STATE OF NEW HAMPSHIRE BEFORE THE PUBLIC UTILITIES COMMISSION

Docket DG 08-009

Service Services	ORIGINAL
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EnergyNorth Natural Gas, Inc. d/b/a National Grid NH

> Rebuttal Testimony of Paul M. Normand

- 1 Q. Are you the same Paul M. Normand who has previously filed direct testimony in
- 2 this proceeding?
- 3 A. Yes, I am.
- 4 Q. What is the purpose of your rebuttal testimony?
- 5 A. I am responding to the recommendations of Staff Witness James J. Cunningham, Jr.,
- 6 made in his Direct Testimony dated October 31, 2008, in this proceeding.
- 7 Q. What specific points in Mr. Cunningham's testimony are you addressing in this
- 8 rebuttal testimony?
- 9 A. 1) Net salvage rates
- 10 2) Depreciation reserve variance
- 11 3) Amortization of reserve variance

12 **NET SALVAGE**

- 13 Q. Do you agree with Mr. Cunningham's recommendation with respect to his
- proposing no change to the Company's existing approved Net Salvage (NS)
- levels for Mains (-10%) and Services (-60%)?
- 16 A. No, I do not. The Company's last depreciation study supporting these results was
- prepared in 1989 using plant data in service as of 9/30/88. The length of time since
- the last study alone would dictate that these currently approved NS levels are
- inadequate given that the largest component of cost of removal (COR) is labor which
- 20 has increased considerably over the last 20 years. I also reviewed industry ranges as
- 21 part of the overall analysis of each account to ensure that the recommendations
- proposed are reasonable. PMN-3, which is attached to this testimony, presents AGA
- 23 industry data for gas utilities showing the Net Salvage (NS) ranges generally

- 1 experienced in the gas industry, and supports my proposed NS levels. PMN-4
- 2 presents more recent industry trends and ranges for major gas distribution accounts.
- A review of this data also for Accounts 376, Mains, and 380, Services, shows that the
- 4 NS proposed is reasonable.
- 5 Q. Do you agree that having more Cost of Removal (COR) and salvage data
- available would improve the estimation of any proposed NS levels included in
- your proposed depreciation accrual rates?
- 8 A. In general, having available additional data and analyses is always better as it
- 9 certainly adds support to the proposed level of recovery. In this case, however, it is
- very unlikely that additional data would have changed our proposed
- recommendations whatsoever.

12 Q. Why is that the case?

- 13 A. The net salvage data provided by the Company was for a period from 2000 through
- 14 2006 for Mains and Services (see response to Staff Data Request 2-70, attached as
- 15 Attachment PMN-5). In that response, the results are net salvage levels of
- approximately -70% for Mains and -175% for Services. The current approved levels
- of net salvage are -10% and -60%, respectively. In recognizing the time lapse since
- the last study, coupled with increasing labor costs being the primary component of
- removal costs and the actual realized COR mentioned above, the proposed COR
- values included in the proposed accrual rate calculations are very reasonable. The
- 21 following table reflects how conservative the Company's proposed changes to COR
- 22 are:

Table 1
Cost of Removal

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	Existing	Proposed	Realized	Proposed to Realized Percent
Mains	-10%	-15%	-69.56%	21.6%
Services	-60%	-70%	-175.42%	39.9%

- The Company's realized (experienced) net salvage levels of -69.56% for Mains and -175.42% for Services is well above the proposed level as shown above of using only -15% or 21.6% of what the Company realized for Mains and -70% or 39.9% for Services. These proposed NS levels are reasonable and reflect levels that are consistent with industry results as demonstrated on PMN-3 and PMN-4.
- Q. Since your recommended levels of COR are very conservative, when would additional data as suggested by Mr. Cunningham be more crucial to any proposed level of COR?
- A. Any COR proposal which would attempt to include levels of COR approaching 100% of calculated levels should be supported by as much data as possible. Our experience, along with industry data, have shown that the results calculated in this case are reasonable for the industry. More importantly, the levels proposed are but a fraction of the realized values.
- Q. Do you agree with Mr. Cunningham's characterization that removal costs and installation costs are essentially offsetting?
- 16 A. No, I do not. Mr. Cunningham assumes that the effort and process to retire an asset is 17 identical to the effort and process of installing an asset. That assumption is simply 18 incorrect and misleading. It is not appropriate to compare the labor cost to retire an

- asset to the current cost of installing the asset. The appropriate comparison is of the
- labor costs to retire an asset to the asset's original cost. That is the only relevant
- relationship that is appropriate in establishing reasonable COR levels of recovery.
- 4 Q. Do you have any additional comments with respect to Mr. Cunningham's
- 5 depreciation calculations as presented on his Schedule JJC-9?
- 6 A. Yes. Mr. Cunningham's calculations incorrectly included a reserve variance for a
- fully depreciated Account 376 (Laboratory Equipment), thereby further overstating
- 8 his results by \$157,480.

DEPRECIATION RESERVE VARIANCE

- 10 Q. Do you agree with Mr. Cunningham's depiction on page 19, beginning at line 1,
- of the depreciation study results showing that a surplus or excess has been
- 12 accumulated by the Company?
- 13 A. No, I do not. The calculation of the reserve variance is a result of considering two
- separate components. First, the Company's book depreciation reserve is one
- 15 component which includes all accounting factors (accruals, retirements, gross
- salvage, cost of removal, and adjustments). The second component required to derive
- the variance is the calculated theoretical reserve with net salvage which is the sum of
- the future depreciation accruals using the new proposed depreciation parameters
- 19 (average service lives, net salvage, and Iowa curves). The difference between these
- 20 two values is the reserve variance.
- 21 Q. Do you agree with Mr. Cunningham's recommendation with respect to a much
- 22 shorter period over which the surplus reserves should be amortized?

No I do not. On page 19 and 20 of his testimony, Mr. Cunningham recommends a much shorter period of 7 years for the amortization of the depreciation reserves which, for a surplus reserve of \$10,004,279, is equivalent to \$1,429,183 being returned to customers annually. Following this same premise, if the next depreciation study results in COR at 75% of the realized levels as listed in the table below, the reserve deficiency would be \$12,253,599. Utilizing Mr. Cunningham's 7 year amortization proposal in such a case would result in \$1,750,514 being charged to customers annually or a \$3,179,697 increase in depreciation rates from what Mr. Cunningham proposes in this case (see Table 2). It is quite evident that amortizing the surplus reserve over a shorter period of time as recommended by Mr. Cunningham would only lead to very large swings in rates. Mr. O'Shaughnessy addresses this point further in his rebuttal testimony.

A.

