Gas Pipeline & New FERC XBRL Requirements

November 4, 2020

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Agenda

- XBRL Fundamentals
- CPE Questions
- Instructions on preparing Forms 2, 2-A and 3-Q natural gas
- CPE Questions
- Other programs and events

XBRL (eXtensible Business Reporting Language)

- Open
- Nonproprietary
- Maintained by XBRL International – global nonprofit standards body, responsible for maintaining and expanding upon the specification, multiple country jurisdictions
- Supported by XBRL US – national standards setter, responsible for development work and adoption efforts in the United States
- XBRL is not:

  - A technical format like XML or JSON

  - A product

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XBRL gives meaning to data

31	**CURRENT AND ACCRUED ASSETS**			
32	Cash (131)		10,890,758	
33	Special Deposits (132-134)		2,090,720	2,433,653
34	Working Funds (135)		24,534	24,650
35	Temporary Cash Investments (136)	222-223	50,000,240	73,363,294
36	Notes Receivable (141)		0	0
37	Customer Accounts Receivable (142)		60,017,312	66,293,962
38	Other Accounts Receivable (143)		3,313,926	320,639
39	(Less) Accum. Provision for Uncollectible Accounts - Credit (144)		0	0
40	Notes Receivable from Associated Companies (145)		230,000,000	150,000,000
41	Accounts Receivable from Associated Companies (146)		7,429,914	7,472,725
42	Fuel Stock (151)		0	0
43	Fuel Stock Expenses Undistributed (152)		0	0

Cash

Data Type: Monetary

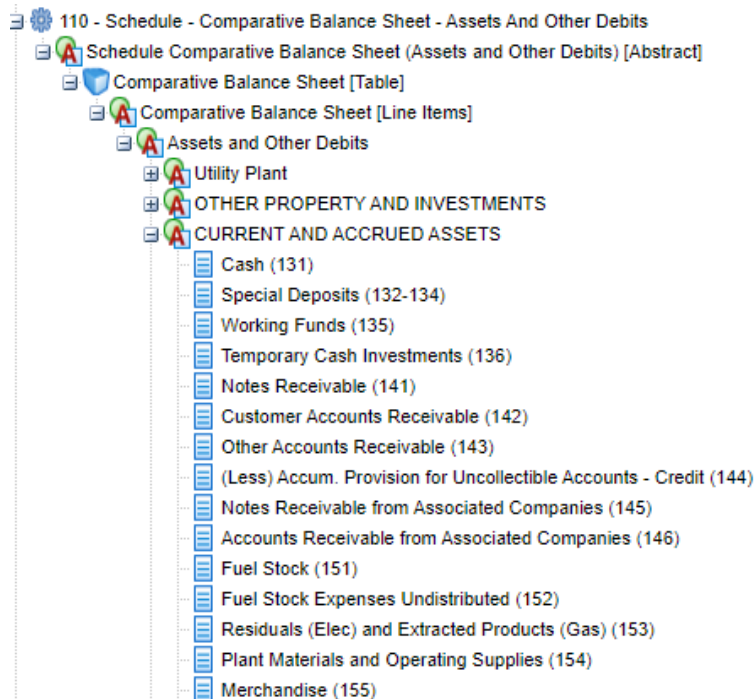Documentation: This account shall include the amount of current cash funds except working funds.

Entity: Northern Natural Gas Company

Units: US Dollars

Period: 2019

Taxonomy

- 110 - Schedule - Comparative Balance Sheet - Assets And Other Debits
  - Schedule Comparative Balance Sheet (Assets and Other Debits) [Abstract]
    - Comparative Balance Sheet [Table]
      - Comparative Balance Sheet [Line Items]
        - Assets and Other Debits
          - Utility Plant
          - OTHER PROPERTY AND INVESTMENTS
          - CURRENT AND ACCRUED ASSETS
            - Cash (131)
            - Special Deposits (132-134)
            - Working Funds (135)
            - Temporary Cash Investments (136)
            - Notes Receivable (141)
            - Customer Accounts Receivable (142)
            - Other Accounts Receivable (143)
            - (Less) Accum. Provision for Uncollectible Accounts - Credit (144)
            - Notes Receivable from Associated Companies (145)
            - Accounts Receivable from Associated Companies (146)
            - Fuel Stock (151)
            - Fuel Stock Expenses Undistributed (152)
            - Residuals (Elec) and Extracted Products (Gas) (153)
            - Plant Materials and Operating Supplies (154)
            - Merchandise (155)

