PUBLIC SERVICE COMPANY OF COLORADO
ARAPAHOE STEAM ELECTRIC STATION
1950-51 88 000 KW INSTALLATION
1951 44 000 KW EXTENSION

NEW YORK OFFICE CONTRACTS

General Electric Company	Turbine Generator # 1	NY	771
Total Contract		$	949 453.89
1. Turbine			482 905.00
2. Generator			292 546.00
3. Exciters			25 660.00
4. Turning Gear			2 510.49
5. Field Rheostat			1 980.40
6. Hydrogen Seal Unit & Piping			35 630.00
7. Turbine Piping & Tank			90 388.00
8. Gland Seal Piping & Valve			1 915.00
9. Voltage Regulator			2 545.00
10. Neutral Grounding Transformer & Resistor			638.89
11. Hydrogen Coolers			1 430.00
12. Speed & Cam Shaft Recorder			1 510.00
13. Eccentricity Recorder			3 135.00
14. Vibration Recorder			3 300.00
15. Bushing Current Transformers			3 360.00
Westinghouse Electric Corporation	Turbine Generator # 2	NY	772
Total Contract		$	950 652.00
1. Turbine			639 400.00
2. Generator			240 000.00
3. Exciters			8 900.00
4. Turning Gear			3 400.00

PLAINTIFF'S EXHIBIT
GE-89

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5. Field Rheostat					2 500.00
6. Hydrogen Seal Unit & Piping					7 700.00
7. Turbine Piping & Tank					30 855.00
8. Voltage Regulator					2 523.00
9. Neutral Grounding Transformer & Resistor					609.00
10. Hydrogen Coolers					1 430.00
11. Speed & Cam Shaft Recorder					1 510.00
12. Eccentricity Recorder					3 140.00
13. Vibration Recorder					3 300.00
14. Bushing Current Transformers					3 000.00
15. Generator Neutral Enclosure					950.00
16. Gage Board Mounted on Turbine					1 435.00
Babcock & Wilcox Company	Boilers #1 & #2			NY	773
		Unit 1	Unit 2	Unit 1	Unit 2
Total Contract	Manhours	17 419	17 708	$ 1 149 627.67	$ 1 004 617.55
1. Drums				98 837.08	98 837.09
2. Tubes				37 459.00	37 459.00
3. Soot Blowers				28 173.75	28 173.74
4. Steam Scrubbers				10 225.00	10 225.00
5. Furnace				112 180.69	112 181.70
6. Buckstays & Tie Bars				19 268.00	19 268.00
7. Superheaters				117 868.83	117 867.00
8. Attemperators				19 668.00	19 667.00
9. Dust Collectors				33 791.00	33 790.00
10. Air Preheaters				71 221.00	71 222.00
11. Burners & Windbox				63 381.20	63 381.20
12. Casing & Doors				71 685.00	71 686.00
13. Setting & Insulation				132 421.82	132 421.82
14. Trim				15 975.00	15 976.00
15. Primary Air Ducts				8 536.00	0
16. Air Ducts				27 337.00	27 338.00
17. Gas Ducts				12 931.00	12 930.00

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18. F. D. Fans		10 884.00	10 884.00
19. I. D. Fans		34 739.00	34 739.00
20. Structural Steel		85 566.00	85 566.00
21. Pulverizers		110 376.81	0
22. Primary Air Fans		8 217.49	0
23. Piping - Pulverizers to Burners		14 220.00	0
24. Piping - Feeder to Pulverizer		60.00	0
25. Coal Feeders		3 600.00	0
26. Rigging		975.00	975.00

Allis-Chalmers Manufacturing Company — Condenser #1 — NY 774

Total Contract — $ 190 017.00

1. Condenser (Including Supports)	113 168.00
2. Steam Jet Air Pump	6 470.00
3. Condensate Pumps	13 823.00
4. Circulating Water Pumps	56 556.00

