply:

If the uploaded inspection is a duplicate (same Report Number) and is older than the one in the database, it is not loaded.

If the uploaded inspection is a duplicate and is newer than the one in the database, the record in the database removed and the new one is inserted. It matches on the INSPECTION\_END\_DATE and INSPECTION\_FINISH\_TIME to determine if the duplicate inspection is newer or older than the one in the database. The old record must be removed to handle the case of a deleted child record (e.g. a violation removed from the updated report).

If the uploaded inspection is not a duplicate, it is inserted into

the database.

#### **1.4.4 Data Validation**

Data validation shall be done automatically in accordance with the schema defined for this transaction. Refer to the schema in Appendix A.

#### **1.4.5 Error Processing/Recovery**

Records that do not conform to the schema for this transaction shall not be processed, and a log entry about the error will be made.

#### **1.4.6 Schedule/Frequency**

It is recommended that the state system not send a file containing transactions for this interface more than once every five minutes.

The SAFER system generally is on-line and processing transactions between the hours of 8 AM and 8 PM eastern standard or daylight savings time, seven days a week, 52 weeks per year. Outside of these hours the system is subject to discontinuities in service, due to maintenance.

#### **1.4.7 Initiation Method**

The transaction T0018 can be initiated using FTP or using the Web Services interface.

To initiate this transaction via Web Service, the state system will call the SaferXMLUpload method specified in the SAFER Web Services specification.

To initiate this transaction via FTP, the state system will log onto the SAFER FTP site at this URL: `ftp://CVIEWxx:****@ftp.safersys.org/SAFER`

#### **1.4.8 Synchronization/Dependencies**

Records within the file are not guaranteed to be processed as sequenced in the file. If two or more records for the same entity exist in the file with the same update date, processing order is indeterminate.

#### **1.4.9 Priority**

All transactions in this interface are processed on a first-come, first-served basis. They all have the same priority.

#### **1.4.10 Maximum Transaction Size**

Since this transaction can be invoked via Web Services and FTP, different size limits apply for each interface.

No more than 5,000 records may exist in the transaction file using the FTP Interface.

No more than 1 inspection record may exist in the transaction file using the Web Services Interface beta version 1.

## APPENDIX A

The XML schema for this transaction using the Web Services interface is as follows. The FTP format will be provided at a later time.

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="Inspections">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Inspection" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="InspMain">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="RptNum">
                      <xs:annotation>
                        <xs:documentation>Primary Key Field</xs:documentation>
                      </xs:annotation>
                      <xs:simpleType>
                        <xs:restriction base="xs:string">
                          <xs:maxLength value="12"/>
                        </xs:restriction>
                      </xs:simpleType>
                    </xs:element>
                    <xs:element name="InspStartDate" type="xs:date"/>
                    <xs:element name="InspStartTime" type="xs:time"/>
                    <xs:element name="InspEndDate" type="xs:date"/>
                    <xs:element name="InspEndTime" type="xs:time"/>
                    <xs:element name="Duration" type="xs:integer">
                      <xs:annotation>
                        <xs:documentation>Duration of Inspection in minutes</xs:documentation>
                      </xs:annotation>
                    </xs:element>
                    <xs:element name="Level">
                      <xs:annotation>
                        <xs:documentation>Inspection Type (1-6)</xs:documentation>
                      </xs:annotation>
                      <xs:simpleType>
                        <xs:restriction base="xs:string">
                          <xs:maxLength value="1"/>
                          <xs:enumeration value="1"/>
                          <xs:enumeration value="2"/>
                          <xs:enumeration value="3"/>
                          <xs:enumeration value="4"/>
                          <xs:enumeration value="5"/>
                          <xs:enumeration value="6"/>
                        </xs:restriction>
                      </xs:simpleType>
                    </xs:element>
                    <xs:element name="Timezone">
                      <xs:simpleType>
```

```
        <xs:restriction base="xs:string">
            <xs:maxLength value="2"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="InspLocationCode">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="6"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="InspLocationDesc">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="Highway">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="25"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="Milepost">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="6"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="FacilityType">
    <xs:annotation>
        <xs:documentation>'F'=Fixed; 'R'=Roadside</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="F"/>
            <xs:enumeration value="R"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="InspState">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="2"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="InspCounty">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="25"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
```

