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Date Testimony Prepared:

Depreciation

Arthur W. Rice, PE MoPSC Staff Rebuttal

ER-2014-0258 January 16, 2015 Filed

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Service Commission

MISSOURI PUBLIC SERVICE COMMISSION REGULATORY REVIEW DIVISION - UTILITY SERVICES ENGINEERING AND MANAGEMENT SERVICES UNIT

REBUTTAL TESTIMONY

OF

ARTHUR W. RICE, PE

Stoff Exhibit No. 229

Date 2-2315 Reporter 44

File No. E. P. - 2014 - 0258

UNION ELECTRIC COMPANY, d/b/a Ameren Missouri

CASE NO. ER-2014-0258

Jefferson City, Missouri
January, 2015

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1		REBUTTAL TESTIMONY OF
2		ARTHUR W. RICE, PE
3 4		UNION ELECTRIC COMPANY, d/b/a Ameren Missouri
5		CASE NO. ER-2014-0258
6	Q.	Please state your name and business address.
7	A.	My name is Arthur W. Rice, and my business address is Missouri Public
8	Service Com	nission, P.O. Box 360, Jefferson City, MO 65102.
9	Q.	Are you the same Arthur W. Rice who prepared Staff's Depreciation Summary
10	that appears of	on page 158 of Staff's Cost of Service Report filed December 5, 2014?
11	A.	Yes.
12	Q.	Are your current position with the Commission, and your educational
13	background a	and other qualifications disclosed in Appendix 1 to Staff's Cost of Service
14	Report?	
15	A.	Yes. My current position of Utility Regulatory Engineer I in the Engineering
16	and Managen	nent Services Unit of the Utility Services Department of the Regulatory Review
17	Division and	my work and educational experience are on page 69 of that appendix.
18	Q.	Have you previously testified before the Commission?
19	A.	Yes. The cases in which I have filed testimony before the Commission are
20	listed on page	e 70 of that same appendix.
21	EXECUTIV	E SUMMARY
22	Q.	What is the purpose of this testimony?

21

22

amortization period.

The purpose of this testimony is to provide a correction to the Staff Cost of 1 A. 2 Service Report Accounting Schedule 05, Depreciation Expense, and to summarize the 3 differences between Staff's depreciation recommendation and Ameren Missouri's 4 depreciation proposal for this rate case. 5 CORRECTIONS TO STAFF ACCOUNTING SCHEDULE 05 6 Q. What is the nature of the correction to the Cost of Service Report Accounting 7 Schedule 05 for depreciation expense? A. The average lives and net salvage percentages for each plant account in two 8 9 informational columns F and G in that schedule are incorrect. Does correcting the numbers recorded in these columns change Staff's 10 O. 11 depreciation expense or revenue requirement recommendations? 12 A. No. 13 What are the correct entries for these columns? Q. Addition of the Average Life and the Net Salvage percentage information to 14 A. 15 the two columns as shown in Schedule AWR-2. 16 Q. What is the basis for the Average Life information for each plant account? 17 Staff's recommended depreciation rates and the average lives depend on the A. 18 method Ameren Missouri used to record retirements for an account. For mass asset 19 accounts, where retirements are recorded as they physically occur, the life in years shown 20 represents the average service life for interim retirements observed for the account, (from the

Survivor Curve). For vintage amortized accounts, the life in years shown represents the

- 1
- 0. What is the basis for the Net Salvage information for each plant account?
- 2
- 3
- 4

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- 13
- 14
- 15
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- 18 19
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\$5.0 million per year for five years.

- A. The Staff recommended depreciation rate for Ameren Missouri includes accrual of future expected net salvage for interim retirements over the expected remaining life
- of the current assets in each account. The net salvage percent shown is a future expected
- interim net salvage cost as a percent of total plant original cost.

