Missouri-American Water Company ISRS Revenue Requirements Calculation St. Louis District

ISRS Activity:		IS	Total for RS-13 Filing
Water Utility Plant ProjectsReplacement Mains, and Associated Valv	es and Hydrants (RM) RSMo	393.10	<u>00 (8a</u>):
Task Orders Placed in Service (TOPS): STLC-Replacement Mains and Associated Valves and Hydrants		\$	31,258,421
Net Contributions in Aid of Construction		φ	1,573
Deferred Taxes			(2,351,233
Accumulated Depreciation			(177,195
Fotal Net 393.1000 (8a)			28,731,566
Nater Utility Plant ProjectsMain Cleanings and Relinings (RM) RSMo	<u>o 393.1000 (8b)</u> :		
Task Orders Placed in Service (TOPS): STLC-Main Cleanings and Relinings			0
Net Contributions in Aid of Construction			0
Deferred Taxes			0
Accumulated Depreciation			0
Fotal Net 393.1000 (8a)			0
Nater Utility Plant ProjectsFacilities Relocations (FR) RSMo 393.100 Task Orders Placed in Service (TOPS):	<u>0 (8c)</u> :		
STLC-Relocated Facilities			333,803
Net Contributions in Aid of Construction			(233,304
Deferred Taxes			29,269
Accumulated Depreciation			(1,678
Fotal Net 393.1000 (8c)			128,090
Accumulated Depreciation and Deferred Taxes on Investment in Curre	ent ISRS		
Depreciation for ISRS-10 Case No. WO-2012-0401 Deferred Taxes ISRS-10 Case No. WO-2012-0401			(443,186 (897,976
Depreciation for ISRS-11 Case No. WO-2012-0401			(284,668
Deferred Taxes ISRS-11 Case No. WO-2013-0406			(738,267
Depreciation for ISRS-12 Case No. WO-2014-0055			(131,046
Deferred Taxes ISRS-12 Case No. WO-2014-0055			(203,586
Total			(2,698,729
Total ISRS Rate Base			26,160,927
Overall Rate Of Return per Last Order			8.17%
UOI Required			2,137,348
ncome Tax Conversion Factor			1.62307
Revenue Req. Before Interest Deductibility			3,469,08
Total ISRS Rate Base			26,160,92
Embedded Cost of Debt per Last Order			3.090%
nterest Expense Deduction			808,37
Combined Federal and State Income Tax Rate			38.388630%
ncome Tax Reduction due to Interest			310,323
Tax Conversion Factor			1.62307
Revenue Req Impact - Interest Deductibility			503,67
Fotal Revenue Requirement on Capital			2,965,40
Depreciation Expense			432,94
Property Taxes ISRS 11 WO-2013-0406			66,908
Property Taxes ISRS 12 WO-2014-0055			144,29
Property Taxes ISRS 13 Add Under Collection from Previous ISRS			76,78
Total ISRS Revenues		\$	3,686,335
Allocation of Revenue by Class			
Mains less than or equal to 12"	Rate A & Oth	\$	3,536,080
Mains greater than 12"	Rate A & Oth		135,335
	Total Rate A & Oth Rate J		3,671,414 8,595
	Rate B		6,326
Grand Total Payanuas Collected in Provided 1985		¢	
Grand Total Revenues Collected in Proposed ISRS		\$	3,686,335

Missouri-American Water Company Tariff Rates ISRS # 13 Filing St. Louis District

	ISRS Recovery Revenue Requirement	2010 Bill Analysis Sales (CCF) (1)	Rate	e per CCF	Rate	per 100 Gal.
Rate A & Oth	3,671,414	48,622,466	\$	0.0755	\$	0.01009
Rate B	6,326	2,365,075	\$	0.0027	\$	0.00036
Rate J	8,595 3,686,335	5,752,615	\$	0.0015	\$	0.00020

(1) Per billing determinants approved in determining rates per Commission order in Case WR 2011-0337

Rate Per CCF	Cu	rrent Rate	Adjustment to e Current Rate (1)		•	oosed Rate e on Tariff
Rate A & Oth	\$	0.2726	\$	0.0755	\$	0.3481
Rate B	\$	0.0214	\$	0.0027	\$	0.0241
Rate J	\$	0.0119	\$	0.0015	\$	0.0134
Rate Per 100 Gal						
Rate A & Oth	\$	0.03640	\$	0.01009	\$	0.04649
Rate B	\$	0.00289	\$	0.00036	\$	0.00325
Rate J	\$	0.00156	\$	0.00020	\$	0.00176

(1) Calculated per above

Missouri-American Water Company Property Tax Calculation ISRS # 13 Filing St. Louis District

Total Investment	<u>October 2013 - December 2013</u> 12,305,689
Less: Retirements	(402,534)
Net Change in Property Base	11,903,155
Property Tax Rate	0.006451
Property Tax Expense	76,786
Description	St Louis
Total Tax Payments @ 12/31/2013	7,702,954
2013 Assessed Tax is based on 2012 Year End Property Value Utility Plant in Service @ 12/31/12	1,165,362,249
Materials & Supplies @ 12/31/12	3,699,323
Actual Property Tax Base @12/31/12	1,169,061,572
Allocate Corporate balance:	
Allocation Factor	68.69%
Allocation	25,028,017

Allocation	25,028,017
Allocated Property Tax Base at 12/31/12	1,194,089,589
Tax per \$1 of Taxable Property	0.006451

Missouri-American Water Company Property Tax Calculation ISRS # 11 Filing St. Louis District