```
</xs:simpleType>
</xs:element>
<xs:element name="FIPSCountyCode">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="3"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="StateCountyCode">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="3"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="InspectorCode">
  <xs:annotation>
    <xs:documentation>Inspector's Badge Number</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="6"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="InspectorName">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="40"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="ColInspectorCode">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="6"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="ColInspectorName">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="40"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="AlcSubChk" default="N">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="1"/>
      <xs:enumeration value="Y"/>
      <xs:enumeration value="N"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="DrugSearch" default="N">
```

```

    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
        <xs:enumeration value="Y"/>
        <xs:enumeration value="N"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="DrugArrest">
    <xs:annotation>
      <xs:documentation>'0'-'99' or Blank</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="2"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="SizeWeightEnf" default="N">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
        <xs:enumeration value="Y"/>
        <xs:enumeration value="N"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="TrafficEnf" default="N">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
        <xs:enumeration value="Y"/>
        <xs:enumeration value="N"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="LocalJurisdiction" default="N">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
        <xs:enumeration value="Y"/>
        <xs:enumeration value="N"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="HMInspType">
    <xs:annotation>
      <xs:documentation>'B'=Bulk; 'N'=Non-Bulk; Blank=No HM Inspection
</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="USDOTNum">

```

```
<xs:annotation>
  <xs:documentation>Left-padded with '0's if less than 8</xs:documentation>
</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:string">
    <xs:maxLength value="8"/>
    <xs:minLength value="8"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="StateCensusNum">
  <xs:annotation>
    <xs:documentation>Intrastate Carrier ID</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="12"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="ICNum">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="6"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="MexicanCarrierID">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="15"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="Interstate" default="N">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="1"/>
      <xs:enumeration value="Y"/>
      <xs:enumeration value="N"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="CarrName">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="120"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="CarrStreet">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="50"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```



```
<xs:element name="CarrColonia">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="25"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="CarrCity">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="25"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="CarrState">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="2"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="CarrZipCode">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="10"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="CarrPhone">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="13"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="CarrFax">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="13"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="ShipName">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="120"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="ShipNum">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="15"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="DriverLName">
```

```
<xs:annotation>
  <xs:documentation>Must be blank for Level 5
Inspections</xs:documentation>
</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:string">
    <xs:maxLength value="20"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="DriverFName">
  <xs:annotation>
    <xs:documentation>Must be blank for Level 5
Inspections</xs:documentation>
  </xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:string">
    <xs:maxLength value="20"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="DriverMI">
  <xs:annotation>
    <xs:documentation>Must be blank for Level 5
Inspections</xs:documentation>
  </xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:string">
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  </xs:restriction>
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  <xs:annotation>
    <xs:documentation>Must be blank for Level 5
Inspections</xs:documentation>
  </xs:annotation>
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</xs:simpleType>
</xs:element>
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  <xs:annotation>
    <xs:documentation>Required if 'DriverLicNum' entered. Must be blank for
Level 5 Inspections</xs:documentation>
  </xs:annotation>
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  <xs:restriction base="xs:string">
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</xs:simpleType>
</xs:element>
<xs:element name="DriverDOB">
  <xs:annotation>
```

```

        <xs:documentation>Must be blank for Level 5
Inspections</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string"/>
    </xs:simpleType>
</xs:element>
<xs:element name="CoDriverLName">
    <xs:annotation>
        <xs:documentation>Must be blank for Level 5
Inspections</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
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        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="CoDriverFName">
    <xs:annotation>
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Inspections</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
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            <xs:maxLength value="20"/>
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    </xs:simpleType>
</xs:element>
<xs:element name="CoDriverMI">
    <xs:annotation>
        <xs:documentation>Must be blank for Level 5
Inspections</xs:documentation>
    </xs:annotation>
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        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="CoDriverLicNum">
    <xs:annotation>
        <xs:documentation>Must be blank for Level 5
Inspections</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
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    </xs:simpleType>
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    <xs:annotation>
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for Level 5 Inspections</xs:documentation>
    </xs:annotation>
    <xs:simpleType>