STAFF AND AMEREN MISSOURI DEPRECIATION DIFFERENCES

- Q. Why does Staff's recommended depreciation expense and Ameren Missouri's proposed depreciation expense differ?
- There are two sources contributing to the difference in overall depreciation A. expense. One is that Staff and Ameren Missouri used different methods to address an over-accrual of depreciation reserves; the other is the difference in the maximum amount of negative net salvage each allowed for an account.
 - What is the difference related to over-accrual of deprecation reserves? Q.
- Ameren Missouri's proposed switch to a vintage amortization method of A. depreciation accruals for selected General Plant accounts would result in an excess of depreciation reserves for amortized accounts of approximately \$25.0 million. Ameren Missouri proposes to return this amount to ratepayers by reducing the depreciation expense in its revenue requirement by approximately \$5.0 million per year for five years. In contrast, Staff recommends transferring the \$25.0 million to production plant accounts for Venice and Meramec that show a deficiency in deprecation reserves rather than returning it to ratepayers. Thus, Staff's depreciation expense does not reflect Ameren Missouri's proposed reduction of

Rebuttal Testimony of Arthur W. Rice, PE

1	Q. What is the difference related to negative net salvage?
2	A. Staff recommends that as it did for The Empire District Electric Company
3	("Empire") in Case No. ER-2004-0570, by its order dated March 10, 2005, the Commission
4	cap net salvage at a maximum negative value of 100%. This affects two Ameren Missour
5	accounts in this case, USOA Account 364 (Poles and Fixtures) and USOA Account 369.01
6	(Overhead Services), where Ameren Missouri has proposed using a net salvage of minus
7	150% and minus 200% respectively. Staff's recommendation to cap negative net salvage at
8	minus 100% reduces annual depreciation expense by approximately \$20.3 million compared
9	to Ameren Missouri's proposal.
10	Q. What is the overall difference in depreciation expense between Staff and
11	Ameren Missouri from these two different approaches?
12	A. Staff's recommended annual depreciation expense is approximately
13	\$15.3 million less than Ameren Missouri's proposal.
14	Q. Do you have any further rebuttal testimony?
15	A. No.

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Union Electric Company d/b/a) Ameren Missouri's Tariff to Increase Its) Case No. ER-2014-0258 Revenues for Electric Service)			
AFFIDAVIT OF ARTHUR W. RICE, PE			
STATE OF MISSOURI)) ss. COUNTY OF COLE)			
Arthur W. Rice, PE, of lawful age, on his oath states: that he has participated in the preparation of the foregoing Rebuttal Testimony in question and answer form, consisting of pages to be presented in the above case; that the answers in the foregoing Rebuttal Testimony were given by him; that he has knowledge of the matters set forth in such answers; and that such matters are true and correct to the best of his knowledge and belief.			
Arthur W. Rice, PE			
Subscribed and sworn to before me this day of January, 2015.			
D. SUZIE MANKIN Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: December 12, 2016 Commission Number: 12412070			

Accounting Schedule:

Sponsor:

Art Rice

Ameren Missouri Case No. ER-2014-0258 12 Months Ending March 31, 2014 True-Up through December 31, 2014 Depreciation Expense

<u>A</u>	<u>B</u>	E E	<u>G</u>
Account		Average	Net
Number	Plant Account Description	Life	Salvage
	INTANGIBLE PLANT		
302.000	Franchises and Consents	0	0.00%
303.000	Miscellaneous Intangibles	0	0.00%
	_		
	STEAM PRODUCTION		
	MERAMEC STEAM PRODUCTION PLANT		
310.000	Land/Land Rights - Meramec	0	0.00%
311.000	Structures - Meramec	100	-1.00%
312.000	Boiler Plant Equipment - Meramec	55	-5.00%
314.000	Turbogenerator Units - Meramec	60	-2.00%
315.000	Accessory Electric Equipment - Meramec	70	-1.00%
316.000	Misc. Power Plant Equipment - Meramec	40	0.00%