Digital "dictionary" of concepts representing data needed to be reported

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Schedule mapping

COMPARATIVE BALANCE SHEET (ASSETS AND OTHER DEBITS)

Row Number	Column Number	Label	Element	Period	Dimensions
2	c	Utility Plant (101-106, 114)	UtilityPlant	Current	
2	d	Utility Plant (101-106, 114)	UtilityPlant	Prior	
3	c	Construction Work in Progress (107)	ConstructionWorkInProgress	Current	
3	d	Construction Work in Progress (107)	ConstructionWorkInProgress	Prior	
4	c	TOTAL Utility Plant (Enter Total of lines 2 and 3)	UtilityPlantAndConstructionWorkInProgress	Current	
4	d	TOTAL Utility Plant (Enter Total of lines 2 and 3)	UtilityPlantAndConstructionWorkInProgress	Prior	
5	c	(Less) Accum. Prov. for Depr. Amort. Depl. (108, 110, 111, 115)	AccumulatedProvisionForDepreciationAmortizationAndDepletionOfPlantUtility	Current	
5	d	(Less) Accum. Prov. for Depr. Amort. Depl. (108, 110, 111, 115)	AccumulatedProvisionForDepreciationAmortizationAndDepletionOfPlantUtility	Prior	
6	c	Net Utility Plant (Enter Total of line 4 less 5)	UtilityPlantNet	Current	
6	d	Net Utility Plant (Enter Total of line 4 less 5)	UtilityPlantNet	Prior	
7	c	Nuclear Fuel in Process of Ref., Conv., Enrich., and Fab. (120.1)	NuclearFuelInProcessOfRefinementConversionEnrichmentAndFabrication	Current	
7	d	Nuclear Fuel in Process of Ref., Conv., Enrich., and Fab. (120.1)	NuclearFuelInProcessOfRefinementConversionEnrichmentAndFabrication	Prior	
8	c	Nuclear Fuel Materials and Assemblies-Stock Account (120.2)	NuclearFuelMaterialsAndAssembliesStockAccountMajorOnly	Current	
8	d	Nuclear Fuel Materials and Assemblies-Stock Account (120.2)	NuclearFuelMaterialsAndAssembliesStockAccountMajorOnly	Prior	
9	c	Nuclear Fuel Assemblies in Reactor (120.3)	NuclearFuelAssembliesInReactorMajorOnly	Current	
9	d	Nuclear Fuel Assemblies in Reactor (120.3)	NuclearFuelAssembliesInReactorMajorOnly	Prior	
10	c	Spent Nuclear Fuel (120.4)	SpentNuclearFuelMajorOnly	Current	
10	d	Spent Nuclear Fuel (120.4)	SpentNuclearFuelMajorOnly	Prior	
11	c	Nuclear Fuel Under Capital Leases (120.6)	NuclearFuelUnderCapitalLeases	Current	
11	d	Nuclear Fuel Under Capital Leases (120.6)	NuclearFuelUnderCapitalLeases	Prior	
12	c	(Less) Accum. Prov. for Amort. of Nucl. Fuel Assemblies (120.5)	AccumulatedProvisionForAmortizationOfNuclearFuelAssemblies	Current	
12	d	(Less) Accum. Prov. for Amort. of Nucl. Fuel Assemblies (120.5)	AccumulatedProvisionForAmortizationOfNuclearFuelAssemblies	Prior	
13	c	Net Nuclear Fuel (Enter Total of lines 7-11 less 12)	NuclearFuelNet	Current	
13	d	Net Nuclear Fuel (Enter Total of lines 7-11 less 12)	NuclearFuelNet	Prior	
14	c	Net Utility Plant (Enter Total of lines 6 and 13)	UtilityPlantAndNuclearFuelNet	Current	
14	d	Net Utility Plant (Enter Total of lines 6 and 13)	UtilityPlantAndNuclearFuelNet	Prior	
15	c	Utility Plant Adjustments (116)	OtherElectricPlantAdjustments	Current	
15	d	Utility Plant Adjustments (116)	OtherElectricPlantAdjustments	Prior	
16	c	Gas Stored Underground - Noncurrent (117)	GasStoredUndergroundNoncurrent	Current	
16	d	Gas Stored Underground - Noncurrent (117)	GasStoredUndergroundNoncurrent	Prior	