Table 2
Cost of Removal

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						Proposed
						to
	COR	COR	COR	New COR	New COR	Realized
	Existing	Proposed	Realized	50%	75%	Percent
Mains	-10%	-15%	-69.56%	-35%	-52%	21.60%
Services	-60%	-70%	- 175.42%	-88%	-132%	39.90%
Reserve						
Variance	(\$10,004,279)			(\$1,447,651)	\$12,253,599	
Amortization over plant life	(\$386,927)			(\$156,926)	\$261,002	
Amortized over 7yrs Revenue	(\$1,429,183)			(\$206,807)	\$1,750,514	
Requirement Impact					\$3,179,697	

1	Q.	Is there always a difference or variance between the booked and theoretical
2		reserve?
3	A.	There will, generally speaking, always be a difference between these two values.
4		Most of this difference can generally be attributable to changes over time in curves,
5		lives, and net salvage values.
6	Q.	How would this variance be most appropriately amortized going forward for
7		depreciation accrual purposes?
8	A.	The most appropriate method of amortizing these amounts is to consider the
9		remaining life associated with each account in order to properly match these
10		adjustments to the expenses to be borne by future customers.
11		AMORTIZATION OF RESERVE VARIANCE
12	Q.	Does Mr. Cunningham's proposal of amortizing this variance over seven years
13		appear to be reasonable?
14	A.	No, it does not. Since the vast majority of this variance is due primarily to a change
15		in parameters (average service life, Iowa curves and net salvage) which materially
16		impact the theoretical reserve results, amortizing these differences over a very short
17		period of time will only add instability to future accrual rate proposals and may, in
18		fact, reverse itself in the next study as more data becomes available.
19	Q.	You mentioned that Mr. Cunningham's proposed amortization of the calculated
20		\$10 million variance would potentially add instability to the Company's
21		proposed accrual rates and resulting expense. Could you please explain?
22	A.	The result producing this \$10 million variance is simply the difference between the

Company's booked depreciation reserve and the theoretical reserve with net salvage

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- using updated parameters. The sensitivity of this variance to the updated parameters is significant.
- Q. Could you please show this sensitivity of the reserve variance to the updated parameters you discussed earlier?
- 5 A. Expanding Table 1 above, I now include only a change in the COR from the filed proposed levels to new levels of approximately 50% and 75% of realized values (see PMN-5) as follows:

Table 3
Cost of Removal (Adjusted)

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A	Propos	ed	Calculated	New Pr (50%)	roposed	New Pt (75%)	roposed
Mains	-15	(21.6%)	-69.56	-35	(50.3%)	-52	(74.8%)
Services	-70	(39.9%)	-175.42	-88	(50.2%)	-132	(75.2%)

- 9 Q. Having adjusted only the COR component and not adjusted any average service 10 lives (ASL) or Iowa curves in your sensitivity analysis, please summarize your 11 results and show the change in reserve variance.
- 12 A. Schedules A-50% and A-75%, which are attached as PMN-6, provide the detailed 13 back-up, arriving at the following results:

Table 4

,	Reserve Variance	Reserve Variance	COR (NS	5)
			<u>Mains</u>	Services
Original Filing	- \$10,004,279	Over-recovery	-10	-60
Adjusted Filing (COR @ 50%)	- \$1,447,651	Over-recovery	-35	-88
Adjusted Filing (COR @ 75%)	+\$12,253,599	Under-recovery	-52	-132

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A.

As can be readily noted in the Reserve Variance shown from Table 4 above, leaving all other proposed Iowa curves and ASL unchanged, a change in NS recovery to a 50% and 75% level of the Company's realized levels results in a shift from over-recovery to under-recovery. An over-recovery of \$10 million in the initial filing results in an under-recovery of \$12.3 million at a 75% COR level. Based on experience and industry trends, future studies with additional NS data will undoubtedly support a much greater level of COR recovery than we have proposed and which will indicate an under-recovery condition.

Based on your results and a careful review of the data, do you have any additional comments with respect to your depreciation study and proposed accrual rates?

The depreciation study reviewed all aspects of the Company's available data and proposed a reasonable and very conservative level of accrual rates for each account which would achieve a fair, stable, and reasonable recovery of depreciation expenses until the Company's next depreciation study and rate filing. Presenting a very conservative approach to each relevant component of depreciation along with a well-recognized remaining life technique assures the Commission that the recommended

- accrual rates would emphasize stability and gradualism in minimizing unnecessary
- 2 fluctuation (instability) that may well occur if Mr. Cunningham's proposal is adopted.
- 3 Q. Mr. Normand, does this conclude your rebuttal testimony?
- 4 A. Yes.

Attachment PMN-3 National Grid NH DG 08-009

EEI/AGA DEPRECIATION STATISTICS GAS

Account	Avg. Service Life Range	Avg. Service Life Average	Accrual Rate Range	Accrual Rate Average	Net Salvage Rate Range	Net Salvage Rate Average
Mfg. Gas Production Plant						
305	7 -56	34	1.32 - 5.82	3.462	-50.0 to -5.0	-14.9
306	20 - 30	23	3.33 - 5.53	4.703	-5.0 to -5.0	-5.0
307	19 - 39	26	2.92 - 6.19	4.726	-5.0 to -5.0	-5.0
311	7 – 52	30	0.401 - 6.381	3.41	-30.0 to 13.0	-7.8
315	20 - 20	20	5.53 - 5.53	5.53	-5.0 to -5.0	-5.0
316	20 - 20	20	5.25 - 5.25	5.25	-5.0 to -5.0	-5.0
318	20 - 20	20	5.25 - 5.25	5.25	-5.0 to -5.0	-5.0
319	20 - 20	20	5.25 - 5.25	5.25	-5.0 to -5.0	-5.0
320	4 – 42	24	2.38 - 5.36	4.067	-5.0 to 6.4	0.6
Natural Gas Prod. & Gathering Plant						
325.20	56 – 56	56	1.17 - 1.17	1.169	-3.0 to 3.0	0
325.30	No Data	No Data	No Data	No Data	-3.0 to -3.0	-3.0
325.40	14 – 65	37	0.25 - 6.69	2.963	-15.8 to 3.0	-4.3
325.50	19 – 45	32	0.70 - 5.25	2.975	No Data	No Data
327	14 - 35	22	0.700 - 6.69	4.137	-9.4 to -0.2	-4.7
328	14 – 43	27	0.700 – 6.69	3.86	-0.2 to -0.2	-0.2
329	14 - 35	22	0.700 - 6.69	4.323	-3.0 to -0.2	-1.5
330	35 – 56	45	1.45 - 3.15	2.299	-3.0 to -3.0	-3.0
331	56 – 56	56	1.75 - 1.75	1.75	-3.0 to -3.0	-3.0
332	14 – 65	36	0.70 – 6.69	3.623	-3.0 to -0.2	-1.5
333	14 - 35	23	0.70 – 6.69	3.86	-0.2 to -0.2	-0.2
334	14 - 38	26	0.70 – 6.69	4.026	-3.0 to -0.2	-1.5
336	13 – 35	19	0.70 – 6.69	3.86	-3.0 to -0.2	-2.0
337	No Data	No Data	0.70 - 0.70	0.70	-3.0 to -3.0	-3.0
Prod. Extract Plant						
340	25 - 25	25	3.90 - 3.90	3.90	No Data	No Data
342	25 – 25	25	3.90 – 3.90	3.90	No Data	No Data

