

FY 2014–2015

**FINAL
AVERAGE SYSTEM COST REPORT**

Clark Public Utilities

July 2013



FY 2014–2015

FINAL
AVERAGE SYSTEM COST REPORT

FOR

Clark Public Utilities
Docket Number: ASC-14-CL-01

PREPARED BY
BONNEVILLE POWER ADMINISTRATION
U.S. DEPARTMENT OF ENERGY

July 2013

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1 FILING DATA

Utility: **Public Utility District No. 1 of Clark County or Clark Public Utilities (Clark)**
1200 Fort Vancouver Way
Vancouver, Washington 98663
<http://www.clarkpublicutilities.com>

Parties to the Filing:

Investor-Owned Utilities (IOUs):

Avista Corporation (Avista)
Idaho Power Company (Idaho Power)
PacifiCorp
Portland General Electric (PGE)
Puget Sound Energy (Puget)

Consumer-Owned Utilities (COUs):

Public Utility District No. 1 of Snohomish County (Snohomish)

Other Participants to the Filing:

Idaho Public Utility Commission (IPUC)
Public Utility Commission of Oregon (OPUC)

Average System Cost Base Period: Calendar Year (CY) 2011

Effective Exchange Period: Fiscal Years (FY) 2014–2015, October 1, 2013 – September 30, 2015

Statement of Purpose:

Section 5(c) of the Pacific Northwest Electric Power Planning and Conservation Act (“Northwest Power Act” or “Act”), 16 U.S.C. § 839c(c), established the Residential Exchange Program (“REP”). Any Pacific Northwest utility interested in participating in the REP may offer to sell power to the Bonneville Power Administration (BPA) at the average system cost (ASC) of the utility’s resources. In exchange, BPA offers to sell an “equivalent amount of electric power to such utility for resale to that utility’s residential users within the region” at a rate established pursuant to section 7(b) of the Act. 16 U.S.C. § 839c(c)(1); 16 U.S.C. § 839e(b)(1). The benefits determined under the REP are passed through directly to the exchanging utilities’ residential and farm consumers. 16 U.S.C. § 839c(c)(3).

The Northwest Power Act grants BPA’s Administrator the authority to determine utilities’ ASCs based on a methodology established in a public consultation proceeding. *See* 16 U.S.C. § 839c(c)(7). In designing this methodology, the Act specifically requires the Administrator to exclude from ASC three categories of costs:

(A) the cost of additional resources in an amount sufficient to serve any new large single load of the Utility;

(B) the cost of additional resources in an amount sufficient to meet any additional load outside the region occurring after the effective date of this Act; and

(C) any costs of any generating facility which is terminated prior to initial commercial operation.

Id.

BPA has conducted an ASC review to determine Clark's ASC for FY 2014–2015 based on BPA's 2008 ASC Methodology (2008 ASCM). *See* 18 C.F.R. Part 301, *Sales of Electric Power to the Bonneville Power Administration, Revisions to Average System Cost Methodology*. 74 Fed. Reg. 47,052 (2009). As noted above, the utilities' ASCs are used in the BP-14 Rate Case to calculate the utilities' benefits, which are then distributed through the REP.

This FY 2014–2015 Final Average System Cost Report (Final ASC Report) describes the process and evaluation used to implement the 2008 ASCM and the results of BPA's ASC Filing review.

For more information regarding the 2008 ASCM, please refer to the Federal Energy Regulatory Commission's final ruling and the 2008 ASCM, 18 C.F.R. Part 301 (2009), available at http://www.bpa.gov/Finance/ResidentialExchangeProgram/Documents/2008%20FERC%20Public%20ASCM_FRN_74_FR_47052-01_9-30-09_1741.pdf, and the *Average System Cost Methodology Final Record of Decision (2008 ASCM ROD)*, June 30, 2008, available at <http://www.bpa.gov/Finance/ResidentialExchangeProgram/Pages/default.aspx>.

General information regarding the ASC Review Process can be found at <http://www.bpa.gov/Finance/ResidentialExchangeProgram/Pages/default.aspx>.

NOTE: If the filing utility or an intervenor wished to preserve any issue regarding a BPA Final ASC Report for subsequent administrative or judicial appeal, it must have raised such issue in its comments on the Draft ASC Report. If a party failed to do so, the issue is waived for subsequent appeal. *See* Rules of Procedure for BPA's ASC Review Processes, § 3.6.1.3 ("Rules of Procedure").

2 AVERAGE SYSTEM COST SUMMARY

2.1 Clark Public Utilities Background

Clark Public Utilities (Clark) is a publicly owned utility providing electric service to 185,000 customers and water service to 30,000 customers in Clark County, Washington over an area of 628 square miles. Clark was incorporated in 1938 as a municipal corporation and is headquartered in Vancouver, Washington. The focus of this report is on Clark's electric generation and transmission system.

Clark's energy resource portfolio includes the 248-megawatt (MW) (nameplate capacity) River Road natural gas-fired combined-cycle combustion turbine, a minor share in the Packwood Hydro Project (1.18 aMW), long-term power purchases from BPA, and short-term market purchases. Clark's electric system includes 55 substations/switching stations and 6,600 miles of transmission and distribution lines to deliver power.

In 2011, BPA supplied 58 percent of Clark's power supply, and the remainder was supplied by River Road and other small power purchases.

2.2 Base Period ASC

The 2008 ASCM requires utilities participating in the ASC Review Process, both IOUs and COUs, to submit to BPA "Base Period" financial and operational information. The Base Period is defined as the calendar year of the most recent FERC Form 1 data for IOUs, and for COUs, the most recent audited financial statements (Annual Reports), and for both, the underlying accounting system data. For purposes of this FY 2014–2015 filing period, the Base Period is CY 2011 (January 1, 2011 – December 31, 2011). The submitted information includes the "Appendix 1," an Excel-based workbook populated with financial and load data used in calculating the Base Period ASC.

The table below summarizes the CY 2011 Base Period ASC based on (1) the information contained in Clark's June 4, 2012, ASC Filing, including any errata corrections ("As-Filed"), and (2) as adjusted by BPA in this Final ASC Report. This table does not reflect the Exchange Period (defined below) ASC, which is noted in subsequent tables.

Table 2.2-1: CY 2011 Base Period ASC
(Results of Appendix 1 calculations)

	June 4, 2012 As-Filed	July 24, 2013 Final ASC Report
Production Cost	\$200,024,285	\$207,933,747
Transmission Cost	\$20,560,592	\$20,560,592
(Less) NLSL Costs	\$0	\$0
Contract System Cost (CSC)	\$220,584,877	\$228,494,339
Total Retail Load (MWh)	4,466,548	4,466,548
(Less) NLSL	0	0
Total Retail Load (Net of NLSL)	4,466,548	4,466,548
Distribution Losses	165,819	165,819
Contract System Load (CSL)	4,632,367	4,632,367
CY 2011 Base Period ASC (CSC/CSL)	\$47.62/MWh	\$49.33/MWh

2.3 FY 2014–2015 Distribution Loss Factor

The 2008 ASCM requires a utility to include with its ASC Filing a current distribution loss analysis as described in Endnote e. *See* 18 C.F.R. § 301, End. e.

The losses are the distribution energy losses occurring between the transmission portion of the utility’s system and the meters measuring firm energy load. The distribution losses can be measured using one of the methods as outlined in Endnote e of the 2008 ASCM: (1) a loss study, (2) revenue grade meter readings, or (3) calculating a five-year average total system loss factor using data from the FERC Form 1 or comparable data source.

BPA Staff reviewed and agreed with Clark’s supporting Distribution Loss Factor calculations. For the purposes of this Final ASC Report, BPA used the Distribution Loss Factor of 3.71 percent included in Clark’s As-Filed Appendix 1.

2.4 FY 2014–2015 Exchange Period ASC

BPA and the intervenors review, evaluate, and comment on the Appendix 1 historical costs and forecast loads submitted in the ASC Review Process. Once the Base Period ASC is determined, the cost data is escalated forward using the “ASC Forecast Model,” an Excel-based forecast model, to the midpoint of the Exchange Period, which in this instance is October 1, 2014. For purposes of this FY 2014–2015 ASC Review Period, the Exchange Period is October 1, 2013, to September 30, 2015 (“Exchange Period”).

A utility’s As-Filed Exchange Period ASC may increase or decrease by the time of the Final ASC Report because of adjustments made during the ASC Review Process. For all utilities, BPA updates its natural gas and market price forecasts, which factor into the escalation calculations BPA uses in developing a utility’s Exchange Period ASC. For calculating the FY 2014-2015 Exchange Period ASC, gas prices decreased slightly and market prices rose slightly from the BP-14 Rate Case Initial Proposal. BPA also updates escalators used in the ASC Forecast Model that rely on data from Global Insight, including its coal escalators which decreased from the BP-14 Initial Proposal. For the COUs only, BPA updated the RHWMs and the associated Tiered Rates. See the “Inputs” and “Tiered Rates” tabs of the ASC Forecast Model for the utility’s (1) As-Filed and (2) BPA-Adjusted models for additional details.

Table 2.4-1 identifies the Exchange Period ASC as filed by the utility on June 4, 2012, including errata corrections if filed, and as adjusted by BPA for this Final ASC Report. The ASC shown will be the utility’s ASC for the entire Exchange Period unless the utility acquires (or loses) a major resource as defined by the 2008 ASCM, subject to the conditions in Section 2.5 of this Report, or the utility makes a New Large Single Load adjustment as described in Section 2.6.

