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RJH/RA AROO74

2-82

Department of Revenue 1 2 Adopted Rules Governing Valuation and Assessment of Electric, 3 Gas Distribution, and Pipeline Companies (Utility Companies) 4 5 6 Rules as Adopted 7 Chapter One: Valuation and Assessment of Electric, 8 Gas Distribution, and Pipeline Companies (Utility Companies) 9 10 13 MCAR S 1.0001 Introduction. On October 19, 1973, the Minnesota Supreme Court in Independent School District No. 99, 11 et al. v. Commissioner of Taxation, 297 Minn. 378, ruled that in 12 13 estimating the market value of utility properties for ad valorem 14 tax purposes, the assessing authorities must consider every element and factor affecting market value. The assessment 15 formula used to value operating utility property since 1962, 16 based solely on the original cost less limited depreciation and 17 commonly known as the "Hatfield Formula," was thus invalidated 18 as a rule of general application. 19 20 These rules are promulgated to fill that void and reflect 21 the manner in which the value of utility property will be estimated by utilizing data relating to the cost of the property 22 23 and the earnings of the company owning or utilizing the property. Since the Commissioner of Revenue is by statute the 24 25 assessor of some of the utility property in the State of Minnesota and has supervisory powers over all assessments of 26 property, and may raise or lower values pursuant to Minn. Stat. 27 S 270.11, he will estimate the valuation of the entire system of 28 29 a utility company operating within the state. The entire system will be valued as a unit instead of valuing the component parts, 30 and the resulting valuation will be "allocated" or assigned to 31 32. each state in which the utility company operates. Finally, by 33 the process of apportionment, the portion allocated to Minnesota will be distributed to the various taxing districts within the 34 state. Most of the data used in the valuation, allocation, and 35 apportionment process will be drawn from reports submitted to 36

1 the Department of Revenue by the utility companies. These 2 reports will include Minnesota Department of Revenue Annual 3 Utility Reports (UTL Forms), Annual Reports to the Federal 4 Energy Regulatory Commission and Annual Reports to the 5 Interstate Commerce Commission. Periodic examinations of the 6 supporting data for these reports will be made by the Department 7 of Revenue.

8 The methods, procedures, indicators of value, 9 capitalization rates, weighting percents, and allocation factors 10 will be used as described in 13 MCAR SS 1.0003-1.0006 for 1982 11 and subsequent years, or until, in the opinion of the 12 Commissioner of Revenue, different conditions justify a change. 13 As in all property valuations the Commissioner of Revenue

14 reserves the right to exercise his judgment whenever the 15 circumstances of a valuation estimate dictate the need for it.

16 13 MCAR S 1.0002 Definitions. As used in this chapter, the 17 following words, terms and phrases shall have the meanings given 18 to them by this rule, except where the context clearly indicates 19 a different meaning.

A. Allocation. "Allocation" means the process of dividing the unit value of a utility company among the states in which the utility operates.

B. Apportionment. "Apportionment" means the process of
distributing that portion of the utility company's unit value
which has been allocated to Minnesota to the various taxing
districts in which the utility company operates.

C. Book depreciation. "Book depreciation" means the
depreciation shown by a utility company on its corporate books,
and allowed the company by various regulatory agencies.

30 D. Capitalization rate. "Capitalization rate" means the 31 relationship of income to capital investment or value, expressed 32 as a percentage.

33 E. Electric company. "Electric company" means any company
34 engaged in the generation, transmission, or distribution of
35 electric power, excluding cooperatives and municipal

36 corporations.

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F. Gas distribution company. "Gas distribution company"
 means any company engaged in the distribution of natural or
 synthetic gas, excluding the cooperatives and municipal
 corporations.

5 G. Installed capacity. "Installed capacity" means the 6 number of kilowatts a power plant is capable of producing as 7 shown by the nameplates affixed to the generators by the 8 manufacturer.

9 H. Integrated company. "Integrated company" means any 10 company engaged in two or more utility operations within 11 Minnesota, such as electric distribution and gas distribution, 12 within the framework of one corporate structure.

I. Major generating plant. "Major generating plant" means any steam-electric power plant capable of generating 25,000 KW (kilowatts) or more; or any hydro-electric, internal combustion, or gas turbine power plant capable of generating 10,000 KW or more.

J. Net operating earnings. "Net operating earnings" means earnings from the system plant of the utility after the deduction of operating expenses, depreciation, and taxes, but before any deduction for interest.

K. Non-formula assessed property. "Non-formula assessed property" means property of a utility which is valued by the local or county assessor rather than by the Commissioner of Revenue.

26 L. Operating property. "Operating property" means any 27 property, owned or leased, except land that is directly associated with the generation, transmission, or distribution of 28 electricity, natural gas, gasoline, petroleum products, or crude 29 30 oil. Examples of operating property include, but are not limited to, substations, transmission and distribution lines, 31 generating plants, and pipelines. Land, garages, warehouses, 32 office buildings, pole yards, radio communication towers, and 33 parking lots are examples of non-operating property. 34 M. Pipeline company. "Pipeline company" means any company 35

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engaged in the transmission of natural gas, gasoline, petroleum

1 products, or crude oil via a fixed line of pipes.

2 No Standard factor. "Standard factor" means the number used 3 as the basis of comparison when measuring the degree or amount 4 of obsolescence inherent in the property (generating plant) 5 being valued.