Attachment PMN-3 National Grid NH DG 08-009

EEI/AGA DEPRECIATION STATISTICS GAS

Account	Avg. Service Life Range	Avg. Service Life Average	Accrual Rate Range	Accrual Rate Average	Net Salvage Rate Range	Net Salvage Rate Average
Nat. Gas Storage Plant						
350.10	55 – 55	55	1.61 - 1.80	1.704	No Data	No Data
350.20	30 – 55	41	1.69 - 3.84	2.452	No Data	No Data
350.30	40 – 40	40	1.43 - 1.43	1.43	No Data	No Data
350.40	35 – 75	50	1.361 - 3.16	2.485	No Data	No Data
351	8 – 55	34	1.02 - 4.925	3.082	-50 to -1	-24.5
352	8 – 56	38	1.71 - 5.527	2.830	-20 to 24	-6.3
353	15 – 58	38	1.80 - 6.10	3.315	-90 to -1	-27.6
354	14 – 55	34	1.80 – 4.58	3.244	-35 to -1	-14
355	10 - 55	30	1.80 - 4.83	3.571	-55 to -1	-19.3
356	13 – 55	30	1.80 - 5.984	3.861	-30 to -1	-12.7
357	15 – 55	31	1.80 - 8.477	3.738	-45 to -1	-23
Other Storage Plant						
360	No Data	No Data	4.00 - 4.00	4.00	No Data	No Data
361	9 – 70	34	1.42 - 6.34	3.435	-25 to -5	-14.5
362	9 – 76	36	1.32 - 5.83	3.237	-25 to 5	-12.6
363	2 – 35	23	1.63 – 6.49	4.047	-25 to 10	-8.2
Transm. Plant						
365.10	32 – 90	69	1.134 - 1.65	1.332	-10 to -10	-10
365.20	24-100	59	1.00 - 4.73	2.205	-13 to -0.2	-5.9
365.30	No Data	No Data	3.30 - 3.30	3.30	No Data	No Data
366	10 – 100	44	1.00 - 6.66	3.006	-50 to 2.9	-17.3
367	10 – 100	53	1.00 - 4.73	2.558	-90 to -0.2	-25.8
368	15 – 100	38	1.00 - 7.33	3.683	-35 to 20	-6
369	11 – 76	32	1.00 - 6.807	3.457	-30 to -0.2	-12.3
370	11 – 60	24	1.65 – 10.00	5.457	-13 to 5	-2.8
371	13 – 100	46	1.00 - 5.37	3.108	-25 to 5	-8.7

Attachment PMN-3 National Grid NH DG 08-009

EEI/AGA DEPRECIATION STATISTICS GAS

Account	Avg. Service Life Range	Avg. Service Life Average	Accrual Rate Range	Accrual Rate Average	Net Salvage Rate Range	Net Salvage Rate Average
Distr. Plant						
374	45 – 100	69	1.00 - 2.84	1.737	No Data	No Data
375	7 – 66	43	0.71 - 5.01	2.731	-50 to 5	-13.3
376	26 – 80	55	0.042 - 7.56	2.782	-90 to 30	-35.6
377	9 – 35	27	2.575 – 6.11	3.498	-10 to -1	-6.2
378	11 – 55	33	1.54 – 6.807	3.665	-60 to 15	-19.6
379	20 – 53	32	0.347 – 7.509	3.729	-30 to 15	-11.1
380	24 – 63	40	1.182 - 12.02	4.641	-95 to -5	-53.3
381	5 – 60	9.3	0.010 - 6.807	3.131	-35 to 35	10.3
382	8 – 63	37	1.82 - 6.807	3.716	-95 to 1	-36.1
383	12 – 60	33	1.40 - 8.08	3.348	-32 to 40	1.6
384	8 – 55	36	1.92 - 7.83	3.406	-85 to -5	-32
385	8 – 50	30	1.91 – 16.85	4.384	-30 to 30	-1.5
386	3 – 52	18	1.283 - 20.0	9.065	3 to 45	14.8
387	5 – 39	18	1.04 - 20.0	7.501	-50 to 2	-22.0
General Plant		,				
389	30 – 44	36	0.95 - 5.14	3.356	No Data	No Data
390	1 – 76	35	1.30 - 5.69	2.986	-20 to 25	-2.1
391	3 – 50	14	1.286 – 24.04	8.825	0.5 to 20	6.5
392	3 – 25	9	0.080 - 26.5	9.605	1.5 to 30	14.5
393	8 – 50	28	0.192 – 7.49	3.673	0.5 to 25	10.3
394	1 – 45	23	0.407 – 10.96	4.785	-5 to 25	7.2
395	5 – 52	25	0.422 - 10.02	4.546	0.5 to 20	7.5
396	2 - 20	12	2.13 – 15.28	7.466	5 to 34	15.9
397	5 – 35	16	0.908 – 15.070	6.156	-10 to 10	0.9
398	1 – 40	21	0.417 – 9.24	4.60	-10 to 20	6.0
399	24 – 40	31	1.99 – 1.99	1.99	20 to 20	20

TABLE 10.1

Pacific Gas and Electric Company Test Year 2007 General Rate Case

Test Year 2007 General Rate Case SUMMARY OF ESTIMATED SURVIVOR CURVES AND NET SALVAGE PERCENTS