**Table 2.4-1: Exchange Period FY 2014–2015 ASC (\$/MWh)
With No New Resource Additions**

Date	June 4, 2012 As-Filed	July 24, 2013 Final ASC Report
FY 2014–2015	48.43	49.91

2.5 New Resource Additions

Under the 2008 ASCM, a utility’s ASC may be adjusted to reflect the addition or loss of a major new resource if such resource commences commercial operation (or ceases production) at any point between the end of the Base Period and the end of the Exchange Period. Such new resource must be used to meet a utility’s retail load during the Exchange Period.

Before a utility’s ASC is adjusted to reflect the addition or loss of a major new resource, the utility must demonstrate that the proposed resource will meet the materiality requirements set forth in the 2008 ASCM. Section 301.4(c) of the 2008 ASCM provides that only resources that affect a utility’s Base Period ASC by 2.5 percent or more will be considered major new resources. 18 C.F.R. § 301.4(c)(4). The 2008 ASCM allows utilities to submit stacks of individual resources that, when combined, meet the materiality threshold. *Id.* However, each individual resource in the stack must result in a change in Base Period ASC of 0.5 percent or more. *Id.* See also Section 3.2.14 of this Final ASC Report.

For ASC calculation purposes, a new resource adjustment may be included in the utility’s ASC at the commencement of the Exchange Period if such new resource becomes commercially operational (or ceases production) after the Base Period ends, but *before* the Exchange Period begins. In order to be included in the utility’s Exchange Period ASC, a New Resource

Attestation must be received by BPA no later than the tenth (10th) business day after the Exchange Period begins.

Table 2.5-1 below summarizes the new major resource additions, prior to any NLSL adjustments, that are projected to become commercially operational, and major resource reductions that will cease commercial operations, prior to the beginning of the Exchange Period (*i.e.*, January 1, 2012 – September 30, 2013).

Clark has no major new resources scheduled to come on line prior to the FY 2014-2015 Exchange Period.

**Table 2.5-1: New Resource Additions Coming On Line
Prior to the Exchange Period (\$/MWh)**

As-Filed FY 2014–2015 Exchange Period ASC				
Resource	N/A	N/A	N/A	N/A
Expected On Line Date				
Delta*				

Final ASC Report FY 2014–2015 Exchange Period ASC				
Resource	N/A	N/A	N/A	N/A
Expected On Line Date				
Delta*				

*The Delta is the incremental change in the ASC as new resources come on line.

Resources that commence commercial operation during the Exchange Period are normally reflected in the ASC calculation following receipt by BPA of the utility’s New Resource Attestation. Table 2.5-2 below summarizes the new major resource additions (prior to any NLSL adjustments) that are projected to become commercially operational and major resource reductions that will cease to be commercially operational during the Exchange Period (*i.e.*, October 1, 2013 – September 30, 2015).

Although the 2008 ASCM permits a utility’s ASC to be adjusted to reflect the inclusion of a major new resource during the Exchange Period, as part of the 2012 Residential Exchange Program Settlement Agreement, BPA Contract No. 11PB-12322 (2012 REP Settlement Agreement), all six regional investor-owned utilities agreed to waive this right: “Each IOU waives. . . the right to include in its ASC . . . the cost of any major resource addition forecasted to occur during the Exchange Period as allowed by the ASC Methodology.” 2012 REP Settlement, § 6.4. Nevertheless, for informational purposes, BPA has retained Table 2.5-2 in the ASC Report because the 2012 REP Settlement is currently being challenged in the U.S. Court of Appeals for the Ninth Circuit. BPA intends to continue to identify major resource additions in

its Draft and Final ASC Reports until such time as all legal challenges to the 2012 REP Settlement have been resolved. The final FY 2014–2015 ASC calculation shown in Section 6 of this Report *does not* include any adjustment for new resources during the Exchange Period for setting rates for the FY 2014–2015 Rate Period.

Clark has no major new resources scheduled to come on line during the FY 2014–2015 Exchange Period.

**Table 2.5-2: New Resource Additions Coming On Line
During the Exchange Period (\$/MWh)**

As-Filed FY 2014–2015 Exchange Period ASC				
Resource	N/A	N/A	N/A	N/A
Expected On Line Date				
Delta*				

Final ASC Report FY 2014–2015 Exchange Period ASC				
Resource	N/A	N/A	N/A	N/A
Expected On Line Date				
Delta*				

*The Delta is the incremental change in the ASC as the new resources come on line.

2.6 NLSL Adjustment

A new large single load (NLSL) is any load associated with a new facility, an existing facility, or an expansion of an existing facility that was not contracted for or committed to (CF/CT) prior to September 1, 1979, and which will result in an increase in power requirements of ten average megawatts (aMW) or more in any consecutive 12-month period. 16 U.S.C. § 839a(13)(A)-(B).

By law, NLSLs and the associated resource costs in an amount sufficient to serve them are not included in utilities' ASCs. *See* 16 U.S.C. § 839c(c)(7)(A). BPA determines the cost of resources in an amount sufficient to serve NLSLs through the methodology provided in Endnote d of the 2008 ASCM and the Final Interpretation and Implementation of Endnote d(3) of the 2008 ASC Methodology (February 2012).

NLSLs are not determined in ASC review proceedings. Instead, NLSLs are identified through a separate process conducted by BPA's NLSL Staff, which is tasked with implementing BPA's NLSL Policy. The ASC Review Process determines the cost of resources in an amount sufficient to serve the utility's NLSL and then excludes these costs from the utility's ASC.

Clark has no NLSLs on record or under review, and therefore no NLSL resource costs will be removed from its ASC.

Table 2.6-1: New Large Single Loads Under Review

As-Filed FY 2014–2015 NLSL Load Amount (MWh)	
NLSL(s)	Load
N/A	N/A

Final ASC Report FY 2014–2015 NLSL Load Amount (MWh)	
NLSL(s)	Load
N/A	N/A

**Table 2.6-2: New Large Single Loads that Begin Taking Power
Prior to the Exchange Period**

As-Filed FY 2014–2015 Exchange Period ASC				
Customer	N/A	N/A	N/A	N/A
Expected Start Date				

Final ASC Report FY 2014–2015 Exchange Period ASC				
Customer	N/A	N/A	N/A	N/A
Expected Start Date				

**Table 2.6-3: New Large Single Loads that Begin Taking Power
During the Exchange Period**

As-Filed FY 2014–2015 Exchange Period ASC				
Customer	N/A	N/A	N/A	N/A
Expected Start Date				

Final ASC Report FY 2014–2015 Exchange Period ASC				
Customer	N/A	N/A	N/A	N/A
Expected Start Date				

2.7 NLSL Formula Rate

During two separate customer workshops held on February 2 and April 11, 2012, BPA Staff proposed a formula rate calculation for removing resource costs from a utility's ASC when an NLSL occurs during the Exchange Period. The NLSL formula rate was developed to mitigate two issues that arise when a large industrial/commercial load has been determined to be an NLSL and has a determined NLSL start date.

In previous Exchange Periods, BPA calculated the costs of serving a prospective NLSL in the ASC Review Process based on forecasts of the projected NLSL MWhs and a start date as provided by the filing utility. BPA Staff would then calculate two ASCs for the utility: an ASC with the NLSL coming on line as scheduled (with an associated reduction in ASC) and an ASC with the NLSL not coming on line (and no associated reduction in ASC). This approach for determining the costs of service to an NLSL, however, led to additional administrative and calculation issues. First, new NLSL(s) start dates may differ from the forecast; and second, the actual MWh amounts of the NLSL may differ substantially from forecast amounts contained in the Final ASC Report.

To address the potential disconnect between the forecast amount and start date of an NLSL, BPA Staff proposed a formula rate. In late April 2012, parties submitted formal responses to the NLSL topic discussed at the February 2 and April 11 workshops. Avista, Idaho Power, NorthWestern, PGE, PacifiCorp, and Puget all submitted comments in support of the NLSL Formula Rate. With the exception of PGE, all the parties agreed with BPA's formula rate calculation proposal to calculate a utility's ASC when a new NLSL materializes. PGE, in its response, commented on issues outside the scope of the proposed NLSL Formula Rate.

For purposes of the Final ASC Reports, no utility identified potential NLSLs that would begin service prior to or during the FY 2014–2015 Exchange Period, January 1, 2012 through September 30, 2015. However, in the event a utility learns it will begin to serve an NLSL during this period, even though the NLSL is not identified herein, BPA Staff will review and evaluate the NLSL and, as necessary, calculate a new ASC using the inputs and formula method as defined below:

$$\text{ASC} = \frac{\text{Contract System Cost} - (\text{Cost of Serving NLSL} * \text{Actual New NLSL MWh})}{\text{Contract System Load} - \text{Actual New NLSL MWh}}$$

Tables 2.7-1 and 2.7-2 show the inputs necessary to calculate a utility's Exchange Period ASC using the above NLSL Formula Rate. The tables include the inputs Contract System Cost (\$), Cost of Serving NLSL (\$/MWh), and Contract System Load (MWh). A utility's Contract System Cost and Cost of Serving NLSL will change with each new resource addition. Therefore, Table 2.7-1 provides the various combinations of new resource additions possible and the corresponding Contract System Cost and Cost of Serving NLSL. Table 2.7-2 contains the utility's Contract System Load which remains unchanged with the addition of new resources.

