BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Evergy Metro, Inc. d/b/a Evergy)	
Missouri Metro's Infrastructure Standards)	Case No. EO-2020
Compliance Plan Pursuant to 20 CSR 4240-23.020)	

NOTICE OF COMPLIANCE FILING

Pursuant to 20 CSR 4240-23.020(3)(C) Evergy Metro, Inc. d/b/a Evergy Missouri Metro ("Evergy Missouri Metro") hereby submits to the Missouri Public Service Commission Evergy Missouri Metro's annual infrastructure compliance report.

Respectfully submitted,

|s| Roger W. Steiner

Robert J. Hack, MBN 36496 Phone: (816) 556-2791

E-mail: rob.hack@evergy.com Roger W. Steiner, MBN 39586

Phone: (816) 556-2314

E-mail: roger.steiner@evergy.com

Evergy, Inc.

1200 Main – 16th Floor

Kansas City, Missouri 64105

Fax: (816) 556-2787

Attorneys for Evergy Missouri Metro

CERTIFICATE OF SERVICE

I do hereby certify that a true and correct copy of the foregoing *Notice of Compliance Filing* was served via e-mail on this 18th day of June 2020 upon:

Missouri Public Service Commission P.O. Box 360 200 Madison Street, Suite 800 Jefferson City, MO 65102

Email: staffcounselservice@psc.mo.gov

Office of the Public Counsel P.O. Box 2230 200 Madison Street, Suite 650 Jefferson City, MO 65102 Email: opcservice@opc.mo.gov

|s| Roger W. Steiner

Roger W. Steiner

Evergy Missouri Metro 2019 Annual Infrastructure Compliance Report Pursuant to 20 CSR 4240-23.020

Evergy Missouri West 2019 Annual Infrastructure Compliance Report Pursuant to 20 CSR 4240-23.020

Infrastructure Inspection and Maintenance Program

June 18, 2020

Table of Contents

Introduction	3
Distribution System Summary	3
Evergy Missouri Metro Area Inspections	4
Table 1: Evergy Missouri Metro Inspection Corrective Action Inspections	4
Evergy Missouri West Area Inspections	5
Table 2: Evergy Missouri West Inspection Corrective Action Inspections	5
Table 3: Combined Distribution Equipment Rating Summary	6
Distribution Corrective Action Summary	6
Table 4: Combined Distribution Corrective Action Summary	6
Transmission System Summary	7
Table 5: Evergy Missouri Metro Transmission Facility Inspection Summary	7
Table 6: Evergy Missouri West Transmission Facility Inspection Summary	8
Table 7: Evergy Missouri Metro Transmission Equipment Condition Rating Summary	8
Table 8: Evergy Missouri West Transmission Equipment Condition Rating Summary	8
Table 9: Evergy Missouri Metro Transmission Corrective Action (CA) Summary	y9
Table 10: Evergy Missouri West Transmission Corrective Action (CA) Summary	v9

Introduction

Evergy Missouri Metro and Evergy Missouri West (collectively, "Evergy"), submit their 2019 Annual Infrastructure Compliance Reports as required under the State of Missouri's *Electrical Corporation Infrastructure Standards*, 20 CSR 4240-23.020 ("MoIR"). This report covers the period January 1, 2019, through December 31, 2019, incorporating by reference Evergy's infrastructure compliance plans filed July 1, 2008.

Distribution System Summary

Evergy is aligned with the Overhead and Underground Infrastructure Inspection schedule set forth in the MoIR. Immediate corrective action is taken when conditions are identified as critical to safety and/or service reliability. Whenever possible, corrective work on non-critical conditions is bundled with future reliability work targeting underperforming feeders and laterals.

In 2019, Intrusive Wood Pole, Overhead Circuit Structure Patrol, Detail & Patrol of Underground Structure and Equipment, and Detail & Patrol of Pad-mounted Equipment were scheduled in Evergy territories. Inspections are on schedule to be completed by the end of the cycle.

Evergy Missouri Metro Area Inspections

Intrusive Wood Pole, Overhead Circuit Structure Patrol, Detail & Patrol of Underground Structure and Equipment, and Detail & Patrol of Pad-mounted Equipment were scheduled for Evergy Missouri Metro's service area in 2019.

