

EXHIBIT N

ENUM010 (USPAN 10/052,250 – USPN 9,600,842) Claim 29: XBRL Validator Applicability

29. A computer program product embodied on at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to operate, the computer program product comprising:

code stored on the at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to identify at least one computer-readable Extensible Markup Language (XML)-compliant data document and at least one Business Reporting Language (XBRL)-compliant and includes:

a plurality of line items with a plurality of data values, and

a plurality of computer-readable semantic tags that describe a semantic meaning of the data values;

the computer-readable XML-compliant data document is capable of including multiple hierarchical relationships between the plurality of line items;

code stored on the at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to parse the at least one computer-readable XML-compliant data document, by:

receiving the at least one computer-readable XML-compliant data document,

identifying the multiple hierarchical relationships between the two line items, and at least one of the

semantic tags that describes the semantic meaning of at least one of the data values included in the at least one computer-readable XML-compliant data document;

code stored on the at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to access a plurality of computer-readable rules including:

a computer-readable datatype rule for validation of a type of data values,

a computer-readable calculation rule for validation of a calculation involving data values, and

a computer-readable unit rule for validation of a unit of data values;

code stored on the at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to process the at least one computer-readable XML-compliant data document, by:

identifying at least a subset of the computer-readable rules including at least one of:

the computer-readable datatype rule for validation of the type of data values,

the computer-readable calculation rule for validation of the calculation involving data values, or

the computer-readable unit rule for validation of the unit of data values; and
 processing at least a portion of the data values of at least a portion of the plurality of line items of the
 readable XML-compliant data document, utilizing the at least subset of the computer-readable rules, and at
 computer-readable semantic tags of the at least one computer-readable XML-compliant data document;
 code stored on the at least one non-transitory computer readable medium and configured to cause the at l
 processor to display a result of a validation of the at least one computer-readable XML-compliant data document;
 code stored on the at least one non-transitory computer readable medium and configured to cause the at l
 processor to develop a report, by:
 identifying the at least one computer-readable semantic tag that describes the semantic meaning of
 value included in the at least one computer-readable XML-compliant data document, and
 retrieving data from one or more sources to represent the at least one data value in the report.

Claim 29 Elements	Applicability
A computer program product embodied on at least one non-transitory computer readable medium and configured to cause at least one hardware processor to operate, the computer program product comprising:	Users of an XBRL validator use <i>a computer program product embodied on at least one non-transitory computer readable medium and configured to cause at least one hardware processor to operate, the computer program product.</i> Note: Any entity using XBRL on an official basis requires use of an XBRL validator. An XBRL document complies with relevant rules set forth by the XBRL standard. See excerpt(s) below, for example: https://www.sec.gov/structureddata/edgarviewer EDGAR Renderer is available as an open source application to include within software applications. As of September 28, 2015, the viewer and previewer on the SEC website (www.sec.gov/spotlight/xbrl/viewers.shtml), as well as rendering related error messages, rely on EDGAR Renderer 3.3.0.814. The EDGAR Renderer standalone

	<p>source code are available for download at www.arelle.org/applications and the version 3.2.0.727 is available at https://github.com/Arelle/EdgarRenderer/blob/3.3.0.814/change_log.md.</p> <p>https://www.sec.gov/structureddata/announcement/osd-announcement-1106-renderer-and-validation-engine.html</p> <p>EDGAR® Renderer enables investors to view via the SEC website the interactive data submitted under the SEC's rules that require the use of XBRL. The Previewer provides the capability to test how an interactive data submission will appear on the SEC's website when submitted via EDGAR; the Previewer is only a test mechanism and does not constitute an official filing. Once a company completes its interactive data submission on EDGAR, the rendering will be presented with the official filing on the SEC website. The version of EDGAR Renderer in use on the SEC website is available for download at www.arelle.org/applications as a standalone program. A link to the source code and other versions of EDGAR Renderer are also available at that site.</p> <p>https://www.sec.gov/xbrl</p>
<p>code stored on the at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to identify at least one computer-readable Extensible Markup Language (XML)-compliant data document that is eXtensible</p>	<p>Users of an XBRL validator use <i>code stored on the at least one non-transitory computer-readable medium and configured to cause the at least one hardware processor to identify at least one computer-readable Extensible Markup Language (XML)-compliant data document that is eXtensible Business Reporting Language (XBRL)-compliant and includes: a plurality of data values, and a plurality of computer-readable semantic tags that indicate the semantic meaning of the data values, where the at least one computer-readable data document is capable of including multiple hierarchical relationships between a plurality of line items.</i> See excerpt(s) below, for example (emphasis added):</p>

Business Reporting Language (XBRL)-compliant and includes:

a plurality of line items with a plurality of data values, and

a plurality of computer-readable semantic tags that describe a semantic meaning of the data values, where the at least one computer-readable XML-compliant data document is capable of including multiple hierarchical relationships between two of the plurality of line items;

Note: As set forth below, XBRL documents are required by the XBRL standard to be compliant and include a plurality of line items with a plurality of data values, and computer-readable semantic tags.

“In XBRL terminology, a concept is a definition of a reporting term. Concepts may be defined in the taxonomy Schema [SCHEMA-1] element definitions. In the taxonomy schema a concept is defined by a name and a type. The type defines the kind of data types allowed for facts measured against the concept definition. For example, a “cash” concept would typically have a monetary type. This declares that when cash is reported, its value will be monetary. In contrast, the “accountingPoliciesNote” concept would typically have a string type so that, when “accountingPoliciesNote” is reported in an XBRL instance, its value would be interpreted as a string of characters. Additional constraints on how concepts can be used are documented in the taxonomy Schema [SCHEMA-1] element definitions. The linkbases in a taxonomy further document the meaning of the concepts...The linkbases in a taxonomy further document the meaning of the concepts by expressing relationships between concepts (inter-concept relationships) and by linking to their documentation.”

http://www.xbrl.org/Specification/xbrl-recommendation-2003-12-31+corrected-2004-12-31/25.htm#_Toc202578211

“The core XBRL specifications (see XBRL Essentials) define validation constraints that XBRL processors **must** impose on all XBRL reports. These enforce not only basic syntax but also ensure that the reports comply with the definitions in the taxonomy.”

<http://specifications.xbrl.org/validation.html>

“**instance or instance document XML** file that contains business reporting information. An instance document represents a collection of financial facts and report-specific information using taxonomies from one or more XBRL taxonomies.”

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