**Table 2.7-1: NLSL Formula Rate Inputs:
Contract System Cost & Cost of Serving NLSL**

Inputs for both <i>Prior to</i> and <i>During</i> the Exchange Period			
	Timing of New Resource	Contract System Cost	Cost of Serving NLSL
<i>Prior to</i>	N/A	N/A	N/A
<i>During</i>	N/A	N/A	N/A

**Table 2.7-2: Formula Rate Input:
Contract System Load**

FY 2014–2015 Contract System Load
N/A

3 FILING REQUIREMENTS

3.1 ASC Review Process – FY 2014–2015

Utilities' ASCs are established in ASC Review Processes. The ASC Review Processes for FY 2014–2015 began on June 4, 2012, with the submittal of ASC Filings by the following eight utilities: Avista, Clark, Idaho Power, NorthWestern, PacifiCorp, PGE, Puget, and Snohomish. An "ASC Filing" consists of two Excel-based models developed by BPA (the Appendix 1 workbook and the ASC Forecast Model) and all supporting data and documentation provided by the utility.

Notice of the ASC Review Processes was provided on BPA's public web site, Secure REP Web Site, and via email. Prior to the June 4, 2012, filing deadline, the utilities posted ASC Filings on BPA's Secure REP Web Site. Parties interested in reviewing a utility's ASC had the opportunity to request access to the utility's ASC Filing by contacting BPA. Parties wishing to formally intervene in a utility's ASC proceeding could file an intervention by the date identified in BPA's ASC Review Process Schedule. Intervenors were afforded multiple opportunities to request data, submit comments, and raise issues with the utilities' ASC Filings. The filing utilities, in turn, were afforded opportunities to respond to requests for data, raise and respond to issues, and answer any questions relating to the ASC Filings.

Draft ASC Reports were issued on November 14, 2012, for each of the eight utilities. On December 14, 2012, BPA Staff held a clarification workshop to review and discuss the Draft ASC Reports. Thereafter, the utilities and intervenors had the opportunity to request oral argument before BPA's Administrator. No request was received by the February 1, 2013, deadline. Finally, utilities and intervenors could submit comments on the Draft ASC Reports through April 10, 2013. See Sections 4 and 5 to review comments, if any, submitted by the utilities and intervenors.

This Final ASC Report reflects BPA's findings and final decisions from its review of Clark's ASC Filing and addresses the issues and questions raised by the utility, intervenors, and BPA Staff during the ASC Review Process.

For details of the ASC Review Process and guidelines, please see the *ASCM Rules of Procedure for the ASC Review Process (Rules of Procedure)* available at <http://www.bpa.gov/Finance/ResidentialExchangeProgram/Pages/default.aspx>.

Final ASC Reports for each utility are available at <http://www.bpa.gov/Finance/ResidentialExchangeProgram/Pages/FY-14-15-ASC-Utility-Filings.aspx>.

3.2 Explanation of Appendix 1 Schedules

The Appendix 1 consists of a series of seven schedules and other supporting information that present the data necessary to calculate a utility's ASC. The schedules and supporting data include the following:

1. Schedule 1 – Plant Investment/Rate Base (Rate Base)
2. Schedule 1A – Cash Working Capital Calculation (Cash Working Capital)
3. Schedule 2 – Capital Structure and Rate of Return (Rate of Return)
4. Schedule 3 – Expenses
5. Schedule 3A – Taxes
6. Schedule 3B – Other Included Items (Other Items)
7. Schedule 4 – Average System Cost
8. Purchased Power and Sales for Resale (3-Year PP & OSS Worksheet)
9. Load Forecast
10. Distribution Loss Calculation (Distribution Loss Calc)
11. Distribution of Salaries and Wages (Salaries)
12. Ratios
13. New Resources – Individual and Grouped
14. Materiality – Individual and Grouped
15. New Large Single Loads (NLSL Base New-Calc)
16. Tiered Rates

3.2.1 Schedule 1 – Plant Investment/Rate Base

Schedule 1 of the Appendix 1 establishes the utility's Rate Base. The Rate Base computation begins with a determination of the Gross Electric Plant-In-Service's historical costs for Intangible, General, Production, Transmission, and Distribution Plant.

For exchanging utilities that provide electric, natural gas, and water services, only the portion of common plant allocated to electric service is included. These values (and all subsequent values) are entered into the Appendix 1 as line items based on the FERC Uniform System of Accounts. Each line item (account) is functionalized to Production, Transmission, and/or Distribution/Other in accordance with the functionalizations prescribed in Table 1 of the 2008 ASCM.

The Net Electric Plant-In-Service is determined next by entering and functionalizing depreciation and amortization reserves in the Appendix 1 and adjusting the above-calculated Gross Electric Plant-In-Service for the depreciation and amortization reserves.

Total "Rate Base" is then determined by adjusting Net Electric Plant for Cash Working Capital (calculated in Schedule 1A), Utility Plant, Property and Investments, Current and Accrued Assets, Deferred Debits, Current and Accrued Liabilities, and Deferred Credits.

3.2.2 Schedule 1A – Cash Working Capital

Cash Working Capital is an estimate of investor-supplied cash used to finance operating costs during the time lag before revenues are collected. This approach (cash) ignores the lag in recovery of non-cash costs of service (depreciation), deferred taxes, and other items. The Cash Working Capital concept is widely used by state commissions and is the basic premise of the Commission’s proposed working capital formula. The purpose of working capital is to compensate a utility for funds used in day-to-day operations.¹

Cash Working Capital is a ratemaking convention that is not included in the FERC Uniform System of Accounts, but is a part of all electric utility rate filings as a component of Rate Base. To determine the allowable amount of Cash Working Capital in Rate Base for a utility, BPA allows one-eighth of the functionalized costs of total production expenses, transmission expenses, and administrative and general expenses, less purchased power, fuel costs, and public purpose charges, into Rate Base. *See* 18 C.F.R. § 301, End. f.

3.2.3 Schedule 2 – Capital Structure and Rate of Return

Schedule 2 calculates the utility’s rate of return (ROR) on the utility’s Rate Base developed in Schedule 1.

The 2008 ASCM requires IOUs to use the weighted cost of capital (WCC) from their most recent state commission rate orders. The return on equity (ROE) used in the WCC calculation is grossed-up for Federal income taxes at the marginal Federal income tax rate using the formula described in Endnote b of the 2008 ASCM. *See* 18 C.F.R. § 301, End. b. The 2008 ASCM requires a COU to use a rate of return equal to the COU’s weighted cost of debt.

3.2.4 Schedule 3 – Expenses

This schedule represents operations and maintenance expenses for the production, transmission, and distribution of electricity. Each expense item is functionalized as outlined in Table 1 of the 2008 ASCM. Also included in Schedule 3 are additional expenses associated with customer accounts, sales, administrative and general expense, conservation program expense, and depreciation and amortization expense associated with Electric Plant-in-Service. The sum of the items in Schedule 3 reflects the Total Operating Expenses for the utility.

3.2.5 Schedule 3A – Taxes

This schedule presents allowable ASC costs for Federal employment tax and certain non-Federal taxes, including property and unemployment taxes. COUs are allowed to include state taxes paid “in lieu” of property taxes. State income taxes, franchise fees, regulatory fees, and city/county taxes are accounted for in this schedule but are functionalized to Distribution/Other and therefore not included in ASC. Taxes and fees for each state listed are grouped together and entered as “combined” line items for Appendix 1 purposes.

¹ James C. Bonbright *et al.*, *Principles of Public Utility Rates* 244 (2d ed. 1988).

Federal income taxes are included in ASC and are calculated, as applicable, in Schedule 2 – Capital Structure and Rate of Return.

3.2.6 Schedule 3B – Other Included Items

This schedule includes revenues from the disposition of plant, sales for resale, and other revenues, including electric revenues and revenues from transmission of electricity for others (wheeling). The revenues in this schedule are deducted from the total costs of each utility.

3.2.7 Schedule 4 – Average System Cost (\$/MWh)

This schedule summarizes the cost information calculated in Schedules 2 through 3B: Capital Structure and Rate of Return, Expenses, Taxes, and Other Included Items. The schedule also identifies the Contract System Cost and Contract System Load, as defined below, and calculates the utility's Base Period ASC (\$/MWh).

Contract System Cost

Contract System Cost (CSC) includes the utility's costs for production and transmission resources, including power purchases and conservation measures, which are includable in and subject to the provisions of the 2008 ASCM. CSC does not include the cost of serving a utility's NLSLs. CSC is the numerator in the ASC calculation.

Contract System Load (MWh)

Contract System Load (CSL) is the total regional retail load of a utility, adjusted for distribution losses and NLSLs. CSL is the denominator in the ASC calculation.

3.2.8 Purchased Power and Sales for Resale

Purchased Power is an account in Schedule 3 – Expenses, and includes all power purchases the utility made during the year, including power exchanges. Sales for Resale is an account in Schedule 3B – Other Included Items, and includes power sales to purchasers other than ultimate consumers. Listed in the information for both accounts is the statistical classification code for all transactions. Please refer to the FERC Form 1, pages 310-311 for Sales for Resale, and pages 326-327 for Purchased Power, for identification of the classification codes.