```

```

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    <xs:annotation>
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Inspections</xs:documentation>
    </xs:annotation>
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    </xs:simpleType>
</xs:element>
<xs:element name="Cargo">
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        <xs:restriction base="xs:string">
            <xs:maxLength value="25"/>
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    </xs:simpleType>
</xs:element>
<xs:element name="Origin">
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    </xs:simpleType>
</xs:element>
<xs:element name="Destination">
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        <xs:restriction base="xs:string">
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    </xs:simpleType>
</xs:element>
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    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="CargoTankSpecNum">
    <xs:annotation>
        <xs:documentation>Type of HM Cargo Tank</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="3"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="GCWR" type="xs:integer">
    <xs:annotation>
        <xs:documentation>Gross Combination Weight Rating</xs:documentation>

```

```
    </xs:annotation>
  </xs:element>
  <xs:element name="Axles">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="2"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="TotalHM">
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      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="TotalVehicle">
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        <xs:maxLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="TotalVio">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="3"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="TotalOOSVio">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="3"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="TotalVehicleOOSVio">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="3"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="TotalDriverOOSVio">
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      <xs:restriction base="xs:string">
        <xs:maxLength value="3"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="Accident" default="N">
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        <xs:maxLength value="1"/>
        <xs:enumeration value="Y"/>
        <xs:enumeration value="N"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
```

```
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="OOSUntil">
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          <xs:maxLength value="40"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="VehicleOOS" default="N">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="1"/>
          <xs:enumeration value="Y"/>
          <xs:enumeration value="N"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="DriverOOS" default="N">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="1"/>
          <xs:enumeration value="Y"/>
          <xs:enumeration value="N"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="Unit1PlateNum">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="12"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="Notes">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="65534"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="AspenMatch">
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        <xs:restriction base="xs:string">
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        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="AspenVersionNum">
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      </xs:simpleType>
    </xs:element>
    <xs:element name="RptStatus" default="I">
```

```
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    <xs:maxLength value="1"/>
    <xs:enumeration value="I"/>
    <xs:enumeration value="C"/>
    <xs:enumeration value="T"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="Transferred">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="True"/>
      <xs:enumeration value="False"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="TranDate" type="xs:date"/>
<xs:element name="TranTime" type="xs:time"/>
<xs:element name="Tag">
  <xs:simpleType>
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    </xs:restriction>
  </xs:simpleType>
</xs:element>
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  </xs:simpleType>
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  </xs:simpleType>
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    <xs:restriction base="xs:string">
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  <xs:simpleType>
    <xs:restriction base="xs:string">
```

```

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    </xs:simpleType>
</xs:element>
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    </xs:simpleType>
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            <xs:maxLength value="3"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:key name="InspMain_RptNum">
    <xs:selector xpath="."/>
    <xs:field xpath="RptNum"/>
</xs:key>
</xs:element>
<xs:element name="Vehicles">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Vehicle" maxOccurs="6">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="RptNum">
                            <xs:annotation>
                                <xs:documentation>Part of Primary Key (1 of
2)</xs:documentation>
                            </xs:annotation>
                        </xs:element>
                        <xs:element name="UnitNum">
                            <xs:annotation>
                                <xs:documentation>Part of Primary Key (2 of
2)</xs:documentation>
                            </xs:annotation>
                        </xs:element>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
    <xs:restriction base="xs:string">
        <xs:maxLength value="12"/>
    </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="UnitNum">
    <xs:annotation>
        <xs:documentation>Part of Primary Key (2 of
2)</xs:documentation>
    </xs:annotation>
</xs:element>
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    <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
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</xs:simpleType>