FERC Asset Class Acc. Indication Indication Life ADOPTED RECOMMENDED STATISTICAL INDICATION RANGE ESTIMATE RECOMMENDED ETP35201 352 Structures & Improvements 60-R3 40-60 R2,R3,R4 50-S6 60-R3 40-60 R2,R3,R4 50-S6 60-R3 40-S1.5 C30)+(40) RANGE ESTIMATE ESTIMATE ETP35202 352 Structures & Improvements/Figuip None 40-S3 40-S1.5 60-R3 40-S1 40-S3 40-S1.5 (5)-(22) C30) C30) ETP35202 352 Structures & Improvements/Figuip None 40-S3 40-S1.5 60-R3 40-S1.5 (5)-(22) C30) C30) ETP35202 352 Structures & Improvements/Figuip None 70-S4 70-S4 70-S4 60-R3 60-R3 60-R3 60-R3 60-R3 60-R3 80-R3 R3-R4-R5 80-R3 80-R3 80-R3 10-(60)-100 10-(60)-100 10-(60)-100 10-(60)-100 10-(60)-100						SURVIVOR CURVE	URVE			NET SAL	NET SALVAGE PERCENT	
lighton LIFE CURVE ESTIMATE EST				STATISTICAL	INDUST	RANGE	ADOPTED		STATISTICAL	INDUSTRY	ADOPTED	RECOMMENDED
timple of times & improvements find to time and times and times are times are times as the time as a find to time as a find time		FERC										
tures & Improvements 60-R3 40-60 R2,R3,R4 50-S6 60-R3 (5)-(22) 0-(30) (10) sures & Improvements/Equip None - 50-S6 60-R3 None - (5) n Equipment 52-R1.5 35-50 R1,R2 40-S3 40-S1.5 (25)-(45) 5-(20) 0 rs & Fixtures 71-S4 50-70 R3,R4,R5 70-S4 70-S4 (40)-)60) (10)-(60) (40) a. Fixtures 46-R2.5 30-50 R1,R2,R3 42-R3 46-R2.5 (55)-(140) (20)-(75) (50) conductor/Devices - Twr/Pl Ln 55-S6 R3-R3,R5 60-R5 60-R5 (50)-(140) 10-(60) 10-(60) s & Trails 50-80 35-S6 R3-R3,S3 50-R3 50-R3 (5)-(15) 0 0 s & Trails 60-70 50-75 SQ-R3 60-R5 (5)-(35) 0 0	Asset Class		Description	INDICATION	LIFE	CURVE	ESTIMATE	ESTIMATE	INDICATION	RANGE	ESTIMATE	ESTIMATE
tures & Improvements 60-R3 40-60 R2.R3.R4 50-S6 60-R3 (5)-(22) 0-(30) (10) tures & Improvements/Equip None - 50-S6 60-R3 None - (5) n Equipment S2-R1 5 35-S0 R 1,R2 40-S3 40-S1.5 (25)-(45) 5-(20) 0 rs & Fintures 71-S4 50-70 R 37-R4,R5 70-S4 70-S4 (40)-J60) (10)-(60) (40) r & Fintures 46-R2.5 30-50 R 1,R2,R3 42-R3 46-R2.5 (85)-(140) (20)-(75) (50) r & Fintures 55-S6 80-R3 55-S6 (50)-(140) (10)-(60) (31) r & Fintures 55-S6 R3-R5,S6 60-R5 60-R5 60-R5 60-R5 60-R5 r & Fintures 55-S6 R3-R4,S3 50-R3 50-R3 (5)-(15) 10-(20) 0 r & Fintures 55-S6 R3-R4,S3 50-R3 50-R3 50-R3 (5)-(15) 10-(20)	ELECTRIC TRANS	NOISSIM	PLANT									
352 Structures & Improvements 60-R3 40-60 R2.R3.R4 50-S6 60-R3 (5)-(22) 0-(30) (10) 352 Structures & Improvements/Fquip None * * * * * (5)-S6 *												
352 Structures & Improvements/Fquip None 6-6-R3 None (5) 353 Station Equipment 52-R1.5 35-60 R1,R2 40-S3 40-S1.5 (5)-(45) 5-(20) 0 354 Towers & Fixtures 71-S4 50-70 R3,R4R5 70-54 70-54 (40)-)60) (10)-(60) 0 355 Poles & Fixtures 46-R2.5 30-50 R1,R2,R3 42-R3 46-R2.5 (35)-(140) (20)-(75) (50) 356 OH Conductor/Devices - Twr/PI Ln 70-R4 45-55 R2-R5 60-R5 60-R5 0-(100) 10-(60) 10-(60) 357 UG Conductor/Devices 56-60 35-50 R3-R3,R3,S 60-R5 60-R5 (5)-(15) 0 0 358 UG Conductor/Devices 56-80 35-50 R3-R3,S3 50-R3 50-R3 (5)-(15) 10-(20) 0 359 Roads & Traills 60-70 50-75 SQ-R3,R5 60-R5 60-R5 60-R5 60-R5 60-R5	ETP35201	352		60-R3	40-60	R2,R3,R4	50.56	60-R3	(5)-(22)	0-(30)	(10)	(20)
353 Station Equipment 52-R15 35-60 R1,R2 40-S1 40-S1.5 (25)-(45) 5-(20) 0 354 Towers & Fixtures 71-S4 50-70 R3,R4,R5 70-S4 (40)-,60) (10)-(60) (40) 355 Poles & Fixtures 46-R2.5 30-50 R1,R2,R3 42-R3 46-R2.5 (85)-(140) (20)-(75) (50) 356 OH Conductor/Devices - Twr/PI Ln 70-R4 45-55 R2-R5 55-56 (50)-(140) 10-(60) (31) 357 UG Conductor/Devices 50-80 35-50 R3-R4,S3 50-R3 50-R3 (5)-(15) 10-(20) 0 359 Roads & Traill's 60-70 50-75 SQ-R3,R5 60-R5 (5)-(35) 0 0	ETP35202	352		None	100	٠	50-S6	60-R3	None	. '	(5)	(20)
354 Towers & Fixtures 71-S4 50-70 R3.R4.R5 70-S4 70-S4 (40)-160) (10)-(60) (40) 355 Poles & Fixtures 46-R2.5 30-50 R1,R2,R3 42-R3 46-R2.5 (85)-(140) (20)-(75) (50) 356 OH Conductor/Devices - Twr/Pl Ln 55-S6 R2-R5 55-S6 (50)-(140) 10-(60) (31) 357 UG Conductor/Devices 45-S6 R3-R5,S6 60-R5 0-(100) 10-(20) 0 358 UG Conductor/Devices 50-80 50-R3 50-R3 50-R3 15-(35) 0 359 Roads & Traills 60-70 50-75 SQ-R3,R5 60-R5 (5)-(35) 0 0	ETP35301	353		52-R1.5	35-50	R1,R2	40-53	40-S1.5	(25)-(45)	5-(20)	0	(30)
355 Poles & Fixtures 46-R2.5 30-50 R1,R2,R3 42-R3 46-R2.5 (85)-(140) (20)-(75) (50) 356 OH Conductor/Devices - Twr/PL Ln 55-S6 35-55 R2-R5 52-S6 (50)-(140) 10-(60) (31) 357 UG Conductor/Devices 70-R4 45-65 R3-R5,S6 60-R5 60-R5 0-(100) 10-(20) 0 358 UG Conductor/Devices 50-60 35-50 R3,R4,S3 50-R3 50-R3 (5)-(15) 0 0 359 Roads & Trailis 60-70 50-75 SQ,R3,R5 60-R5 60-R5 (5)-(35) 0 0	ETP35400	354	Towers & Fixtures	71-S4	90-70	R3,R4,R5	70-S4	70.54	(40)-)60)	(10)-(60)	(40)	(20)
356 OH Conductor/Devices - Twr/PI Ln 55-S6 35-S6 55-S6 55-S6 55-S6 (50)-(140) 10-(60) (31) 357 UG Conduct 70-R4 45-65 R3-R5,S6 60-R5 60-R5 0-(100) 10-(20) 0 358 UG Conductor/Devices 50-60 35-50 R3,R4,S3 50-R3 50-R3 (5)-(15) 19-(30) 0 359 Roads & Trailis 60-70 50-75 SQ,R3,R5 60-R5 60-R5 (5)-(35) 0 0	ETP35500	355	Poles & Fixtures	46-R2.5	30-50	R1,R2,R3	42-R3	46-R2 5	(85)-(140)	(20)-(75)	(20)	(80)
357 UG Conduit 70-R4 45-65 R3-R5,S6 60-R5 60-R5 0-(100) 10-(20) 0 358 UG Conductor/Devices 50-60 35-50 R3,R4,S3 50-R3 50-R3 (5)-(15) 19-(30) 0 359 Roads & Trailis 60-70 50-75 SQ.R3,R5 60-R5 60-R5 (5)-(35) 0 0	ETP35600	356	OH Conductor/Devices - Twr/PI Ln	92-29	35-55	R2-R5	52.56	55-S6	(50)-(140)	10-(60)	(31)	(09)
358 UG Conductor/Devices 50-60 35-50 R3,R4,S3 50-R3 50-R3 (5)-(15) 359 Roads & Trai8is 60-70 50-75 SQ.R3,R5 60-R5 60-R5 (5)-(35)	ETP35700	357	UG Conduit	70-R4	45-65	R3-R5,S6	60-R5	60-R5	0-(100)	10-(20)	0	0
359 Roads & Trailis 60-70 50-75 SQ.R3.R5 60-R5 60-R5 (5)-(35)	ETP35800	358	UG Conductor/Devices	90-09	35-50	R3,R4,S3	50-R3	50-R3	(5)-(15)	19-(30)	0	0
	ETP35900	359	Roads & Traigls	60-70	50-75	SQ.R3.R5	60-R5	60·R5	(5)-(32)	0	0	0