3.2.9 Load Forecast

Each utility is required to provide a four-fiscal-year forecast beginning October 1 of the Base Year (FY 2012–2015) of its total retail load, as measured at the meter, and its qualifying residential and farm retail load, as measured at the retail meter. For the COUs only, the total retail forecast loads for the Exchange Period are the load forecasts determined by BPA under the Tiered Rate Methodology (TRM).

The total retail and residential and farm load forecasts are adjusted for distribution losses and NLSLs when appropriate. The resulting load forecasts are the Contract System Load forecast and Exchange Load forecast, respectively.

3.2.10 Distribution Loss Calculation

Each utility is required to measure its distribution losses using one of the methods described in Endnote e of the 2008 ASCM. *See* 18 C.F.R. § 301, End. e. The total retail and residential and farm load forecasts are adjusted for distribution losses (and NLSLs when appropriate).

3.2.11 Distribution of Salaries and Wages

This supporting tab is used to determine the Labor Ratio calculations. It includes salaries and wages from relevant operations and maintenance of the electric plant.

3.2.12 Ratios

The Ratio tab calculates all functionalization ratios by assigning costs included in the utility's FERC Form 1 on a pro rata basis using values taken from the gross plant data (Schedule 1) for Production, Transmission, and Distribution/Other functions, and data taken from the salary and wage tab for Labor functions. For COUs, comparable information comes from the detailed salaries and wages data used in the utilities' financial reports.

3.2.13 New Resources – Individual and Grouped

The 2008 ASCM allows a utility's ASC to adjust during the Exchange Period to reflect the addition or loss of a major new resource, subject to the materiality threshold of 2.5 percent. New resources are defined as any new production or new generating resource investments, new transmission investments, long-term generating contracts, pollution control and environmental compliance investments relating to generating resources, transmission resources or contracts, hydro relicensing costs and fees, and plant rehabilitation investments. *See* 18 C.F.R. § 301.4(c)(3)(i)-(vii). However, as part of the 2012 REP Settlement, the IOUs agreed to waive the right to include the costs of new resources in their ASCs during the Exchange Period. *See* Section 2.5 for a discussion of New Resource Additions.

To determine the effects of a major new resource addition or reduction on a utility's Exchange Period ASC, BPA performs one of the following calculations: (1) for new resources that are expected to be on-line prior to the start of the Exchange Period, BPA projects the costs of the new resource forward to the midpoint of the Exchange Period; or (2) for new resources that are expected to be on-line during the Exchange Period, BPA calculates the new resource cost as if the resource came on-line at the midpoint of the Exchange Period.

Each resource that satisfies the minimum materiality threshold of 0.5 percent may be entered individually in the "New Resources – Individual" tab. Resources that do not meet the 2.5 percent materiality requirement independently may be grouped together with other resources within "New Resources – Grouped" to meet the 2.5 percent materiality requirement. The grouping and timing of materiality for new resource additions is discussed in Section 3.2.14 of this Report.

3.2.14 Materiality – Individual and Grouped

The 2008 ASCM states:

Major resource additions or reductions that meet the criteria identified in paragraph (c)(3) of this section will be allowed to change a Utility's ASC within an Exchange Period provided that the major resource addition or reduction results in a 2.5 percent or greater change in a Utility's Base Period ASC. Bonneville will allow a Utility to submit stacks of individual resources that, when combined, meet the 2.5 percent or greater materiality threshold, provided, however, that each resource in the stack must result in a change to the Utility's Base Period ASC of 0.5 percent or more.

18 C.F.R. § 301.4(c)(4).

Under the 2008 ASCM, a utility may group or stack resources that individually affect a utility's ASC by 0.5 percent or more to meet the 2.5 percent materiality threshold. A stacked group of resources will not be added to the utility's ASC until the last resource in that stack comes on line. The grouping of resources together, therefore, has a significant impact on the timing of when a utility can expect to see its ASC changed for a new resource addition.

BPA Staff made materiality determinations for all new resources submitted by each utility in its Draft ASC Report. To make these determinations, BPA provided the following instructions to the exchanging utilities at the outset of this ASC Review Process:

- The exchanging utility must include the costs and operating characteristics for each new resource addition.
- The utility must submit the resource additions (individual and/or grouped) that meet the materiality test(s) given the exchanging utility's base period costs.
- BPA Staff will review each new resource addition submitted by the utility to determine the adequacy of costs and operating characteristics.
- BPA Staff will calculate the materiality of an exchanging utility's resources using the utility's adjusted Base Period ASC (per the Draft ASC Report) and forecast natural gas prices used by BPA in the BP-14 Rate Case Initial Proposal. BPA Staff will remove all resources and/or groups of resource additions that do not meet the materiality test(s).
- BPA Staff will not unilaterally regroup resources.
- The BP-14 Rate Case Initial Proposal's natural gas price forecast will be the basis for the natural gas fuel costs used for new resource additions in both the Draft and Final ASC Reports.

- The exchanging utility will have the option to recommend a “regrouping” of resource additions that meets the materiality test(s).
- Exchanging utilities must submit the regrouped resource additions in their comments on the Draft ASC Report.
- Only resources that were reviewed by BPA and participants can be used in the regrouping process.
- BPA Staff will make a determination of the new resource additions for the Final ASC Report.
- For the Final ASC Report, BPA will calculate the materiality of the utility’s resources under the utility’s final Base Period ASC.

The final grouping of new resources for the Final ASC Report is determined after considering the filing utilities’ and other parties’ comments, if any, on the Draft ASC Report, based on the foregoing instructions.

The materiality determinations provided herein are based on the utility’s Base Period ASC (per the Draft Report) as adjusted through the ASC Review Process and reflect the natural gas price forecast from the BP-14 Rate Case Initial Proposal.

3.2.15 New Large Single Loads

This tab calculates the cost of resources in an amount sufficient to serve an NLSL, which BPA must exclude from the utility’s ASC pursuant to Northwest Power Act section 5(c)(7). 16 U.S.C. § 839c(c)(7). An NLSL is any load associated with a new facility, an existing facility, or an expansion of an existing facility which was not contracted for or committed to (CF/CT) prior to September 1, 1979, and which will result in an increase in power requirements of ten average megawatts (aMW) or more in any consecutive 12-month period. 16 U.S.C. § 839a(13)(A)–(B). By law, BPA must exclude from a utility’s ASC the load associated with an NLSL and an amount of resource costs sufficient to serve such NLSL. *See* 16 U.S.C. § 839c(c)(7)(A). To determine the amount of resource costs to exclude from a utility’s ASC, BPA follows the methodology prescribed in Endnote d of the 2008 ASCM. *See* 18 C.F.R. § 301, End. d and the Final Interpretation and Implementation of Endnote d(3) of the 2008 ASC Methodology (February 2012).

3.2.16 Tiered Rates

All exchanging COUs have the right to purchase power at BPA’s Tier 1 rate by executing Contract High Water Mark (CHWM) Contracts with BPA. By signing the CHWM Contract, the utility agrees to limit the resources it will exchange in the REP. Under the CHWM Contract, the COU agrees not to include in its ASC the cost of resources necessary to serve the COU’s Above-Rate Period High Water Mark (RHWM) load. The CHWM contracts require the cost of

serving Above-RHWM loads to be calculated using a methodology similar to Endnote d of the 2008 ASCM. See Section 3.3 of this ASC Report for details.

Data input in this tab is used to calculate the cost of Tier 1 Power Purchases from BPA, and comes from BPA's Power Rates Group (PSR). For background information and details, see <http://www.bpa.gov/news/pubs/PastRecordsofDecision/2009/TRM-12S-A-02.pdf>.

3.3 Rate Period High Water Mark ASC Calculation Under the Tiered Rate Methodology

CHWM Contracts require that the cost of resources used to meet Above-RHWM loads be calculated using a methodology similar to Endnote d of the 2008 ASCM. BPA uses the following method to determine the ASC of a COU that is participating in the REP.

- $$\text{RHWM ASC} = \frac{\text{Contract System Cost} - \text{NewRes\$}}{\text{Contract System Load} - \text{NewResMWh}}$$
- NewRes\$ is the forecast cost of resources used to serve a customer's Above-RHWM Load. The costs included in NewRes\$ will be determined using a methodology similar to Appendix 1, Endnote d, of BPA's 2008 ASCM and as described below.
- NewResMWh is the forecast generation from resources used to serve a customer's Above-RHWM Load. For this Final ASC Report, the NewResMWh has been set equal to the customer's Above-RHWM Load.
- For calculating both NewRes\$ and NewResMWh, Existing Resources for CHWMs specified in Attachment C, Column D, of the TRM (*see* TRM-12S-A-03, September 2009, Attachment C) and purchases of power at Tier 1 rates from BPA are excluded.

A number of considerations are used in calculating the cost of serving Above-RHWM Loads using Endnote d of the 2008 ASCM:

- Types of resources to serve Above-RHWM Loads may be different from those resources used in the NLSL resource cost calculation and will be recognized in calculating the RHWM ASC:
 - Power purchases less than five years in duration.
- Total output of new resources may exceed the Above-RHWM Load:
 - The RHWM ASC does not specify removal of costs associated with this excess.

The RHWB ASC calculation methodology provides:

- Set NewResMWh equal to the Above-RHWB Load.
- $\text{NewRes\$} = \text{NewResMWh} \times \text{Fully Allocated Cost}$ (calculated using Endnote d).
- If the output of material new resources fails to meet the Above-RHWB Load, meet the deficit with short-term (ST) market purchases at a utility-specific market price.
- If the output of new resources exceeds the Above-RHWB Load, reduce ST market purchases by the excess to the extent possible in the Contract System Cost calculation.
- Sell any remaining surplus at the utility-specific Sales for Resale price in the Contract System Cost calculation.