Taxonomy

- Able to represent all types of data (monetary, integer, percent, string, text block, enumerated lists, area, volume, energy)

- Contains structure to explain relationships between concepts
  - Presentation (hierarchy)
  - Calculations (A + B = C)
  - Definition
  - References (authoritative)
  - Labels (standard, abbreviated, preferred, start and end of period)

Taxonomy Review

Taxonomy **+** XBRL Report (instance document)

Taxonomy schedules list:
- 001 - Schedule - Corporate Officer Certification
- 001 - Schedule - Identification
- 002 - Schedule - List of Schedules
- 101 - Schedule - General Information
- 102 - Schedule - Control Over Respondent
- 103 - Schedule - Corporations Controlled by Respondent
- 104 - Schedule - Officers
- 105 - Schedule - Directors
- 106 - Schedule - Information on Formula Rates
- 106a - Schedule - Information on Formula Rates
- 106b - Schedule - Information on Formula Rates
- 108 - Schedule - Important Changes During The Quarter Year
- 110 - Schedule - Comparative Balance Sheet - Assets And Other Debits
- 110 - Schedule - Comparative Balance Sheet - Liabilities and Other Credits
- 114 - Schedule - Statement of Income
- 118 - Schedule - Retained Earnings
- 118 - Schedule - Retained Earnings - Appropriated
- 118 - Schedule - Retained Earnings - Appropriations
- 118 - Schedule - Retained Earnings - Common Stock
- 118 - Schedule - Retained Earnings - Credit
- 118 - Schedule - Retained Earnings - Debit
- 118 - Schedule - Retained Earnings - Preferred Stock
- 118 - Schedule - Retained Earnings - Unappropriated Undistributed Subsidiary Earnings
- 120 - Schedule - Statement of Cash Flows

CPE Questions

Instructions

- Tagging
    - Typed dimensions
    - Sorting items
    - Duplicate values
    - Accuracy
    - Periods (quarterly roll forwards)
    - Text block items
        - From other filings (copying from other non-FERC filings)
    - Subtotals

- Validation

- Rendering

- Footnotes

Typed Dimensions

- Allows the reporting of sequences.
  - Directors, Transmission lines
  - Blank rows
    - Cash-Flow
    - Retained earnings
  - Members defined by filer.
  - Should be consistent over time.
  - Fact will have the sequence dimension.
  - Sequences have totals – leave off the sequence axis.

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Sorting

- Use Order Number
- Does not appear on the schedule
- Must be a decimal
- Allows insertion to reorder items i.e. 1.02
- Must always use a dimension
- Order for migrated data was taken from original filing
- Some schedules have multiple dimensions

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Duplicate Values

- Must not enter duplicate values.

- Validation rules check for this.

- Values on sub-schedule are tagged the same as main schedule. i.e. *CommonStockIssued. (110 & 250)*

- *Use a note to indicate a difference.*

Accuracy and Units

- All monetary amounts are in USD.

- Other items will include a label indicating the unit type.

- Validation rules check that the unit used is correct.