6 O. N. System plant. "System plant" means the total tangible
7 property, real and personal, of a company which is used in its
8 utility operations in all states in which it operates.

9 P- O. Throughput. "Throughput" means the amount of product --10 measured in barrels, gallons, or cubic feet which passes through 11 a pipeline.

12 Q. P. Unit value. "Unit value" means the value of the --13 system plant of a utility company taken as a whole without any 14 regard to the value of its component parts.

R. Q. Weighted pipe line miles. "Weighted pipe line miles" ...
means the product obtained by multiplying the number of miles of
each size of a pipeline by the diameter in inches of each size.
Example: a 6 mile pipeline 3 miles of which is 10 inches in
diameter and 3 miles of which is 30 inches in diameter would
have a weighted miles product of 120.

21 13 MCAR S 1.0003 Valuation.

General. Because of the unique character of public 22 Α. utility companies, such as being subject to stringent government 23 24 regulations over operations and earnings, the traditional approaches to valuation estimates of property (cost, capitalized 25 income and market) must be modified when utility property is 26 27 valued. Consequently, for the 1982 and subsequent assessment years, until economic and technological factors dictate a 28 change, the value of utility company property will be estimated 29 30 in the manner provided in this chapter.

31 B. Market approach. Market value implies a price for which 32 an entire public utility enterprise might reasonably change 33 hands between willing and informed buyers and sellers. The term 34 presupposes a market of normal activity, no urgency to buy or 35 sell on the part of either the buyer or seller, and continued 36 operation of the utility as a single entity. Public utility

1 property is seldom transferred as a whole unit under these 2 circumstances. Consequently, after consideration of this 3 approach, it has been decided that valuation of utility 4 properties by this approach is speculative and unreliable and 5 will not be employed as a method of valuation for utility 6 property at this time.

Cost approach. The cost factor that will to be 7 C. considered in the utility valuation formula is the original cost 8 less depreciation of the system plant, and plus improvements to 9 10 the system plant, plus the original cost of construction work in progress on the assessment date. The original cost of any 11 leased operating property used by the utility must be reported 12 to the commissioner in conjunction with the annual utility 13 report. If the original cost of the leased operating property 14 is not available, the commissioner shall make an estimate of the 15 16 cost by capitalizing the lease payments. Depreciation will not 17 be allowed on construction work in progress. Depreciation will be allowed as a deduction from cost in the amount allowed on the 18 accounting records of the utility company, as such records are 19 20 required to be maintained by the appropriate regulatory agency.

Depreciation, however, shall not exceed the prescribed percentage of cost: for electric companies, 19 percent; for gas distribution companies, 47.5 percent; and for pipeline companies, 47.5 percent.

25 A modification to the cost approach to value will be 26 considered by the commissioner when valuing electric utility property. The original cost of an electric utility's major 27 generating plants will be increased if the cost of the plant 28 29 falls below a certain standard. The standard to be used will be 30 a national average of the cost per kilowatt of installed The cost per kilowatt of installed capacity is the 31 capacity. total construction cost of the generating plant divided by the 32 33 number of kilowatts the plant is capable of producing. The 34 national average to be used will be computed by totaling the construction costs, excluding the cost of land, for major 35 ் generating plants within the 48 contiguous United States. 36 The

2/16/82

total cost of the plants will be divided by the total generating 1 2 capacity of the same plants to arrive at an average cost per kilowatt of installed capacity. A separate average will be 3 computed for each of the following types type of plants plant: 4 5 gas turbine, hydro-electric, and steam-electric. The plants used in the calculation will exclude federally constructed, 6 7 multi-purpose projects, and nuclear electric generating plants. 8 The information used to compute the average will be drawn 9 from the latest issues of the following United States Department 10 of Energy publications: Hydro-Electric Plant Construction Cost 11 and Annual Production Expenses; Steam-Electric Plant 12 Construction Cost and Annual Production Expenses; and Gas 13 Turbine Electric Plant Construction Cost and Annual Production Expenses. The plants which will be used in the computation of 14 15 the national average will be those plants built during the most recent 15 years included in the above named these publications. 16 17 An example of this computation of the national average cost 18 per kilowatt of installed capacity is as follows: 19 20 Steam-Electric Generating Plants 21 Plant Cost 22 Plant Excluding Land Plant Capacity \$ 14,000,000 23 Α 100,000 kw 24 13,000,000 . B 90,000 kw 25 17,000,000 110,000 С kw 14,500,000 26 D 80,000 kw 27 18,000,000 120,000 Ε kw 28 10,000,000 70,000 F kw 19,000,000 130,000 29 G kw 9,000,000 60,000 30 Η kw 31 Ι 20,000,000 140,000 kw 32 J 8,000,000 50,000 kw 33 \$142,500,000 950,000 kw 34 Total plant cost (\$142,500,000) divided by total plant 35 capacity (950,000 kw) equals \$150 average cost per kilowatt of

36 installed capacity.