3.4 ASC Forecast

Once the Base Period ASC is calculated, BPA uses the ASC Forecast Model to escalate forward the Base Period ASC to the midpoint of the Exchange Period. The ASC Forecast Model uses Global Insight's forecast of cost increases for capital costs and fuel (except natural gas), O&M, and G&A expenses; BPA's forecast of market prices for purchases to meet load growth and to estimate short-term and non-firm power purchase costs and sales revenues; BPA's forecast of natural gas prices; and BPA's estimates of the rates it will charge for its PF power and other products. For both the Draft and Final ASC Reports, BPA updates the escalators in the ASC Forecast Model to be consistent with the escalators used in the BP-14 Rate Case. For additional background on the determination of Exchange Period ASCs, see the 2008 ASCM. 18 C.F.R. § 301.4.

3.4.1 Forecast Contract System Cost

Forecast Contract System Cost ("FCSC") includes a utility's forecast costs for production and transmission resources, including power purchases and conservation measures, which are includable in and subject to the provisions of the 2008 ASCM. BPA escalates Base Period costs to the midpoint of the Exchange Period to calculate Exchange Period ASCs. *See* 18 C.F.R. § 301.4(a). BPA projects the costs of power products purchased from BPA using BPA's forecast of prices for its products.

3.4.2 Forecast of Sales for Resale and Power Purchases

BPA does not normalize short-term purchases and sales for resale. The short-term purchases and sales for resale for the Base Period are used as the starting values for the forecast. Utilities are then allowed to include new plant additions and use utility-specific forecasts for the (1) price of long-term purchased power contracts, and (2) long-term sales for resale price contracts to value purchased power expenses and sales for resale revenue. *See* 18 C.F.R. § 301.4(b).

3.4.3 Forecast Contract System Load and Exchange Load

As a part of its ASC Filing, each utility is required to provide a four-fiscal-year forecast of its total retail load, as measured at the meter, and its qualifying residential and farm retail load, as measured at the retail meter. For the COUs only, total retail forecast loads, as determined by

BPA under the TRM, will be provided through the end of the Exchange Period. Also required is a distribution loss calculation as prescribed in the 2008 ASCM, Appendix 1, Endnote e. The total retail and the residential and farm load forecasts are adjusted for distribution losses and NLSLs when appropriate. The resulting load forecasts are the Contract System Load forecast and Exchange Load forecast, respectively.

3.4.4 Load Growth Not Met by New Resource Additions

All load growth not met by new resource additions is met by purchased power at the forecast utility-specific short-term purchased power price. To calculate the cost of serving load growth not served by new resource additions, BPA uses the method outlined in the 2008 ASCM. *See* 18 C.F.R. § 301.4(e).

4 REVIEW OF THE ASC FILING

Pursuant to the 2008 ASCM, the Rules of Procedure for ASC Review Processes, and section 5(c) of the Northwest Power Act, BPA is responsible for reviewing all costs, revenues, and loads used to establish ASCs for the REP. BPA Staff began the FY 2014–2015 ASC Review Process of Clark’s ASC Filing in June, 2012. During the interim period, various issues related to Clark’s ASC Filing were identified by BPA Staff in the BPA Issues and Clarification List (BPA Issues List); no other party raised issues. Clark responded to each issue raised in the BPA Issues List. This Final ASC Report summarizes the findings of Staff’s review of Clark’s ASC Filing, the BPA Issues List and Clark’s responses thereto, and any comments received during the Draft Report comment period.

BPA’s ASC determination is limited to specific findings on issues identified for comment, with the exception of ministerial and mathematical errors. There may be additional issues that BPA has not identified for comment in this Final ASC Report. Acceptance of a utility’s treatment of an item without comment does not signify a decision of the proper interpretation to be applied either in subsequent filings or universally under the 2008 ASCM. Similarly, further experience under the 2008 ASCM may result in BPA adopting a modified or different interpretation of the 2008 ASCM in future ASC reviews.

Prior to the start of the FY 2014–2015 ASC Review Processes, BPA held workshops on February 2, 2012, and April 11, 2012, to discuss and evaluate new, BPA-proposed procedures, policies, and topics that may affect future ASC Reviews. Topics for discussion included NLSL reviews and determinations; the NLSL Formula Rate; definitions of individual new resources for conservation and renewables; FERC accounting questions regarding wind reporting, generation statistics, distribution loss calculations, purchased power and sales for resale; and the treatment of items included under Other Expenses (FERC Account 557) when evaluating the Cash Working Capital calculation.

Following considerable review and discussion of these topics, the Parties and BPA Staff either resolved each issue or determined the issue was not significant enough to warrant a change in policy or procedure. Therefore, with exception of the NLSL Formula Rate (further described in Section 2.7) and the treatment of items included under other expenses (FERC Account 557) when evaluating the Cash Working Capital calculation (Section 5.2.1), BPA has no additional comments regarding the resolved issues and will not separately address them in this ASC Report. BPA and the Parties retain the right to bring any of the topics forward during a later review process.

Table 4-1 summarizes all direct adjustments BPA made to Clark’s Appendix 1 in this Final ASC Report as a result of BPA’s review and evaluation. Supporting arguments for these adjustments may be found in the Decisions on Draft Report Resolved Issues and/or Decisions on Draft Report Unresolved Issues sections.

Although a utility’s state, county, or municipal regulatory bodies, or the Commission, may allow a particular functionalization for a specific account, BPA is not required to follow that treatment when calculating ASCs under the 2008 ASCM. Rather, BPA is tasked with making an

independent determination of the appropriateness of inclusion or exclusion of particular costs, the reasonableness of the costs included in Contract System Costs, the appropriateness of Contract System Loads, and the functionalization method used in the calculation of any cost in conformance with the 2008 ASCM. *See* Rules of Procedure, § 3.2.2.

Table 4-1: Summary of ASC Issues

Appendix 1 Schedule	Adjustment
Schedule 1 – Plant Investment/Rate Base	No direct adjustments.
Schedule 1A – Cash Working Capital	See Section 5.2, Generic Issue.
Schedule 2 – Capital Structure and Rate of Return	No direct adjustments.
Schedule 3 – Expenses	No direct adjustments.
Schedule 3A – Taxes	No direct adjustments.
Schedule 3B – Other Included Items	Direct adjustment: see Sections 4.1.1.1 to 4.1.1.4.
Schedule 4 – Average System Cost	No direct adjustments.
Appendix 1 Supporting Worksheets	Adjustment
Forecast Loads	No direct adjustments.
New Resource Additions	No direct adjustments.
NLSL Calculation (for Above-RHWM)	Direct adjustment: see Section 4.1.2.
Wind Resources	No direct adjustments.
Tiered Rates	Updated. See Tiered Rates Tab of Appendix 1.
Salary and Wages	No direct adjustments.
Ratios	No direct adjustments.
ASC Forecast Model	Adjustment
Tier 1 Power Purchase from BPA	See Section 5.3.1 , Generic Issues.
Calculation of ASC Delta for New Resource Additions	See Section 5.3.2 , Generic Issues.
PF Rates	Updated. See the PF_Rates Tab.
Purchased Power and Sales for Resale	Erratum correction. See Section 4.3.1.
Natural Gas and Market Prices	Erratum correction. See Section 4.3.2.
Cash Working Capital	Erratum correction. See Section 4.3.3.

4.1 Decisions on Draft Report Resolved Issues

During the ASC Review Process, BPA Staff raised the issues discussed in this section. Clark responded to these issues in its September 21, 2012, Issue List response. Following the issuance of its Draft ASC Report, Clark submitted a letter (“Comment Letter”) on April 11, 2013, notifying BPA that it did “not have any comments on the FY 2014-15 Draft Average System Cost reports” issued by BPA. No other party raised issues with, or commented on Clark’s June 4, 2012, ASC Filing. BPA Staff considers the issues identified in this section resolved.

In addition the issues reviewed, BPA updated Clark’s Forecast Contract System Load. As described in Section 3.4.3, COUs’ total retail forecast loads are determined by BPA under the Tiered Rates Methodology. See the Tiered Rates tab in the Forecast Model.

4.1.1 Schedule 3B – Other Included Items

In Clark’s Appendix 1, the utility erred in recording its “Non-Operating Revenues” line items in the “Operating Statement” tab, which flows through to Schedule 3B, Account 456, Other Electric Revenues. The following four Issues all relate to these line items only. For clarity, each will be addressed as a separate issue as identified in Table 4.1.1-1 below. In addition, each issue will show the adjustments on a sequential basis. The overall impact of all adjustments to Account 456 is shown in Table 4.1.1-2.