- Numbers must be accurate to the dollar so decimals should be set to 0.

Periods

- All facts have a period.

- Periods are determined based on the report year and the report period.

- If these are changed then the location of facts in the report will change.

- Across the schedules there are various periods that can be used.

- Be careful to ensure the correct period is used.

- Validation rules check that appropriate periods are used.

- For quarterly reports the CF closing balance of cash will not equal the opening.

- Schedules report cumulative amounts.

- Some rollforwards are for the quarter vs the year to date. This was not clear on the original schedules.

Text Block Items

- Taxonomy contains number of text block items.

- If rendered should use valid xhtml.

- Can copy html notes from SEC filings but should remove inline. SEC rendered text block items remove inline tags.

- Styling is included in rendered filings. Check styling does not conflict.

Subtotals

- Some schedules have subtotals.

- FERC data migration tagged these as distinct lines.

- When preparing filing don't use the migrated data as an example. Some schedules have this as historical data.

- See Schedule 250.

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Validations

- Validation rules apply to an entire form. i.e. the same rules are used for the annual, quarterly and form 2A.

- Validations generally check the totals add and cross add.

- Cross check across schedule when the values differ.

- Check periods.

- Check units.

- Check required elements.

- Validations described in instructions.

- Published by the FERC using the open source XBRL software (Arelle), so can validate locally.

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Rendering

- Can render the entire form.

- Can render a specific schedule.

- Creates a valid inline XBRL document.

- See XBRL US site.

Footnotes

- Link fact to the footnote beneath schedule.

- Software should support creation of footnotes.

- Most footnotes will be fact-> footnote.

- Also need support for fact->fact as well
  - If want to be able to request confidential data.
  - Indicate confidential data with a footnote.

Working with XBRL Vendors

- XBRL US members that can help:
    - Advanced Computer Innovations, Inc.
    - DataTracks
    - Donnelley Financial Solutions (DFIN)
    - Iris Business Services
    - Novaworks, LLC
    - P3 Data Systems
    - RDG Filings
    - Workiva, Inc.

- Questions you should ask:
    - Does your application support FERC validation? Typed dimensions?
    - What experience do you have preparing XBRL for other entities?
    - How long will it take to prepare the XBRL filing?
    - How can I review the XBRL tags used on each fact? What if multiple parties internally need to review the form?
    - If I need to change a value in a report, how long will the vendor need to make the change?
    - How will the process differ the second time around?
    - Can the vendor give you a printout of the FERC rendering of your filing?

CPE Questions

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FILERS   INDUSTRIES   GOVERNMENTS   USING DATA

Home > Filers >

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FERC Reporting

Tools & Instructions
Get step by step instruction and mapping guides to XBRL-format your FERC Form data. Render and review your own XBRL-formatted Form. Inspect the FERC Taxonomy. Check your filing for data quality with FERC Validations.

Run Applications Locally
Get code and instructions to run the FERC Renderer and Validations in your own local environment.

Data
Analyze your own and peer historical data. Find out how you can collect your vendor's financial data in machine-readable XBRL format.

Education
Access resources to support FERC filers complying with new XBRL requirements.

Public utilities reporting to the FERC are required to submit Forms 1 and 3-Q (electric utilities), Forms 2, 2-A, and 3-Q natural gas (gas pipeline companies), Forms 6 and 6-Q (oil pipeline companies), Form 60 (centralized service companies) and Form 714 (electric transmitting companies) in XBRL format, starting in 2021. Read the FERC rule.

Find out about becoming an XBRL US FERC Filer Member.

More XBRL US events for utilities

- Instructional webinars:
  - Oil pipeline companies, December 1, 2020
  - Centralized service companies, December 2, 2020
  - Electric transmitting utilities, December 10, 2020
- XBRL US Investor Forum, November 17-18, 2020
  - Keynotes SEC Commissioner Allison Herren Lee, PwC Vice Chair Wes Bricker
  - http://xbrl.us/forum