

DOT Form 5800.1 Hazardous Materials Incident Report XML Schema

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<?xml version="1.0" encoding="UTF-8"?>
<!--
Department of Transportation
Pipeline and Hazardous Materials Safety Administration (PHMSA)

XML Schema for Hazardous Materials Incident Report
Form DOT 5800.1 (01-2004)
-->
<xs:schema
targetNamespace="http://hazmat.dot.gov/enforce/spills/spills.htm"
xmlns="http://hazmat.dot.gov/enforce/spills/spills.htm"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified"
version="01-2004" xml:lang="EN">

  <xs:annotation>
    <xs:documentation>
      Department of Transportation
      Pipeline and Hazardous Materials Safety Administration (PHMSA)
      XML Schema for Hazardous Materials Incident Report
      Form DOT 5800.1 (01-2004)
    </xs:documentation>
  </xs:annotation>

  <xs:element name="IncidentReport">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="ReportType"
          type="reportType"/>
        <xs:element name="GeneralIncidentInformation"
          type="generalIncidentInformation"/>
        <xs:element name="Consequences"
          type="consequences"/>
        <xs:element name="DescriptionOfEventsAndPackageFailure"
          type="descriptionOfEventsAndPackageFailure"
          minOccurs="0"/>
        <xs:element name="RecommendationsTakenToPreventRecurrence"
          type="recommendationsTakenToPreventRecurrence"
          minOccurs="0"/>
        <xs:element name="ContactInformation"
          type="contactInformation"/>
      </xs:sequence>
      <xs:attribute name="OMBControlNumber" type="token"
        fixed="2137-0039" use="optional"/>
    </xs:complexType>
  </xs:element>

  <!-- Part 1 ===== -->
  <xs:complexType name="reportType">
    <xs:sequence>
      <xs:choice id="q1">
        <xs:element name="A-ReleaseIncident" type="empty"/>
        <xs:element name="B-UndeclaredShipment" type="empty"/>
        <xs:element name="C-TankDamage" type="empty"/>
      </xs:choice>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
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</xs:choice>
<xs:choice id="q2">
<xs:element name="InitialReport">
<xs:complexType>
<xs:sequence>
<xs:element name="CustomerTrackingNumber"
type="customerTrackingNumber" />
<xs:element name="RespondToEmailAddress"
type="emailAddress"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="SupplementalReport">
<xs:complexType>
<xs:sequence>
<xs:element name="CustomerTrackingNumber"
type="customerTrackingNumber" />
<xs:element name="RespondToEmailAddress"
type="emailAddress"/>
<xs:element name="IncidentReportNumber"
type="incidentReportNumber"/>
<xs:element name="IncidentTrackingNumber"
type="incidentTrackingNumber"/>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:choice>
</xs:sequence>
</xs:complexType>

<xs:simpleType name="customerTrackingNumber">
<xs:restriction base="token">
<xs:maxLength value="20"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="incidentReportNumber">
<xs:restriction base="token">
<xs:maxLength value="12"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="incidentTrackingNumber">
<xs:restriction base="token">
<xs:maxLength value="20"/>
</xs:restriction>
</xs:simpleType>

<!-- Part 2 ===== -->
<xs:complexType name="generalIncidentInformation">
<xs:sequence>
<xs:element name="DateOfIncident" type="xs:date" id="q3"/>
<xs:element name="TimeOfIncident" type="xs:time" id="q4"/>
<xs:element name="NationalResponseCenterReportNumber" minOccurs="0"
id="q5">
<xs:simpleType>
<xs:restriction base="xs:positiveInteger">

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<xs:totalDigits value="8"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="ReportToAnotherDOTAgency" minOccurs="0" id="q6">
<xs:complexType>
<xs:sequence>
<xs:element name="DOTAgency" type="dotAgency"/>
<xs:element name="ReportNumber">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="12"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="LocationOfIncident" id="q7">
<xs:complexType>
<xs:choice>
<xs:element name="US_Location">
<xs:complexType>
<xs:sequence>
<xs:choice>
<xs:sequence>
<xs:element name="City" type="city"/>
<xs:element name="County" type="county"
minOccurs="0"/>
<xs:element name="State" type="state"/>
<xs:element name="Route" type="route"/>
</xs:sequence>
<xs:sequence>
<xs:element name="County" type="county"/>
<xs:element name="State" type="state"/>
<xs:element name="Route" type="route"/>
</xs:sequence>
</xs:choice>
<xs:element name="PostalCode" type="postalCode"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="NonUS_Location">
<xs:complexType>
<xs:sequence>
<xs:element name="City" type="city" minOccurs="0"/>
<xs:element name="County" type="county"
minOccurs="0"/>
<xs:element name="State" type="nonUS_State"
minOccurs="0"/>
<xs:element name="Route" type="route"/>
<xs:element name="PostalCode" type="postalCode"
minOccurs="0"/>
<xs:element name="Country" type="country"/>
</xs:sequence>
</xs:complexType>

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</xs:element>
</xs:choice>
</xs:complexType>
</xs:element>
<xs:choice id="q8">
  <xs:element name="AirTransportation"
    type="airIncidentInformation"/>
  <xs:element name="ModeOfTransportation">
    <xs:simpleType>
      <xs:restriction base="token">
        <xs:enumeration value="Highway"/>
        <xs:enumeration value="Rail"/>
        <xs:enumeration value="Water"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
</xs:choice>
<xs:element name="TransportationPhase" id="q9">
  <xs:simpleType>
    <xs:restriction base="token">
      <xs:enumeration value="In Transit"/>
      <xs:enumeration value="Loading"/>
      <xs:enumeration value="Unloading"/>
      <xs:enumeration value="In Transit Storage"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="Carrier-Reporter" id="q10">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Name">
        <xs:simpleType>
          <xs:restriction base="token">
            <xs:maxLength value="80"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="Address" type="address"/>
      <xs:element name="FederalDOTIdNumber" minOccurs="0">
        <xs:simpleType>
          <xs:restriction base="token">
            <xs:maxLength value="12"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="HazmatRegistrationNumber" minOccurs="0">
        <xs:simpleType>
          <xs:restriction base="token">
            <xs:maxLength value="14"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Shipper-Offendor" type="shipper-Offendor"
  minOccurs="unbounded" id="q11"/>

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</xs:sequence>
</xs:complexType>

