BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission, et. al.	:	R-2016-2537349, et al.
V.	:	
۷.	:	
Metropolitan Edison Company	:	
Pennsylvania Public Utility Commission, et. al.	:	R-2016-2537352, et al.
	:	
v.	:	
Pennsylvania Electric Company	•	
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Pennsylvania Public Utility Commission, et. al.		R-2016-2537355, et. al.
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v.	:	,
v.	:	
	:	
v. Pennsylvania Power Company	:	
v.	:	R-2016-2537359, et al.
v. Pennsylvania Power Company Pennsylvania Public Utility Commission, <i>et. al.</i>		
v. Pennsylvania Power Company		

SURREBUTTAL TESTIMONY

OF

JAMES S. GARREN

ON BEHALF OF OFFICE OF CONSUMER ADVOCATE

1 **INTRODUCTION**

2 Q. PLEASE STATE YOUR NAME, POSITION, AND BUSINESS ADDRESS.

A. My name is James S. Garren. I am an analyst with the economic consulting firm of
Snavely King Majoros & Associates, Inc. ("Snavely King Majoros" or "SKM").

5 Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY IN THIS 6 PROCEEDING?

7 A. Yes, I submitted direct testimony on July 22, 2016. That testimony included a summary
8 of my qualifications and experience.

9 PURPOSE OF SURREBUTTAL TESTIMONY

10 Q. WHAT IS THE PURPOSE OF YOU SURREBUTTAL TESTIMONY?

A. My surrebuttal testimony responds to the Rebuttal Testimony of John J. Spanos. Mr.
Spanos objects to my testimony concerning the Companies' wholesale switch from
Average Service Life ("ASL") depreciation to Equal Life Group ("ELG") depreciation
thus collectively increasing by \$60.9 million, the depreciation expense charged to
Pennsylvania ratepayers caused solely by the flip of a switch in a computer program.

16 Q. PLEASE SUMMARIZE YOUR POSITION.

A. I am opposed to ELG for various reasons but in summary, I do not think ELG is in the
best interest of FirstEnergy's ratepayers. ELG is accelerated depreciation, which is
antithetical to sound ratemaking principles and concepts. My Exhibit–JSG-3
demonstrates that ELG is accelerated depreciation and it also demonstrates that from an
economic standpoint, accelerated depreciation is harmful to ratepayers when their
discount rate is used to evaluate overall revenue requirement streams which include

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accelerated depreciation. From a practical standpoint, ELG has negative aspects and it is not necessary.

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Q. WHAT ARE SOME OF THE NEGATIVE ASPECTS?

4 A. To date, these Companies have been using Commission-approved ASL depreciation rates. Mr. Spanos deems all of those prior depreciation rates to have been incorrect and 5 proposes a wholesale switch from ASL to ELG. A wholesale switch from ASL to ELG 6 7 in midstream creates an immediate accumulated reserve deficiency that is significant in 8 dollar terms and then in turn increases current depreciation rates to penalize todays' and future generations of ratepayers for a deficiency that is not reasonable or substantiated. A 9 10 depreciation procedure switch does not change how plant will be retired, it merely 11 increases depreciation expense on the same "on the ground plant" that has existed all 12 along, even if the assumed life stays the same.

This is not fair and is tantamount to retroactive ratemaking through a regulatory slight-ofhand manipulation. Consequently, while I am opposed to ELG, I have recommended that if the Commission approves ELG, it should order the companies to file new depreciation studies using December 31, 2017 data and make the 2017 vintage the first ELG vintage rather than retroactively applying ELG to all prior vintages.

18 Q. WOULD YOU OBJECT TO CALCULATING DEPRECIATIO NEXPENSE 19 THROUGH 2016 IN THE CURRENT CASE USING ASL AND THEN APPLYING 20 ELG SOLELY TO 2017?

A. If the Commission decides to adopt ELG, I would not object to that procedure. The
Companies could also use that procedure and 2017 as the demarcation point in their
annual depreciation reports to the Commission.