2/16/82

The national average cost per kilowatt of installed 1 capacity will be compared to the specific cost per kilowatt of 2 installed capacity for each of the major generating plants owned 3 by the utility being valued. If the national average cost per 4 kilowatt is greater than the subject plant cost, the subject 5 6 plant will have additional dollars incorporated into its cost in order to raise its cost per kilowatt to the national average. 7 8 If the subject plant's cost per kilowatt equals or exceeds the national average, no cost will be added. 9 10 The following example illustrates this procedure: 11 12 XYZ Utility 13 Steam-Electric Generating Plants 14 1. Plant #1 #2 Installed Capacity 100,000 kw 50,000 kw 15 2. 16 3. Year in Service 1970 1950 Cost of Plant 17 4. \$5,000,000 18 (Exclusive of Land) \$15,200,000 19 5. Specific Plant 20 Cost per kw \$100 \$152 21 6. National Average 22 Cost per kw \$150 \$150 7. 23 Deficiency none \$ 50 24 8. Additional Cost \$2,500,000 25 (Line 7 x Line 2) none This additional cost to be added to the original cost of 26 27 the specific plant will be reduced by two factors - an allowance 28 for pollution control equipment and an allowance for 29 obsolescence. 30 The allowance for pollution control equipment will be 31 computed annually by totaling the construction costs, exclusive of land, of all major generating plants within Minnesota by type 32 -33 of plant. A total will also be made of the cost of the equipment in these plants which has been approved for tax exempt 34 35 status in accordance with Minn. Stat. S 272.02, subd. 1, clause 36 (15). This total will also be computed by type of plant. The

2/16/82

10

total of the approved pollution control equipment will be 1 2 divided by the total construction cost, exclusive of land, of the plants in order to calculate a percentage. This percentage 3 will be the ratio of dollars spent for pollution control 4 5 equipment to total dollars spent to construct a specific type of 6 power plant. This percentage will then be used to reduce the 7 gross additional cost to be added to the cost of the specific 8 generating plant, as computed above. An example of this process 9 is as follows:

11		Steam-Electric P	lants Within Minnesota
12		Plant Cost	Cost of Approved
13	Plant	Excluding Land	Pollution Control Equipment
14	А	\$15,200,000	\$1,500,000
15	В	10,000,000	1,000,000
16	С	5,000,000	700,000
17	D	20,000,000	.2,000,000
18	Ε	16,500,000	1,470,000
19		\$66,700,000	\$6,670,000

Total cost of approved pollution control equipment (\$6,670,000) divided by total plant cost (\$66,700,000) equals 10% percent ratio of pollution control equipment expenditures to total expenditures for generating plant construction.

24 25 XYZ Utility 26 Steam-Electric Plant #2 1. Additional Cost Due to Computation of 27 Average Cost per kw of Installed 28 29 Capacity \$2,500,000 30 10% Allowance for Pollution Control 2. 31 250,000 Equipment 32 3. Additional Cost to be Added after Adjustment for Pollution Control 33 34 \$2,250,00**0** Equipment 35 The allowance for obsolescence which will be applied to the · 36 additional plant construction cost will be computed annually for

1 hydro-electric and steam-electric generating plants. The
2 information needed to compute the obsolescence factors will be
3 drawn from the same publications that are used to compute the
4 national average cost per kilowatt of installed capacity
5 figure. Gas turbine plants will not have any obsolescence
6 allowance applied to the additional cost added to the plants.

The obsolescence allowance for hydro-electric plants will 7 be calculated through the use of a "plant factor." The plant 8 factor is computed by dividing the number of kilowatt hours a 9 10 generating plant actually produced in a year by the number of kilowatt hours the plant was capable of producing. The plant 11 factor is normally expressed as a percentage. The mathematical 12 13 expression of this factor is: net generation (kwh) divided by 14 annual installed capacity (hours in a year X installed capacity (kw)). A standard plant factor will be computed for 15 16 hydro-electric plants by averaging the plant factors of the ten 17 plants within with the highest plant factors in the 15 year 18 study period used to compute the average cost per kilowatt of 19 installed capacity with the highest plant factor. This standard 20 will then be compared to an average of the most recent three 21 years' plant factor of the subject plant. The amount the subject plant deviates from the standard is the amount of 22 23 obsolescence which will be applied to the added cost. 24. An example of this obsolescence allowance computation is 25 shown below.

26 Hydro-Electric Plants 27 Net Generation Plant Capability Plant 28 Plant kwh (000) kwh (000) Factor 29 A. 400,150 755,000 53 % 300,040 30 . В 577,000 52 % 31 С 250,000 480,000 52 % 32 600,000 1,250,000 D 48 % 33 Ε 896,000 1,600,000 56 % 34 F 700,000 1,400,000 50 % 35 507,000 975,000 G 52 % 450,000 1,000,000 36 Η 45 %

•	2/16/82		[REVISOR] RJ	H/RA AROO74			
1	I	376,000	800,000	47 %			
2	J,	810,000	1,800,000	45 %			
3			A	verage 50 %			
. 4							
5		Х	YZ Utility				
6		Hydro-El	ectric Plant #4				
7		Net Generation	Plant Capability	Plant			
· 8	Year	kwh (000)	kwh (000)	Factor			
. 9	19XX	400,000	1,000,000	40 %			
10	19XX	500,000	1,000,000	50 %			
11	19XX	450,000	1,000,000	45 %			
12			A	verage 45 %			
13	Hydro-electric plant #4 plant factor (45% percent) divided						
14	 by standard plant factor (50% percent) equals 90% percent.						
15	Therefore, hydro-electric plant #4 deviates from the standard by						
16	6 10% percent, or is 10% percent obsolete.						
17	The obsolescence allowance for steam-electric generating						
18	plants will be computed annually using two indicators. The						
19	first indicator will be the plant factor. The plant factor for						
20	steam-electric plants will be computed and applied in the same						
21	manner as the computation specified for hydro-electric plants						
22	above. The only difference will be that the information used						
23	for the computation will be drawn from the latest Steam-Electric						
24	Plant Construction Cost and Annual Production Expenses						
- 25	publication rather than the Hydro-Electric Plant publication.						
26	Plant factors of the ten best steam-electric generating plants						
27	within the 15 year study period will be averaged. This average						
28	will be compared to the most recent three year average plant						
29	factor for the subject plant. The subject plant's deviation						
30	from the standard plant factor is the amount of indicated						
31	obsolescence.						
32	The second indicator which will be used to compute an						
33	obsolescence allowance for steam-electric generating plants will						