<xs:simpleType name="dotAgency">
<xs:restriction base="token">
<xs:enumeration
value="Office of the Secretary of Transportation (OST)"/>
<xs:enumeration value="Bureau of Transportation Statistics (BTS)"/>
<xs:enumeration value="Federal Aviation Administration (FAA)"/>
<xs:enumeration value="Federal Highway Administration (FHWA)"/>
<xs:enumeration
value="Federal Motor Carrier Safety Administration (FMCSA)"/>
<xs:enumeration value="Federal Railroad Administration (FRA)"/>
<xs:enumeration value="Federal Transit Administration (FTA)"/>
<xs:enumeration value="Maritime Administration (MARAD)"/>
<xs:enumeration
value="National Highway Traffic Safety Administration (NHTSA)"/>
<xs:enumeration value="Office of the Inspector General (OIG)"/>
<xs:enumeration
value="Research and Special Programs Administration (RSPA)"/>
<xs:enumeration
value="Saint Lawrence Seaway Development Corporation (SLSDC)"/>
<xs:enumeration value="Surface Transportation Board (STB)"/>
</xs:restriction>
</xs:simpleType>

<xs:complexType name="shipper-Offendor">
<xs:sequence>
<xs:element name="Name">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="80"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="Address" type="address"/>
<xs:element name="Waybill-ShippingPaper" minOccurs="0">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="30"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="HazmatRegistrationNumber" minOccurs="0">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="14"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="Origin" type="address" minOccurs="0" id="q12"/>
<xs:element name="HazardousMaterial" type="hazardousMaterial"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="hazardousMaterial">

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<xs:sequence>
  <xs:element name="ShippingName" id="q14">
    <xs:simpleType>
      <xs:restriction base="token">
        <xs:maxLength value="250"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="Technical-TradeName" minOccurs="0" id="q15">
    <xs:simpleType>
      <xs:restriction base="token">
        <xs:maxLength value="100"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="HazardousClass-Division" id="q16">
    <xs:simpleType>
      <xs:restriction base="token">
        <xs:minLength value="2"/>
        <xs:maxLength value="2"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="IdentificationNumber" id="q17">
    <xs:simpleType>
      <xs:restriction base="token">
        <xs:maxLength value="6"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="PackingGroup" minOccurs="0" id="q18">
    <xs:simpleType>
      <xs:restriction base="token">
        <xs:enumeration value="I"/>
        <xs:enumeration value="II"/>
        <xs:enumeration value="III"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:choice id="q19">
    <xs:element name="QuantityReleased" type="quantity"/>
    <xs:element name="QuantityReleased_No" type="empty"/>
  </xs:choice>
  <xs:choice id="q20">
    <xs:element name="HazardousWaste_Yes">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="EPAManifestNumber">
            <xs:simpleType>
              <xs:restriction base="xs:positiveInteger">
                <xs:totalDigits value="20"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:choice>
</xs:sequence>

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<xs:element name="HazardousWaste_No" type="empty"/>
</xs:choice>
<xs:choice id="q21">
<xs:element name="ToxicByInhalation_Yes">
<xs:complexType>
<xs:sequence>
<xs:element name="HazardZone">
<xs:simpleType>
<xs:restriction base="token">
<xs:pattern value="[A-D]"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ToxicByInhalation_No" type="empty"/>
</xs:choice>
<xs:choice id="q22">
<xs:element name="Exemption-Approval-CACertificate_Yes">
<xs:complexType>
<xs:sequence>
<xs:element name="CertificateNumber">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="12"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Exemption-Approval-CACertificate_No"
type="empty"/>
</xs:choice>
<xs:choice id="q23">
<xs:element name="UndeclaredShipment_Yes" type="empty"/>
<xs:element name="UndeclaredShipment_No" type="empty"/>
</xs:choice>
<xs:element name="Packaging" type="packaging" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="packaging">
<xs:sequence>
<xs:element name="Destination" type="address" id="q13" minOccurs="0"/>
<xs:element name="PackagingInformation"
type="packagingInformation"/>
</xs:sequence>
</xs:complexType>

<!-- Part 3 ===== -->
<xs:complexType name="packagingInformation">
<xs:sequence>
<xs:choice id="q24">
<xs:element name="NonBulk" type="nonBulk"/>
<xs:element name="IntermediateBulkContainer-IBC"

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type="intermediateBulkContainer"/>
<xs:element name="CargoTankMotorVehicle-CTMV"
type="markedPackaging"/>
<xs:element name="TankCar" type="markedPackaging"/>
<xs:element name="Cylinder" type="markedPackaging"/>
<xs:element name="RadioactiveMaterials"
type="radioactiveMaterials"/>
<xs:element name="PortableTank" type="markedPackaging"/>
<xs:element name="NonSpecificationPackaging"
type="nonSpecificationPackaging"/>
</xs:choice>
<xs:element name="Failure" minOccurs="0" maxOccurs="unbounded"
id="q25">
<xs:complexType>
<xs:sequence>
<xs:element name="WhatFailed"
type="whatFailed"/>
<xs:element name="HowFailed"
type="howFailed"/>
<xs:element name="CausesOfFailure"
type="causesOfFailure"/>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>

<xs:complexType name="markedPackaging">
<xs:sequence>
<xs:element name="IdentificationMarkings"
type="identificationMarkings" id="q26a-mp"/>
<xs:element name="PackageCapacityAndQuantity"
type="packageCapacityAndQuantity"
minOccurs="0" id="q27-mp"/>
<xs:element name="PackagingConstructionAndTestInformation"
type="packagingConstructionAndTestInformation"
minOccurs="0" id="q28-mp"/>
</xs:sequence>
</xs:complexType>

<xs:simpleType name="identificationMarkings" id="q26a">
<xs:restriction base="token">
<xs:maxLength value="40"/>
</xs:restriction>
</xs:simpleType>

<xs:complexType name="nonBulk">
<xs:choice>
<xs:sequence>
<xs:element name="IdentificationMarkings"
type="identificationMarkings" id="q26a-nb"/>
<xs:element name="AdditionalCharacteristics" minOccurs="0">
<xs:complexType>
<xs:choice>
<xs:element name="SinglePackage"
type="additionalCharacteristics"/>
<xs:sequence>