316.210	Misc. PP Equip - Office Furniture - Meramec	0	0.00%
316.210	- Fully Accrued Misc. PP Equip - Office Furniture - Meramec	20	0.00%
310.210	- Amortized	20	0.0078
316.220	Misc. PP Equip - Office Equip - Meramec -	0	0.00%
	Fully Accrued		
316.220	Misc. PP Equip - Office Equip - Meramec -	15	0.00%
316.230	Amortized Misc. PP Equip - Computers - Meramec -	0	0.00%
0.10.200	Fully Accrued		
316.230	Misc. PP Equip - Computers - Meramec -	5	0.00%
047.000	Amortized	_	0.000/
317.000	Meramec ARO	0	0.00%
	SIOUX STEAM PRODUCTION PLANT		
182.000	Sioux Post Op - 2010	0	0.00%
182.000	Sioux Post Op - 2011 & 2012	0	0.00%
310.000	Land/Land Rights - Sioux	0	0.00%
311.000	Structures - Sioux	100	-1.00%
312.000	Boiler Plant Equipment - Sioux	55	-5.00%
314.000	Turbogenerator Units - Sioux	60	-2.00%
315.000	Accessory Electric Equipment - Sioux	70	-1.00%
316.000	Misc. Power Plant Equipment - Sioux	40	0.00%
316.210	Misc. PP Equip - Office Furniture - Sioux -	0	0.00%
040 040	Fully Accrued	00	0.000/
316.210	Misc. PP Equip - Office Furniture - Sioux - Amortized	20	0.00%
316.220	Misc. PP Equip - Office Equip - Sioux - Fully	0	0.00%
	Accrued		

A	В	E	
Account		Average 👵 🦬	Net ≝
Number	Plant Account Description	Life	Salvage
316.220	Misc. PP Equip - Office Equip - Sioux -	15	0.00%
316.230	Amortized Misc. PP Equip - Computers - Sioux - Fully	0	0.00%
310.230	Accrued	U	0.00%
316.230	Misc. PP Equip - Computers - Sioux -	5	0.00%
	Amortized		
317.000	Sioux ARO	0	0.00%
	VENICE STEAM PRODUCTION PLANT		
310.000	Land/Land Rights - Venice	0	0.00%
311.000	Structures - Venice	0	0.00%
312.000	Boiler Plant Equipment - Venice	0	0.00%
314.000	Turbogenerator Units - Venice	0	0.00%
315.000	Accessory Electric Equipment - Venice	0	0.00%
316.000	Misc. Power Plant Equipment - Venice	0	0.00%
317.000	Venice ARO	0	0.00%
	LABADIE STEAM PRODUCTION UNIT		
310.000	Land/Land Rights - Labadie	0	0.00%
311,000	Structures - Labadie	100	-1.00%
312.000	Boiler Plant Equipment - Labadie	55	-5.00%
312.300	Coal Cars - Labadie	25	25.00%
314.000	Turbogenerator Units - Labadie	60	-2.00%
315.000	Accessory Electric Equipment - Labadie	70	-1.00%
316.000	Misc. Power Plant Equipment - Labadie	40	0.00%
316.210	Misc. PP Equip - Office Furniture - Labadie -	0	0.00%
316.210	Fully Accrued Misc. PP Equip - Office Furniture - Labadie -	20	0.00%
316.220	Amortized Misc. PP Equip - Office Equip - Labadie - Fully Accrued	0	0.00%
316.220	Misc. PP Equip - Office Equip - Labadie -	15	0.00%
316.230	Misc. PP Equip - Computers - Labadie - Fully Accrued	0	0.00%
316.230	Misc. PP Equip - Computers - Labadie - Amortized	5	0.00%
317.000	Labadie ARO	0	0.00%