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Q. PLEASE SUMMARIZE MR. SPANOS'S REBUTTAL TO YOUR POSITION.

A. Mr. Spanos addresses my opposition to ELG "notwithstanding the large body of
decisions by the PaPUC approving ELG for other utilities."¹

4 Q. DO YOU DISPUTE THAT THE COMMISSION HAS APPROVED ELG FOR 5 OTHER UTILITIES?

6 A. No, the Commission has approved ELG in the past based on the circumstances in the 7 cases involved. I am not cognizant of a situation where four utilities have made such a 8 huge switch simultaneously. Furthermore, I understand that some of those earlier cases 9 may have involved a switch from a decelerated depreciation method to ELG. I understand that in those proceedings the Companies involved claimed that the 10 decelerated method was deficient. The circumstances here are different. To the best of 11 12 my knowledge, no one has stated that the ASL method is deficient on its face. For example, Mr. Spanos files studies in most other jurisdictions using the ASL method. 13 Therefore, the circumstances in this case are different than the circumstances in earlier 14 cases where ELG was approved. Based on the facts of this case, a switch to ELG as 15 proposed by the Companies is neither reasonable nor necessary for them to adequately 16 17 recover their depreciation expense.

18 Q. DO YOU HAVE ANY GENERAL COMMENTS REGARDING MR. SPANOS'S 19 REBUTTAL TO YOUR TESTIMONY?

A. Yes, in many cases Mr. Spanos did not accurately quote my testimony, thus at a
minimum he puts his own spin on my position. For example, at page 3 Mr. Spanos states
"First, utilities are entitled to a return of as well as a return on their investment in plant
and equipment dedicated to furnishing public utility service." Mr. Spanos's footnote

¹ Spanos Rebuttal p. 1-2

1		reverences page 5, lines 13-15 of my testimony. I did not use the word "entitled." In my
2		opinion, utilities are entitled to an opportunity to earn a return on and of their capital
3		prudently invested in public utility property. On the other hand, there are no guarantees.
4 5 6	Q.	IS THERE A PRIMARY DIFFERENCE BETWEEN ELG AND ASL THAT LIES AT THE HEART OF THE DISAGREEMENT BETWEEN YOU AND MR. SPANOS?
7	A.	Yes, ASL is straight-line depreciation whereas ELG is accelerated depreciation. Straight-
8		line depreciation will reach a 50 percent depreciation reserve level when an asset reaches
9		50 percent of its life. Accelerated depreciation will reach a depreciation reserve level
10		more than 50 percent when an asset reaches 50 percent of its life, and decelerated
11		depreciation will reach a reserve level of less than 50 percent when an asset reaches 50
12		percent of its life. My Exhibit JSG-3 demonstrates that ELG produces a reserve level
13		greater than 50 percent when an asset reaches 50 percent of its life. This is a fundamental
14		fact.
15 16	Q.	WHAT ARE SOME OF THE POINTS MR. SPANOS USES TO PUT FORTH HIS ARGUMENT?
17	A.	In addition to his fundamental disagreement with the facts:
18	•	Mr. Spanos alleges that ELG provides better matching, but Exhibit-JSG-3 demonstrates
19		that ELG does not provide better matching.
20	•	He asserts that depreciation does not provide a pass-through of cash from ratepayers to
21		the utility,
22	•	He argues that depreciation cannot increase profits,
23	•	He argues that ELG is not a form of accelerated depreciation.

- Mr. Spanos argues that *present value* of the difference between ELG depreciation and 1 ASL depreciation is not sensitive to the difference between the two. 2
- He apparently believes that ELG produces intergenerational equity as opposed to ASL, 3 • which he apparently believes is inconsistent with intergenerational equity.² 4

Mr. Spanos says 'since recovery should be consistent in its application to all utility plant 5 6 in service, the Commission should use the same grouping procedure for all vintages. Otherwise, intergenerational inequity occurs.' However, he fails to point out that the 7 reserve deficiency he creates by the switch in mid-stream is a major breach in 8 9 intergenerational equity. It penalizes todays and future ratepayers for the companies having used Commission-approved acceptable depreciation methods and procedures in 10 the past. 11

