Running FERC form validations

Ruleset Files

In order to run rules against an XBRL submission, the appropriate XULE ruleset file must be used. The validation ruleset file is a zip file that defines the rules to run for a specific form category such as Form 1. The ruleset file is used against all forms in that category. For example, the Form 1 ruleset file is used to validate the Annual Form the Quarterly Form and the Form 1F. The ruleset file is processed using a XULE processor. The Arelle processor, Altova XML Spy and software supporting FERC eForms submissions can be used to validate files locally. Test submissions can also be made to the eForms portal that will also run validation routines over the filing.

The latest ruleset files will be available on the eForms portal at https://eCollection.ferc.gov/taxonomyHistory.

Using the Arelle XULE Processor

In order to run the validation rules using the Arelle processor the XULE plugin is used. This plugin is included in the Arelle distribution.

Arelle can be downloaded from the Arelle website at https://arelle.org/arelle/pub/

In addition to the Arelle processor the filer needs to download the appropriate ruleset zip file. This file defines the logic of the rules and is used by Arelle to execute the rules against the filing.

The rules can be executed using the Arelle command line and passing the location of the XBRL instance and rule set as parameters.

Command line operation.

In order to run the rules from the Arelle command line on a PC the following command is used:

```
arellecmdline --plugins "xule" --xule-rule-set "{Location of ruleset file}\F1-
ruleset-V1.zip" -f "{Location of the XBRL submission file}\electricCo.xbrl" -v --
logFile "{Location of validation error file}\ElectricCo_errors.xml"
```

The parameters are as follows:

`--plugins`: This argument references the XULE plugin called by Arelle. This is included as part of the Arelle distribution.

`--xule-rule-set`: This argument references the location of the ruleset zip file provided by FERC.

`-f`: This argument is used to define the location of the instance file.

`-v`: This argument is required to indicate that the Arelle processor should perform a validation.

`--logFile`: This argument is used to define the output file where the results of the rules is written to.