BEFORE THE PUBLIC SERVICE COMMISSION
STATE OF GEORGIA

CITY OF CARTERSVILLE	)	
	)	
Petitioner,	)	
	)	
v.	)	Docket No. 55973
	)	
GEORGIA POWER COMPANY	)	
	)	
Respondent.	)	

PREFILED DIRECT EXPERT TESTIMONY OF
GREG RUPERT FILED ON BEHALF OF PETITIONER
THE CITY OF CARTERSVILLE, GEORGIA

Q: Please state your name and business address.

A: My name is Greg Rupert, and my business address is 109 Lumpkin Way, Canton, Georgia 30115.

Q: Mr. Rupert, do you have a college degree?

A: I do. I graduated in 1995 from Georgia Tech with a degree in mechanical engineering.

Q: Are you a registered professional engineer?

A: I am. I'm registered in eight states: California, Colorado, Georgia, Kentucky, Missouri, New York, Texas, and Virginia.

Q: With whom are you currently employed?

A: I founded my own company (Energy Engineering, LLC) in 2017, and I've been doing that since then. We are licensed professional engineers specializing in industrial energy efficiency projects. Essentially, we identify and develop energy savings projects in industrial environments. We perform energy assessments, provide engineering services, and then monitor facilities to make sure they're performing at peak efficiency.

Q: And how long have you worked in the energy management field?

A: Nearly 30 years.

In 1998, I served as the engineering manager for a joint venture between the Municipal Gas Authority of Georgia and the Municipal Electric Authority of Georgia – basically assisting local governments manage their energy use and cost.

Since then, I have worked with hundreds of industrial, commercial, and governmental facilities to develop, design and implement energy efficiency projects. I have developed extensive knowledge and experience in numerous commercial and industrial systems and process support equipment including chillers, boilers, air compressors, vacuum systems, HVAC, lighting, and motors & drives.

I also specialize in utility rates, rebate programs, and federal incentive programs. In this regard, I have worked with hundreds of commercial and industrial clients to select and negotiate appropriate rates and have developed and presented numerous workshops and courses on the subject.

Q: I tender Mr. Rupert as an expert in the field of electric power assessment, engineering, and monitoring.

Q: Mr. Rupert, what were you asked to do in this case?

A: I was asked to conduct an electrical load survey of the Atkore manufacturing facility located at 1181 Cassville White Road NE, White, GA 30184. The objective of the load survey was to determine the estimated maximum potential power demand for the facility. This would include all production equipment, support equipment, lighting, HVAC, and plug loads. Any redundant or backup equipment was excluded.

Q: Did you go to the Atkore facility?

A: Yes, I went to the Atkore facility on Thursday, July 10, 2025.

Q: How did you go about conducting the survey?

A: A direct survey of production equipment was conducted, and actual nameplate power consumption or sizing was utilized whenever available. A web search to find or estimate power consumption was conducted for equipment with sufficient nameplate data to identify the manufacturer and model. Building plan drawings were used for quantifying power demand for lighting and HVAC systems. Finally, an estimate of office plug loads was established based on the number of office spaces and typical loading for computers, monitors, and printers.

Q: What were the results of the survey?

A: Based on the survey, I calculated a likely range within which the connected load would fall:

Connected Load Findings

Minimum	75%	915 kW
Nominal	100%	1,220 kW
Maximum	125%	1,525 kW

Q: Is it your opinion, then, that the connected load exceeds 900 kW?

A: Yes.

Q: Did you prepare a report?

A: Yes.

Q. Let me show you what I've marked as Exhibit P41. Is this your report?

A. Yes.

[Tender Exhibit P41 into evidence]

Q: Does this complete your testimony?

A: Yes.

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a copy of the herein and foregoing **PREFILED DIRECT EXPERT TESTIMONY OF GREG RUPERT FILED ON BEHALF OF PETITIONER THE CITY OF CARTERSVILLE, GEORGIA** by e-mail as follows:

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This 29th day of October, 2025.

SMITH CONERLY LLP

/s/ Charles S. Conerly
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Energy Engineering, LLC
109 Lumpkin Way
Canton, GA 30115

Energy Engineering LLC

July 16, 2025

Energy Engineering conducted an electrical load survey of the Atkore manufacturing facility located at 1181 Cassville White Rd NE, White, GA 30184 on Thursday, July 10, 2025. The objective of the load survey was to determine the estimated maximum potential power demand for the facility. This would include all production equipment, support equipment, lighting, HVAC, and plug loads. Any redundant or backup equipment is excluded.

A direct survey of production equipment was conducted, and actual nameplate power consumption or sizing was utilized whenever available. A web search to find or estimate power consumption was conducted for equipment with sufficient nameplate data to identify the manufacturer and model. Building plan drawings were used for quantifying power demand for lighting and HVAC systems. Finally, an estimate of office plug loads was established based on the number of office spaces and typical loading for computers, monitors, and printers.