General Electric Company — Transformers #2 — NY 778

Total Contract — $ 152 013.00

1. Main Transformers 3-16667 KVA	132 861.00
2. Auxiliary Transformers 1-6000 KVA	19 152.00

Worthington Pump & Machinery Corporation — Soot Blower Compressers — NY 7714

Total Contract — Units #1 & #2 — $ 25 281.00

1. Compresser	21 885.00
2. M-G Sets	1 314.00
3. After Coolers	1 940.00
4. Safety Thermostats	142.00

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NEW YORK OFFICE CONTRACTS

Byron-Jackson Company	Boiler Feed Pumps		NY	7716
Total Contract	Units #1 & #2		$	110 854.00
1. 6-Boiler Feed Pumps				103 704.00
2. 1-Spare Rotor				7 150.00
Westinghouse Electric Corporation	Transformers #1		NY	7717
Total Contract	2-6000 KVA Auxiliary Transformers		$	37 786.00
Westinghouse Electric Corporation	Transformers #1		NY	7719
Total Contract	3-16,667 KVA Main Transformers		$	135 454.00
Midwest Piping & Supply Company, Inc.	Power Plant Piping		NY	7721
Total Contract	Units #1 & #2	Manhours: 176,447 *	$	940 077.49
Westinghouse Electric Corporation	Condenser		NY	7722
Total Contract			$	95 499.00
1. Condenser - including supports				77 077.00
2. Steam Jet Air Pump				6 340.00
3. Condensate Pumps				12 082.00
Combustion Engineering Incorporated	Pulverizers #2		NY	7727
Total Contract			$	178 499.52
1. Pulverizer Mills				130 059.12
2. Feeders, Couplings, Manifold				14 444.33
3. Ducts, Piping, and Insulation				33 996.07

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NEW YORK OFFICE CONTRACTS

Kansas City Structural Steel Company	Building Frame			NY	7731
Total Contract	Units #1 & #2	Manhours:	12,486 *	$	378 691.45
1. Material					288 057.41
2. Erection					90 634.04
The Marley Company Incorporated	Cooling Towers #1 & #2			NY	7738
Total Contract 8 Cell - Wood			*	$	190 027.00
1. Superstructure					121 070.00
2. Fans, Gears and Driveshafts					16 880.00
3. Distribition Piping					15 320.00
4. Erection		Manhours:	9,305		36 757.00
Raymond Concrete Pile Company	Foundation Investigation			NY	7740
Total Contract Borings & Drillings		Manhours:	672	$	1 675.22
Raymond Concrete Pile Company	Foundation Piles			NY	7741
Total Contract	Units #1 & #2	Manhours:	10,150 *	$	109 176.36
Custodis Construction Company	Concrete Stack #1			NY	7746
Total Contract 250' High x 13' ID Min.		Manhours:	6,952 *	$	60 438.00
Manning, Maxwell & Moore, Incorporated	Station Crane			NY	7748
Total Contract 4 motor-100 Ton Bridge Crane		Manhours:	6,952	$	49 104.25
United Conveyer Corporation	Ash Handling Equipment			NY	7766
Total Contract				$	46 297.09
1. Ash Pit Hoppers & Internal Piping					21 195.00

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2. Sluice Piping					5 491.36
3. Fly Ash Piping					14 660.73
4. External Equipment					4 950.00
Webster Manufacturing Company	Coal Handling Equipment			NY.	7768
Total Contract	Units #1 & #2			$	211 622.92
1. Hoppers					15 151.78
2. Feeders					15 048.00
3. Conveyors & Housing					127 025.91
4. Crusher House & Equipment					54 397.23
Bailey Meter Company	Combustion Control & Main Guage Boards 1 & 2			NY	7770
Total Contract				$	143 315.68
1. For Unit # 1					75 938.63
2. For Unit # 2					67 309.87
Grinnell Company Incorporated	Transformer Fire Protection			NY	77118
Total Contract			*	$	19 890.00
1. Main Transformers #1		Manhours: 536			6 774.00
2. Main Transformers #2		Manhours: 536			6 774.00
3. Auxiliary Transformers #1		Manhours: 124			2 114.00
4. Auxiliary Transformers #2		Manhours: 124			2 114.00
5. Auxiliary Transformers Standby		Manhours: 124			2 114.00
Otis Elevator Company	Passenger Elevator #1			NY	77162
Total Contract		Manhours: 940	*	$	14 611.00