A	В	FFEE	Ğ
Account	property and the comment of the state of the	Average	Net
Number	Plant Account Description	Life	Salvage
	RUSH ISLAND STEAM PRODUCTION		
	PLANT		
310.000	Land/Land Rights - Rush	0	0.00%
311.000	Structures - Rush	100	-1.00%
312.000	Boiler Plant Equipment - Rush	55	-5.00%
314.000	Turbogenerator Units - Rush	60	-2.00%
315.000	Accessory Electric Equipment - Rush	70	-1.00%
316.000	Misc. Power Plant Equipment - Rush	40	0.00%
. 316.210	Misc. PP Equip - Office Furniture - Rush -	0	0.00%
316.210	Fully Accrued Misc. PP Equip - Office Furniture - Rush -	20	0.00%
010.210	Amortized		0,00,70
316.220	Misc. PP Equip - Office Equip - Rush - Fully	0	0.00%
	Accrued		
316.220	Misc. PP Equip - Office Equip - Rush -	15	0.00%
316.230	Amortized Misc. PP Equip - Computers - Rush - Fully	0	0.00%
010.200	Accrued		0.0070
316.230	Misc. PP Equip - Computers - Rush -	5	0.00%
	Amortized	_	
317.000	Rush Island ARO	0	0.00%
	COMMON STEAM PRODUCTION PLANT		
310.000	Land/Land Rights - Common	0	0.00%
311.000	Structures - Common	100	-1.00%
312.000	Boiler Plant Equipment - Common	55	-5.00%
314.000	Turbogenerator Units - Common	70	-1.00%
315.000	Accessory Electric Equipment - Common	40	0.00%
316.001	Misc. Power Plant Equipment - Common	40	0.00%
316,002	Production - Office Furniture, Equip	40	0.00%
316.004	Production - Tools, Shop, Garage Equip	40	0.00%
316.007	Production - Unit Maintenance Tools	40	0.00%
510.557	Troubling one maintenance roots	10	0,00,0
	CALLAWAY NUCLEAR PRODUCTION		
400.000	PLANT		0.000/
182.000	Callaway Post Operational Costs	0	0.00%
320.000	Land/Land Rights - Callaway	0	0.00%
321.000	Structures - Callaway	100	-1.00%
322.000	Reactor Plant Equipment - Callaway	55	-6.00%
323.000	Turbogenerator Units - Callaway Accessory Electric Equipment - Callaway	50 80	-3.00% -1.00%
324.000	Accessory Electric Equipment - Canaway	80	-1.00%
325.000	Misc. Power Plant Equipment - Callaway	35	0.00%
325.210	Misc. PP Equip - Office Furniture - Callaway	0	0.00%
325.210	- Fully Accrued Misc. PP Equip - Office Furniture - Callaway	20	0.00%
325,220	- Amortized Misc. PP Equip - Office Equip - Callaway -	0	0.00%
	Fully Accrued		
325.220	Misc. PP Equip - Office Equip - Callaway - Amortized	15	0.00%

A	В	<u> </u>	_
Account		Average	∷. Net⊿ /
Number	Plant Account Description	Life : 1	Salvage /
325.230	Misc. PP Equip - Computers - Callaway -	0	0.00%
325,230	Fully Accrued	5	0.00%
\$25.230	Misc. PP Equip - Computers - Callaway - Amortized	5	0.00%
326.000	Callaway ARO	. 0	0.00%
	HYDRAULIC PRODUCTION		
	OSAGE HYDRAULIC PRODUCTION PLANT		
111.000	Accum. Amort. of Land Appraisal Studies - Osage	0	0.00%
330.000	Land/Land Rights - Osage	0	0.00%
331.000	Structures - Osage	130	-3.00%
332.000	Reservoirs - Osage	150	-1.00%
333.000	Water Wheels/Generators - Osage	95	-14.00%
334.000	Accessory Electric Equipment - Osage	65	-2.00%
335.000	Misc. Power Plant Equipment - Osage	55	-2.00%
335.210	Misc. PP Equip - Office Furniture - Osage -	0	0.00%
	Fully Accrued		
335.210	Misc. PP Equip - Office Furniture - Osage -	20	0.00%
335.220	Amortized Misc. PP Equip - Office Equip - Osage -	0	0.00%
335,220	Fully Accrued	١	0.00%
335.220	Misc. PP Equip - Office Equip - Osage -	15	0.00%
	Amortized		
335.230	Misc. PP Equip - Computers - Osage - Fully	0	0.00%
	Accrued		
335.230	Misc. PP Equip - Computers - Osage -	5	0.00%
335.008	Amortized Hydro Fish and Wildlife Facilities - Osage	ا ه	0.00%
000.000	Tryuto I fait and winding I actifices - Coage	`	
335.009	Hydro Museum - Osage	0	0.00%
336.000	Roads, Railroads, Bridges - Osage	50	0.00%
336.000	Roads, Railroads, Bridges - SQ Curve -	0	0.00%
	Osage		

