

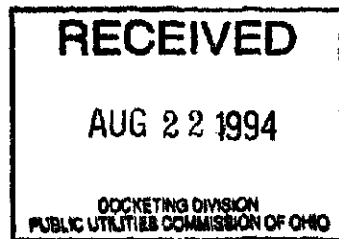
Confidential Release

Case Number: 93-1408-EL-CSS

**Date of Confidential Document:
August 22, 1994**

**Today's Date:
August 6, 2009**

**Annual costs at 1993 marginal rates vs annual
maximum revenue at cooling rate cap.**



PUCO CASE CASE NO. 93-1408-EL-CSS

CONFIDENTIAL

**Submitted Pursuant To
The Confidentiality Agreement Between
Ohio Edison Company and
Youngstown Thermal, Limited Partnership**

**May be opened and reviewed
Only in Accordance with
The Confidentiality Agreement**

CONFIDENTIAL

Ohio Edison Cooling Service to County Jail

ANNUAL COSTS AT 1993 MARGINAL RATES VS. ANNUAL MAXIMUM REVENUE AT COOLING RATE CAP

Peak Demand 856.2 kW

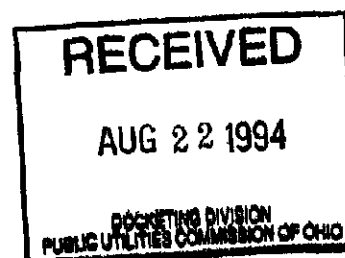
Conversion Factor : 1.2 kWh per Ton-Hour

Thermal Output (Ton-Hours)	Electricity Input (kWh)	Ohio Edison's 1993 Marginal Costs					Revenue @ Cooling Rate Cap	Ohio Edison Cost Less Revenue		
		Funds	GRT	Energy	Other	Total		\$ Amount	\$/KWh	\$/Ton-Hr
420,000	504,000	53,116	2,594	7,411	65,747	128,867	54,600	74,267	0.1474	0.1768
770,000	924,000	53,116	4,755	13,587	65,747	137,205	100,100	37,105	0.0402	0.0482
1,120,000	1,344,000	53,116	5,420	19,763	65,747	144,046	114,100	29,946	0.0223	0.0267
1,470,000	1,764,000	53,116	6,085	25,940	65,747	150,887	128,100	22,787	0.0129	0.0155
1,820,000	2,184,000	53,116	6,750	32,116	65,747	157,728	142,100	15,628	0.0072	0.0086

	w/GRT	w/o GRT
<u>1993 Marginal Cost per OE</u>		
Customer Charge (\$/yr)	162.16	154.07
Demand Charge (\$ per kW-Yr)		
Generation	41.47	39.40
Transmission	7.46	7.09
Distribution	31.70	30.12
Total Demand Charge	80.63	76.61

<u>Energy-Related Charges (\$ per kWh)</u>		Hrs/Wk
Peak Hours	0.0175	0.016627
Off-Peak Hours	0.0142	0.013492
Weighted Average		0.014705

Gross Receipts Tax Rat 4.75%



Ohio Edison Cooling Service to County Jail

Exhibit_JAH-9
93-1408-EL-CSS
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ANNUAL COSTS AT 1993 MARGINAL RATES VS. ANNUAL MAXIMUM REVENUE AT COOLING RATE CAP

Peak Demand 856.2 kW

Conversion Factor : 1.3 kWh per Ton-Hour

Thermal Output (Ton-Hours)	Electricity Input (kWh)	Ohio Edison's 1993 Marginal Costs					Revenue @ Cooling Rate Cap	Ohio Edison Cost Less Revenue		
		Funds	GRT	Energy	Other	Total		\$ Amount	\$/kWh	\$/Ton-Hr
420,000	546,000	53,116	2,584	8,028	65,747	129,485	54,800	74,885	0.1372	0.1783
770,000	1,001,000	53,116	4,755	14,720	65,747	138,337	100,100	38,237	0.0382	0.0497
1,120,000	1,456,000	53,116	5,420	21,410	65,747	145,693	114,100	31,593	0.0217	0.0282
1,470,000	1,911,000	53,116	6,085	28,101	65,747	153,048	128,100	24,948	0.0131	0.0170
1,820,000	2,366,000	53,116	6,750	34,792	65,747	160,404	142,100	18,304	0.0077	0.0101