Evergy Missouri Metro is currently on schedule for all inspection types with the first 12-year cycle spanning from 2009-2020. The current schedule for inspections is as follows:

- 1) Overhead Patrols (Cycle 2, Rural 2015-2020) (Cycle 3 Urban 2017-2020)
- 2) Pad-mount Patrols (Cycle 3, 2019-2022)
- 3) Manhole Patrols (Cycle 4, 2019-2022)
- 4) Pad-mount Detailed (Cycle 2, 2015-2022)
- 5) Manhole Detailed (Cycle 2, 2015-2022)
- 6) Overhead Detailed and Wood Pole Intrusive (Cycle 1, 2009-2020)

	Table 1: Evergy Missouri Metro Inspection Corrective Action Inspections										
Е	Evergy Missouri Metro Distribution				pleted Through	gh December 2	019				
System Class	Inspection Type	Facility Type	Units	Inspections Scheduled (Annual Plan)	Inspections Completed	Inspections Completed Prior to 2019 (Ahead of Cycle Plan)	Inspections Pending Outside of Plan				
	Patrol	Overhead Circuits Structures & Equipment ¹	Structures	25,675	25,675	0	0				
		Pad-mounted Equipment	Equipment Locations	609	609	0	0				
		Underground Structures and Equipment	Structure Locations	453	453	0	0				
Distribution		Overhead Circuits Structures & Equipment	Structures	3,947	3,947	0	0				
	Detail	Pad-mounted Equipment	Equipment Locations	609	609	0	0				
		Underground Structures and Equipment	Structure Locations	453	453	0	0				
	Intrusive	Wood Poles	Poles	3,947	3,947	0	0				

¹ Inclusive of conductors, transformers, reclosers, regulators, capacitors, switching/protective devices as required under the MoIR.

Evergy Missouri West Area Inspections

Intrusive Wood Pole, Overhead Circuit Structure Patrol, Patrol of Underground Structure and Equipment, and Detail & Patrol of Pad-mounted Equipment were scheduled for Evergy Missouri West service area in 2019.

Evergy Missouri West is currently on schedule for all inspection types with the first 12-year cycle spanning from 2009-2020. The current schedule for inspections is as follows:

- 1) Overhead Patrols (Cycle 2 Rural 2015-2020) (Cycle 3 Urban 2017-2020)
- 2) Pad-mount Patrols (Cycle 4, 2019-2022)
- 3) Manhole Patrols (Cycle 4, 2019-2022)
- 4) Pad-mount Detailed (Cycle 2, 2015-2022)
- 5) Manhole Detailed (Cycle 2, 2015-2022)
- 6) Overhead Detailed and Wood Pole Intrusive (Cycle 1, 2009-2020)

Table 2: Evergy Missouri West Inspection Corrective Action Inspections											
Ev	Comp	oleted Throu	gh December 2	2019							
System Class	Inspection Type	Facility Type	Units	Inspections Scheduled (Annual Plan)	Inspections Completed	Inspections Completed Prior to 2019 (Ahead of Cycle Plan)	Inspections Pending Outside of Plan				
	Patrol	Overhead Circuits, Structures, Equipment and Street Lights ²	Structures	43,501	43,501	0	0				
		Pad-Mounted Equipment	Pads	23,704	23,704	0	0				
		Underground Structures and Equipment	Structures	0	0	0	0				
Distribution		Overhead Structures, Circuits, Equipment and Street Lights	Structures	37,523	37,523	0	0				
	Detailed	Pad-mount Equipment	Pads	23,704	23,704	0	0				
		Underground Structures and Equipment	Structures	0	0	0	0				
	Intrusive	Wood Poles	Poles	37,523	37,523	0	0				

² Inclusive of conductors, transformers, reclosers, regulators, capacitors, switching/protective devices as required under the MoIR.

Distribution Equipment Rating Summary

Table 3: Combined Distribution Equipment Rating Summary									
System Class	Inspection Type	Facility Type	Units	Immediate Repair or Next Day	Bundled for Future Work	Corrective Action Not Required			
		Overhead Circuits Structures & Equipment	Structures	0 (0%)	3,053 (92.21%)	258 (7.79%)			
		Pad-mounted Equipment	Equipment Locations	538 6.01%	7,826 (87.49%)	581 (6.49 %)			
Distribution		Underground Structures and Equipment	Structure Locations	78 (19.69%)	295 (74.49%)	23 (5.808%)			
	Intrusive	Wood Poles	Poles	817 (48.54%)	608 (36.12%)	258 (15.33%)			

Distribution Corrective Action Summary

The number of corrective actions completed as the result of facility inspection concerns or in conjunction with Worst Performing Circuit and Lateral Improvement jobs are included in Table 4. Corrective efforts include infrared inspections of splices, ultrasound detection of insulators, ground wire repairs, varmint guards, riser conduit repairs, arrester replacements, critical pole and cross arm replacements, repair/replace transformers, and reinforce or replace wood poles, etc.

Table 4: Combined Distribution Corrective Action Summary										
System Class	Inspection Type	Facility Type	Component	CA Scheduled in 2019	CA Completed in 2019	CA Planned in 2020	CA Planned after 2020			
		Overhead Circuits Structures & Equipment, Street Lights	Structures	5,000	5,552	5,000	4,500			
5	Patrol and Detailed Patrol	Pad-mounted Equipment	Pads	500	531	500	300			
Distribution		Underground Structures and Equipment	Structures	30	803	60	60			
	Intrusive	Wood Poles	Poles	1,235	817	900	900			

_

³ Structural Integrity work takes up to 2-years to schedule and complete due to the complexity of the remediation necessary. Includes splice fixes, structural replacements and secondary network manhole remediations jobs.