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<xs:element name="OuterPackaging"
type="additionalCharacteristics"/>
<xs:element name="InnerPackaging"
type="additionalCharacteristics"/>
</xs:sequence>
</xs:choice>
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:choice>
<xs:element name="SinglePackage"
type="nonBulkSingleOuterLayer"/>
<xs:sequence>
<xs:element name="OuterPackaging"
type="nonBulkSingleOuterLayer"/>
<xs:element name="InnerPackaging" type="nonBulkInnerLayer"/>
</xs:sequence>
</xs:choice>
</xs:choice>
</xs:complexType>

<xs:complexType name="additionalCharacteristics">
<xs:sequence>
<xs:element name="PackageCapacityAndQuantity"
type="packageCapacityAndQuantity"
minOccurs="0" id="q27"/>
<xs:element name="PackagingConstructionAndTestInformation"
type="packagingConstructionAndTestInformation"
minOccurs="0" id="q28"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="nonBulkSingleOuterLayer">
<xs:sequence>
<xs:element name="PackagingType">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="1 - Drum"/>
<xs:enumeration value="2 - Wooden Barrel"/>
<xs:enumeration value="3 - Jerrican"/>
<xs:enumeration value="4 - Box"/>
<xs:enumeration value="5 - Bag"/>
<xs:enumeration value="6 - Composite Packaging"/>
<xs:enumeration value="7 - Pressure receptacle"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="MaterialOfConstruction">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="A - Steel"/>
<xs:enumeration value="B - Aluminum"/>
<xs:enumeration value="C - Natural Wood"/>
<xs:enumeration value="D - Plywood"/>
<xs:enumeration value="F - Reconstituted Wood"/>
<xs:enumeration value="G - Fiberboard"/>
<xs:enumeration value="H - Plastic"/>

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<xs:enumeration value="L - Textile"/>
<xs:enumeration value="M - Paper, multi-wall"/>
<xs:enumeration
value="N - Metal other than steel or aluminum"/>
<xs:enumeration value="P - Glass, porcelain, or stoneware"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="HeadType" type="headType" minOccurs="0"/>
<xs:element name="PackageCapacityAndQuantity"
type="packageCapacityAndQuantity"
minOccurs="0" id="q27-nbo"/>
<xs:element name="PackagingConstructionAndTestInformation"
type="packagingConstructionAndTestInformation"
minOccurs="0" id="q28-nbo"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="nonBulkInnerLayer">
<xs:sequence>
<xs:element name="PackagingType">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="1 - Bottle"/>
<xs:enumeration value="2 - Can"/>
<xs:enumeration value="3 - Box"/>
<xs:enumeration value="4 - Bag"/>
<xs:enumeration value="5 - Cylinder"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="MaterialOfConstruction">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="A - Metal (any type)"/>
<xs:enumeration value="B - Glass, porcelain, or stoneware"/>
<xs:enumeration value="C - Plastic"/>
<xs:enumeration value="D - Fiberboard or cardboard"/>
<xs:enumeration value="E - Wood (any type)"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="PackageCapacityAndQuantity"
type="packageCapacityAndQuantity"
minOccurs="0" id="q27-nbi"/>
<xs:element
name="PackagingConstructionAndTestInformation"
type="packagingConstructionAndTestInformation"
minOccurs="0" id="q28-nbi"/>
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</xs:complexType>

<xs:complexType name="intermediateBulkContainer">
<xs:choice>
<xs:sequence>
<xs:element name="IdentificationMarkings"
type="identificationMarkings" id="q26a-ibc"/>

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<xs:element name="AdditionalCharacteristics" minOccurs="0">
  <xs:complexType>
    <xs:choice>
      <xs:element name="SinglePackage"
        type="additionalCharacteristics"/>
      <xs:sequence>
        <xs:element name="OuterPackaging"
          type="additionalCharacteristics"/>
        <xs:element name="InnerPackaging"
          type="additionalCharacteristics"/>
      </xs:sequence>
    </xs:choice>
  </xs:complexType>
</xs:element>
</xs:sequence>
<xs:choice>
  <xs:element name="SinglePackage"
    type="intermediateBulkContainerSingleOuterLayer"/>
  <xs:sequence>
    <xs:element name="OuterPackaging"
      type="intermediateBulkContainerSingleOuterLayer"/>
    <xs:element name="InnerPackaging"
      type="intermediateBulkContainerInnerLayer"/>
  </xs:sequence>
</xs:choice>
</xs:choice>
</xs:complexType>

<xs:complexType name="intermediateBulkContainerSingleOuterLayer">
  <xs:sequence>
    <xs:element name="PackagingType"
      type="intermediateBulkContainerPackagingType"/>
    <xs:element name="MaterialOfConstruction"
      type="intermediateBulkContainerMaterialOfConstruction"/>
    <xs:element name="HeadType" type="headType" minOccurs="0"/>
    <xs:element name="PackageCapacityAndQuantity"
      type="packageCapacityAndQuantity"
      minOccurs="0" id="q27-ibco"/>
    <xs:element name="PackagingConstructionAndTestInformation"
      type="packagingConstructionAndTestInformation"
      minOccurs="0" id="q28-ibco"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="intermediateBulkContainerInnerLayer">
  <xs:sequence>
    <xs:element name="PackagingType"
      type="intermediateBulkContainerPackagingType"/>
    <xs:element name="MaterialOfConstruction"
      type="intermediateBulkContainerMaterialOfConstruction"/>
    <xs:element name="PackageCapacityAndQuantity"
      type="packageCapacityAndQuantity"
      minOccurs="0" id="q27-ibci"/>
    <xs:element name="PackagingConstructionAndTestInformation"
      type="packagingConstructionAndTestInformation"
      minOccurs="0" id="q28-ibci"/>
  </xs:sequence>

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</xs:complexType>

<xs:simpleType name="intermediateBulkContainerPackagingType">
<xs:restriction base="token">
<xs:enumeration value=
"11 - Rigid IBC containing solids discharged by gravity"/>
<xs:enumeration value=
"21 - Rigid IBC containing solids discharged under pressure of more than 10
kPa"/>
<xs:enumeration value="31 - Rigid IBC containing liquids"/>
<xs:enumeration value=
"13 - Flexible IBC containing solids discharged by gravity"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="intermediateBulkContainerMaterialOfConstruction">
<xs:restriction base="token">
<xs:enumeration value="1 - Metal"/>
<xs:enumeration value="2 - Plastic"/>
<xs:enumeration value="3 - Composite"/>
<xs:enumeration value="4 - Fiberboard"/>
<xs:enumeration value="5 - Wooden"/>
<xs:enumeration value="6 - Flexible"/>
</xs:restriction>
</xs:simpleType>