33 obsolescence allowance for steam-electric generating plants will 34 be a thermal efficiency factor. The source of information for 35 this computation will also be the latest issue of the United 36 States Department of Energy's publication, Steam-Electric Plant

2/16/82

Construction Cost and Annual Production Expenses. 1 Thermal efficiency for a generating plant is measured by the number of 2 British thermal units (B.T.U.) required to produce one kilowatt 3 This efficiency rating can be obtained by dividing the 4 hour. 5 number of kilowatt hours produced by a generating plant by the 6 number of B.T.U.'s needed to produce this power. The number of B.T.U.'s used can be obtained by multiplying the units of fuel 7 8 burned by the generating plant - tons of coal, gallons of oil, or cubic feet of gas - by the average B.T.U. content of the fuel 9 unit. The standard thermal efficiency factor will be computed 10 by averaging the thermal efficiency factor of the ten most 11 · 12 efficient steam-electric generating plants within the 15 year study period used to compute the average cost per kilowatt of 13 14 installed capacity. This standard thermal efficiency factor will then be compared to the thermal efficiency factor of the 15 16 subject plant. The amount the subject plant deviates from the standard is the amount of obsolescence indicated by this factor. 17

The two obsolescence figures for the subject plant as 18 19 indicated by both the plant and thermal efficiency factors will 20 then be averaged. This resulting average is the obsolescence 21 allowance which will be applied to the cost added to the subject plant as a result of the average cost per kilowatt of installed 22 23 capacity computation. In no instance shall the original cost of a generating plant be reduced by an allowance for obsolescence 24 25 unless its cost is increased through the use of the average cost per kilowatt of installed capacity computation. 26

The following examples illustrate the computation of the standard thermal efficiency factor; obsolescence indicated by the application of this factor to the subject plant; average obsolescence for steam-electric generating plants; and obsolescence allowance adjustment of the added cost due to the use of the average cost per kilowatt of installed capacity for the subject plant.

34				Steam-Elect	tric Gener	ating Plants	·	
35			Net	Generation	kwh	BTU's Used		
36	Plant	•		(Millions)		(Millions)	BTU's per	kwh

[REVISOR] RJH/RA AR0074

1	A	2,000	18,400,000	9,200				
2	В	6,000	53,400,000	8,900				
3	с	8,000	72,000,000	9,000				
4	D	5,000	45,500,000	9,100				
5	E	3,000	26,400,000	8,800				
6	F	1,000	9,000,000	9,000				
7	G	4,000	36,600,000	9,150				
8	H	9,000	80,550,000	8,950				
9	I	7,000	61,950,000	8,850				
10	J	5,000	45,250,000	9,050				
11			I	Average 9,000				
12		•						
13		XYZ Ut	ility Company					
14		Steam-El	ectric Plant #2	•				
15	Net Gener	rations kwh	BTU's Used	BTU's				
16	(Millions) (Millions) per kwh							
17	2,	000	21,600,000	10,800				
18	Steam-electric plant #2 thermal efficiency factor (10,800							
19	9 BTU's per kwh) divided by standard thermal efficiency factor							
20	(9,000 BTU's per kwh) equals 120% percent. Therefore,							
21	l steam-electric plant #2 deviates from the standard by 20%							
22	percent or is 20% percent obsolete.							
2 3								
24		XYZ Ut	ility Company					
25		Steam-El	ectric Plant #2	· ·				
26	1. Obsole	scence Indicated	by Plant Factor	10%				
27	2. Obsole	scence Indicated	by Thermal Efficiend	У				
28	Factor			20%				
29.	3. Obsole	scence Allowance	(Average of 1 and 2)	15%				
30	4. Additi	onal Cost due to	Computation of	. '				
31	Averag	e Cost per kw of	Installed Capacity	\$2,500,000				
32	5. 15% Ob	solescence Allowa	nce	375,000				
33	6. Additi	onal Cost to be A	dded after					
34	Adjustment for Obsolescence \$2,125,000							
35	The cost indicator of value computed in accordance with							
36	this rule C.	will be weighted	for each type of ut	ility company				
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2/16/82