Transmission System Summary

All Evergy transmission lines are inspected annually by aerial and/or ground patrol, as was the case in the spring of 2019. This schedule is more rigorous than that required under the MoIR. There were 147 combined corrective actions, based on aerial and ground patrols, completed in 2019. There are 62 combined corrective actions scheduled for 2020 completion.

Detailed and intrusive inspections were completed on transmission lines in both Evergy service areas in 2019. A total of 3,057 poles were inspected in the combined service areas, of which, 36 were found in need of corrective action. There were 40 combined corrective actions, based on detailed and intrusive inspections, completed in 2019. There are 32 poles scheduled for completion in 2020.

	Table 5: Evergy Missouri Metro Transmission Facility Inspection Summary											
Ev	ergy Missouri	Metro Transmissio	on	C	ompleted Thro	ugh December 2	019					
System Class	Inspection Type	Facility Type	Units	Inspections Planned for 2019	Inspections Completed During 2019	Inspections Completed Prior to 2019 (Ahead of Plan)	Inspections Pending in 2019 Outside of Plan					
	Aerial and	Overhead Circuits Structures & Equipment	Structures	7,215	7,215	0	0					
Transmission	Ground Patrol	Underground Structures and Equipment	Structures	22	22	0	0					
	Detail and Intrusive	Wood/Steel Poles	Poles	6	6	0	0					

Table 6: Evergy Missouri West Transmission Facility Inspection Summary											
Eve	ergy Missouri	West Transmiss	ion	Con	pleted Throug	h December 2	019				
System Class	Inspection Type	Facility Type	Units	Inspections Planned for 2019	Inspections Completed During 2019	Inspections Completed Prior to 2019 (Ahead of Plan)	Inspections Pending in 2019 Outside of Plan				
Transmission	Aerial and Ground Patrol	Overhead Circuits Structures & Equipment	Structures	14,779	14,779	0	0				
		Underground Structures and Equipment	Structures	1	1	0	0				
	Detail and Intrusive	Wood/Steel Poles	Poles	3,020	3,051	0	0				

Table 7: Evergy Missouri Metro Transmission Equipment Condition Rating Summary									
System Class	Inspection Type	Facility Type	Component	Repairs Completed Within 12-Months	Schedule for Repair Within 12 to 36 Months	Corrective Action Not Required			
	Aerial and Ground Patrol	Overhead	Poles, Switches	18 (0.25%)	41 (0.57%)	7,156 (99.18%)			
Transmission		Underground Structures	Manholes	0 (0.00%)	0 (0.00%)	22 (100.00%)			
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	35 (4.25%)	26 (3.16%)	763 (92.60%)			

Table 8: Evergy Missouri West Transmission Equipment Condition Rating Summary									
System Class	Inspection Type	Facility Type	Component	Repairs Completed Within 12-Months	Schedule for Repair Within 12 to 36 Months	Corrective Action Not Required			
	Aerial and Ground Patrol	Overhead	Poles, Switches.	44 (0.30%)	75 (0.51%)	14,660 (99.19%)			
Transmission		Underground Structures	Manholes.	0 (0.00%)	0 (0.00%)	1 (100%)			
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	5 (0.17%)	17 (0.59%)	2,851 (99.23%)			

7	Table 9: Evergy Missouri Metro Transmission Corrective Action (CA) Summary										
System Class	Inspection Type	Facility Type	Component	CA Planned in 2019	CA Completed in 2019	CA Planned in 2020	CA Planned after 2020				
	Aerial and Ground Patrol	Overhead Structures & Equipment	Poles, Switches	18	30	18	23				
Transmission	Aerial and Ground Patrol	Underground Structures and Equipment	Manhole	0	0	0	0				
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	15	69	22	4				

Table 10: Evergy Missouri West Transmission Corrective Action (CA) Summary										
System Class	Inspection Type	Facility Type	Component	CA Planned in 2019	CA Completed in 2019	CA Planned in 2020	CA Planned after 2020			
	Aerial and Ground Patrol	Overhead Structures & Equipment	Poles, Switches	44	117	44	31			
Transmission	Aerial and Ground Patrol	Underground Structures and Equipment	Manhole	0	0	0	0			
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	1	13	10	7			

VERIFICATION

STATE OF MISSOURI COUNTY OF JACKSON)) ss.)
authorized to make this affid	ag duly affirmed according to law, depose and hereby state that I am avit on behalf of Evergy Missouri Metro and Evergy Missouri West the facts above set forth are true and correct to the best of my belief.
Subscribed and affirm	Kevin Noblet Evergy, INC. ned before me this 17 th day of June 2020. Ath NOTARY/PUBLIC
My Commission Expires:	ANTHONY R WESTENKIRCHNER Notary Public, Notary Seal State of Missouri Platte County Commission # 17279952 My Commission Expires April 26, 2021