```



```

        <xs:enumeration value="1"/>
        <xs:enumeration value="2"/>
        <xs:enumeration value="3"/>
        <xs:enumeration value="4"/>
        <xs:enumeration value="5"/>
        <xs:enumeration value="6"/>
    </xs:restriction>
</xs:simpleType>
</xs:element>
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    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="2"/>
            <xs:enumeration value="BU"/>
            <xs:enumeration value="DC"/>
            <xs:enumeration value="FT"/>
            <xs:enumeration value="IC"/>
            <xs:enumeration value="LM"/>
            <xs:enumeration value="MC"/>
            <xs:enumeration value="OT"/>
            <xs:enumeration value="PT"/>
            <xs:enumeration value="SB"/>
            <xs:enumeration value="ST"/>
            <xs:enumeration value="TR"/>
            <xs:enumeration value="TT"/>
            <xs:enumeration value="VN"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="UnitMake">
    <xs:annotation>
        <xs:documentation>Vehicle NCIC Code (from lookup
table)</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="10"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="UnitYear">
    <xs:annotation>
        <xs:documentation>4 Digit Year</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
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            <xs:maxLength value="4"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="UnitCoNum">
    <xs:annotation>
        <xs:documentation>Vehicle Company
Number</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">

```

```

        <xs:maxLength value="15"/>
    </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="UnitLicNum">
    <xs:annotation>
        <xs:documentation>Vehicle License Plate
Number</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="12"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="UnitLicState">
    <xs:annotation>
        <xs:documentation>Required Field</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="2"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="UnitVin">
    <xs:annotation>
        <xs:documentation>Vehicle Identification
Number</xs:documentation>
    </xs:annotation>
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        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="UnitGVWR" type="xs:integer" default="0">
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        <xs:documentation>Vehicle Weight Rating</xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="CVSADecal">
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    </xs:simpleType>
</xs:element>
<xs:element name="DecalNum">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="8"/>
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</xs:element>
<xs:element name="OOSNum">
    <xs:simpleType>

```

```

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            </xs:simpleType>
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    </xs:sequence>
</xs:complexType>
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    <xs:selector xpath="."/>
    <xs:field xpath="RptNum"/>
</xs:keyref>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Violations" minOccurs="0">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Violation" maxOccurs="unbounded">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="RptNum">
                            <xs:annotation>
                                <xs:documentation>Part of Primary Key (1 of

```

```
2)</xs:documentation>
```

```

                </xs:annotation>
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                <xs:restriction base="xs:string">
                    <xs:maxLength value="12"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="ViolD" type="xs:integer">
            <xs:annotation>
                <xs:documentation>Part of Primary Key (2 of

```

```
2)</xs:documentation>
```

```

                </xs:annotation>
            </xs:element>
            <xs:element name="UnitNum">
                <xs:simpleType>
                    <xs:restriction base="xs:string">
                        <xs:maxLength value="1"/>
                        <xs:enumeration value="1"/>
                        <xs:enumeration value="2"/>
                        <xs:enumeration value="3"/>
                        <xs:enumeration value="4"/>
                        <xs:enumeration value="5"/>
                        <xs:enumeration value="6"/>
                        <xs:enumeration value="D"/>
                        <xs:enumeration value="C"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:element>
            <xs:element name="FedVioCode">
                <xs:annotation>
                    <xs:documentation>Federal Violation Code (from lookup

```

```
table)</xs:documentation>
```

```

        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:maxLength value="25"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="StateVioCode">
        <xs:annotation>
            <xs:documentation>State Violation Code (if
applicable)</xs:documentation>

        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:maxLength value="25"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="SectionCode">
        <xs:annotation>
            <xs:documentation>Official Section Code (from lookup
table)</xs:documentation>

        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:maxLength value="25"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="VioDesc">
        <xs:annotation>
            <xs:documentation>Full Violation
Description</xs:documentation>

        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:maxLength value="162"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="VioDescType">
        <xs:annotation>
            <xs:documentation>'S'=Standard;
'C'=Custom</xs:documentation>

        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:maxLength value="1"/>
                <xs:enumeration value="S"/>
                <xs:enumeration value="C"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="OOS" default="N">
        <xs:annotation>
            <xs:documentation>'Y'=Yes; 'N'=No</xs:documentation>
        </xs:annotation>