<xs:complexType name="nonSpecificationPackaging">
<xs:sequence>
<xs:element name="Type">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="16"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:choice>
<xs:sequence>
<xs:element name="IdentificationMarkings"
type="identificationMarkings" id="q26a-nsp"/>
<xs:element name="AdditionalCharacteristics" minOccurs="0">
<xs:complexType>
<xs:choice>
<xs:element name="SinglePackage"
type="additionalCharacteristics"/>
<xs:sequence>
<xs:element name="OuterPackaging"
type="additionalCharacteristics"/>
<xs:element name="InnerPackaging"
type="additionalCharacteristics"/>
</xs:sequence>
</xs:choice>
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:choice>
<xs:element name="SinglePackage"
type="nonSpecificationPackagingSingleOuterLayer"/>

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<xs:sequence>
<xs:element name="OuterPackaging"
type="nonSpecificationPackagingSingleOuterLayer"/>
<xs:element name="InnerPackaging"
type="nonSpecificationPackagingInnerLayer"/>
</xs:sequence>
</xs:choice>
</xs:choice>
</xs:sequence>
</xs:complexType>

<xs:complexType name="nonSpecificationPackagingSingleOuterLayer">
<xs:sequence>
<xs:element name="PackagingType" type="token"/>
<xs:element name="MaterialOfConstruction" type="token"/>
<xs:element name="HeadType" type="headType" minOccurs="0"/>
<xs:element name="PackageCapacityAndQuantity"
type="packageCapacityAndQuantity"
minOccurs="0" id="q27-nspo"/>
<xs:element name="PackagingConstructionAndTestInformation"
type="packagingConstructionAndTestInformation"
minOccurs="0" id="q28-nspo"/>
</xs:sequence>
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<xs:complexType name="nonSpecificationPackagingInnerLayer">
<xs:sequence>
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<xs:element name="MaterialOfConstruction" type="token"/>
<xs:element name="PackageCapacityAndQuantity"
type="packageCapacityAndQuantity"
minOccurs="0" id="q27-nspi"/>
<xs:element name="PackagingConstructionAndTestInformation"
type="packagingConstructionAndTestInformation"
minOccurs="0" id="q28-nspi"/>
</xs:sequence>
</xs:complexType>

<xs:simpleType name="headType">
<xs:restriction base="token">
<xs:enumeration value="1 - Non-removable"/>
<xs:enumeration value="2 - Removable"/>
</xs:restriction>
</xs:simpleType>

<xs:complexType name="radioactiveMaterials">
<xs:sequence>
<xs:element name="IdentificationMarkings"
type="identificationMarkings" id="q26a-rm"/>
<xs:choice minOccurs="0">
<xs:element name="SinglePackage"
type="additionalCharacteristics"/>
<xs:sequence>
<xs:element name="OuterPackaging"
type="additionalCharacteristics"/>
<xs:element name="InnerPackaging"
type="additionalCharacteristics"/>

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</xs:sequence>
</xs:choice>
<xs:element name="PackagingCategory" id="q29">
  <xs:simpleType>
    <xs:restriction base="token">
      <xs:enumeration value="Type A"/>
      <xs:enumeration value="Type B"/>
      <xs:enumeration value="Type C"/>
      <xs:enumeration value="Excepted"/>
      <xs:enumeration value="Industrial"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="PackagingCertification">
  <xs:complexType>
    <xs:choice>
      <xs:element name="US_Certification">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="CertificationNumber">
              <xs:simpleType>
                <xs:restriction base="token">
                  <xs:maxLength value="30"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SelfCertified" type="empty"/>
    </xs:choice>
  </xs:complexType>
</xs:element>
<xs:element name="NuclidePresent">
  <xs:simpleType>
    <xs:restriction base="token">
      <xs:maxLength value="80"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="Activity" type="quantity"/>
<xs:element name="TransportIndex">
  <xs:simpleType>
    <xs:restriction base="token">
      <xs:maxLength value="2"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="CriticalSafetyIndex">
  <xs:simpleType>
    <xs:restriction base="token">
      <xs:maxLength value="2"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
```

```

<xs:complexType name="packageCapacityAndQuantity">
  <xs:sequence>
    <xs:element name="PackageCapacity" type="quantity"/>
    <xs:element name="AmountOfMaterialInPackage" type="quantity"/>
    <xs:element name="NumberOfPackagesInShipment">
      <xs:simpleType>
        <xs:restriction base="xs:positiveInteger">
          <xs:totalDigits value="4"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="NumberOfPackagesThatFailed">
      <xs:simpleType>
        <xs:restriction base="xs:nonNegativeInteger">
          <xs:totalDigits value="4"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="packagingConstructionAndTestInformation">
  <xs:sequence>
    <xs:element name="Manufacturer" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="token">
          <xs:maxLength value="80"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="ManufactureDate" type="xs:date" minOccurs="0"/>
    <xs:element name="SerialNumber" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="token">
          <xs:maxLength value="16"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="LastTestDate" type="xs:date" minOccurs="0"/>
    <xs:element name="MaterialOfConstruction" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="token">
          <xs:maxLength value="30"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="DesignPressure" type="pressure" minOccurs="0"/>
    <xs:element name="ShellThickness" type="thickness" minOccurs="0"/>
    <xs:element name="HeadThickness" type="thickness" minOccurs="0"/>
    <xs:element name="ServicePressure" type="pressure" minOccurs="0"/>
    <xs:element name="ValveOrDeviceFailed" minOccurs="0">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Type">
            <xs:simpleType>
              <xs:restriction base="token">

```

```

<xs:maxLength value="16"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="Manufacturer">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="30"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="Model">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="16"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>

