Electric Utilities & New FERC XBRL Requirements

November 3, 2020

xBRL US

Agenda

- XBRL Fundamentals
- CPE Questions
- Instructions on preparing Form 1 and 3-Q for electric utilities
- 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

XBRL gives meaning to data

33	CURRENT AND ACCRUED ASSETS			
34	Cash and Working Funds (Non-major Only) (130)		0	0
35	Cash (131)		71,327,413	57,718,289
36	Special Deposits (132-134)		6,886,597	6,951,064
37	Working Fund (135)		147,415	146,305
38	Temporary Cash Investments (136)		1,220,000,000	385,000,000
39	Notes Receivable (141)		0	0
40	Customer Accounts Receivable (142)		1,273,685,556	
41	Other Accounts Receivable (143)		3,128,236,294	1,294,343,299
42	(Less) Accum. Prov. for Uncollectible Acct.-Credit (144)		56,198,372	64,476,202
43	Notes Receivable from Associated Companies (145)		0	0
44	Accounts Receivable from Assoc. Companies (146)		34,585,453	21,355,991
45	Fuel Stock (151)	227	1,566,341	1,375,066
46	Fuel Stock Expenses Undistributed (152)	227	0	0
47	Residuals (Elec) and Extracted Products (153)	227	0	0
48	Plant Materials and Operating Supplies (154)	227	442,660,412	365,624,133
49	Merchandise (155)	227	0	0
50	Other Materials and Supplies (156)	227	0	0
51	Nuclear Materials Held for Sale (157)	202-203/227	0	0
52	Allowances (158.1 and 158.2)	228-229	396,185,501	419,851,065

Concept: Customer Accounts Receivable

Data Type: Monetary

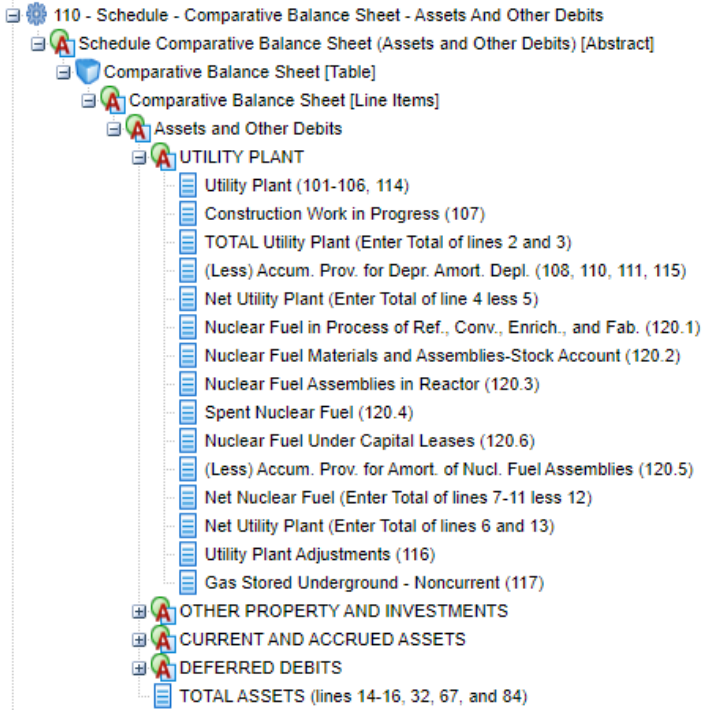
Documentation (definition)

Entity: Pacific Gas & Electric

Period: 2019

Units: US dollars

Taxonomy



Digital “dictionary” of concepts representing data needed to be reported

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
            - Utility Plant (101-106, 114)
            - Construction Work in Progress (107)
            - TOTAL Utility Plant (Enter Total of lines 2 and 3)
            - (Less) Accum. Prov. for Depr. Amort. Depl. (108, 110, 111, 115)
            - Net Utility Plant (Enter Total of line 4 less 5)
            - Nuclear Fuel in Process of Ref., Conv., Enrich., and Fab. (120.1)
            - Nuclear Fuel Materials and Assemblies-Stock Account (120.2)
            - Nuclear Fuel Assemblies in Reactor (120.3)
            - Spent Nuclear Fuel (120.4)
            - Nuclear Fuel Under Capital Leases (120.6)
            - (Less) Accum. Prov. for Amort. of Nucl. Fuel Assemblies (120.5)
            - Net Nuclear Fuel (Enter Total of lines 7-11 less 12)
            - Net Utility Plant (Enter Total of lines 6 and 13)
            - Utility Plant Adjustments (116)
            - Gas Stored Underground - Noncurrent (117)
          - OTHER PROPERTY AND INVESTMENTS
          - CURRENT AND ACCRUED ASSETS
          - DEFERRED DEBITS
          - TOTAL ASSETS (lines 14-16, 32, 67, and 84)