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NEW YORK OFFICE CONTRACTS

B & B Engineering & Supply Company Inc.	Heat Insulation			NY	77163
Total Contract		Manhours:	17,343 *	$	84 764.60
1. For Unit #1					37 978.06
2. For Unit #2					44 691.15
3. For Work Orders					2 105.39
General Electric Company	Turbine Generator #3			NY	77401
Total Contract				$	1 138 210.67
1. Turbine					607 919.35
2. Generator					366 071.32
3. Exciters					30 000.00
4. Turning Gear					6 000.00
5. Field Rheostat & Field Resistor					2 460.00
6. Hydrogen Seal Unit & Piping					43 920.00
7. Turbine Piping & Tank					50 700.00
8. Voltage Regulator					3 060.00
9. Neutral Grounding Transformers & Resistor					780.00
10. Hydrogen Coolers					13 680.00
11. Speed & Cam Shaft Recorder					1 800.00
12. Eccentricity Recorder					3 780.00
13. Vibration Recorder					3 960.00
14. Bushing Current Transformers					4 080.00
Babcock & Wilcox Company	Boiler #3			NY	77402
Total Contract		Manhours:	17,789	$	1 104 303.82
1. Drums					87 650.89
2. Tubes					33 639.00
3. Soot Blowers					28 492.00
4. Steam Scrubbers					8 660.00
5. Furnace					108 446.00
6. Buckstays & Tiebars					18 715.00

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7. Superheaters				108 042.00
8. Attemporators				18 592.00
9. Dust Collectors				38 850.00
10. Air Preheaters				75 137.00
11. Burners & Windbox				49 985.00
12. Casing & Doors				69 284.00
13. Setting & Insulation				110 279.18
14. Trim				15 830.00
15. Primary Air Ducts				8 903.00
16. Air Ducts				21 149.00
17. Gas Ducts				15 419.00
18. F. D. Fans				15 276.00
19. I. D. Fans				48 536.00
20. Structural Steel				72 202.80
21. Pulverizers				111 440.00
22. Primary Air Fans				7 907.00
23. Piping - Pulverizers to Burners				15 335.00
24. Piping - Feeders to Pulverizers				141.00
25. Coal Feeders				4 733.00
26. Rigging				2 483.95
27. Gas Lighters & Controls				2 024.00
28. Power Control Valve				3 896.00
29. Equipment Mounted				3 256.00
Byron-Jackson Company		Boiler Feed Pumps	NY	77403
Total Contract	3 Pumps	Unit #3	$	51 024.00
Allis-Chalmers Manufacturing Company		Condenser #3	NY	77404
Total Contract			$	161 681.31
1. Condenser				127 731.31
2. Steam Jet Air Pump				7 490.00
3. Circulating Water Pump				15 425.00
4. Condensate Pumps				11 035.00

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NEW YORK OFFICE CONTRACTS

General Electric Company	Transformers #3			NY	77405
Total Contract				$	152 013.00
1. Main Transformers	3-16667 KVA				132 861.00
2. Auxiliary Transformers	1-6000 KVA				19 152.00
Midwest Piping & Supply Company	Station Piping			NY	77407
Total Contract	Unit #3	Manhours:	85,735	$	456 079.45
Raymong Concrete Pile Company	Foundation - Piles			NY	77409
Total Contract	Unit #3	Manhours:	4792 *	$	66 894.88
United Conveyer Corporation	Ash Handling System #3			NY	77415
Total Contract				$	23 184.00
1. Ash Pit Hopper & Internal Piping					9 640.00
2. Sluice Piping					3 404.00
3. Fly Ash Piping					6 960.00
4. External Equipment					3 180.00
Custodis Construction Company, Incorporated	Stack #2			NY	77420
Total Contract	250' High x 14" I. D. Min.	Manhours:	7593 *	$	48 730.00
Worthington Pump & Machinery Corporation	Soot Blower Compresser #3			NY	77423
Total Contract				$	13 012.00
1. Compressor					11 264.00
2. M-G Set					745.00
3. After Cooler					932.00
4. Thermostats					71.00