Table 4.1.1-1: Account 456 – Operating Statement Supporting Documentation

Line Item	As-Filed	BPA-Adjusted	Issue No.
Non-Operating Revenues			
Weatherization & Conservation			
Interest & Dividend Income	-\$110,481	\$110,481	4.1
Misc. Non-Operating Income	-\$712	\$712	4.1
Conservation Rebates			
American Recovery Act Grant			
Other Grant Revenue	-\$112,174	\$112,174	4.1
Conservation receipts non-grant	-\$7,236,493	\$7,236,493	4.1
Conservation receipts-ARRA Grant & Other State grants	-\$762,703	\$762,703	4.1
Weatherization & Conservation Loans net			
Conservation Loan Receipts	-\$2,039,514	\$2,039,514	4.1 and 4.3
Conservation Loan Expenditures	\$1,547,007	\$0	4.4
Conservation Program Expenditures	\$11,387,254	\$0	4.4
Amort Debt Exp/Prem	-\$171,238	\$171,238	4.1
Interest on Long Term Debt	<u>\$10,370,086</u>	<u>\$0</u>	4.2
Sub-Total:	\$2,895,551	\$10,038,710	

Conservation Non-Operating Revenues			
Sub-Total: Other Non-Operating Revenues	\$9,975,481	\$394,605	
Total Non-Operating Income	\$12,871,032	\$10,433,315	
Other Revenues			
Miscellaneous Revenue (Other)	\$887,142	\$887,142	
REC Sales from 2011 PP Tab	\$6,058,532	\$6,058,532	
TOTALS	\$19,816,706	\$17,219,988	

Table 4.1.1-2: Account 456 – Other Electric Revenues (\$)

	<u>Total</u>	<u>Production</u>	<u>Transmission</u>	<u>Dist/Other</u>
As-Filed	19,816,706	8,954,083	0	10,862,623
Adjusted	17,378,988	14,057,728	0	3,321,261

4.1.1.1 Account 456 – Other Electric Revenues, Numerical Sign Convention

Issue No. 1:

Whether Clark accurately recorded certain line items in its supporting documentation for Account 456, Other Electric Revenues.

Parties' Positions:

In Account 456, Other Electric Revenues, Clark recorded certain revenue line items under Non-Operating Revenues as a negative value that should have been a positive value.

BPA Staff's Position:

For ASC purposes, Account 456, Other Electric Revenues, should be entered as a positive value.

Evaluation of Positions:

In Clark's Draft ASC Report, BPA noted that for Appendix 1 purposes, all line items that are on, or feed into, Schedule 3B and that represent revenue received by the utility should be entered into the Appendix 1 as positive value. In the determination of utility ASCs under the 2008 ASCM, total revenue credits from Schedule 3B are subtracted from utility costs when determining Contract System Cost.

In Clark's supporting documentation (Operating Statement tab) for Account 456, Clark inadvertently recorded several line items that were revenue received by Clark, as a negative value. Clark realized the sign error and consulted with BPA Staff on reversing the signs for the affected line items under Non-Operating Revenues. See Table 4.1.1-1 above.

In response to BPA’s Issue List, Clark agreed with BPA’s proposal to reverse the signs as indicated and did not object to BPA’s Draft ASC Report. See BPA’s Issue List to Clark, Utility-Specific Issues, No. 2 and Clark’s Comment Letter.

Decision:

BPA will correct the numerical sign errors for the specific Non-Operating Revenues identified in Table 4.1.1-1 above.

**Table 4.1.1.1-1: Account 456 - Other Electric Revenues (\$)
Sign Change Only Adjustment**

	Total	Production	Transmission	Dist/Other
As-Filed	19,816,706	8,954,083	0	10,862,623
Sign Change	20,866,630	20,077,420	0	789,210
Adjusted	40,683,336	29,031,503	0	11,651,833

4.1.1.2 Account 456 – Other Electric Revenues, Long-Term Debt Interest

Issue No. 2:

Whether Clark should include interest from Long Term Debt in Account 456, Other Electric Revenues.

Parties’ Positions:

In its “Operating Statement” tab supporting Account 456, Other Electric Revenues, Clark recorded \$10,370,086 in interest expense as a revenue credit and functionalized it to Distribution/Other.

BPA Staff’s Position:

Interest expense is not a revenue credit and \$10,370,086 should be removed from Account 456, Other Electric Revenues.

Clark corrected an entry for its Long Term Debt expense used in the Rate of Return (ROR) calculation (Schedule 2) through an erratum on July 26, 2012. This Long Term Debt expense is now recorded in the “Bond” tab. In addition to the erratum, \$10,370,086 of interest accrued from the Long Term Debt expense should be removed from the Operating Statement summary tab.

Evaluation of Positions:

In Clark’s Draft ASC Report, BPA noted that Long-Term Debt interest expense is recorded on Schedule 2 and is used to determine the Return on Rate Base for publicly-owned utilities.

Clark’s As-Filed Appendix 1 included \$10,370,086 in Long Term Debt interest expense on Account 456, Other Electric Revenues and functionalized to Distribution/Other. On July 26, 2012, Clark submitted an erratum to update its “Bonds” tab to reflect the inclusion of its generating system bonds for River Road which includes interest on long term debt. This was in response to Data Request BPA-CL-FY14-03 where BPA ask Clark if it included interest expense from River Road generating plant. However, Clark did not remove the interest expense to Long Term Debt in Schedule 3B, Account 456.

In response to Data Request BPA-CL-FY14-11 and a follow-up conversation, Clark clarified that all but \$159,000 of the interest payment should be removed from Account 456, Cell C117, as a result of the previously filed erratum. In reply to BPA’s Issue List and Draft ASC Report, Clark agreed with BPA’s proposal to revise Clark’s Appendix 1 to reflect the adjustment. See BPA’s Issue List to Clark, Utility-Specific Issues, No. 4.

Subsequent to the Sept 5, 2012 Issue List, BPA realized that interest income is reported in FERC Account 419, Interest and Dividend Income, which is not an account listed in the 2008 ASCM. Therefore, the \$159,000 in Interest Income will also be removed from Account 456. Clark did not have an opportunity to respond to this additional adjustment prior to the Draft ASC Report and BPA proposed to correct this issue. Clark did not object to BPA’s proposal. See Clark’s Comment Letter.

Decision:

BPA will remove \$10,370,086 of interest expense and \$159,000 in interest income from Account 456, Other Electric Revenues.

Table 4.1.1.2-1: Account 456 - Other Electric Revenues (\$)
Remove \$10,211,086 Interest Expense and \$159,000 of Interest Income from Account 456

	Total	Production	Transmission	Dist/Other
From Table 4.1.1.1-1	40,683,336	29,031,503	0	11,651,833
Interest Expense	(10,370,086)	0	0	(10,370,086)
Adjusted	30,313,250	29,031,503	0	1,281,747

4.1.1.3 Account 456 – Other Electric Revenues, Conservation Loan Receipts

Issue No. 3:

Whether Clark correctly functionalized revenues from Conservation Loan Receipts included in Other Electric Revenues.

Parties' Positions:

In Schedule 3B, Account 456, Other Electric Revenues, Clark recorded \$2,039,514 as revenue from customer receipts to conservation loans and functionalized it to Production.

BPA Staff's Position:

The revenue associated with the receipts from residential conservation loans should be functionalized to Distribution/Other.

Evaluation of Positions:

Clark recovers the costs of its conservation programs from its jurisdictional ratepayers using its tariff rates and loan payments from its ratepayers.

For ASC purposes, BPA does not credit the revenues from jurisdictional ratepayers against costs included in the Appendix 1. Conservation loan receipts should be treated in the same manner; revenues from jurisdictional ratepayers that cover conservation program costs should not be credited against the conservation costs included in ASC, even if the revenues are from the tariff rates or from loan payments.

Receipts from Clark's residential conservation loans should be functionalized to Distribution/Other to maintain consistency with BPA's functionalization of conservation revenues from the utility's jurisdictional customers (Distribution/Other).

Clark agreed with BPA's position on this issue and BPA corrected the functionalization in Clark's Final ASC Report. See BPA's Issue List to Clark, Utility-Specific Issues, No. 3 and Clark's Comment Letter.

Decision:

BPA will functionalize revenues from Clark's Conservation Loan Receipts to Distribution/Other.

Table 4.1.1.3-1: Account 456 - Other Electric Revenues (\$)

	Total	Production	Transmission	Dist/Other
From Table 4.1.1.2-1	30,313,250	29,031,503	0	1,218,747
Conservation Loan	0	(2,039,514)	0	2,039,514
Adjusted	30,313,250	26,991,989	0	3,321,261

4.1.1.4 Account 456 – Other Electric Revenues, Conservation Expenses

Issue No. 4:

Whether conservation expenses are properly recorded in Account 456, Other Electric Revenues.

Parties' Positions:

In its Operating Statement supporting Account 456, Other Electric Revenues, Clark recorded conservation expenses as a revenue credit and functionalized them to Production.

BPA Staff's Position:

Conservation expenses should not be recorded as a credit under a revenue account, but rather as an expense under an expense account, and functionalized to Production.

Evaluation of Positions:

The 2008 ASCM provides that the functionalization of Account 908 is by Direct Analysis. However, the 2008 ASCM provides that conservation costs funded by the utility are to be functionalized to Production in the utilities' ASCs regardless of the default functionalization. *See* 18 C.F.R. PT. 301, End. g.

In Schedule 3B, Account 456, Other Electric Revenues, Clark recorded the following conservation expenses as revenue credits and functionalized to Production.

<u>Description</u>	<u>Amount</u>
Conservation Loan Expenditures	\$1,547,007
Conservation Program Expenditures	\$11,387,254

In response to Data Request BPA-CL-FY14-08, Clark confirmed these expenditures were actual conservation expenses, rather than revenue credits.