1 as follows: electric companies, 85 percent; gas distribution 2 companies, 75 percent; and pipeline companies, 75 percent. 3 The following example illustrates how the cost indicator of 4 value would be computed for an electric company: Utility Plant (Cost).....\$200,000,000 5 1. 6 2. Construction in Progress..... 5,500,000 7 Additional Value From Average Cost 3. 8 per K-W- kw Computation..... 2,000,000 Total Plant..... 207,500,000 9 4. 10 5. Non-Depreciable Plant (Land, Intangibles, C.W.I.P.).....17,500,000 11 12 6. Depreciable Plant 190,000,000 Depreciation (Maximum 19%)..... 36,100,000 7. 13 Total Cost Indicator of Value......171,400,000 14 8. 15 Any company for which a modification is made under 13 MCAR S 1.0003 C. due to the average cost per kilowatt adjustment 16 _____ being made to original cost of a plant or plants located in 17 Minnesota shall have an alternative cost indicator computation 18 . _ _ _ _ . ----made without giving effect to the average cost per kilowatt 19 20 adjustment of such plant or plants. 21 D. Income approach to valuation. The income indicator of 22 value will be estimated by weighting the net operating earnings 23 of the utility company for the most recent three years as 24 follows: most recent year, 40 percent; previous year, 35 percent; and final year, 25 percent. After considering, as far 25 as possible, all conditions that may exist in the future that 26 may affect the present annual return, including risk, life 27 28 expectancy of the property, and cost of money, the capitalization rates used to compute value for the assessment 29 30 will be: electric companies, 8-5 8.75 percent; gas distribution companies, 8-75 9.0 percent; and pipeline companies 9,9.25 31 percent. The income indicator of value computed in accordance 32 33 with this rule D. will be weighted for each class of utility company as follows: electric companies, 15 percent; gas 34 distribution companies, 25 percent; and pipeline companies, 25 35 36 percent.

1 The following example illustrates how the income indicator 2 of value would be computed for a pipeline company: 3 1981 1982 1980 4 \$ 468,000 \$ 385,700 \$ 450,000 5 Net Operating Income 1. 6 2. Capitalized Income @ 9% 5,200,000 4,285,600 5,000,000 7 Weighting Factor 25% 35% 40% 8 3. Weighted Capitalized Income 1,300,000 1,500,000 2,000,000 9 4. 10 Total Income Indicator of 5. 4,800,000 11 Value 12 Ε. Unit value computation. The unit value of the utility 13 company will be the total of the weighted indicators of value. 14 The following is an example of the computation of the unit value for a pipeline company: 15 16 1. Cost Indicator of Value....\$5,000,000 x 75% = \$3,750,000 Income Indicator of Value. \$4,800,000 x 25% = \$1,200,000 17 2. 18 3. Unit Value of Pipeline Company 100% \$4,950,000 Any company whose cost indicator was modified under 13 MCAR 19 20 S 1.0003 C. to reflect the average cost per kilowatt adjustment _ _ _ _ 21 of a plant or plants located in Minnesota shall have an 22 alternative unit value computation made without giving effect to 23 the modification in respect of such plant or plants. 24 Valuation of utility property of cooperatives and other F. 25 non-common carrier or non-regulated utilities. Cooperative 26 associations and other types of utilities which do not operate 27 in the traditional profit making mode, are not common carriers, 28 or are non-regulated, will have their utility property valued on 29 the basis of historical cost only. Depreciation will be allowed as a deduction from the historical cost in increments of 2.5 30 31 percent per year, but the maximum depreciation allowed shall not 32 exceed 25 percent of the cost of the utility operating 33 property. Additions to existing utility property will be depreciated 2.5 percent per year until they reach the 25 percent 34 35 maximum. Retirements of utility property will be deducted from 36 the cost basis at the appropriate depreciation level of the

2/16/82

1 retired property. 2 The following example illustrates this process for an 3 electric cooperative association: Cost of Substation \$1,000,000 4 1. 5 2. Value 1st year @ 97.5% 975,000 6 3. Value 2nd year @ 95% 950,000 Value 3rd year @ 92.5% 925,000 7 4. 900,000 8 5. Value 4th year @ 90% Value 5th year @ 87.5% 875,000 9 6. 10 7. Value 6th year @ 85% 850,000 825,000 11 8. Value 7th year @ 82.5% 9. Value 8th year @ 80% 800,000 12 13 10. Value 9th year @ 77.5% 775,000 14 11. Value 10th year @ 75% 750,000 15 12. Value 11th and succeeding years at 75% 750,000 16 G. Obsolescence allowances. The commissioner may shall adjust the value calculated pursuant to this rule under 13 MCAR ; 17 S 1.0003 through the use of an obsolescence allowance. This 18 19 allowance is intended to be used in order to recognize the effect the curtailment or termination of a pipeline's source of 20 21 supply may have on its value. This allowance must be applied 22 for each year at the time the utility files its Minnesota -Department of Revenue Annual Utility Report. The utility's 23 24 eligibility for this allowance will be based on the relevant 25 facts for the specific valuation year. The application of an 26 obsolescence allowance in any previous year shall have no - -- -- -- -- -- -- --27 bearing on the use of the allowance for a subsequent year. In 28 order for a pipeline or a gas distribution company to be eligible for such an this allowance they it must meet certain 29 30 criteria or standards. These standards are listed below. It is mandatory that standards 1., 2., and 3. be met by the utility. 31 It is highly desirable that standards 4. and 5. also be met. 32 1. The utility must adequately shall demonstrate, to the 33 34 satisfaction of the commissioner, that its source of supply for 35 gas or oil will be terminated within the next ten years. 36 2. The utility must shall be at, or above, the maximum

1 depreciation allowance as specified by C.

3. The utility must shall have made application to the
 appropriate regulatory agency for increased depreciation
 allowances, and the application must shall not have been denied
 or rejected.