WHAT IS YOUR RESPONSE TO MR. SPANOS? **Q**. 12

A. While there may be certain minor aspects of his testimony where we might agree, in 13 general I disagree with most of what Mr. Spanos says because he is not telling the whole 14 story. The mid-stream switch from ASL to ELG is neither reasonable nor necessary. At 15 least in theory, the switch will not change the total amount they charge for depreciation 16 over the entire life of the assets. On the other hand it will immediately increase charges 17 to current and future ratepayers for the reserve deficiency created by the switch. 18

BEFORE DISCUSSING YOUR EXHIBIT, PLEASE ADDRESS THOSE ASPECTS 19 0. OF MR. SPANOS'S REBUTTAL THAT SHOULD NOT REQUIRE EXHIBITS 20 TO DISPUTE. 21

² Spanos p. 7

1	A.	Mr. Spanos does not agree that depreciation results in a pass through of cash from
2		ratepayers to the utility. I am surprised at this disagreement. All one must do is examine
3		the utilities Statements of Income and Statements of Cash Flows to see the pass through -
4		the pass through is not hidden.
5 6 7	Q.	MR. SPANOS ARGUES 'THAT DEPRECIATION REPRESENTS THE REPAYMENT TO INVESTOR – OVER TIME – OF THEIR OWN MONEY?' IS THAT TRUE?
8	A.	Yes, that is true. Nothing I am proposing here results in a reduction to the return of the
9		total amount of the Companies' investment in plant and equipment. The issue in this case
10		involves an unnecessary acceleration to the annual amount of that return.
11		
12 13	Q.	DOES MR. SPANOS MAKE ANY OTHER COMMENTS REGARDING THE ACCOUNTING CONSEQUENCES OF DEPRECIATION.
14	A.	Yes, Mr. Spanos argues, "an increase in a utility's annual depreciation accrual does not
15		produce an increase in its net income." ³ That may be true looking at accrual basis net
16		income, but it is completely wrong when cash basis net income is considered. A \$1.00
17		increase to depreciation expense produces a dollar for dollar \$1.00 increase to a utility's
18		cash basis net income. Again, this is obvious.
19	Q.	PLEASE DISCUSS YOUR EXHIBIT – JSG-3.
20	A.	The top portion of Exhibit JSG-3 compares three depreciation methods for a \$100 single
21		asset plant account with a 5-year life. It shows straight-line ASL depreciation,
22		accelerated ELG depreciation and decelerated depreciation. The straight-line
23		depreciation method produces a 50 percent depreciation reserve at 2.5 years, i.e. midway

³ Rebuttal, p.6.

1		through the asset's life. The accelerated	d ELG depreciation produces a 70 percent
2		depreciation reserve level at 2.5 years and	the decelerated method produces a 30 percent
3		deprecation reserve at 2.5 years.	
4		Accumulated Reserve La	evels at 50% of Life
5		Straight-line ASL	50%
6		Accelerated ELG	70%
7		Decelerated	30%
8 9	Q.	DO THESE COMPARISONS DEMO AMOUNTS OF THE RELATIVE RESE	NSTRATE ANYTHING BEYOND THE RVE LEVELS?
10	А.	Yes, they demonstrate at least two relevant	facts. First, the 20 percent difference between
11		the accelerated 70 percent reserve level an	d the straight-line 50 percent reserve level is
12		the deficiency Mr. Spanos creates by sw	itching from the straight-line method to the
13		accelerated method. Second, it is obviou	is that the accelerated depreciation expense
14		stream, which starts high and then declines	, creates intergenerational <i>inequities</i> while the
15		straight-line method is in harmony with inte	rgenerational equity.

