

Changes found in the April 2019 DR Hub XSD release are shown below.

Note: All users should be at the April 2019 release level by May 21, 2019. This release is currently available for testing in Train. The April 2019 XSD will move to production on May 21.

Elements included in this release will not be available to implementations consuming a prior release. Major areas of change include Batteries and Generators on Locations.

Prior to updating an XSD, be sure you backup existing versions of both XSD and any in-house changes you have made prior to this release.

It is advisable to perform a file comparison between what you are using today and the XSD you are migrating to.

Please note any changes prior to implementation. March 2019 XSD changes are as follows:

```
<xs:complexType name="generator">
```

```
<!-- Added : element agreementType type which supports Generator Info -->  
<!-- Added : element injectionRight type which supports Generator Info -->  
<!-- Added : type generatorAgreementTypeEnum enum for Generator / Battery  
Agreement Type -->
```

- Generators
 - Agreement Type: Required, values are “None”, “WMPA (wholesale)”, “ISA (wholesale)”, “NEM/Purpa/Other”
 - Injection Rights (MW): Required if Agreement Type is WMPA or ISA

```
<xs:complexType name="generator">  
  <xs:sequence>  
    <xs:element name="id" type="xs:long" minOccurs="0"/>  
    <xs:element name="name" type="xs:string" minOccurs="0"/>  
    <xs:element name="nonRetailBtmg" type="xs:boolean" minOccurs="0"/>  
    <xs:element name="maxOutput" type="xs:double" minOccurs="0"/>  
    <xs:element name="nameplate" type="xs:double" minOccurs="0"/>  
    <xs:element name="backupGeneratorOnly" type="xs:boolean"  
minOccurs="0"/>  
    <xs:element name="generatorType" type="xs:string" minOccurs="0"/>  
    <xs:element name="fuelType" type="xs:string" minOccurs="0"/>  
    <xs:element name="vintage" type="xs:long" minOccurs="0"/>  
    <xs:element name="retrofitYear" type="xs:long" minOccurs="0"/>  
    <xs:element name="permitStatus" type="tns:generatorPermitStatusEnum"  
minOccurs="0"/>  
    <xs:element name="permitType" type="tns:generatorPermitTypeEnum"  
minOccurs="0"/>  
    <xs:element name="agreementType" type="tns:generatorAgreementTypeEnum"  
minOccurs="0"/>  
    <xs:element name="injectionRight" type="xs:double" minOccurs="0"/>  
    <xs:element name="note" type="xs:string" minOccurs="0"/>
```

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

```
<xs:complexType name="battery">
```

```
<!-- Added : element agreementType type which supports Battery Info -->
<!-- Added : element injectionRight type which supports Battery Info -->
<!-- Added : type generatorAgreementTypeEnum enum for Generator / Battery
Agreement Type -->
```

- Batteries

- Agreement Type: Required, values are “None”, “WMPA (wholesale)”, “ISA (wholesale)”, “NEM/Purpa/Other”
- Injection Rights (MW): Required if Agreement Type is WMPA or ISA

```
<xs:complexType name="battery">
  <xs:sequence>
    <xs:element name="id" type="xs:long" minOccurs="0"/>
    <xs:element name="maxOutput" type="xs:double" minOccurs="0"/>
    <xs:element name="capacity" type="xs:double" minOccurs="0"/>
    <xs:element name="vintage" type="xs:long" minOccurs="0"/>
    <xs:element name="chemistry" type="tns:batteryChemistryType"
minOccurs="0"/>
    <xs:element name="type" type="tns:batteryType" minOccurs="0"/>
    <xs:element name="agreementType" type="tns:generatorAgreementTypeEnum"
minOccurs="0"/>
    <xs:element name="injectionRight" type="xs:double" minOccurs="0"/>
    <xs:element name="note" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

```
<!-- Added : type generatorAgreementTypeEnum -->
```

```
<xs:simpleType name="generatorAgreementTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ISA"/>
    <xs:enumeration value="NEM_OTHER"/>
    <xs:enumeration value="NONE"/>
    <xs:enumeration value="WMPA"/>
  </xs:restriction>
</xs:simpleType>
```