6 4. The utility must not have made any major capital7 expenditures within the last three years.

8 5. The utility must not have sold any long term bonds or9 signed any long term notes within the last three years.

10 If the utility has made major capital expenditures or 11 entered into long term debt obligations within the last three 12 years, a satisfactory explanation of the rationale for these 13 actions must shall be made to the commissioner before an 14 allowance for obsolescence will be granted.

15 The obsolescence allowances which may be applied to the 16 utility's value will be calculated in the following manner:

17 Method 1. A 5 five year average of the utility's annual throughput will be calculated. The throughput for the 18 19 assessment year will be compared to this average and a 20 percentage calculated. This percentage will be applied to the cost indicator of value calculated pursuant to under C. in order 21 22 to adjust the indicator for obsolescence. The adjusted cost 23 indicator of value will be used in the calculation of the unit 24 value pursuant to under E. The following is an example of this procedure: 25

·26		Year	Throughput in Barrels
27		1977	1,200,000
28		1978	1,300,000
29		1979	1,150,000
30		198 0	1,100,000
31		1981	1,050,000
32			5,800,000 Total
33			1,160,000 Average Throughput
34	1.	1982 Throughput	1,000,000 Barrels
35	2.	Percent of 1982 Through	put
36	•	to 5 Year Average Throu	ghput 86%

[REVISOR] RJH/RA AR0074 2/16/82 \$6;300,000 1 3. Cost Indicator of Value Cost Indicator Adjusted 2 4. \$5,418,000 3 for Obsolescence Method 2: The book depreciation shown on the books and 4 5 accounts of the utility will be compared to the depreciation allowed by C. If the book depreciation exceeds the maximum 6 depreciation allowance, 50% percent of the excess depreciation 7 will be used in the calculation of the cost indicator of value. 8 9 An example of this calculation is as follows: 10 11 1. Book Depreciation \$6,000,000 4,750,000 12 2. Maximum Allowable Depreciation 13 Excess Depreciation 1,250,000 3. 14 50% of Excess Depreciation \$ 625,000 4. 15 5. Utility Plant \$11,000,000 Construction Work in Progress 50,000 16 6. 17 7. Total Plant 11,050,000 Non-Depreciable Plant (Land, CWIP) 1,050,000 18 8. 10,000,000 19 · 9. Depreciable Plant 4,750,000 20 Depreciation (Maximum 47.5%) 10. 11. Obsolescence Allowance 625,000 21 Cost Indicator of Value 22 12. 5,675,000 Method 3. The income indicator of value computed in 23 24 accordance with D. will be calculated by capitalizing the utility's 3 three-year weighted net operating earnings for a 25 26 specific term of years rather than into perpetuity. The term of years to be used will be the number of years remaining until the 27 expected expiration of the utility's source of supply for 28 product (oil, gas), or the number of years remaining until the 29 utility's major assets (pipeline, pump stations, storage tanks, 30 31 and similar assets) are fully depreciated, whichever is greater. 32 An example of this capitalization process is as 33 follows: 34 35 1979 1980 1981 36 1. Net Operating Earnings \$1,320,000 \$1,000,000 \$800,000

8

2/16/82

35% 40% 1 2. Weighting 25% 2 Weighted Net Operating 3. \$330,000 \$350,000 3 \$320,000 Earnings 4 4. Total Weighted Net \$1,000,000 5 Operating Earnings 5. 6 Terms of years until major 7 assets are fully depreciated 8 Capitalization rate pursuant 6. 9 to 13 MCAR S 1.0003 D. 9% 10 7. Capitalization rate converted 11 to term of 8 years 18.0674% 8. Capitalized Income/Income 12 13 Indicator of Value \$5,534,831 14 The commissioner shall apply to the valuation process 15 whichever of the three obsolescence methods is most appropriate 16 in order to equitably recognize the effect of obsolescence on the utility's value. 17 18 Retirements. Utility operating property may be retired H. from the utility system while still in place if certain criteria 19 20 are met ... 21 1. The property must be physically disconnected from the 22 utility system. In the case of electrical plants, the 23 disconnection or dismantling of wires, cables, connectors, or 24 transformers would constitute physical disconnection. In the case of pipelines, the disconnection of pipes, valves, or 25 26 fittings would be evidence of physical disconnections. 2. An affidavit of retirement should be filed by the 27 utility with the commissioner at least 30 days prior to the 28 29 assessment date. This affidavit should shall indicate the 30 facility being retired and the date it was taken out of service. 31 The utility should make every effort to inform the 32 commissioner of pending major retirements. The commissioner in 33 turn shall notify the county assessor of impending major 34 retirements as soon as this information becomes available to the 35 department. 36 Utility property which is retired in place shall continue

2/16/82

to be taxed for ad valorem purposes;. However, its market value
 shall not be determined on the basis of its value as utility
 operating property.

4 If a utility should choose to temporarily retire a facility pending the development of an alternate fuel, greater demand, 5 increased source of supply, or some other another valid reason, 6 7 the cost of this facility must be transferred to the appropriate regulatory agency's account entitled "Held for Future Use." 8 9 Standby facilities will not be considered to be temporarily 10 retired unless their costs are carried in this account. 11 Temporarily retired utility facilities will be valued taking 12 into account a number of factors including - age of the facility, type of facility, amount of maintenance and additional costs 13 needed to restore the facility to operational status, length of 14 15 retirement, and earning potential of the facility. In no instance shall a temporarily retired facility be valued lower 16 17 than if the facility were considered non-operating utility 18 property.