Assets and Other Debits

Documentation	en	Total amount of all assets and deferred debits as of the report date.
Total Label	en	Total Assets and Other Debits
F1-All Total Label	en	TOTAL ASSETS (lines 14-16, 32, 67, and 84)
F1F-All Total labels	en	TOTAL ASSETS AND OTHER DEBITS (Enter total lines 03 thru 09, 23 and 34)

References

Type	Reference	
Form Location	Form	Form 1
	Schedule	110 - Schedule - Comparative Balance Sheet - Assets And Other Debits
	Column	a
	Row	85
	ValueType	Label
	ColumnName	F1Total
Form Location	Form	Form 1
	Schedule	110 - Schedule - Comparative Balance Sheet - Assets And Other Debits
	Column	c
	Row	85
	Period	Current
	ValueType	Value
Form Location	Form	Form 1
	Schedule	110 - Schedule - Comparative Balance Sheet - Assets And Other Debits
	Column	d
	Row	85
	Period	Prior
	ValueType	Value
Form Location	Form	Form 1F
	Schedule	F1F - 003 - Schedule - Comparative Balance Sheet - Assets And Other Debits
	Column	a
	Row	35
	ValueType	Label
	ColumnName	F1FTotal
Form Location	Form	Form 1F
	Schedule	F1F - 003 - Schedule - Comparative Balance Sheet - Assets And Other Debits
	Column	b
	Row	35
	Period	Prior
	ValueType	Value
Form Location	Form	Form 1F
	Schedule	F1F - 003 - Schedule - Comparative Balance Sheet - Assets And Other Debits
	Column	c
	Row	35
	Period	Current
	ValueType	Value

Properties

Property	Value
Name	AssetsAndOtherDebits
Namespace	http://ferc.gov/form/2020-01-01/ferc
Data Type	xbrli:monetaryItemType
XBRL Type	monetaryItemType
Substitution Group	xbrli:item
Period Type	instant
Abstract	false
Nillable	true
Balance	debit

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

- 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

XBRL Report (instance document)

Name of Respondent: Alaska Electric Light and Power Company	This report is: (1) ☑ An Original (2) ☐ A Resubmission	Date of Report: 04/17/2019	Year/Period of Report End of: 2018/ Q4

STATEMENT OF CASH FLOWS

1. Codes to be used:(a) Net Proceeds or Payments;(b)Bonds, debentures and other long-term debt; (c) Include commercial paper; and (d) Identify separately such items as investments, fixed assets, intangibles, etc.
2. Information about noncash investing and financing activities must be provided in the Notes to the Financial statements. Also provide a reconciliation between "Cash and Cash Equivalents at End of Period" with related amounts on the Balance Sheet.
3. Operating Activities - Other: Include gains and losses pertaining to operating activities only. Gains and losses pertaining to investing and financing activities should be reported in those activities. Show in the Notes to the Financials the amounts of interest paid (net of amount capitalized) and income taxes paid.
4. Investing Activities: Include at Other (line 31) net cash outflow to acquire other companies. Provide a reconciliation of assets acquired with liabilities assumed in the Notes to the Financial Statements. Do not include on this statement the dollar amount of leases capitalized per the USofA General Instruction 20; instead provide a reconciliation of the dollar amount of leases capitalized with the plant cost.

Line No.	Description (See Instructions No.1 for explanation of codes) (a)	Current Year to Date Quarter/Year (b)	Previous Year to Date Quarter/Year (c)
1	Net Cash Flow from Operating Activities		
2	Net Income (Line 78(c) on page 117)	8,291,479	9,053,802
3	Noncash Charges (Credits) to Income:		
4	Depreciation and Depletion	5,873,485	5,804,532
5	Amortization of (Specify) (footnote details)		
5.1	Amortization of Debt Issuance Costs	86,435	86,435
5.2	Amortization of Utility Property Under Capital Lease	2,535,000	2,415,000
8	Deferred Income Taxes (Net)	42,325	994,822
9	Investment Tax Credit Adjustment (Net)		
10	Net (Increase) Decrease in Receivables	[1](2,979,842)	[1]624,872
11	Net (Increase) Decrease in Inventory	[1](81,949)	[1]22,177
12	Net (Increase) Decrease in Allowances Inventory		
13	Net Increase (Decrease) in Payables and Accrued Expenses	529,331	(2,144,736)
14	Net (Increase) Decrease in Other Regulatory Assets		
15	Net Increase (Decrease) in Other Regulatory Liabilities		
16	(Less) Allowance for Other Funds Used During Construction	276,885	283,969
17	(Less) Undistributed Earnings from Subsidiary Companies		

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.

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
- 262 - TAXES ACCRUED, PREPAID AND CHARGES DURING YEAR

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. (114 & 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.
- Schedule 302 reports 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.
- Orders on subtotals 262.

Validations

- Validation rules apply to an entire form. i.e. the same rules are used for the annual, quarterly and form 1F.
- 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.

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

xBRL US

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:
  - Gas pipeline companies, November 4, 2020
  - 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