Conservation programs are considered production expenses. These accounts should be moved to Schedule 3, Expenses, Account 908, Customer Assistance Expenses (Major Only), and functionalized to Production. All other costs in this Account should be functionalized by Direct Analysis.

In response to BPA's Issue List, Clark PUD agreed with BPA's proposal to move conservation expenditures to Schedule 3, Expenses, Account 908, Customer Assistance Expenses (Major Only), and functionalize them to Production. In addition, Clark did not oppose BPA's proposal to correct the issue in its Draft ASC Report. *See* BPA's Issue List to Clark, Utility-Specific Issues, No. 1 and Clark's Comment Letter.

Decision:

BPA will move Clark's conservation expenses from Account 456, Other Electric Revenues, into Account 908, Customer Assistance Expenses (Major Only), and functionalize to Production.

**Table 4.1.1.4-1: Account 456 - Other Electric Revenues (\$)
Remove Conservation Expenses from Account 456**

	Total	Production	Transmission	Dist/Other
From Table 4.1.1.3-1	30,313,250	26,991,989	0	3,321,261
Conservation Exp.	(12,934,261)	(12,934,261)	0	0
Draft Report	17,378,989	14,057,728	0	3,321,261

Table 4.1.1.4-2: Account 908 – Customer Assistance Expenses (Major Only)

	Total	Production	Transmission	Dist/Other
As-Filed	236,648	0	0	236,648
Conservation Exp.	12,934,261	12,934,261	0	0
Adjusted	13,170,909	12,934,261	0	236,648

4.1.2 Above Rate Period High Water Mark (Above-RHWM) Calculation

Issue:

Whether Clark is required to include its Above Rate Period High Water Mark (RHWM) resource information for calculation of its Exchange Period ASC.

Parties' Positions:

Clark did not record the long-term energy and costs from its Combine Hills wind contract in the support tab (Appendix 1) that calculates costs to serve its Above-RHWM load.

BPA Staff's Position:

The cost and energy of the Combine Hills wind contract should be included in Clark's Appendix 1, as an input in the NLSL_Base_New_Calculation tab, which also computes the cost to serve Above-RHWM load.

Evaluation of Positions:

In January 2010, Clark began commercial operation of its Combine Hills II wind farm. Because power purchased from Combine Hills is not an Existing Resource listed in Attachment C of BPA's Tiered Rates Methodology, it is classified as a new resource for purposes of calculating the cost of serving Above-RHWM load. *See* TRM-12S-A-03, Attachment C, September 2009.

Exchanging COUs have the right to execute CHWM Contracts in order to purchase power at BPA's Tier 1 rate. By signing the CHWM Contract, the utility agrees to limit the resources it will exchange in the REP. Under the 2008 ASCM, COUs that execute CHWM Contracts are not allowed to include in their ASCs the cost of resources used to meet their Above-RHWM load.

CHWM Contracts require that the cost of resources used to meet Above-RHWM loads be calculated using a methodology similar to Endnote d of the 2008 ASCM. For purposes of the Appendix 1 workbook, a COU is required to populate the NLSL_Base_New_Calculation tab to calculate its costs of serving its Above RHWM load. The computation for removing costs to serve both NLSL and Above RHWM is identical.

During the FY 2012–2013 ASC Review Process, BPA adopted the following method to determine the ASC of a COU that is participating in the REP.

- $$\text{RHWM ASC} = \frac{\text{Contract System Cost} - \text{NewRes\$}}{\text{Contract System Load} - \text{NewResMWh}}$$
- NewRes\$ is the forecast cost of resources used to serve a customer's Above-RHWM Load. The costs included in NewRes\$ will be determined using a methodology similar to Appendix 1, Endnote d, of BPA's 2008 ASCM and as described below.
- NewResMWh is the forecast generation from resources used to serve a customer's Above-RHWM Load. For this Final ASC Report, the NewResMWh has been set equal to Clark's Above-RHWM Load.
- For calculating both NewRes\$ and NewResMWh, Existing Resources for CHWMs specified in Attachment C, Column D, of the TRM (*see* TRM-12S-A-03, September 2009, Attachment C) and purchases of power at Tier 1 rates from BPA are excluded.

Through conversations with Clark, BPA Staff and Clark agreed that BPA would adjust Clark's Appendix 1 NLSL_Base_New_Calculation tab to include the Long-Term Firm Combine Hills power contract. BPA Staff populated cells F15 with 172,819,000 kWh of Energy and cell F37 with \$15, 315,480 in Purchase Power Expense.

The result has no impact on Clark's Base Period ASC, but it will impact Clark's Exchange Period ASC. The correction in the Appendix 1 will flow through to the ASC Forecast Model. The fully allocated cost to serve Clark's Above-RHWM load will be escalated to the mid-point of the Exchange Period, October 1, 2014 (Table 4.1.2-1), resulting in a reduction to Clark's FY 2014-2015 ASC as shown in Table 4.1.2-2.

**Table 4.1.2-1: Appendix 1 Base Period (Schedule 4)
Above-RHWM Fully Allocated Cost (\$/MWh)**

As-Filed	0
BPA Adjusted	97.49

In its response to BPA’s Issue List, Clark agreed with BPA’s adjustment and did not oppose the adjustment in Clark’s Draft ASC Report. *See* BPA’s Issue List to Clark, Utility-Specific Issues, No. 5 and its Comment Letter.

Decision:

BPA will revise Clark’s Appendix 1 to include costs and energy from the Combine Hills wind contract to calculate the cost of serving Clark’s Above-RHWM load during the Exchange Period. These costs and loads will be removed from Clark’s Exchange Period ASC.

**Table 4.1.2-2: Forecast Model Above-RHWM (\$/MWh)
Average Exchange Period ASC**

<u>BPA-Adjusted ASC Forecast Model</u>	
Above-RHWM removed	49.91

4.2 Decision on Draft Report Unresolved Issues

There were no unresolved issues identified in Clark’s Draft ASC Report. No other party raised issues with, or commented on, Clark’s June 4, 2012, ASC Filing.

4.3 ASC Forecast Model Errata Corrections

On April 18, 2012, BPA released its latest ASC Forecast Model to be used for the FY 2014-2015 ASC Review Processes. Following that release date and after the June 4 utility submissions, BPA Staff discovered three formula discrepancies in the ASC Forecast Model as described below. In the utilities’ Draft ASC Reports, BPA proposed the following errata corrections to the Forecast Model. No party provided comments.

4.3.1 Purchased Power and Sales for Resale

BPA Staff discovered a formula error in the worksheet that calculates purchased power expense and off-system sales revenue. Specifically, the forecast model was not recognizing the cost of the Base Period Tier 1 purchases from BPA. This error affected the forecast ASCs of Snohomish County PUD and Clark County PUD only. BPA Staff corrected the error and issued

an updated ASC Forecast Model on July 18, 2012. *See* Cell E163 on the OSS & PurPWr Forecast (2) Tab of the ASC Forecast Model.

4.3.2 Market Price Forecast

BPA Staff discovered a formula error in the worksheet that calculates the individual utility market purchase price and market sales price. The worksheet was not recognizing the correct Base Period (CY 2011) actual market price in the INPUTS tab. The error affected the Exchange Period purchased power expense and sales for resale revenues of all participating utilities. BPA Staff corrected the error prior to providing Exchange Period ASCs for the BP-14 Rate Case Initial Proposal. The ASC Forecast Model with the corrections was uploaded simultaneously with the Draft ASC Reports and Draft Appendix 1 models. *See* Cell C46 on the INPUTS Tab of the ASC Forecast Model.

4.3.3 Cash Working Capital Calculation

BPA Staff discovered a formula error in how the ASC Forecast Model was forecasting Cash Working Capital. The Model was not removing fuel and purchased power costs from Account 557 prior to forecasting Cash Working Capital. BPA Staff corrected the error prior to providing Exchange Period ASCs for the BP-14 Rate Case Initial Proposal. The ASC Forecast Model with the corrections was uploaded simultaneously with the Draft ASC Reports and Draft Appendix 1 models. The correction affected the Exchange Period ASCs of Avista and Idaho Power Company. *See* Row 85 in the Base Data Tab of the ASC Forecast Model.

5 GENERIC ISSUES

5.1 Introduction

In addition to the foregoing issues, which are limited to Clark, BPA raised the following issues that may be generic to all exchanging utilities. Following the publication of the Draft ASC Reports, no Party commented on any of these generic issues.

5.2 Schedule 1A – Cash Working Capital

5.2.1 Account 557 – Other Expenses

Issue:

Whether expenses associated with purchased power or fuel costs that are recorded in Account 557, Other Expenses, should be removed for the purpose of calculating Cash Working Capital (Schedule 1A).

Parties' Positions:

Any fuel-related expenses reported in Account 557 should be excluded in the Cash Working Capital calculation.

BPA Staff's Position:

Any expenses associated with purchased power or fuel costs that are recorded in Account 557, Other Expenses, should be removed for the purposes of calculating Cash Working Capital (Schedule 1A).

Evaluation of Positions:

Endnote f of the 2008 Average System Cost Methodology, Final Record of Decision, states that purchased power and fuel costs should be excluded from the Cash Working Capital calculation.

f/ Cash working capital (CWC) is a ratemaking convention that is not included in the Form 1, but a part of all electric utility rate filings as a component of rate base. For determining the allowable amount of cash working capital in rate base for a Utility, BPA will allow no more than 1/8 of the functionalized costs of total production expenses, transmission expenses and Administrative and General expenses less purchased power, fuel costs, and Public Purpose Charge.