TABLE 10

Pacific Gas and Electric Company Test Year 2007 General Rate Case

Test Year 2007 General Rate Case
SUMMARY OF ESTIMATED SURVIVOR CURVES AND NET SALVAGE PERCENTS

	FERC		SHAIRE	COOK	TANGE IN THE PARTY	ADDIVIED	RECOMMENDED	STATISTICAL	INDUSTRY	ISTRY ADDRITED	DECOMMENDED
Asset Class	Acci	Description	INDICATION	LIFE	CURVE	ESTIMATE	FSTBANTE				
ELECTRIC DISTRIBUTION PLANT	UTION P.	LANT					71000	INDICATION	KANGE	ESTIMATE	ESTIMATE
EDP36101	361	Structures & Improvements	54.15	Ç.	ć	:					
EDP36102	361	Structures & Improvements - Equip		9-0-	73 K	55-1.5	52-15	(20)-(100)	(5)-(30)	(10)	(20)
EDP36200	362	Station Equipment	43 D4	1		97-60	55.1.5			. 0	(2)
EDP36300	363	Storage Battery	2.27	00-00	KZ K1,L0	39-R2	41-S1	8-(20)	10-(25)	C	(02)
EDP36400	364	Poles, Towars & Frances	0		,	10	10				3
EDP36500	365	OH Coodistore & Description	20.00	00-00	R1,01,10	40-L0 5	40-R1	(50)-(80)	(20)-(110)	(36)	5
EDP36600	399	Hodernound Contact	38-K1	30-50	R1,S1,L0	38-R1	40-R1 5	(40)-(100)	10450)	(69)	(8)
EDP367m	757		28-L3	40-70	R2 R3 L3	58-13	58-13	(40)-(130)	0.40	(0)	(301)
FDP36801	36.0	Us conductors & Devices	31-R5	25-45	R2,R3,S2	31-R5	36-R4	(10)-(50)	30 (30)	0.0	(20)
ED025803	5 6	Line Iransformers-Overhead	31-51	25-40	RD 5,S1 L0	31-51	31-82 5	(00)-(01)	(05)02	(19)	(40)
Engagons	ğ ş	Line Transformers-Underground	24·R5	25-40	R05,S1,L0	34.51	21,51.5		61-(62)	40	(10)
FDF36901	69	Services-Overhead	45-R2	30-45	R1-R3	45-R2	48-10-5	7	(25)-15	0	0
EDP-30302	369	Services-Underground	32-S6	30-45	R1.R3	43-R4	C 2N-01	(20)-(06)	(2)-(20)	(90)	(100)
EDP3/000	370	Meters	32-R0 5	25-40	R2 R3 S2	27.B2	3000	(20) (32)	(2)-(60)	(40)	(09)
EDP3/100	3/1	Installation on Customer Premises	61-13	10-40	101101	2,5,5	S 1000	0 0	10-(20)	O	(5)
EDP3/200	372	Leased Property on Cust Prem		15-40	R1.B3	20 4	0.00	0.(500)	10-(40)	0	0
EDP37301	373	Street Light-Overhead Conductors	28-R0 5	15.30	low Morte	28.00.6	18:31	06:09	30-(15)	7.5	0
EDP37302	373	Street Light-Conduit & Cables	24.56	15.30	1 Dw Morte	201-02	30-KU 5	(15)-(30)	15-(50)	(38)	(06)
EDP37303	373	Street Light-Lamps & Equipment	20·L0	15-30	Low Mode	20.02	30-12	15-(15)	15-(50)	(10)	(10)
EDP3/304	373	Street Light-Electrollers	19-56	15-30	low Mode	19.56	07-27	• }	15(50)	(10)	Q
GAS DISTRIBUTION PLANT	PLANT						20.03	0	15-(50)	0	(01)
GDP37500	375	Structures & Improvements	09	35-60	D1.04 C0	9					
GDP37601	376	Mains	41.56	40.70	00130	73-67	49.82	(20)-(60)	(5)-(30)	(50)	(20)
GDP37700	377	Compressor Station Equipment	£ 5.	36.34	N 3,12-3	54-83	52-S3	(50)-(100)	(5)-(100)	(45)	(3)
GDP37800	378	Odonzing/Meas & Reg Sta Fournment	23 - 25	2 4		74-K15	29-R1 5	0-(20)	(5)-(10)	(10)	(10)
GDP38000	380	Services	53.13	20.00	107.62	37-R2 5	40-R2 5	(50) (100)	10-(50)	(55)	(52)
GDP38100	381	Meters		20.00	K.S.LO-1	50-13	50.R4	(85)-(170)	(10)-(200)	(85)	(100)
GDP38300	383	House Recidators		00-02	R.S.LZ-3	24-R15	24 R15	0-4	35-(20)		
GDP38500		Meas & Reo Sta Forms Industrial	<u> </u>	50-50	*	23-R1 5	24-R15	0	25-(30)) C	· -
GDP38600		Other Property on Customer Description	34-142	25.40	3	34-R2	40-R2	æ	20420)	(15)	(31)
GDP38700		Other Followers		10-35	\$2	35 R2	35-R2		0.25) c	2
			6/ 51	10-35	,	28.50	28-S0	0	0-(50)) C	o v
COMMON PLANT										,	'n
CMP39000	390	Structures and Improvements	43.03.6	0	6						
CMP39202	392 02	Transo Foun-Passangar Vahistor	2	20-30	K2,K3	38-R3	43-R15	0-(10)	5-(20)	(61)	(10)
CMP39203		Transo Court Land Town Town	-	2-7	Low Mode	6-S2	7-R3	8-12	5.25	24	10)
		Transp Equip-Light Track-112 Ion	7-10	5,10	Low Mode	80	9.52.5	8-12	5.25	1 (2 9
		Transp Equip-Light Truck-1/2 Lon	7-10	5.10	Low Mode	01	05.825	51-8	3.05	2,6	2 ;
		rightsp Equip-meavy 1/u*k-1 & 2 lon	10:14	8.12	Mid Mode	5.1	±1-1-3	5.13	200		2
		Iransp Equip-Heavy Truck-1 & 2 Ton	10.14	8-12	Mode Mode	11	11.52.6	21.0	07.0	1/	10
		Transp Equip Heavy Truck-3 & 5 Ton	10.14	8.12	Mid Mode		200	21.8	7-25	4	10
		Transp Equip - Vessels Barge/Boat	11-15	10-15	Hoh Made	13.61	20.00	8-12	5.75	74	10
	on.	Transp Equip - Trailer	14.20	14.20	Our Ednote	40 5	60.0	8-12	5-25	0	01
CMP39600	396	Dough Operation Formania)	200	ADOM WOT	4.04	17-12	0.00	70 1	c	
			0 7 7 2	000					0.7-0	0	10