<u> </u>	<u>B</u>	<u>E</u>	<u>.</u>
Account		Average	rvese Net∎
Number		Life	Salvage
	KEOKUK HYDRAULIC PRODUCTION		
111,000	PLANT Accum. Amortization of Land Appraisal	0	0.00%
113.000	Studies - Keokuk	J	0.0078
330.000	Land/Land Rights - Keokuk	0	0.00%
331.000	Structures - Keokuk	130	-1.00%
332.000	Reservoirs - Keokuk	150	-6.00%
333.000	Water Wheels/Generators - Keokuk	95	-3.00%
334.000	Accessory Electric Equipment - Keokuk	65	-1.00%
335.000	Misc. Power Plant Equipment - Keokuk	55	0.00%
335.210	Misc. PP Equip - Office Furniture - Keokuk -	0	0.00%
	Fully Accrued		
335.210	Misc. PP Equip - Office Furniture - Keokuk -	20	0.00%
335,220	Amortized Misc. PP Equip - Office Equip - Keokuk -	0	0.00%
000.220	Fully Accrued	•	0.00%
335.220	Misc. PP Equip - Office Equip - Keokuk -	15	0.00%
	Amortized		
335.230	Misc. PP Equip - Computers - Keokuk -	0	0.00%
225 220	Fully Accrued	5	0.00%
335.230	Misc. PP Equip - Computers - Keokuk - Amortized	ອ	0.00%
335.008	Hydro Fish and Wildlife Facilities - Keokuk	0	0.00%
	.,,	•	
335.009	Hydro Museum - Keokuk	0	0.00%
336.000	Roads, Railroads, Bridges - Keokuk	50	0.00%
336.000	Roads, Railroads, Bridges - SQ Curve -	0	0.00%
	Keokuk		
	TALISE SALIK HYDDALII IC DDODLICTION		
	TAUM SAUK HYDRAULIC PRODUCTION PLANT		
330.000	Land/Land Rights - Taum Sauk	0	0.00%
331.000	Structures - Taum Sauk	130	-1,00%
332.000	Reservoirs - Taum Sauk	150	-6,00%
333.000	Water Wheels/Generators - Taum Sauk	95	-3.00%
334.000	Accessory Electric Equipment - Taum Sauk	65	-1.00%
	, ,		
335.000	Misc. Power Plant Equipment - Taum Sauk	55	0.00%
225.040	Miles DD Carrier Office Countitions Towns	•	0.000/
335.210	Misc. PP Equip - Office Furniture - Taum Sauk - Fully Accrued	0	0.00%
335.210	Misc. PP Equip - Office Furniture - Taum	20	0.00%
****	Sauk - Amortized		
335.220	Misc. PP Equip - Office Equip - Taum Sauk -	0	0.00%
	Fully Accrued		
335.220	Misc. PP Equip - Office Equip - Taum Sauk -	15	0.00%
335.230	Amortized Misc. PP Equip - Computers - Taum Sauk -	0	0.00%
000.200	Fully Accrued	v	0.0078
335.230	Misc. PP Equip - Computers - Taum Sauk -	5	0.00%
	Amortized		
335.008	Hydro Fish and Wildlife Facilities - Taum	0	0.00%
335.009	Sauk Hydro Museum - Taum Sauk		0.00%
336.000	Roads, Railroads, Bridges - Taum Sauk	0	0.00%
000.000	Moade, Mainoade, Dhuges - Taum Sauk	50	0.00%