```

```

    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
        <xs:enumeration value="Y"/>
        <xs:enumeration value="N"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="DefectVerCode" default="N">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
        <xs:enumeration value="A"/>
        <xs:enumeration value="B"/>
        <xs:enumeration value="D"/>
        <xs:enumeration value="N"/>
        <xs:enumeration value="U"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="CitationNum">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="15"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="ShipID" type="xs:string">
    <xs:annotation>
      <xs:documentation>Internal Link Field</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="FedState">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
        <xs:enumeration value="F"/>
        <xs:enumeration value="S"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="AspenTag">
    <xs:annotation>
      <xs:documentation>Internal use only</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="PostCrash" default="N">
    <xs:annotation>
      <xs:documentation>Was violation associated with
crash?</xs:documentation>
    </xs:annotation>
  </xs:simpleType>

```

```

        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
        </xs:restriction>
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</xs:element>
</xs:sequence>
</xs:complexType>
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    <xs:selector xpath="."/>
    <xs:field xpath="RptNum"/>
</xs:keyref>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Brakes" minOccurs="0">
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        <xs:sequence>
            <xs:element name="Brake" maxOccurs="14">
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                    <xs:sequence>
                        <xs:element name="RptNum">
                            <xs:annotation>
                                <xs:documentation>Part of Primary Key (1 of

```

2)</xs:documentation>

```

                            </xs:annotation>
                        </xs:element>
                    </xs:sequence>
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            </xs:element>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AxleNum" type="xs:integer">
    <xs:annotation>
        <xs:documentation>Part of Primary Key (2 of

```

2)</xs:documentation>

```

        </xs:annotation>
    </xs:element>
<xs:element name="ChamberSubType">
    <xs:annotation>
        <xs:documentation>From lookup table</xs:documentation>
    </xs:annotation>
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    </xs:simpleType>
</xs:element>
<xs:element name="LeftBrake">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="6"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>

```

```

        <xs:element name="RightBrake">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:maxLength value="6"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:keyref name="Brakes_RptNum" refer="InspMain_RptNum">
    <xs:selector xpath="."/>
    <xs:field xpath="RptNum"/>
</xs:keyref>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="HazMats" minOccurs="0">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="HazMat" maxOccurs="3">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="RptNum">
                            <xs:annotation>
                                <xs:documentation>Part of Primary Key (1 of

```

2)</xs:documentation>

```

                                </xs:annotation>
                            <xs:simpleType>
                                <xs:restriction base="xs:string">
                                    <xs:maxLength value="12"/>
                                </xs:restriction>
                            </xs:simpleType>
                        </xs:element>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="HMSeqNum">
                <xs:annotation>
                    <xs:documentation>Part of Primary Key (2 of

```

2)</xs:documentation>

```

                    </xs:annotation>
                <xs:simpleType>
                    <xs:restriction base="xs:string">
                        <xs:maxLength value="1"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:element>
            <xs:element name="HMCode">
                <xs:annotation>
                    <xs:documentation>From lookup table</xs:documentation>
                </xs:annotation>
                <xs:simpleType>
                    <xs:restriction base="xs:string">
                        <xs:maxLength value="3"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:element>
            <xs:element name="HMQuantity" default="N">
                <xs:simpleType>

```

```

        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="HMWaste" default="N">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="HMDescription">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:keyref name="HazMat_RptNum" refer="InspMain_RptNum">
    <xs:selector xpath="."/>
    <xs:field xpath="RptNum"/>
</xs:keyref>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Shippers" minOccurs="0">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Shipper" maxOccurs="unbounded">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="RptNum">
                            <xs:annotation>
                                <xs:documentation>Part of Primary Key (1 of
2)</xs:documentation>
                            </xs:annotation>
                        </xs:element>
                        <xs:simpleType>
                            <xs:restriction base="xs:string">
                                <xs:maxLength value="12"/>
                            </xs:restriction>
                        </xs:simpleType>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="ShipID" type="xs:integer">
                <xs:annotation>
                    <xs:documentation>Part of Primary Key (2 of 2); Links to
'ShipID' in Violation table</xs:documentation>
                </xs:annotation>
            </xs:element>
            <xs:element name="ShipUSDOTNum">