16 Q. WHAT IS SHOW IN THE MIDDLE SECTION OF EXHIBIT-JSG-3?

A. The middle section of JSG-3 compares group level deprecation rates since group depreciation is at the heart of Mr. Spanos's objections to my proposals. The table contains three columns relating to a 5-year average service life for a vintage group of assets. The assets within the vintage group are retired in equal annual amounts over a 5-year average service life. Since this is a group of assets, some elements of the group will retire prior to 5 years and other elements will survive longer than 5 years. Again, even though we are dealing with a group rather than a single asset, the straight-line ASL

depreciation rate remains at a constant 20 percent. On the other hand, the accelerated
 ELG rates start high and then go below the straight-line ASL rates. This is the same
 pattern as shown in the single asset comparisons.

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Q. WHAT DOES THE BOTTOM PORTION OF THE EXHIBIT SHOW?

A. Below the Method Comparison is the Ratemaking Comparison. There I have used the
single asset comparisons combined with a 3 percent rate of return to calculate annual
revenue requirements for the straight-line ASL Method and the accelerated ELG Method.
The straight-line revenue requirements sum to \$109.00 versus the accelerated revenue
requirement that sums to \$107.00.

10 Mr. Spanos essentially points to the \$2.00 difference between the two revenue 11 requirement streams to demonstrate that accelerated depreciation is better because of a 12 lower revenue requirement overall.

He alleges that from a present value point of view, ratepayers should be indifferent because when I use the 3 percent rate of return to discount the two streams, they both net to \$100. The exhibit shows this.

However, Mr. Spanos fails to acknowledge that a discount rate is a judgmental matter.
The ratepayers' discount rate is not the Company's 3.0 percent rate of return. The
ratepayers' discount rate is much higher – more akin to credit card interest rates in the 12
to 18 percent range. Assuming arguendo that the ratepayers' discount rate is the 18
percent annual rate they pay the utilities for late payments (1.5% per month or 18% per
year), the accelerated ELG revenue requirements further penalize ratepayers as shown by
the additional \$5.68 economic cost in the lower right-hand corner of my exhibit.

8

Q. MR. SPANOS RESPONDS TO YOUR ARGUMENT THAT DEPRECIATION IS RETAINED FOR NON-UTILITY PURPOSES AS "SIMPLY WRONG AS A FACTUAL MATTER" PLEASE COMMENT.

- 4 A. Utilities may retain the cash flow they collect through depreciation for either utility or
- 5 non-utility purposes.

6 Q. PLEASE SUMMARIZE YOUR RESPONSE TO MR. SPANOS.

7 A. Mr. Spanos has not supported a switch to ELG.

8 Q. DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?

9 A. Yes, it does.

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	:	
V.	:	
West Penn Power Company	:	
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EXHIBIT ACCOMPANYING THE

SURREBUTTAL TESTIMONY

OF

JAMES S. GARREN

ON BEHALF OF OFFICE OF CONSUMER ADVOCATE

August 31, 2016

Exhibit-JSG-3.

			Accumulated at	2.5 years			30.0000%			
	YD 5-year Life	Accumulated	Depreciation Accumulated at	Year End	6.66667%	20.00000%	40.0000%	66.66667%	100.00000%	
	Decelerated SOYD 5-year Life		Decelerated	Rate	0.066667	0.133333	0.200000	0.266667	0.333333	1.00000
			Decelerated	SOYD	1/15	2/15	3/15	4/15	5/15	
				2.5 years			70.0000%			
nal Cost	OYD 5-year Life	Accumulated	Depreciation Accumulated at	Year End	33.33333%	60.00000%	80.00000%	93.33333%	100.00000%	
Theory Assuming \$100 Original Cost	ELG Accelerated SOYD 5-year Life		Accelerated	Rate	33.33333%	26.66667%	20.00000%	13.33333%	6.66667%	100.0000%
Theory Assu			Accelerated	SOYD	5/15	4/15	3/15	2/15	1/15	1 1
	ife		Accumulated	at 2.5 years			50.00000%			
	ASL Straight Line 5-year life	Accumulated	Depreciation	Year End	20.00000%	40.0000%	60.0000%	80.0000%	100.00000%	
	ASL Strai			SL Rate	20.0000%	20.0000%	20.0000%	20.0000%	20.00000%	100.0000%
				SL	1/5	1/5	1/5	1/5	1/5	. "
				Year	1	2	c	4	Ŋ	15