A 2	<u>B</u>	E. J.	
Account		Average	Net -
Number	Plant Account Description	Life	Salvage
	OTHER PRODUCTION		
	OTHER PRODUCTION PLANT		
340.000	Land/Land Rights - Other	o	0.00%
341.000	Structures - Other	40	-5.00%
342.000	Fuel Holders - Other	40	-5.00%
344.000	Generators	40	-5.00%
344.000	Generators - Solar	20	0.00%
344.000	Generators - Landfill Gas	6	40.00%
345.000	Accessory Electric Equipment - Other	35	-5.00%
346.000	Misc. Power Plant Equipment - Other	20	-5.00%
346.210	Misc. PP Equip - Office Furniture - Other -	0	0.00%
	Fully Accrued		
346.210	Misc. PP Equip - Office Furniture - Other -	20	0.00%
	Amortized		0.000/
346.220	Misc. PP Equip - Office Equip - Other - Fully	0	0.00%
346,220	Accrued Misc. PP Equip - Office Equip - Other -	15	0.00%
UTU.LLU	Amortized		0.0070
346.230	Misc. PP Equip - Computers - Fully Accrued	0	0.00%
		_	
346.230	Misc. PP Equip - Computers - Other -	5	0.00%
	Amortized		
	TRANSMISSION PLANT		
111.000	Accum. Amortization of Electric Plant - TP	0	0.00%
350,000	Land/Land Rights - TP	0	0.00%
352.000	Structures & Improvements - TP	. 60	-5.00%
353,000	Station Equipment - TP	60	-5.00%
354.000	Towers and Fixtures - TP	70	-30.00%
355.000	Poles and Fixtures - TP	58	-100.00%
356.000	Overhead Conductors & Devices - TP	58	-25.00%
359.000	Roads and Trails - TP	70	0.00%
359.000	Roads and Trails - SQ Curve - TP	0	0.00%
	DISTRIBUTION PLANT		
360.000	Land/Land Rights - DP	0	0.00%
361.000	Structures & Improvements - DP	60	-5.00%
362.000	Station Equipment - DP	60	-5.00%
364.000	Poles, Towers, & Fixtures - DP	47	-100.00%
365.000	Overhead Conductors & Devices - DP	50	-50.00%
366.000	Underground Conduit - DP	70	-50.00%
367.000	Underground Conductors & Devices - DP	-56	-25.00%
368.000	Line Transformers - DP	41	5.00%
369.100	Services - Overhead - DP	43	-100.00%
369.200	Services - Underground - DP	55	-90.00%
370.000	Meters - DP	26	0.00%
371.000	Meter Installations - DP	25	0.00%
373.000	Street Lighting and Signal Systems - DP	36	-40.00%
		.	

A	<u>B</u>	· E	G
Account		Average	 Net≔
Number	Plant Account Description	Life	Salvage
	GENERAL PLANT		
389.000	Land/Land Rights - GP	0	0.00%
390.000	Structures & Improvements - Misc - GP	55	-5.00%
390.000	Structures & Improvements - Large - GP	48	-10.00%
390.500	Structures & Improvements - Training - GP	5	0.00%
391.000	Office Furniture & Equipment - Fully Accrued - GP	0	0.00%
391.000	Office Furniture & Equip - Amortized - GP	20	0.00%
391.000	Office Furniture & Equip - Reserve Recovery - GP	0	0.00%
391.100	Mainframe Computers - GP	0	0.00%
391.100	Mainframe Computers - Reserve Recovery - GP	0	0.00%
391.200	Personal Computers - Fully Accrued - GP	0	0.00%
391.200	Personal Computers - Amortized - GP	5	0.00%
391.200	Personal Computers - Reserve Recovery - GP	0	0.00%
391.300	Office Equip - Fully Accrued - GP	0	0.00%
391.300	Office Equip - Amortized - GP	15	0.00%
391.300	Office Equip - Reserve Recovery - GP	0	0.00%
392.000	Transportation Equipment - GP	11	10.00%
392.500	Transportation Equipment - Training - GP	5	0.00%
393.000	Stores Equipment - Fully Accrued - GP	0	0.00%
393.000	Stores Equipment - Amortized - GP	20	0.00%
393.000	Stores Equipment - Reserve Recovery - GP	0	0.00%
394.000	Laboratory Equipment - Fully Accrued -GP	0	0.00%
394.000	Laboratory Equipment - Amortized - GP	20	0.00%
394.000	Laboratory Equip - Reserve Recovery - GP	0	0.00%
394.500	Laboratory Equipment - Training - GP	5	0.00%
395.000	Tools, Shop, & Garage Equipment- GP	20	0.00%
395.000	Tools, Shop, & Garage Equip - Reserve Recovery - GP	0	0.00%
396.000	Power Operated Equipment - GP	15	15.00%
397.000	Communication Equip - Fully Accrued -GP	0	0.00%
397.000	Communication Equip - Amortized - GP	15	0.00%
397.000	Communication Equip - Reserve Recovery - GP	0	0.00%
397.500	Communication Equip - Training - GP	5	0.00%
398.000	Miscellaneous Equip - Fully Accrued -GP	0	0.00%
398.000	Miscellaneous Equip - Amortized - GP	20	0.00%
398.000	Miscellaneous Equip - Reserve Recovery - GP	0	0.00%