18 C.F.R. § 301, End. f.

This issue was discussed, evaluated, and resolved during the February 2 and April 11, 2012, REP Workshops. No additional comments were provided following the publication of the Draft ASC Reports. The IOUs and BPA agreed that any expenses associated with purchased power or fuel costs that are recorded in Account 557, Other Expenses, should be removed from the Cash Working Capital (Schedule 1A) calculation.

See BPA Issues List, Generic Issues, No. 1.

Decision:

Any expenses associated with purchased power or fuel costs that are recorded in Account 557, Other Expenses, will be removed for the purposes of calculating Cash Working Capital (Schedule 1A).

5.3 ASC Forecast Model

5.3.1 Tier 1 Power Purchases from BPA

Issue:

What level of the COUs' Tier 1 purchases is appropriate to include in the Exchange Period ASC calculation?

Parties' Positions:

BPA raised this issue for the first time in the Draft ASC Report. No Party filed comments on this issue following publication of the Draft Report.

BPA Staff's Position:

The ASC Forecast Model should set Tier 1 purchase amounts equal to the lesser of RHWM (based on Slice amounts assuming critical water) or net requirements, plus the COU's Slice share of Federal Columbia River Power System (FCRPS) surplus under average water.

Evaluation of Positions:

Under the 2008 ASCM, the calculation of IOUs' and COUs' ASCs begins with actual historical data from a Base Period, which is then escalated to the midpoint of the Exchange Period (*i.e.*, October 1, 2014) in accordance with the formulas and rules of the ASC Forecast Model. For the FY 2014–2015 ASC Review Process, the Base Period is calendar year 2011. For both COUs and IOUs, long-term power purchases in the Base Period reflect the utilities' actual purchases. For COUs, the Base Period purchases reflect all power purchases the utility received from BPA (including surplus under Slice).

Differences arise between the COUs and IOUs, however, when BPA escalates the long-term power purchases from the Base Period to the Exchange Period in the ASC Forecast Model.

For IOUs, the 2008 ASCM requires that the output from the utility's own generation and the amount of power from long-term and intermediate power purchases remain constant at the Base Period level; thus, if a utility had 100 aMW of power purchases in CY 2011, BPA would assume that, for the rate period, the utility would again have 100 aMW of long-term power purchases annually. If the utility's existing and long-term resources are insufficient to meet the utility's forecast annual rate period load, the ASC Forecast Model makes up the difference by increasing the utility's short-term market purchases. 18 C.F.R. § 301.4(e).

For COUs, the 2008 ASCM requires BPA to calculate ASC by using "the RHW System Resources as determined in the [TRM] process." 18 C.F.R. § 301.4(g)(1). To implement this language, BPA Staff designed the ASC Forecast Model to update the COUs' PF power purchases for the Exchange Period (*i.e.*, FY 2014–2015) with the RHW purchases BPA establishes as part of the RHW process. These RHW purchases are based on a critical water assumption, and do not include surplus power that Slice customers may otherwise be entitled to during the Exchange Period. The effect of this modeling input is that COUs' ASCs are based on two different long-term power purchase assumptions: (1) a Base Period long-term power purchase amount determined using *actual* purchases (which reflects actual water conditions), and (2) Exchange Period long-term power purchases determined using *critical* water conditions. If the projected purchases under critical water in (2) are less than the long-term purchases under actual water conditions in (1), the ASC Forecast Model projects that the utility is resource-deficient during the Exchange Period and automatically increases the utility's market purchases (at market prices) to make up the difference. This is the case even though the utility's *actual* power deliveries from BPA are likely to be much greater than the critical water assumption used in calculating the utility's RHW.

BPA Staff contends that using actual-water-based PF power purchases in the Base Period and then critical-water-based PF power purchases in the Exchange Period is logically inconsistent and not the intent of the 2008 ASCM. Had this modeling anomaly been identified earlier, BPA Staff would have revised the ASC Forecast Model to ensure that both the Base Period and Exchange Period calculations of PF power purchases were using consistent methods. Having now identified the anomaly, BPA Staff proposed in the Draft ASC Reports to make the modeling change to the ASC Forecast Model for purposes of calculating the COUs' ASCs. In determining how to remedy the modeling anomaly, BPA Staff examined three alternatives:

Alternative 1: Set Tier 1 purchase amounts equal to Base Period PF/Tier 1 purchases. This is the same method used for all other long-term purchases of COUs and long-term purchases of IOUs. The water condition of the base year is assumed to occur in the forecast years; the same assumption is used for IOUs.

Alternative 2: Set Tier 1 purchase amounts equal to the lesser of RHW or net requirements (the firm Slice amounts), plus the COU's Slice share of FCRPS surplus under average water (thereby using the same assumption as in rates: part of BPA's surplus generation is taken by Slice customers). This alternative sets the COU purchase amounts from BPA according to the "RHW System Resources" established by BPA in its Power Rate Proceeding.

Alternative 3: Set Tier 1 purchase amounts equal to the lesser of the amounts determined in Alternatives 1 and 2, above.

In the Draft ASC Report, BPA Staff recommended that the COUs' ASCs be calculated using Alternative 2. No Party commented on this issue following the publication of the Draft Reports. Therefore, BPA will adopt Alternative 2. Alternative 2 will create an "apples-to-apples" comparison between the long-term purchases considered in the Base Period (which includes surplus under *actual* water conditions) and the long-term purchases updated in the Exchange Period (which includes surplus under average water conditions). This method also adheres to the ASCM's requirement that BPA use the "the RHWM System Resources as determined in the [TRM] process," which would continue to form the primary basis for the long-term projections used in the ASC Forecast Model. Finally, this method meets the intent of the 2008 ASCM with respect to determining the ASCs of COUs by basing a COU's ASC on the best projection of the utility's PF purchases from BPA during the Exchange Period.

Decision:

BPA will use Alternative 2 to determine what level of Tier 1 purchases is appropriate to include in the Exchange Period ASC calculation: Set Tier 1 purchase amounts equal to the lesser of the RHWM or net requirements (the firm Slice amounts), plus the COU's Slice share of FCRPS surplus under average water.

5.3.2 Calculation of ASC Delta for New Resource Additions

Issue:

What is the appropriate method to calculate the ASC delta for new resource additions?

Parties' Positions:

BPA raised this issue for the first time in the Draft ASC Report. No Party filed comments on this issue following publication of the Draft Report.

BPA Staff's Position:

BPA will calculate an ASC delta for each new resource addition, and combination of new resource additions, contained in the utilities' ASC Filings.

Evaluation of Positions:

During the ASC reviews, BPA Staff became aware of an issue regarding the calculation of the ASC delta for new resource additions. PGE is the only utility affected by this issue in the FY 2014–2015 Review Processes, but other utilities may be affected in the future.

For a utility with multiple new resource additions that meet the materiality threshold of 2.5 percent and with an existing NLSL, the ASC delta can differ depending on which new

resource (or combination of new resources) has previously come on line. The differing ASC deltas result from the effect of the particular new resource addition, or specific combination of new resource additions, on the \$/MWh cost to serve NLSLs. To determine the ASC delta under every scenario, BPA calculated an ASC delta for each new resource, individually, and each possible combination of new resources. In the event a new resource, or specific combination of new resources, comes on line, the corresponding ASC delta is the amount to be added to PGE's Exchange Period ASC, which was calculated before the addition of any new resources. The ASC deltas are shown on Table 2.7-1 in PGE's Final ASC Report.

Decision:

For the Final ASC Reports, where applicable, BPA will calculate an ASC delta for each new resource addition, and each combination of new resource additions, contained in the utilities' ASC Filings.

6 FY 2014–2015 ASC

Clark's As-Filed, Base Period (CY 2011) ASC was \$47.62/MWh. As a result of adjustments made during the review process, Clark's Base Period ASC increased to \$49.33/MWh.

Clark's As-Filed, Exchange Period ASC for FY 2014–2015 was \$48.43/MWh. As a result of adjustments made during the review process, Clark's Exchange Period ASC for FY 2014–2015 increased to \$49.91/MWh.

These adjustments include new resources, if any, that came on line prior to the Exchange Period.

The proposed Exchange Period ASC does not reflect any changes in NLSL status. Please refer to Section 2.7 for potential NLSL adjustments to Exchange Period ASCs.

7 REVIEW SUMMARY

This Final ASC Report is BPA's determination of Clark's FY 2014 and FY 2015 ASC based on information and data provided by Clark, including comments, if any, received in response to the Draft ASC Report, and based on the professional review, evaluation, and judgment of BPA's REP Staff.

BPA has resolved the issues set forth in Sections 4 and 5 of this Report in accordance with the 2008 ASCM and with generally accepted accounting principles. The information and analysis contained herein properly establish Clark's ASC for FY 2014–2015.

8 APPROVAL ON BEHALF OF THE BONNEVILLE POWER ADMINISTRATION

I have examined Clark's ASC Filing, as amended, and the administrative record of the ASC Review Process. Based on this review and the foregoing analysis of the issues, I certify that the calculated ASC conforms to the 2008 ASCM and generally accepted accounting principles, and fairly represents Clark's ASC.

Issued in Portland, Oregon, this 24th day of July, 2013.

BONNEVILLE POWER ADMINISTRATION

By: /s/ Mark. O. Gendron
Vice-President, Northwest Requirements Marketing