<xs:simpleType name="whatFailed">
<xs:restriction base="token">
<xs:enumeration value="101 - Air Inlet"/>
<xs:enumeration value="102 - Auxiliary Valve"/>
<xs:enumeration value="103 - Basic Material"/>
<xs:enumeration value="104 - Body"/>
<xs:enumeration value="105 - Bolts or Nuts"/>
<xs:enumeration value="106 - Bottom Outlet Valve"/>
<xs:enumeration value="107 - Check Valve"/>
<xs:enumeration value="108 - Chime"/>
<xs:enumeration value="109 - Closure (e.g., Cap, Top, or Plug)"/>
<xs:enumeration value="110 - Cover"/>
<xs:enumeration value="111 - Cylinder Neck or Shoulder"/>
<xs:enumeration value="112 - Cylinder Sidewall - Near Base"/>
<xs:enumeration value="113 - Cylinder Sidewall - Other"/>
<xs:enumeration value="114 - Cylinder Valve"/>
<xs:enumeration value="115 - Discharge Valve or Coupling"/>
<xs:enumeration value="116 - Excess Flow Valve"/>
<xs:enumeration value="117 - Fill Hole"/>
<xs:enumeration value="118 - Flange"/>
<xs:enumeration value="119 - Frangible Disc"/>
<xs:enumeration
value="120 - Fusible Pressure Relief Device or Element"/>
<xs:enumeration value="121 - Gasket"/>
<xs:enumeration value="122 - Gauging Device"/>
<xs:enumeration value="123 - Heater Coil"/>
<xs:enumeration value="124 - High Level Sensor"/>
<xs:enumeration value="125 - Hose"/>
<xs:enumeration value="126 - Hose Adaptor or Coupling"/>
<xs:enumeration value="127 - Inlet (Loading) Valve"/>
<xs:enumeration value="128 - Inner Packaging"/>
<xs:enumeration value="129 - Inner Receptacle"/>
<xs:enumeration value="130 - Lifting Feature"/>

```

```

<xs:enumeration value="131 - Lifting Lug"/>
<xs:enumeration value="132 - Liner"/>
<xs:enumeration value="133 - Liquid Line"/>
<xs:enumeration value="134 - Liquid Valve"/>
<xs:enumeration value="135 - Loading or Unloading Lines"/>
<xs:enumeration value="136 - Locking Bar"/>
<xs:enumeration value="137 - Manway or Dome Cover"/>
<xs:enumeration value="138 - Mounting Studs"/>
<xs:enumeration value="139 - O-Ring or Seals"/>
<xs:enumeration value="140 - Outer Frame"/>
<xs:enumeration value="141 - Piping or Fittings"/>
<xs:enumeration value="142 - Piping Shear Section"/>
<xs:enumeration
value="143 - Pressure Relief Valve or Device - Non-Reclosing"/>
<xs:enumeration
value="144 - Pressure Relief Valve or Device - Reclosing"/>
<xs:enumeration value="145 - Remote Control Device"/>
<xs:enumeration value="146 - Sample Line"/>
<xs:enumeration value="147 - Stub Sill (Tank Car)"/>
<xs:enumeration value="148 - Sump"/>
<xs:enumeration value="149 - Tank Head"/>
<xs:enumeration value="150 - Tank Shell"/>
<xs:enumeration value="151 - Thermometer Well"/>
<xs:enumeration value="152 - Threaded Connection"/>
<xs:enumeration value="153 - Vacuum Relief Valve"/>
<xs:enumeration value="154 - Valve Body"/>
<xs:enumeration value="155 - Valve Seat"/>
<xs:enumeration value="156 - Valve Spring"/>
<xs:enumeration value="157 - Valve Stem"/>
<xs:enumeration value="158 - Vapor Valve"/>
<xs:enumeration value="159 - Vent"/>
<xs:enumeration value="160 - Washout"/>
<xs:enumeration value="161 - Weld or Seam"/>
</xs:restriction>
</xs:simpleType>

```

```

<xs:simpleType name="howFailed">
<xs:restriction base="token">
<xs:enumeration value="301 - Abraded"/>
<xs:enumeration value="302 - Bent"/>
<xs:enumeration value="303 - Burst or Ruptured"/>
<xs:enumeration value="304 - Cracked"/>
<xs:enumeration value="305 - Crushed"/>
<xs:enumeration value="306 - Failed to Operate"/>
<xs:enumeration value="307 - Gouged or Cut"/>
<xs:enumeration value="308 - Leaked"/>
<xs:enumeration value="309 - Punctured"/>
<xs:enumeration value="310 - Ripped or Torn"/>
<xs:enumeration value="311 - Structural"/>
<xs:enumeration value="312 - Torn Off or Damaged"/>
<xs:enumeration value="313 - Vented"/>
</xs:restriction>
</xs:simpleType>

```

```

<xs:simpleType name="causesOfFailure">
<xs:restriction base="token">
<xs:enumeration value="501 - Abrasion"/>

```

```

<xs:enumeration value="502 - Broken Component or Device"/>
<xs:enumeration value="503 - Commodity Self-ignition"/>
<xs:enumeration value="504 - Commodity Polymerization"/>
<xs:enumeration
value="505 - Conveyer or Material Handling Equipment Mishap"/>
<xs:enumeration value="506 - Corrosion - Exterior"/>
<xs:enumeration value="507 - Corrosion - Interior"/>
<xs:enumeration value="508 - Defective Component or Device"/>
<xs:enumeration value="509 - Derailment"/>
<xs:enumeration value="510 - Deterioration or Aging"/>
<xs:enumeration value="511 - Dropped"/>
<xs:enumeration value="512 - Fire, Temperature, or Heat"/>
<xs:enumeration value="513 - Forklift Accident"/>
<xs:enumeration value="514 - Freezing"/>
<xs:enumeration value="515 - Human Error"/>
<xs:enumeration
value="516 - Impact with Sharp or Protruding Object (e.g., nails)"/>
<xs:enumeration
value="517 - Improper Preparation for Transportation"/>
<xs:enumeration value="518 - Inadequate Accident Damage Protection"/>
<xs:enumeration value="519 - Inadequate Blocking and Bracing"/>
<xs:enumeration value="520 - Inadequate Maintenance"/>
<xs:enumeration
value="521 - Inadequate Preparation for Transportation"/>
<xs:enumeration value="522 - Inadequate Procedures"/>
<xs:enumeration value="523 - Inadequate Training"/>
<xs:enumeration value="524 - Incompatible Product"/>
<xs:enumeration value="525 - Incorrectly Sized Component or Device"/>
<xs:enumeration value="526 - Loose Closure, Component, or Device"/>
<xs:enumeration
value="527 - Misaligned Material, Component, or Device"/>
<xs:enumeration value="528 - Missing Component or Device"/>
<xs:enumeration value="529 - Overfilled"/>
<xs:enumeration value="530 - Over-pressurized"/>
<xs:enumeration value="531 - Rollover Accident"/>
<xs:enumeration
value="532 - Stub Sill Separation from Tank (Tank Cars)"/>
<xs:enumeration value="533 - Threads Worn or Cross Threaded"/>
<xs:enumeration value="534 - Too Much Weight on Package"/>
<xs:enumeration value="535 - Valve Open"/>
<xs:enumeration value="536 - Vandalism"/>
<xs:enumeration value="537 - Vehicular Crash or Accident Damage"/>
<xs:enumeration value="538 - Water Damage"/>
</xs:restriction>
</xs:simpleType>