ENERGYNORTH NATURAL GAS, INC. D/B/A NATIONAL GRID NH DG 08-009

National Grid NH's Responses to Staff Set 2

Date Request Received: June 13, 2008

Request No. Staff 2-70

Date of Response: July 11, 2008

Witness: Paul Normand

REQUEST:

Testimony, page 12, line 14. The new study indicates that the proposed estimates for net salvage are very conservative representatives of *actual experience* (emphasis added)..." Please provide the documentation that supports the "actual experience" for Account 1356-Mains, Account 1359-Services and Account 1372.1-Office Equipment.

RESPONSE:

Attached are copies of three pages of workpapers regarding EnergyNorth's cost of removal and gross salvage history. Such history was available only for the period 2000 to 2006 for the total company. By plant account, such history was available only for the mains and services accounts for the years 2000 to 2002 and 2004 to 2006. The third page is the "CALCULATION OF COR RATES," the cost of removal component for those accounts for which negative net salvage was estimated, i.e., cost of removal (COR) exceeds gross salvage.

The two pages of history clearly show the estimates to be very conservative, e.g., the mains account history shows 69.56 negative net salvage versus the 15% estimated. The estimate for services is (70)% net salvage versus the realized (175.42)%.

At the total company level, the estimates composite to (35.5)% net salvage versus the 2000 to 2006 realized value of (47.41)%.

Note also that the total company net salvage is becoming more negative as time passes, i.e., 2003 is (86.13)% and 2006 is (190.29)% versus the 2000 value of (23.68)%. This has been a common occurrence with recent studies undertaken by MAC with other utilities.

Attachment PMN-5 National Grid NH DG 08-009 Page 2 of 4

COR/Salv	by acct
EnergyN	orth

	į	MAINS		EnergyNorth			5 VCS		
								**	
Year	Ret.	COR	% COR		Year	Ret.	COR	% COR	
2000	8,964	76, 5 55	854.03		2000	102,827	98,008	95.31	
2001	47,296	518,865	1097.06		2001	106,200	528,971	498.09	
2002	318,107	512,188	161.01		2002	328,166	203,631	62.05	
2003	300,754				2003	692,250			
2004	971,856	287,615	29.59		2004	1,280,082	346,638	27.08	
2005	643,547	256,235	39.82		2005	125,627	453,775	361.21	
2006	428,303	30,506	7.12		2006	74,482	1,907,962	2561.64	
	2,718,827	1,681,964	61.86			2,709,634	3,538,985	130.61	
excl 2003	2,418,073	1,681,964	69.56			2,017,384	3,538,985	175.42	

(Stuce 8e)

10%

60%

Even the meamplete, the 2000-2000 experience certainly shows COR to be much higher than existing estimates.

Reune Cornedoralela

15 %.

70./

NO SALV.

History also shows cor on Meter Install. (2005) 2006), but who ref. Probably due to fact Meters & Install, were all one acct that most of history.

	136231 80850 7525 224606
	Current \$ Estimated Net Salvage 2006 Bal20,435 136 -56,595 80 -376,653 224 -77,030 217,
	Current % Estimated Net Salvage 1-15.0 -70.0 5.0 7,34.1
	Account 1356 1359 1372.1
	Current Estimated Vet Salvage 0 -85,465.2 -84,977.1
	% et Salvage N 0 -35.5 5.0 -32.3
Vet Salv. % -23.68 -23.00 -37.90 -86.13 -13.51 -104.03 -47.41	Plant Current Balance \$k % Estimated @EOY 2006 Net Salvage Net Salvage 8,993.6 0 240,747.1 -35.5 -85,465.2 9,763.4 5.0 488.2 262,797.3 -32.3 -84,977.
COR Net Salv. \$ Net Salv. % 218,654 -184,563 -23.68 684,382 -23.00 656,634 -37.90 978,720 -978,720 -96.13 659,332 -1,532,867 -1,632,	•
COR 1218,654 684,382 656,634 978,720 659,332 1,532,867 1,938,468 1,938,468 1,938,468	% et Salvage 0 -23.9 1.9
Salvage 34 091 0 0 0 0 34.091	Estimated % Vet Salvage Net Salvage 0 0 0 -16,069.7 -23.9 38.4 1.9
Rets. 779,392 2,976,214 1,732,404 1,136,332 4,878,799 1,473,422 1,018,675	Plant Balance Sk @EOY 1988 r 1,940.2 5,345.4 67,215.7 2,073.8 76,575.1
2000 2001 2003 2003 2004 2005	Per S&W Rpt (Structures Prod. Equipment T& D Equipment General Plant

ENERGY NORTH NATURAL GAS CORPORATION CALCULATION OF COR RATES

- A. Proposed COR = x%
- B. W.L. Rate w/o COR= 100/ASL
- C. W.L. Rate w/ COR = w.l. Rate * COR
- D. COR Rate = W.L. Rate w/COR W.L. Rate w/o COR Note: W.L. Rate = Whole Life Rate

STRUCTURES

ALL ACCOUNTS HAVE NO SALVAGE OR COST OF REMOVAL

PRODUCTION EQUIPMENT

1330 HAS NO SALVAGE OR COST OF REMOVAL

DISTRIBUTION EQUIPMENT

1356.00 ASL=	60 N.S.=	-15
A. Proposed COR B. W.L. Rate w/o COR C. W.L. Rate w/ COR D. COR Rate =	15 1.67 1.92 0.25	
1358.00 ASL=	30 N.S.=	0
A. Proposed COR B. W.L. Rate w/o COR C. W.L. Rate w/ COR D. COR Rate =	3.33 3.33 0.00	
1359.00 ASL=	40 N.S.=	-70
A. Proposed COR B. W.L. Rate w/o COR C. W.L. Rate w/ COR D. COR Rate =	70 2.50 4.25 1.75	
B. W.L. Rate w/o COR C. W.L. Rate w/ COR	2.50 4.25	0