```



```
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="8"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    <xs:element name="ShipName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="120"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="ShipAddress">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="50"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="ShipCity">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="25"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="ShipState">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="2"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="ShipZipCode">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="10"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:keyref name="Shipper_RptNum" refer="InspMain_RptNum">
  <xs:selector xpath="."/>
  <xs:field xpath="RptNum"/>
</xs:keyref>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="LocalFields" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="LocalField" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
```

```

2) </xs:documentation>
    <xs:element name="RptNum">
      <xs:annotation>
        <xs:documentation>Part of Primary Key (1 of
2) </xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="12"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="OptFieldID" type="xs:integer">
      <xs:annotation>
        <xs:documentation>Part of Primary Key (2 of
2) </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="OptFieldData">
      <xs:annotation>
        <xs:documentation>Local Field Data</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="30"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="Printout">
      <xs:annotation>
        <xs:documentation>Not currently used</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="1"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:keyref name="LocalDef_RptNum" refer="InspMain_RptNum">
  <xs:selector xpath="."/>
  <xs:field xpath="RptNum"/>
</xs:keyref>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Level6" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="RptNum">
        <xs:annotation>
          <xs:documentation>Primary Key Field</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="12"/>

```

```
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="PointOfOrigin" default="N">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="EnRoute" default="N">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="PointOfDestination" default="N">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="Accident" default="N">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="Incident" default="N">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="HRCQ" default="N">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
```

```
<xs:element name="RQ" default="N">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="1"/>
      <xs:enumeration value="Y"/>
      <xs:enumeration value="N"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="TRUWaste" default="N">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="1"/>
      <xs:enumeration value="Y"/>
      <xs:enumeration value="N"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="ProperShippingName">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="120"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="ShipIDNumber">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="25"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="InstrumentType">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="20"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="InstrumentSerialNumber">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="15"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="ProbeNumber">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="15"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="Background" type="xs:double"/>
<xs:element name="Two-Meter" type="xs:double"/>
<xs:element name="Two-MeterVehicleLoc">
  <xs:simpleType>
```

```
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="In-Cab" type="xs:double"/>
<xs:element name="In-CabVehicleLoc">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="Surface" type="xs:double"/>
<xs:element name="SurfaceVehicleLoc">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="Undercarriage" type="xs:double"/>
<xs:element name="UndercarriageVehicleLoc">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="PackageType">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="10"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="SerialNumber1">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="6"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="TransportIndex1">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="6"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="SerialNumber2">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="6"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
```

```

    <xs:element name="TransportIndex2">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="6"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="SerialNumber3">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="6"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="TransportIndex3">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="6"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:keyref name="LevelVI_RptNum" refer="InspMain_RptNum">
  <xs:selector xpath="."/>
  <xs:field xpath="RptNum"/>
</xs:keyref>
</xs:element>
<xs:element name="Level6Violations" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Level6Violation" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="RptNum">
              <xs:annotation>
                <xs:documentation>Part of Primary Key (1 of
2)</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="ViolID" type="xs:integer">
              <xs:annotation>
                <xs:documentation>Part of Primary Key (2 of
2)</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="UnitNum">
              <xs:simpleType>
                <xs:restriction base="xs:string">
                  <xs:maxLength value="1"/>
                  <xs:enumeration value="1"/>
                  <xs:enumeration value="2"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

        <xs:enumeration value="3"/>
        <xs:enumeration value="4"/>
        <xs:enumeration value="5"/>
        <xs:enumeration value="6"/>
        <xs:enumeration value="D"/>
        <xs:enumeration value="C"/>
    </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="FedVioCode">
    <xs:annotation>
        <xs:documentation>Federal Violation Code (from lookup
table)</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="25"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="SectionCode">
    <xs:annotation>
        <xs:documentation>Official Section Code (from lookup
table)</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="25"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="LevelVIOOS" default="N">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="VioDesc">
    <xs:annotation>
        <xs:documentation>Full Violation
Description</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="162"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:keyref name="LvIVIVio_RptNum" refer="InspMain_RptNum">
    <xs:selector xpath="."/>
    <xs:field xpath="RptNum"/>
</xs:keyref>

```

```
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="Application" type="xs:string" use="required"/>
<xs:attribute name="InterfaceVersion" type="xs:string" use="required"/>
</xs:complexType>
</xs:element>
</xs:schema>
```