<!-- Part 4 ===== -->
<xs:complexType name="consequences">
<xs:sequence>
<xs:element name="ResultsOfIncident" minOccurs="1" id="q30">
<xs:complexType>
<xs:choice>
<xs:sequence>
<xs:element name="Result" maxOccurs="6">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="Spillage"/>

```

```

<xs:enumeration value="Fire"/>
<xs:enumeration value="Explosion"/>
<xs:enumeration
value="Material Entered Waterway/Storm Sewer"/>
<xs:enumeration value="Vapor (Gas) Dispersion"/>
<xs:enumeration value="Environmental Damage"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
<xs:element name="NoRelease" type="empty"/>
</xs:choice>
</xs:complexType>
</xs:element>
<xs:element name="EmergencyResponse" minOccurs="0" id="q31">
<xs:complexType>
<xs:sequence>
<xs:element name="Fire-EMSReport" type="reportNumber"
minOccurs="0"/>
<xs:element name="PoliceReport" type="reportNumber"
minOccurs="0"/>
<xs:element name="InHouseCleanup" type="empty"
minOccurs="0"/>
<xs:element name="OtherCleanup" type="empty"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:choice id="q32">
<xs:element name="DamagesMoreThan500_Yes">
<xs:complexType>
<xs:sequence>
<xs:element name="MaterialLoss" type="cost"/>
<xs:element name="CarrierDamage" type="cost"/>
<xs:element name="PropertyDamage" type="cost"/>
<xs:element name="ResponseCost" type="cost"/>
<xs:element name="Remediation-CleanupCost" type="cost"/>
<xs:element name="TotalCost">
<xs:simpleType>
<xs:restriction base="token">
<xs:pattern value="\$[5-9]\d{2}|\$[1-9]\d{3,7}"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Damages_No" type="empty"/>
</xs:choice>
<xs:element name="HumanFatalities" id="q33">
<xs:complexType>
<xs:sequence>
<xs:choice id="q33a">
<xs:element name="FatalitiesFromHazardousMaterial_Yes"
type="public"/>
<xs:element name="FatalitiesFromHazardousMaterial_No"
type="empty"/>

```

```

</xs:choice>
<xs:choice id="q33b">
  <xs:element name="FatalitiesNotFromHazardousMaterial_Yes">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="FatalitiesNumber">
          <xs:simpleType>
            <xs:restriction base="xs:positiveInteger">
              <xs:totalDigits value="5"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="FatalitiesNotFromHazardousMaterial_No"
    type="empty"/>
</xs:choice>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:choice id="q34">
  <xs:element name="PersonalInjuries_Yes">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Hospitalized" type="public"/>
        <xs:element name="NonHospitalized" type="public"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="PersonalInjuries_No" type="empty"/>
</xs:choice>
<xs:choice id="q35">
  <xs:element name="Evacuation_Yes">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="GeneralPublicEvacuated"
          type="evacuatedNumber"/>
        <xs:element name="EmployeesEvacuated"
          type="evacuatedNumber"/>
        <xs:element name="TotalEvacuated"
          type="evacuatedNumber"/>
        <xs:element name="DurationOfEvacuation" type="duration"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Evacuation_No" type="empty"/>
</xs:choice>
<xs:choice id="q36">
  <xs:element name="TransportationArteryClosed_Yes">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Duration" type="duration"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TransportationArteryClosed_No" type="empty"/>

```

```

</xs:choice>
<xs:choice id="q37">
  <xs:element name="MaterialInvolvedInCrash_Yes">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="EstimatedSpeed">
          <xs:simpleType>
            <xs:restriction base="token">
              <xs:pattern value="\d{1,3} mph"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
        <xs:element name="WeatherConditions">
          <xs:simpleType>
            <xs:restriction base="token">
              <xs:maxLength value="16"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
        <xs:choice>
          <xs:element name="VehicleOverturn_Yes" type="empty"/>
          <xs:element name="VehicleOverturn_No" type="empty"/>
        </xs:choice>
        <xs:choice>
          <xs:element name="VehicleLeftRoadway-Track_Yes"
            type="empty"/>
          <xs:element name="VehicleLeftRoadway-Track_No"
            type="empty"/>
        </xs:choice>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MaterialInvolvedInCrash_No" type="empty"/>
</xs:choice>
</xs:sequence>
</xs:complexType>

<xs:simpleType name="reportNumber">
  <xs:restriction base="token">
    <xs:maxLength value="16"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="public">
  <xs:sequence>
    <xs:element name="Employees" type="publicNumber"/>
    <xs:element name="Responders" type="publicNumber"/>
    <xs:element name="GeneralPublic" type="publicNumber"/>
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="publicNumber">
  <xs:restriction base="xs:nonNegativeInteger">
    <xs:totalDigits value="5"/>
  </xs:restriction>
</xs:simpleType>

```

```

<xs:simpleType name="evacuatedNumber">
<xs:restriction base="xs:nonNegativeInteger">
<xs:totalDigits value="5"/>
</xs:restriction>
</xs:simpleType>

<!-- Part 5 ===== -->
<xs:complexType name="airIncidentInformation">
<xs:sequence>
<xs:choice id="q38">
<xs:element name="ShipmentOnPassengerAircraft_Yes">
<xs:complexType>
<xs:sequence>
<xs:element name="TenderType">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="Cargo"/>
<xs:enumeration value="Passenger baggage"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ShipmentOnPassengerAircraft_No" type="empty"/>
</xs:choice>
<xs:element name="WhereIncidentOccur" id="q39">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="Air carrier cargo facility"/>
<xs:enumeration value="Sort center"/>
<xs:enumeration value="Baggage area"/>
<xs:enumeration value="By surface to/from airport"/>
<xs:enumeration value="During flight"/>
<xs:enumeration
value="During loading/unloading of aircraft"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="PhasesShipmentAlreadyUndergone" id="q40">
<xs:complexType>
<xs:sequence>
<xs:element name="Phase" maxOccurs="4">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration
value="Shipment had not been transported"/>
<xs:enumeration
value="Transported by air (first flight)"/>
<xs:enumeration
value="Transport by air (subsequent flights)"/>
<xs:enumeration
value="Initial transport by highway to cargo facility"/>
<xs:enumeration
value="Transfer at sort center/cargo facility"/>
</xs:restriction>
</xs:simpleType>

```