19 13 MCAR S 1.0004 Allocation.

20 General. After the unit value of the utility property Α. has been estimated, the portion of value which is attributable 21 22 to Minnesota must be determined. This process of dividing the 23 unit value of a utility company among the states in which the 24 utility operates is called allocation. Each of the factors in 25 the allocation formula is assigned a weighted percentage to denote the relative importance assigned to that factor. 26 The 27 resulting sum of the weighted factors multiplied by the unit 28 value yields the valuation of the utility property which will, 29 after the adjustments described in 13 MCAR S 1.0005, be subject to ad valorem tax in the State of Minnesota. 30

31 The factors to be considered in making allocations of unit 32 value to Minnesota for the utility companies and the weight 33 assigned to each factor for each class are specified in this 34 rule.

35 B. Electric companies. The original cost of the utility36 property located in Minnesota divided by the total original cost

2/16/82

of the property in all states of operation is weighted at 90 1 2 percent. Gross revenue derived from operations in Minnesota divided by gross operations revenue from all states is weighted 3 at ten percent. 4 The following example illustrates this formula, assuming a 5 unit value of \$20,000,000. 6 Minnesota Plant Cost.....\$115,000,000 7 1. x .90 = 50.49%System Plant Cost.....\$205,000,000 8 2. 9 Minnesota Gross Revenue.....40,000,000 10 3. x .10 = 3.8%System Gross Revenue.....\$105,000,000 11 4. 12 5. Total Percentage 54.29% Allocable to Minnesota..... 13 \$20,000,000 Unit Value of System Plant..... 14 6. \$10,858,000 7. Amount of Value Allocable to Minnesota.... 15 If any modification has been made to the cost indicator 16 under 13 MCAR S 1.0003 C. to reflect the average cost per 17 ----kilowatt adjustment of a plant or plants located in Minnesota, 18 _____ an alternative computation of the Minnesota allocation shall be 19 -------made without giving effect to the modification in respect of 20 -----21 such plant or plants. C. Gas distribution companies. The allocation of value of 22 gas distribution companies shall be made considering the same 23 factors as are used to determine the allocation of value of 24 electric companies. The weight given to the original cost 25 factor will be 75 percent, and gross revenue shall be weighted 26 27 25 percent. Pipeline companies. In addition to the cost factor and 28 D. the gross revenue factor, the factor of weighted pipeline miles 29 shall be considered in allocating the value of pipeline 30 companies. Weighted pipeline miles means the number of miles of 31 pipeline multiplied by the diameter of the pipe, measured in 32 inches. To illustrate, a pipeline 6 miles long has 3 miles of 33 pipe with a diameter of 10 inches and 3 miles of pipe with a 34 diameter of 30 inches. The weighted pipeline miles is 120. 35 3 miles x 10" diameter = 30 36 3 miles x 30" diameter = 90 37

1 Weighted pipeline miles = 120 2 The following example illustrates the allocation of value of property of a pipeline company and the weights given to each 3 4 factor: Minnesota Plant Cost.....\$13,500,000 5 1. x .75 = 25.76%6 2. System Plant Cost.....\$39,300,000 7 8 3. Minnesota Gross Revenue....\$2,980,000 x .05 = 1.60%9 System Gross Revenue.....\$9,300,000 4. 10 Minnesota Weighted 11 . 5. x .20 = 7.01%12 Pipeline Miles... System Weighted Pipeline Miles..27,100 13 6. Total Percentage Allocable to 7. 14 34.37% 15 Minnesota..... 13 MCAR S 1.0005 Adjustments for non-formula assessed or exempt 16 1.7 property. A. After the Minnesota portion of the unit value of the 18 utility company is determined, any property which is non-formula 19 20 assessed or which is exempt from ad valorem tax, will be 21 deducted from the Minnesota portion of the unit value. Only 22 that qualifying property located within the State of Minnesota 23 may be excluded. 24 Β. The following properties will be valued by the local or 25 county assessor and, therefore, the formula provided herein for 26 the valuation of utility property will not be applicable for 27 such property: 1. 28 Land; 29 Non-operating property; 2. 3. Rights of way. 30 The Minnesota portion of the unit value will be reduced 31 C. by the original cost of land and rights of way. In the case of 32 33 non-operating property, the deduction shall be original cost, less the rate of depreciation applicable in the valuation 34 35 process pursuant to 13 MCAR S 1.0003. 36 D. A deduction from the Minnesota portion of the unit value 37 shall also be made for property, real or personal, which is 38 exempt from ad valorem tax. For instance, pollution control