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NEW YORK OFFICE CONTRACTS

The Marley Company, Incorporated	Cooling Tower #3			NY	77425
Total Contract			*	$	89 800.00
1. Superstructure					54 985.00
2. Fans, Gears & Driveshafts					10 130.00
3. Distribution Piping					8 135.00
4. Erection		Manhours: 4650			16 550.00
Bailey Meter Company	Combustion Control & Main Gauge Boards			NY	77451
Total Contract	Unit #3			$	69 548.42
Flexicore Company of Colorado	Precast Concrete Roof Slabs			NY	77463
Total Contract	Unit #3	Manhours: 460		$	15 626.56
1. Concrete Slabs					11 562.42
2. Erection					4 064.14
Grinnell Company Incorporated	Transformer Fire Protection			NY	77465
Total Contract			*	$	9 785.52
1. For Main Transformers #3		Manhours: 572			7 192.00
2. For Auxiliary Transformers #3		Manhours: 240			2 593.52
Otis Elevator Company	Passenger Elevator #2			NY	77468
Total Contract		Manhours: 800	*	$	14 511.00
B & B Engineering & Supply Company, Inc.	Heat Insulation			NY	77504
Total Contract	Unit #3	Manhours: 8349		$	35 862.09

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PUBLIC SERVICE COMPANY OF COLORADO
ARAPAHOE STEAM ELECTRIC STATION
1950-51 88,000 KW INSTALLATION
1951 44,000 KW EXTENSION

FIELD OFFICE CONTRACTS

Colorado Fuel & Iron Corporation	Perimeter & Protective Fence			SD	15
Manhours 3012	Labor $ 7 255.59	Material $ 14 051.68	Total Cost $ 21 307.27		
B & D Electric Company	Construction Building Wiring			SD	74
Manhours 1007	Labor $ 6 471.12	Material $ 8 881.42	Total Cost $ 15 352.54		
W. G. Rhodus	Sanitary Sewer			SD	80
Manhours 1389	Labor $ 5 114.44	Material $ 3 264.94	Total Cost $ 8 379.38		
Colorado Premix	Ready Mixed Concrete			SD	81
		Material $211 497.76	Total Cost $211 497.76		
Bell Plumbing & Heating Company	Caulking Pipe			SD	510
Manhours 11	Labor $ 38.50	Material $ 14.02	Total Cost $ 52.52		
Collier Electric Company	Temporary Electric Work			SD	620
Manhours 2462	Labor $ 6 222.83	Material $ 731.33	Total Cost $ 6 954.16		

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NEW YORK OFFICE CONTRACTS

Webster Manufacturing Company, Inc.	Additions to Coal Handling Equipment	NY	77522
Total Contract	Unit #3	$	1 294.61
1. Conveyor Parts & Additions			1 294.61

* - Indicates these amounts include Colorado State Tax of 2% and Denver City Tax of 1%

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Bell Plumbing & Heating Company		**Station Plumbing**		**SD 87**
Manhours 4814	Labor $ 8 610.21	Material $ 19 582.01	Total Cost $ 28 192.22	
Collier Electric Company		Electrical Work		SD 875
Manhours 80787	Labor $361 495.43	Material $ 1 473.31	Total Cost $362 968.74	
McCarty Johnson, Inc.		Ventilating & Air Conditioning		SD 1039
Manhours 6094			Total Cost $ 41 807.31	
The Craftsman		Station Painting		SD 1040
Manhours 2575			Total Cost $ 10 567.80	
McMurtry Manufacturing Co.		Glass & Glazing		SD 1623
Manhours 275			Total Cost $ 3 939.63	
Western Elaterite Roofing Co.		Built Up Roof		SD 1659
Manhours 1184			Total Cost $ 6 900.00	
Walsh Bros.		Lathing and Plastering		SD 1704
Manhours 466			Total Cost $ 2 485.00	
Gunite Concrete & Construction Co.		Stack Sealer and Hopper Lining		SD 1788
Manhours 32	Labor $ 90.93	Material $ 356.00	Total Cost $ 446.93	