```

</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>

<!-- Part 6 ===== -->
<xs:complexType name="descriptionOfEventsAndPackageFailure">
<xs:sequence>
<xs:element name="Description">
<xs:simpleType>
<xs:restriction base="xs:string">
<xs:maxLength value="80000"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="Attachments" minOccurs="0">
<xs:complexType>
<xs:sequence>
<xs:element name="Attachment" type="attachment"
minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>

<xs:complexType name="attachment">
<xs:sequence>
<xs:element name="Description">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="80"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="MimeType">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="application/pdf"/>
<xs:enumeration value="text/plain"/>
<xs:enumeration value="image/gif"/>
<xs:enumeration value="image/jpeg"/>
<xs:enumeration value="image/tiff"/>
<xs:enumeration value="image/bmp"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:choice>
<xs:element name="HexData">
<xs:simpleType>
<xs:list>
<xs:simpleType>
<xs:restriction base="xs:hexBinary">
<xs:whiteSpace value="collapse"/>
</xs:restriction>

```

```

</xs:simpleType>
</xs:list>
</xs:simpleType>
</xs:element>
<xs:element name="Base64Data" type="xs:base64Binary"/>
</xs:choice>
</xs:sequence>
</xs:complexType>

<!-- Part 7 ===== -->
<xs:simpleType name="recommendationsTakenToPreventRecurrence">
<xs:restriction base="xs:string">
<xs:maxLength value="4000"/>
</xs:restriction>
</xs:simpleType>

<!-- Part 8 ===== -->
<xs:complexType name="contactInformation">
<xs:sequence>
<xs:element name="ContactsName">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="50"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="ContactsTitle" minOccurs="0">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="50"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="BusinessName">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="80"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="BusinessAddress" type="address"/>
<xs:element name="EmailAddress" type="emailAddress" minOccurs="0"/>
<xs:element name="PhoneNumber">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="25"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="FaxNumber" minOccurs="0">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="25"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="HazmatRegistrationNumber" minOccurs="0">

```

```

<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="14"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:choice>
<xs:element name="Preparer">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="Carrier"/>
<xs:enumeration value="Shipper"/>
<xs:enumeration value="Facility owner/operator"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="OtherPreparer">
<xs:simpleType>
<xs:restriction base="token">
<xs:maxLength value="50"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
</xs:choice>
<xs:element name="Date" type="xs:date" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<!-- ===== -->
<xs:simpleType name="token">
<xs:restriction base="xs:string">
<xs:whiteSpace value="collapse"/>
<xs:minLength value="1"/>
</xs:restriction>
</xs:simpleType>

<xs:complexType name="empty"/>

<xs:complexType name="address">
<xs:choice>
<xs:element name="US_Address">
<xs:complexType>
<xs:sequence>
<xs:element name="Street" type="street" minOccurs="0"/>
<xs:choice>
<xs:sequence>
<xs:element name="City" type="city"/>
<xs:element name="State" type="state"/>
<xs:element name="PostalCode" type="postalCode" />
</xs:sequence>
<xs:sequence>
<xs:element name="State" type="state"/>
<xs:element name="PostalCode" type="postalCode"/>
</xs:sequence>
<xs:element name="PostalCode" type="postalCode"/>
</xs:choice>
</xs:sequence>

```

```

</xs:complexType>
</xs:element>
<xs:element name="NonUS_Address">
<xs:complexType>
<xs:sequence>
<xs:element name="Street" type="street" minOccurs="0"/>
<xs:element name="City" type="city" minOccurs="0"/>
<xs:element name="State" type="nonUS_State" minOccurs="0"/>
<xs:element name="PostalCode" type="postalCode"
minOccurs="0"/>
<xs:element name="Country" type="country"/>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:choice>
</xs:complexType>

<xs:simpleType name="country">
<xs:restriction base="token">
<xs:maxLength value="25"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="street">
<xs:restriction base="token">
<xs:maxLength value="40"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="city">
<xs:restriction base="token">
<xs:maxLength value="40"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="county">
<xs:restriction base="token">
<xs:maxLength value="25"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="state">
<xs:restriction base="token">
<xs:enumeration value="AK - Alaska"/>
<xs:enumeration value="AL - Alabama"/>
<xs:enumeration value="AR - Arkansas"/>
<xs:enumeration value="AZ - Arizona"/>
<xs:enumeration value="CA - California"/>
<xs:enumeration value="CO - Colorado"/>
<xs:enumeration value="CT - Connecticut"/>
<xs:enumeration value="DC - District of Columbia"/>
<xs:enumeration value="DE - Delaware"/>
<xs:enumeration value="FL - Florida"/>
<xs:enumeration value="GA - Georgia"/>
<xs:enumeration value="GU - Guam"/>
<xs:enumeration value="HI - Hawaii"/>
<xs:enumeration value="IA - Iowa"/>

```

```
<xs:enumeration value="ID - Idaho"/>
<xs:enumeration value="IL - Illinois"/>
<xs:enumeration value="IN - Indiana"/>
<xs:enumeration value="KS - Kansas"/>
<xs:enumeration value="KY - Kentucky"/>
<xs:enumeration value="LA - Lousiana"/>
<xs:enumeration value="LA - Louisiana"/>
<xs:enumeration value="MA - Massachusetts"/>
<xs:enumeration value="MD - Maryland"/>
<xs:enumeration value="ME - Maine"/>
<xs:enumeration value="MI - Michigan"/>
<xs:enumeration value="MN - Minnesota"/>
<xs:enumeration value="MO - Missouri"/>
<xs:enumeration value="MS - Mississippi"/>
<xs:enumeration value="MT - Montana"/>
<xs:enumeration value="NC - North Carolina"/>
<xs:enumeration value="ND - North Dakota"/>
<xs:enumeration value="NE - Nebraska"/>
<xs:enumeration value="NH - New Hampshire"/>
<xs:enumeration value="NJ - New Jersey"/>
<xs:enumeration value="NM - New Mexico"/>
<xs:enumeration value="NV - Nevada"/>
<xs:enumeration value="NY - New York"/>
<xs:enumeration value="OH - Ohio"/>
<xs:enumeration value="OK - Oklahoma"/>
<xs:enumeration value="OR - Oregon"/>
<xs:enumeration value="PA - Pennsylvania"/>
<xs:enumeration value="PR - Puerto Rico"/>
<xs:enumeration value="RI - Rhode Island"/>
<xs:enumeration value="SC - South Carolina"/>
<xs:enumeration value="SD - South Dakota"/>
<xs:enumeration value="TN - Tennessee"/>
<xs:enumeration value="TX - Texas"/>
<xs:enumeration value="UT - Utah"/>
<xs:enumeration value="VA - Virginia"/>
<xs:enumeration value="VI - Virgin Islands"/>
<xs:enumeration value="VT - Vermont"/>
<xs:enumeration value="WA - Washington"/>
<xs:enumeration value="WI - Wisconsin"/>
<xs:enumeration value="WV - West Virginia"/>
<xs:enumeration value="WY - Wyoming"/>
<xs:enumeration value="XX - Unknown"/>
</xs:restriction>
</xs:simpleType>
```