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											kevenue
Plant Accur	Accumulated			Deprecition	Revenue	Accumulated			Deprecition	Revenue	Requirement
	Depreciation	Net Plant	Return at 3%	Expense	Requirement	Depreciation	Net Plant	Return at 3%	Expense	Requirement	Difference
100	0	100.00	3.00	20	23.00	0	100.00	3.00	33.33	36.33	(13.33)
100	20.00	80.00	2.40	20	22.40	33.33	66.67	2.00	26.67	28.67	(6.2
100	40.00	60.00	1.80	20	21.80	60.00	40.00	1.20	20.00	21.20	0.60
100	60.00	40.00	1.20	20	21.20	80.00	20.00	0.60	13.33	13.93	7.27
100	80.00	20.00	09.0	20	20.60	93.33	6.67	0.20	6.67	6.87	13.73
100	100.00	1	ı	0	1	100.00	1	1	1	1	I
Total		300.00	9.00	100.00	109.00		233.33	7.00	100.00	107.00	2.00

(\$5	

5.68)

First Energy Dockets: R-2016-2537349, 2537352, 2537355, 2537359 Depreciation Methods Comparison Single Unit

Rules: Each Method Must Allocate 100% over Life Results: Straight-line method - 50% accumulated at mid-life Accelerated method - more than 50% accumulated at mid-life Decelerated method - less than 50% accumulated at mid-life

METHOD COMPARISON - SINGLE UNIT

VINTAGE GROUP PROCEDURE COMPARISON ASL V ELG

Sum

		tion			38.7895%	28.7895%	18.7895%	13.7895%	10.4562%	7.9562%	5.9563%	4.2897%	2.8613%	1.6114%	0.5003%
urve	ELG	Depreciation	Rate	U											-
5-Year Straight Line Curve		ASL Depreciation	Rate	в	20.0000%	20.000%	20.000%	20.000%	20.000%	20.000%	20.000%	20.000%	20.000%	20.000%	20.000%
5-Yea		_	Age	A	0	0.5	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5

Conclusion: ELG is Accelerated Depreciation

NPV 18% - Additional Economic Cost to Ratepayers

Conclusion: Accelerated Depreciation is Not in the Ratepayers' Best Interests

040040

Basic Example ELG Rates for a Vintage 5 Year Straight Line Curve

				Acc	ruals	
Age	Surviving Investment 5SL Curve	Amount Retired	Age of Retired	For Each Group	All Groups	
А	В	С	D	E=C/D	F=Sum E (A to End)	
0.0	1.000	0.050	0.50	0.100	0.388	0.387895363
0.5	0.950	0.100	1.00	0.100	0.288	0.273500595
1.5	0.850	0.100	2.00	0.050	0.188	0.159711059
2.5	0.750	0.100	3.00	0.033	0.138	0.103421522
3.5	0.650	0.100	4.00	0.025	0.105	0.067965319
4.5	0.550	0.100	5.00	0.020	0.080	0.043759116
5.5	0.450	0.100	6.00	0.017	0.060	0.026803512
6.5	0.350	0.100	7.00	0.014	0.043	0.015014537
7.5	0.250	0.100	8.00	0.012	0.029	0.007153733
8.5	0.150	0.100	9.00	0.011	0.016	0.002417464
9.5	0.050	0.050	10.00	0.005	0.005	0.00025033
		1.000		0.388	1.338	1.088

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Pennsylvania Public Utility Commission, et. al.	:	R-2016-2537359, et al.
v.	:	
West Penn Power Company	•	

VERIFICATION

I, James S. Garren, hereby state that the facts above set forth in my Surrebuttal Testimony, OCA Statement No. 5-SR, are true and correct and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject

to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Signature:

ames S. Garren

Consultant Address: Snavely King Majoros & Associates, Inc. PO Box 727 Millersville, MD 21108

DATED: August 31, 2016