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[REVISOR] RJH/RA AR0074

equipment for which an exemption has been granted is exempt. А 1 deduction from the Minnesota portion of the unit value shall be 2 made at original cost, less the applicable rate of depreciation 3 used in the valuation process pursuant to under 13 MCAR S 1.0003. 4 The value of personal property, such as office machinery and 5 vehicles, which is not taxed, shall also be excluded from the 6 Minnesota portion of the unit value. The deduction shall be at 7 original cost less the applicable rate of depreciation utilized 8 . 9 in the valuation process. The following example illustrates how these items are 10 11 deducted from the Minnesota portion of the unit value. 1. Minnesota Portion of 12 13 Unit Value..... \$5,000,000 2. Excludable Items - Nondepreciable 14 15 Land Assessed Locally..... 3,000 a. Land Rights..... 17000 2,000 16 b. 17 3. Excludable Items - Depreciable General Plant Items..... \$10,000 18 a. 19 b. Pollution Control Equipment..... 10,000 20,000 20 Gross Depreciable Items..... с. 21 Depreciated at 25%..... 5,000 d. 22 Net Depreciable Excludable Items 15,000 e. 20,000 23 Total Excludable Items..... 4. 24 5. Minnesota Apportionable Value..... 4,980,000 If any modification has been made to the cost indicator 25 26 under 13 MCAR S 1.0003 C. to reflect the average cost per 27 kilowatt adjustment of a plant or plants located in Minnesota, an alternative computation of the Minnesota apportionable value 28 29 shall be made without giving effect to the modification in 30 respect of such plant or plants. 31 E. The utility company shall have the burden of proof to 32 establish that the value of any property should be excluded from the Minnesota portion of the unit value. Accordingly, the 33 34 utility company shall have the responsibility to submit, in the form required by the Commissioner of Revenue, such schedules of 35 exempt or non-formula assessed property as he may require. 36

1 13 MCAR S 1.0006 Apportionment.

A. After the unit valuation of the utility company has been 2 allocated to the State of Minnesota and has been adjusted 3 4 pursuant to under 13 MCAR S 1.0005, the determined amount shall be apportioned or distributed to the taxing districts in 5 Minnesota in which the company operates. This apportionment 6 will be made by the Commissioner of Revenue on the basis of 7 information submitted by the utility companies in annual reports 8 filed with the commissioner. 9

10 If any modification has been made to the cost indicator 11 under 13 MCAR S 1.0003 C. to reflect the average cost per 12 kilowatt adjustment of a plant or plants located in Minnesota, -_ _ _ _ _ _ _ the apportionment to the taxing districts made under 13 MCAR S 13 14 1.0006 C. shall be based upon the Minnesota apportionable value alternatively computed in 13 MCAR S 1.0005 D. without giving 15 effect to the modification in respect of such plant or plants. 16 17 B. The following information must be submitted for each

18 taxing district:

19 1. The market value of the company's operating property
 20 by classification, as reflected in the last assessment,
 21 including the cost of leased taxable property.

The original cost of the company's operating property
 by classification, including the cost of leased taxable property.
 The original cost of any new additions since the last
 assessment, including work in progress on the assessment date.
 The market value of any retirements made after the

27 last assessment, as reflected in that assessment.

28 5. The original cost of any retirements made after the29 last assessment.

6. Whenever a new taxing district is established, the information submitted by the utility companies for the taxing district must be submitted in the same form as enumerated in 1.-5. If the utility, because of administrative difficulty, is forced to make estimates of values and costs for property within new taxing districts, these estimates must be approved by the commissioner.

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The total market value of each company's operating 1 C. utility property in Minnesota shall be divided by the greater of: 2 The last market value of the company's operating 3 1. utility property in each taxing district, plus original cost of 4 5 new construction, reduced by the last market value of property 6 retired since the last assessment. 7 2. The original cost together with any additional cost computed in accordance with 13 MCAR S 1-0003 C- of the company's 8 operating utility property in each taxing district plus original 9 10 cost of new construction reduced by the original cost of property retired since the last assessment multiplied by the 11 12 percentage as specified below. 13 For the 1982 assessment year the original costs shall be 14 multiplied by 77.5% percent. 15 For the 1983 assessment year the original costs shall be multiplied by 80% percent. 16 17 For the 1984 assessment year the original costs shall be 18 multiplied by 82.5% percent. 19 For the 1985 assessment year the original costs shall be 20 multiplied by 85% percent. 21 For the 1986 assessment year the original costs shall be multiplied by 87.5% percent. 22 For the 1987 assessment year the original costs shall be 23 24 multiplied by 90% percent. 25 For the 1988 assessment year the original costs shall be 26 multiplied by 92.5% percent. For the 1989 assessment year the original costs shall be 27 multiplied by 95% percent. 28 29 For the 1990 assessment year the original costs shall be 3Ò multiplied by 97% percent. 31 For the 1991 assessment year the original costs shall be multiplied by 100% percent. 32 33 All computations made under alternative 1. or 2. shall be - -- -- -34 made without giving effect to any modification to reflect the 35 average cost per kilowatt adjustment made under 13 MCAR S 1.0003 36 С.

D. For this purpose, the last market value and the last
 assessment shall mean the latest assessment immediately prior to
 the current assessment. The portion of unit value to be
 assigned to each taxing district will be the resulting
 percentage multiplied by the Minnesota portion of the unit
 value, as adjusted pursuant to this rule.

7 E. After all other computations have been made under 13 MCAR 8 S 1.0006, there shall be added to the value of each district in 9 which there is located a plant or plants qualifying for the 10 average cost per kilowatt adjustment under 13 MCAR S 1.0003 C. a 11 share of the difference between the Minnesota apportionable 12 value computed under 13 MCAR S 1.0005 with the adjustment, and 13 without the adjustment in respect to plants located in 14 Minnesota, in proportion to the amount of the adjustment made 15 with respect to the property located in each such district.

16 Repealer. Rule 13 MCAR S 1.0007 is repealed.