The details of each item are included in the following pages. Although the counts and equipment sizing is believed to be correct, it is prudent to state that the actual total connected load is likely to fall within a range of the calculated total. Here is a summary of the calculated load and that range.

Connected Load Findings		
Minimum	75%	915 kW
Nominal	100%	1,220 kW
Maximum	125%	1,525 kW

I hereby certify that this report has been prepared in accordance with generally accepted engineering practices. To the best of my knowledge and belief, the information contained herein is accurate, complete, and free of errors.

Greg Rupert
Principal

GEORGIA REGISTERED No. PE026338 PROFESSIONAL ENGINEER GREGORY A. RUPERT

EXHIBIT
P41

Qty	Name	Name HP	Name kW	FLA	Volts	Phases	Load Factor	kW	Notes
2	Air Compressor			27.6	460	3	100%	38.5	A
1	Compressed Air Dryer			19	115	1	100%	1.9	A
1	B&O Saw - 803 Precision Saw			108	480	3	100%	78.6	A
2	Sealer		0.52				100%	1.0	A
38	Personal Fan			2.3	120	1	100%	9.2	A
1	Plasma Cutter			26	480	3	100%	18.9	A
1	Camfil Air Pollution Control			14	460	3	100%	9.8	A
1	Yaskawa Welding Robot		2				100%	2.0	B
1	Baleigh Plate Roll PR-403			8.7	220	3	100%	2.9	A
1	Tin Knocker Model TK 16 GA Power Flanger	0.75					100%	0.6	B
1	Angle Roller B	6					100%	4.5	B
1	Angle Roller A	6					100%	4.5	B
3	Kemper Air Filter Tower Type 39080201			9.6	460	3	100%	20.1	A
25	Welbee Welder			29.6	460	3	100%	515.9	A
2	Saw PMI-20	7.5					100%	11.2	A
2	Jet Band Saw JWBS-18SFX			15	115	1	100%	3.0	A
2	Chip Collector	3					100%	4.5	A
1	Rousselle 6B-60 Stamping Press	5					100%	3.7	B
2	Edwards 55 Ton Stamping Press	5					100%	7.5	A
1	12" Disc Sander			8	120	1	100%	0.8	A
1	Welder		0.75				100%	0.8	A
1	Chicago Press Brake	7.5					100%	5.6	C
1	U.S Industrial Machiner 13' Press Brake	15					100%	11.2	B,C
1	Wood Mizer			26	230	3	100%	9.1	A
1	Niagara 9' Shear Press	5					100%	3.7	B,C
2	Hydraulic Press	10					100%	14.9	A
2	Rousselle 4B Stamping Press			4.6	460	3	100%	6.4	B,C
1	Saw PMI-18D	7.5					100%	5.6	A
1	20" Jet Floor Drill Press	1					100%	0.7	A
1	Jet Horizontal Cut Off Saw	2					100%	1.5	A
1	Floor Chip Collector	3					100%	2.2	A
1	Trash Compactor	10					100%	7.5	B,C
6	Production Area Computer Monitors		0.02				100%	0.1	B,C
15	Production Printer		0.08				100%	1.2	B,C
1	Stretch Wrapper			15.1	120	1	100%	1.6	A
16	Forklift Charging Stations			19.2	480	3	100%	223.5	A
186	Warehouse Office Lighting North 2X4 (A)		0.055				100%	10.2	D
26	Warehouse Office Lighting North Downlight (B)		0.02				100%	0.5	D
1	Warehouse Office Lighting North 4' Strip (C)		0.045				100%	0.0	D
274	Warehouse High Bay Lighting		0.441				100%	120.8	D
1	RTU 4 Ton		4				100%	4.0	C,D
1	RTU 4 Ton		4				100%	4.0	C,D
1	RTU 2.5 Ton		2.5				100%	2.5	C,D
1	RTU 2.5 Ton		2.5				100%	2.5	C,D
1	RTU 3 Ton		3				100%	3.0	C,D
1	RTU 5 Ton		5				100%	5.0	C,D
1	RTU 5 Ton		5				100%	5.0	C,D
1	RTU 5 Ton		5				100%	5.0	C,D
1	RTU 5 Ton		5				100%	5.0	C,D
1	Office South Lighting		3.5				100%	3.5	C,D
1	Plug Loads		14.1				100%	14.1	C,D
		TOTAL						1,220	

Notes Key	
A	Equipment Nameplate
B	Web Search on Make/Model
C	Estimated
D	Drawings

Connected Load Range		
Min	75%	915
Nominal	100%	1,220
Max	125%	1,525