Total Investment	Aug 2012 - Dec 2012 40,933,381	Jan-Mar 2013 11,216,151
Less: Retirements	(1,644,296)	(844,277)
Net Change in Property Base	39,289,085	10,371,874
Property Tax Rate	0.005568	0.006451
Property Tax Expense	218,759	66,908
Note: 2012 property tax was allowed in ISRS #11 filing		
Description	2012 St Louis	2013 St Louis
Total Tax Payments	6,062,287	7,702,954
Utility Plant in Service @ Prior Year End Materials & Supplies @ Prior Year End Actual Property Tax Base @Prior Year End	1,077,343,513 2,828,535 1,080,172,049	1,165,362,249 3,699,323 1,169,061,572
Allocate Corporate balance: Allocation Factor Allocation Allocated Property Tax Base @ Prior Year End	69.82% 8,613,628 1,088,785,677	68.69% 25,028,017 1,194,089,589
2012 Tax per \$1 of Taxable Property	0.005568	0.006451

2012 Tax per \$1 of Taxable Property	0.005568	0.0

Missouri-American Water Company Property Tax Calculation ISRS # 12 Filing St. Louis District

Total Investment	Apr 2013 - Sep 2013
Total investment	24,314,361
Less: Retirements	(1,945,656)
Net Change in Property Base	22,368,705
Property Tax Rate	0.006451
Property Tax Expense	144,298

Description	St Louis
Total Tax Payments @ 12/31/2013	7,702,954
2013 Assessed Tax is based on 2012 Year End Property Value	
Utility Plant in Service @ 12/31/12	1,165,362,249
Materials & Supplies @ 12/31/12	3,699,323
Actual Property Tax Base @12/31/12	1,169,061,572
Allocate Corporate balance:	
Allocation Factor	68.69%
Allocation	25,028,017
Allocated Property Tax Base at 12/31/12	1,194,089,589
Tax per \$1 of Taxable Property	0.00645

Missouri-American Water Company Deferred Taxes - Rate Base Reduction ISRS # 13 Filing St. Louis District

St. Louis District	Adjusted Tax Bas	sis on Additions			
	Replacements	Relocations	R	eplacements	Relocations
In Service October-December 2013 less Reimbursements Net Additions	12,222,878 1,580 12,224,458	82,811 (234,424) (151,613)	_	·	
Bonus Depreciation (50%) Depreciable Balance	<u>6,112,229</u> 6,112,229	(75,807) (75,807)		6,112,229	(75,807)
First Year Tax Rate Second Year Tax Rate			2.00% 4.00%		
Tax Depreciation On Deprecia	ble Balance			152,806	(1,895)
In Service January-March 2014 less Reimbursements Net Additions	19,035,543 0 19,035,543	250,992 0 250,992			
Bonus Depreciation (50%) Depreciable Balance	0 19,035,543	0 250,992			
First Year Tax Rate Second Year Tax Rate			2.00% 4.00%		
Tax Depreciation On Deprecia	ble Balance			190,355	2,510
Total Accumulated Tax Depreciation			_	6,455,390	(75,192)
Total Book Depreciation			\$	330,575	\$ 1,051
Deferred Taxes			\$	2,351,233	\$ (29,269)
Effective Tax Rate				0.3838863	0.3838863

Missouri-American Water Company Cost of Service / Rate Design ISRS # 13 Filing St. Louis District Cost of Service Allocation for Transmission Costs Per 2011 Case

	Rate A & Other	Rate J	Rate B
Total Factor for ISRS	90.070%	5.720%	4.210%
Tariff Design	Non-ISRS Revenues Per Last Order	ISRS Revenues	Proposed % Increase
Rate A and K Customers	162,828,580	3,671,414	2.25%
Rate J Customers	6,909,444	8,595	0.12%
Rate B Customers	3,232,546	6,326	0.20%
	172,970,570	3,686,335	

Missouri-American Water Company Net CIAC Calculation ISRS # 13 Filing St. Louis District

Mains, Valves and Hydrant Replacements

Gross Investment - Replacements Depreciation Expense - Replacements Composite Depreciation Rate:		31,258,421 441,362 1.411977%		
	Oct-Dec 2013	Jan-Mar 2014		Total
Reimbursements	1,580	0	0	1,580 (a)
Amortization (1)	2	6		7
Accumulated Amortization	2	6	0	<u>7</u> (b)
Gross CIAC Less: Accum Amort CIAC Net CIAC	1,580 (<u>(7)</u> (1,573			
Relocations Gross Investment - Relocations Depreciation Expense - Relocations Composite Depreciation Rate:		333,803 4,787 1.434147%		
	Oct-Dec 2013	Jan-Mar 2014		Total
Reimbursements	(234,424)	0		(234,424) (c)
Amortization (1)	(280)	(840)		(1,121)
Accumulated Amortization	(280)	(840)	0	<u>(1,121)</u> (d)
Gross CIAC Less: Accum Amort CIAC Net CIAC	(234,424) (1,121 ((233,304)	,		

Missouri-American Water Company Depreciation Expense Calculation ISRS # 13 Filing St. Louis District

Base Depreciation Expense	Replacements	Relocations	Total
	441,362	4,787	446,149
Reimbursements	1,580	(234,424)	(3,340)
Composite Depreciation Rate	1.4120%	1.4341%	
Depreciation Expense to be Removed	22	(3,362)	
Depreciation Expense Associated with Retirements			(9,868)
Net Depreciation Expense			432,941