GENERAL EQUIPMENT

ALL ACCOUNTS HAVE NO SALVAGE OR COST OF REMOVAL

12/15/2008

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ENERGY NORTH NATURAL GAS INC. D/B/A NATIONAL GRID NH

SCHEDULE A-50%-REBUTTAL

SCHEDULE OF DEPRECIATION ACCRUAL RATES @12/31/06

WHOLE LIFE SCHEDULE WITH AMORTIZATION OF RESERVE VARIANCE

ACCOUNT NUMBER	DESCRIPTION	PLANT BALANCE @12/31/06	DISP	ASL	ACCRUAL RATE W/O NET SALV	ACCRUAL WITHOUT NET SALV	NET SALV.	SALV. FACTOR	ACCRUAL RATE W/ NET SALV	ACCRUAL WITH NET SALV.	THEO. RSV WITHOUT NET SALV.	THEO. RSV. WITH NET SALV.	ALLOC. BOOK RSV. @12/31/06	RESERVE VARIANCE	ARL	AMORT OF RESERVE VARIANCE	ACCRUAL A WITH AMORT	ACCRUAL RATE W/ AMORT	COR
STRUCTURES	SI	(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1308.1 PRODUCTIO 1308.6 DISTRIBUTIC 1308.7 GENERAL AN TOTAL DEPR	1308.1 PRODUCTION PLANT STRUCTURES 1308.6 DISTRIBUTION SYSTEM STRUCTURES 1308.7 GENERAL AND MISCELLANEOUS STRUCTURES <u>TOTAL DEPREC. STRUCTURES</u>	1,195,433 544,322 1,553,420 3,293,175	R R R 0.1. 0.0.	30.0 30.0 30.0	8 8 8 8 8 8 8 8 8 8 8 8	39,808 18,126 <u>51,729</u> 109,663	000	8 6 6	65 63 65 63 65 63 65 65 65 65 65 65 65 65 65 65 65 65 65 65 65 65 6	39,808 18,126 <u>51,729</u> 109,663	570,236 232,677 <u>667,464</u> 1,470,377	570,236 232,677 <u>667,464</u> 1,470,377	998,174 330,557 <u>1,328,897</u> 2,657,628	-427,938 -97,880 -661,433 -1,187,251	15.7 17.2 17.1	-27,257 -5,691 -38,680 -71,628	12,551 12,435 13,049 38,035	1.05 2.28 0.84 1.15	%00 0 %00 0
PRODUCTIO 1330 OTHER PROI	PRODUCTION EQUIPMENT 1330 OTHER PRODUCTION EQUIPMENT	8,993,569	R 1.0	30.0	3,33	299,486	0	1.00	3,33	299,486	4,280,025	4,280,025	7,729,462	-3,449,437	15.7	-219,709	777,67	0.89	%00 [†] 0
DISTRIBUTIO	RIBUTION EQUIPMENT																		
1356 MAINS 1358 PUMPING AN 1359 SERVICES 1360 CUSTOMERS TOTAL DEPR	1356 MAINS 1358 PUMPING AND REGULATING EQUIPMENT 1359 SERVICES 1360 CUSTOMERS' METERS AND INSTALLATIONS TOTAL DEPREC. DISTRIBUTION EQUIPMENT	136,231,396 2,473,039 80,850,399 21,192,242 240,747,076	R 8 7.0 R 4.0 2.5	60.0 30.0 40.0 35.0 48.3	1.67 3.33 2.50 2.86 2.07	2,275,064 82,352 2,021,260 <u>606,098</u> 4,984,775	-35 -0 -0 -0	1.35 1.00 1.00 1.00	2,25 3,33 4,70 2,86 3,14	3,065,206 82,352 3,799,969 <u>606,098</u> 7,553,625	22,625,286 519,452 22,397,617 <u>5,168,818</u> 50,711,173	30,544,136 519,452 42,107,520 <u>5,168,818</u> 78,339,926	38,926,629 643,785 22,789,274 10,698,386 73,058,074	-8,382,493 -124,333 19,318,246 <u>-5,529,568</u> 5,281,852	50.0 23.7 28.9 26.5	-167,650 -5,246 668,451 -208,663 286,892	2,897,556 77,106 4,468,420 <u>397,435</u> 7,840,517	2,13 3,12 5,53 1,88 3,26	0,58% 0,00% 2,20% 0,00%
GENERAL EQUIPMENT	QUIPMENT																		
1372.1 OFFICE EQUIPMENT 1374 STORES EQUIPMENT 1378 I ARORATORY FOLIIPMENT	JIPMENT UIPMENT XY FQI JIPMENT	7,524,999 43.120 368.637	S 4.0 SQ 5.0	30.0 30.0 16.0	5.56 3.33 6.25	418,390 1,436 23,040	w 0 С	1.00	5,28 3,33 6,25	397,320 1,436 23.040	1,632,803 10,135 211,157	1,551,163 10,135 211,157	3,348,598 36,851 368,637	-1,797,435 -26,716	14.1 22.9 FULLY D	-127,478 269 -1,167 DEPRECIATED	269,842 269 TED	3.59	0,00% 0,00%
1377 GENERAL TO 1378 COMMUNICA 1379 MISCELLANE TOTAL DEPR	1377 GENERAL TOOLS AND IMPLEMENTS 1378 COMMUNICATION EQUIPMENT 1379 MISCELLANEOUS GENERAL EQUIPMENT TOTAL DEPREC, GENERAL EQUIPMENT	767,601 364,639 107,380 9,176,356	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19.0 15.0 17.8	5.26 6.67 6.67 5.61	24,321 24,321 7,161 514,724	0000	8 8 8 8	5.26 6.67 6.67 5.38	24,321 7,161 7,161 493,654	262,437 81,319 45,922 2,243,773	262,437 81,319 45,922 2,162,133	390,288 171,101 <u>96,953</u> 4,412,428	-127,851 -89,782 -51,031 -2,092,815		-10,228 -7,674 -5,934 -152,481	30,148 16,647 1,227 318,133	3.93 4.57 1.14 3.47	%00.0 %00.0
TOTAL DEPR	TOTAL DEPREC. GAS PLANT	262,210,176		44.4	2.25	5,908,647			3,23	8,456,428	58,705,348	86,252,461	87,857,592	-1,447,651		-156,926	8,276,462	3,16	
LAND OPI STRUCTURES RETAINED 1373 TRANSPORTATION EQUIPMEN 1395 UNFINISHED CONSTRUCTION 1080K ARO 113K 1220K 1081K 1108R 1010AR	LAND OPI STRUCTURES RETAINED OPI STRANSPORTATION EQUIPMENT 1395 UNFINISHED CONSTRUCTION 080K ARO 113K 081K 10AR 10AR	608,402 0 587,017 9,472,009											105,109 698,424 -684,277 -2,511,368 -105,109 117,481 469,391 85,937,243						