	w/GRT	w/o GRT
<u>1993 Marginal Cost per OE</u>		
Customer Charge (\$/yr)	162.16	154.07
Demand Charge (\$ per KW-Yr)		
Generation	41.47	39.40
Transmission	7.46	7.09
Distribution	<u>31.70</u>	<u>30.12</u>
Total Demand Charge	80.63	76.61
<u>Energy-Related Charges (\$ per kWh)</u>		
Peak Hours	0.0175	0.016627
Off-Peak Hours	0.0142	0.013482
Weighted Average		0.014705
Gross Receipts Tax Rate	4.75%	

Hrs/Wk
65
103
168

Ohio Edison Cooling Service to County Jail

ANNUAL COSTS AT 1993 MARGINAL RATES VS. ANNUAL MAXIMUM REVENUE AT COOLING RATE CAP

Peak Demand 856.2 kW

Conversion Factor : 1.1 kWh per Ton-Hour

Thermal Output (Ton-Hours)	Electricity Input (kWh)	Ohio Edison's 1993 Marginal Costs					Revenue @ Cooling Rate Cap	Ohio Edison Cost Less Revenue		
		Funds	GRT	Energy	Other	Total		\$ Amount	\$/kWh	\$/Ton-Hr
420,000	462,000	53,116	2,594	6,794	65,747	128,250	54,600	73,650	0.1594	0.1754
770,000	847,000	53,116	4,755	12,455	65,747	136,072	100,100	35,972	0.0425	0.0467
1,120,000	1,232,000	53,116	5,420	18,117	65,747	142,399	114,100	28,299	0.0230	0.0253
1,470,000	1,617,000	53,116	6,085	23,778	65,747	148,725	128,100	20,625	0.0128	0.0140
1,820,000	2,002,000	53,116	6,750	29,439	65,747	155,052	142,100	12,952	0.0065	0.0071

	w/GRT	w/o GRT
1993 Marginal Cost per OE		
Customer Charge (\$/yr)	162.16	154.07
Demand Charge (\$ per kW-Yr)		
Generation	41.47	39.40
Transmission	7.46	7.09
Distribution	21.70	30.12
Total Demand Charge	60.63	76.61

Energy-Related Charges (\$ per kWh)	Hrs/Wk	
Peak Hours	0.0175	0.016627
Off-Peak Hours	0.0142	0.013492
Weighted Average		0.014705

Gross Receipts Tax Rate 4.75%

Ohio Edison Cooling Service to County Jail

ANNUAL COSTS AT 1993 MARGINAL RATES VS. ANNUAL MAXIMUM REVENUE AT COOLING RATE CAP

Peak Demand 856.2 kW

Conversion Factor : 1.0 kWh per Ton-Hour

Thermal Output (Ton-Hours)	Electricity Input (kWh)	Ohio Edison's 1993 Marginal Costs					Revenue @ Cooling Rate Cap	Ohio Edison Cost Less Revenue		
		Funds	GRT	Energy	Other	Total		\$ Amount	\$/kWh	\$/Ton-Hr
420,000	420,000	53,116	2,594	6,176	65,747	127,632	54,600	73,032	0.1739	0.1739
770,000	770,000	53,116	4,765	11,323	65,747	134,940	100,100	34,840	0.0452	0.0452
1,120,000	1,120,000	53,116	5,420	16,470	65,747	140,752	114,100	26,652	0.0238	0.0238
1,470,000	1,470,000	53,116	6,085	21,616	65,747	146,564	128,100	18,464	0.0126	0.0126
1,820,000	1,820,000	53,116	6,750	26,763	65,747	152,375	142,100	10,275	0.0056	0.0056

	w/GRT	w/o GRT
<u>1993 Marginal Cost per OE</u>		
Customer Charge (\$/yr)	162.16	154.07
Demand Charge (\$ per kW-Yr)		
Generation	41.47	39.40
Transmission	7.48	7.09
Distribution	<u>31.70</u>	<u>30.12</u>
Total Demand Charge	80.63	76.61

<u>Energy-Related Charges (\$ per kWh)</u>		Hrs/Wk
Peak Hours	0.0175	65
Off-Peak Hours	0.0142	103
Weighted Average	0.014705	168

Gross Receipts Tax Rate 4.75%