T. C. Koogle and Son		**Holes for Cathodic Anodes**			
Manhours 66	Labor $ 528.00			**Total Cost $ 528.00**	
Industrial Supply Company		Conveyor Belt Splices			SD 1908
Manhours 47				Total Cost $ 1 413.89	
Fox Metal Products Corp.		Metal Guards			SD 1931
Manhours 88	Labor $ 443.67		Material $ 80.12	Total Cost $ 523.79	
National Boiler Casing Co.		Flashing			SD 1941
Manhours 3483	Labor $ 13 932.00		Material $ 2 315.76	Total Cost $ 16 247.76	
The Craftsman		Main Steel Painting			SD 2020
Manhours 1464	Labor $ 5 275.00		Material $ 822.00	Total Cost $ 6 097.00	
The Craftsman		Station & Equipment Painting			SD 2021
Manhours 31465	Labor $118 960.01		Material $ 13 216.19	Total Cost $132 176.20	
John C. Reeves & Company		Asphalt Tile			SD 2043
Manhours 142				Total Cost $ 1 537.47	
Bell Plumbing & Heating Company		Construction Toilet			SD 2109
Manhours 63				Total Cost $ 398.00	

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Construction Specialties Company		**Accoustical Walls**			
Manhours 162				Total Cost $ 1 063.82	
Bell Plumbing & Heating Company		Station Plumbing			SD 2685
Manhours 2475	Labor $ 6 638.89		Material $ 14 081.19	Total Cost $ 20 720.08	
Western Elaterite Roofing Company		Built Up Roof			SD 2696
Manhours 648				Total Cost $ 4 703.90	
John C. Reeves & Company		Asphalt Tile			SD 2706
Manhours 3				Total Cost $ 65.95	
Collier Electric Company		Electrical Work			SD 2719
Manhours 33988	Labor $165 054.25		Material $ 63.21	Total Cost $165 117.46	
W. W. Wilmore Nurseries		Landscaping (Shrubs)			SD 2723
Manhours 28	Labor $ 74.00		Material $ 301.58	Total Cost $ 375.58	
John C. Reeves & Company		Masterplate Floor Topping			SD 2867
Manhours 568				Total Cost $ 3 958.29	
McMurtry Manufacturing Company		Glass and Glazing			SD 2957
Manhours 216				Total Cost $ 1 894.38	

McCarty Johnson, Inc.		**Ventilating & Air Conditioning**		
Manhours 3770				Total Cost $ 26 242.63
John C. Reeves & Company		Asphalt Tile		SD 3064
Manhours 24				Total Cost $ 395.00
Construction Specialties Company		Accoustical Walls		SD 3471
Manhours 249				Total Cost $ 643.00
Western Elaterite Roofing Company		Built-Up Roof		SD 3496
Manhours 171				Total Cost $ 709.50
B & B Engineering & Supply Company		Heat Insulation (Extras)		SD 3792
Manhours 603	Labor $ 2 009.85		Material $ 166.36	Total Cost $ 2 176.21
Colorado Fuel & Iron Corp.		Fence		SD 3939
Manhours 1697	Labor $ 4 533.54		Material $ 7 797.70	Total Cost $ 12 331.24
W. W. Wilmore Nurseries		Landscaping (Trees)		SD 3979
Manhours 17	Labor $ 45.00		Material $ 172.80	Total Cost $ 217.80
Karl F. Hehl Engineering Company, Inc.		Asphalt Paving		SD 4061
Manhours 2700				Total Cost $ 18 217.74

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W. W. Wilmore Nurseries	Landscaping (Shrubs & Flowers)		
Manhours 174		Total Cost $	2 330.09
John C. Reeves & Company	Turbine Floor Tile	SD	4147
Manhours 604		Total Cost $	5 569.30
Colorado Fuel & Iron Company	Motor Operated Gate	SD	4165
Manhours 184		Total Cost $	2 594.80

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