```
<xs:simpleType name="nonUS_State">
  <xs:restriction base="token">
    <xs:maxLength value="30"/>
  </xs:restriction>
</xs:simpleType>
```

```
<xs:simpleType name="postalCode">
  <xs:restriction base="token">
    <xs:maxLength value="10"/>
  </xs:restriction>
</xs:simpleType>
```

```

<!-- Street Address, Mile Marker, Yardname, Airport,
Body of Water, River Mile -->
<xs:simpleType name="route">
<xs:restriction base="token">
<xs:maxLength value="30"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="emailAddress">
<xs:restriction base="token">
<xs:pattern value="[\w\._-]+@[ \w-]+\.[\w\._-]+" />
<xs:maxLength value="80"/>
</xs:restriction>
</xs:simpleType>

<xs:complexType name="quantity">
<xs:sequence>
<xs:element name="Quantity">
<xs:simpleType>
<xs:restriction base="xs:decimal">
<xs:minExclusive value="0"/>
<xs:totalDigits value="9"/>
<xs:fractionDigits value="5"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="MeasurementUnit">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="Liquid - Ounce"/>
<xs:enumeration value="Liquid - Cup"/>
<xs:enumeration value="Liquid - Pint"/>
<xs:enumeration value="Liquid - Pound"/>
<xs:enumeration value="Liquid - Liter"/>
<xs:enumeration value="Liquid - Quart"/>
<xs:enumeration value="Liquid - Gallon"/>
<xs:enumeration value="Liquid - Milligram"/>
<xs:enumeration value="Liquid - Barrel"/>
<xs:enumeration value="Liquid - Cubic Centimeter"/>
<xs:enumeration value="Liquid - Gram"/>
<xs:enumeration value="Liquid - Kilogram"/>
<xs:enumeration value="Liquid - Teaspoon"/>
<xs:enumeration value="Liquid - Tablespoon"/>
<xs:enumeration value="Liquid - Milliliter"/>
<xs:enumeration value="Solid - Ounce"/>
<xs:enumeration value="Solid - Pint"/>
<xs:enumeration value="Solid - Pound"/>
<xs:enumeration value="Solid - Quart"/>
<xs:enumeration value="Solid - Kilogram"/>
<xs:enumeration value="Solid - Gallon"/>
<xs:enumeration value="Solid - Ton"/>
<xs:enumeration value="Solid - Metric Ton"/>
<xs:enumeration value="Solid - Long Ton"/>
<xs:enumeration value="Solid - Milligram"/>
<xs:enumeration value="Solid - Gram"/>
<xs:enumeration value="Solid - Liter"/>
<xs:enumeration value="Solid - Teaspoon"/>

```

```
<xs:enumeration value="Solid - Tablespoon"/>
<xs:enumeration value="Gas - Cubic Centimeter"/>
<xs:enumeration value="Gas - Milliliter"/>
<xs:enumeration value="Gas - Cubic Inch"/>
<xs:enumeration value="Gas - Liter"/>
<xs:enumeration value="Gas - Pint"/>
<xs:enumeration value="Gas - Gallon"/>
<xs:enumeration value="Gas - Cubic Foot"/>
<xs:enumeration value="Gas - Quart"/>
<xs:enumeration value="Gas - Yard"/>
<xs:enumeration value="Gas - Pound"/>
<xs:enumeration value="Radioactive - Curie"/>
<xs:enumeration value="Radioactive - Microcurie"/>
<xs:enumeration value="Radioactive - Millicurie"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
```

```
<xs:complexType name="pressure">
<xs:sequence>
<xs:element name="Quantity">
<xs:simpleType>
<xs:restriction base="xs:positiveInteger">
<xs:totalDigits value="4"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="MeasurementUnit">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="psi"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
```

```
<xs:complexType name="thickness">
<xs:sequence>
<xs:element name="Quantity">
<xs:simpleType>
<xs:restriction base="xs:decimal">
<xs:minExclusive value="0"/>
<xs:totalDigits value="4"/>
<xs:fractionDigits value="3"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="MeasurementUnit">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="inch"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
```

```

</xs:sequence>
</xs:complexType>

<xs:simpleType name="cost">
<xs:restriction base="token">
<xs:pattern value="\$\d{1,8}"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="duration">
<xs:restriction base="token">
<xs:pattern value="\d{1,3} hour(s)?" />
</xs:restriction>
</xs:simpleType>

<!-- Response ===== -->
<xs:element name="IncidentReportResponse">
<xs:complexType>
<xs:sequence>
<xs:element name="CustomerTrackingNumber"
type="customerTrackingNumber" />
<xs:element name="IncidentReportNumber"
type="incidentReportNumber" minOccurs="0"/>
<xs:element name="IncidentTrackingNumber"
type="incidentTrackingNumber" minOccurs="0"/>
<xs:element name="Response">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="OK"/>
<xs:enumeration value="WARNING"/>
<xs:enumeration value="ERROR"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="Message" minOccurs="0" maxOccurs="unbounded">
<xs:complexType>
<xs:sequence>
<xs:element name="Type">
<xs:simpleType>
<xs:restriction base="token">
<xs:enumeration value="MINOR"/>
<xs:enumeration value="MAJOR"/>
<xs:enumeration value="INFO"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="Text" type="token"/>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

</xs:schema>

```