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SCHEDULE A-75%-REBUTTAL

SCHEDULE OF DEPRECIATION ACCRUAL RATES @12/31/06

ENERGY NORTH NATURAL GAS INC. D/B/A NATIONAL GRID NH

WHOLE LIFE SCHEDULE WITH AMORTIZATION OF RESERVE VARIANCE

ACCOUNT NUMBER	DESCRIPTION	PLANT BALANCE @12/31/06	DISP	ASL	ACCRUAL RATE W/O NET SALV	ACCRUAL WITHOUT NET SALV	SALV.	SALV	ACCRUAL RATE W/ NET SALV.	ACCRUAL WITH NET SALV.	THEO. RSV. WITHOUT NET SALV.	THEO. RSV. WITH NET SALV.	ALLOC. BOOK RSV. @12/31/06	RESERVE VARIANCE	ARL	AMORT, OF RESERVE VARIANCE	ACCRUAL WITH AMORT	ACCRUAL RATE W/ AMORT.	COR
STRUCTURES	<u> </u>	(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1308.1 PRODUCTIC 1308.6 DISTRIBUTIC 1308.7 GENERAL AI TOTAL DEPF	1308.1 PRODUCTION PLANT STRUCTURES 1308.6 DISTRIBUTION SYSTEM STRUCTURES 1308.7 GENERAL AND MISCELLANEOUS STRUCTURES <u>TOTAL DEPREC. STRUCTURES</u>	1,195,433 544,322 1,553,420 3,293,175	A A A 0.1 O.1 O.1	30°0 30°0 30°0 30°0	3 33 3 33 3 33	39,808 18,126 <u>51,729</u> 109,663	000	0.1.00	3,33 3,33 3,33 3,33	39,808 18,126 <u>51,729</u> 109,663	570,236 232,677 <u>667,464</u> 1,470,377	570,236 232,677 <u>667,464</u> 1,470,377	998,174 330,557 <u>1,328,897</u> 2,657,628	-427,938 -97,880 -661,433 -1,187,251	15.7 17.2 17.1	-27,257 -5,691 -38,680 -71,628	12,551 12,435 13,049 38,035	1.05 2.28 0.84 1,15	%00'0 %00'0
PRODUCTIC 1330 OTHER PRO	PRODUCTION EQUIPMENT 1330 OTHER PRODUCTION EQUIPMENT	8,993,569	R 1.0	30.0	3.33	299,486	0	1.00	3,33	299,486	4,280,025	4,280,025	7,729,462	-3,449,437	15.7	-219,709	777,67	0.89	%00'0
DISTRIBUTIC 1356 MAINS 1359 PUMPING AN 1359 SERVICES 1360 CUSTOMER TOTAL DEPR	DISTRIBUTION EQUIPMENT 1356 MAINS 1358 PUMPING AND REGULATING EQUIPMENT 1359 SERVICES 1360 CUSTOMERS METERS AND INSTALLATIONS 101AL DEPREC. DISTRIBUTION EQUIPMENT	136,231,396 2,473,039 80,860,399 21,192,242 240,747,076	R R R 0.0 0.0 0.0 6.0 6.0	60,0 30,0 40,0 35,0 48,3	1.67 3.33 2.50 2.86 2.07	2,275,064 82,352 2,021,260 6,065,098 4,984,775	-62 0 0 0	1.52 1.00 2.32 1.00	2.54 3.33 5.80 3.67	3,460,277 82,352 4,669,323 606,098 8,838,051	22,625,286 519,452 22,397,617 5,168,818 50,711,173	34,390,435 519,452 51,962,471 5,186,818 92,041,178	38,926,629 643,785 22,789,274 10,698,386 73,058,074	-4,536,194 -124,333 29,173,102 -5,529,568 18,983,102	50.0 23.7 28.9 26.5	-90,724 -5,246 1,009,453 <u>-208,663</u> 704,820	3,369,553 77,106 5,698,776 397,435 9,542,871	2,47 3,12 7,05 1,88 3,96	0,87% 0,00% 3,30% 0,00%
GENERAL EQUIPMENT 1372.1 OFFICE EQUIPMENT 1374 STORES EQUIPMENT	<u>Quipment</u> JIPMENT UIPMENT	7,524,999	S 4.0	18.0 30.0	5.56 3.33	418,390 1,436	ю O	0.95	5,28 3,33	397,320 1,436	1,632,803	1,551,163	3,348,598 36,851	-1,797,435	14.1	.127,478	269,842	3.59	%00°0 %00°0
1376 LABORATORY EQUIPMENT 1377 GENERAL TOOLS AND IMPI 1378 COMMUNICATION EQUIPMI 1379 MISCELLANEOUS GENERA TOTAL DEPREC, GENERAL	1376 LABORATORY EQUIPMENT 1377 GENERAL TOOLS AND IMPLEMENTS 1478 COMMUNICATION EQUIPMENT 1379 MISCELLANEOUS GENERAL EQUIPMENT TOTAL DEPREC. GENERAL EQUIPMENT	368,637 767,601 364,639 107,360 9,176,356	S 5.0 8.0 9.0 5.0	16.0 19.0 15.0 17.8	6.25 5.26 6.67 6.67 5.61	23,040 40,376 24,321 7,161 514,724	0000	0.7.7.00.00	6.25 5.26 6.67 6.67 5.38	23,040 40,376 24,321 7,161 493,654	211,157 262,437 81,319 45,922 2,243,773	211,157 262,437 81,319 45,922 2,162,133	368,637 390,288 171,101 <u>96,953</u> 4,412,428	-127,851 -89,782 -51.031	FULLY 12.5 11.7 8.6	DEPRECIATED -10,228 30 -7,674 16 -5,934 1 -152,481 318	ATED 30,148 16,647 1,227 318,133	3.93 4.57 1.14 3.47	%00'0 %00'0
TOTAL DEP!	TOTAL DEPREC. GAS PLANT	262,210,176		44.4	2.25	5,908,647			3.71	9,740,853	58,705,348	99,953,711	87,857,592	12,253,599		261,002	9,978,815	3,81	
LAND OPI STRUCTURES RETAINED OPI STRANSPORTATION EQUIPMEN 1395 UNFINISHED CONSTRUCTION 1080K ARO 1113K 1220K 1081K 110AR 110AR 101AR 101AR	LAND OPI STRUCTURES RETAINED OPI STRUCTURES RETAINED 1335 UNFINISHED CONSTRUCTION 080K ARO 113K 138K 107A 107AL GAS PLANT IN SERVICE	608,402 0 587,017 9,472,009											105,109 698,424 -694,277 -2,511,368 -105,11368 117,481 85,937,243						