

**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-2023-_____
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

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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 1st day of July 2022 upon:

Missouri Public Service Commission
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Jefferson City, MO 65102
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/s/ Roger W. Steiner

Roger W. Steiner

**Evergy Metro MO
2021 Annual Infrastructure Compliance Report
Pursuant to 4 CSR 240-23.020**

**Evergy MO West
2021 Annual Infrastructure Compliance Report
Pursuant to 4 CSR 240-23.020**

Infrastructure Inspection and Maintenance Program

June 30, 2022

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Introduction

Evergy Metro MO and Evergy MO West (collectively, “Companies”), submit their 2021 Annual Infrastructure Compliance Reports as required under the State of Missouri’s *Electrical Corporation Infrastructure Standards*, 4 CSR 240-23.020 (“MoIR”). This report covers the period January 1, 2021, through December 31, 2021, 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 2021, 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 East territories. Inspections are on schedule to be completed by the end of the cycle.

Evergy Metro MO 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 East Metro MO's service area in 2021.

Evergy Metro MO is currently on schedule for all inspection types with the second 12-year cycle spanning from 2021-2032. The current schedule for inspections is as follows:

- 1) Overhead Patrols (Cycle 4 Rural 2021-2026) (Cycle 4 Urban 2021-2024)
- 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 2, 2021-2032)

Table 1: Evergy Metro MO Inspection Corrective Action Inspections							
Distribution				Completed Through December 2021			
System Class	Inspection Type	Facility Type	Units	Inspections Scheduled (Annual Plan)	Inspections Completed	Inspections Completed Prior to 2021 (Ahead of Cycle Plan)	Inspections Pending Outside of Plan
Distribution	Patrol	Overhead Circuits Structures & Equipment ¹	Structures	24,415	24,415	0	0
		Pad-mounted Equipment	Equipment Locations	4,224	4,224	0	0
		Underground Structures and Equipment	Structure Locations	0	0	0	0
	Detail	Overhead Circuits Structures & Equipment	Structures	17,785	17,785	0	0
		Pad-mounted Equipment	Equipment Locations	4,224	4,224	0	0
		Underground Structures and Equipment	Structure Locations	0	0	0	0
	Intrusive	Wood Poles	Poles	17,785	17,785	0	0

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

Evergy MO West Area Inspections

Intrusive Wood Pole, Overhead Circuit Structure Patrol, and Detail & Patrol of Pad-mounted Equipment were scheduled for Evergy East MO West service area in 2021.

Evergy MO West is currently on schedule for all inspection types with the first 12-year cycle spanning from 2021-2032. The current schedule for inspections is as follows:

- 1) Overhead Patrols (Cycle 3 Rural 2021-2026) (Cycle 4 Urban 2021-2024)
- 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 2, 2021-2032)

Table 2: Evergy MO West Inspection Corrective Action Inspections							
Distribution				Completed Through December 2021			
System Class	Inspection Type	Facility Type	Units	Inspections Scheduled (Annual Plan)	Inspections Completed	Inspections Completed Prior to 2021 (Ahead of Cycle Plan)	Inspections Pending Outside of Plan
Distribution	Patrol	Overhead Circuits, Structures, Equipment and Street Lights ²	Structures	32,505	32,505	0	0
		Pad-Mounted Equipment	Pads	11,706	11,706	0	0
		Underground Structures and Equipment	Structures	495	495	0	0
	Detailed	Overhead Structures, Circuits, Equipment and Street Lights	Structures	33,706	33,706	0	0
		Pad-mount Equipment	Pads	11,076	11,706	0	0
		Underground Structures and Equipment	Structures	495	495	0	0
	Intrusive	Wood Poles	Poles	33,706	33,706	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
Distribution	Detail	Overhead Circuits Structures & Equipment	Structures	70 (0.73%)	8,617 (90.25%)	860 (9.01%)
		Pad-mounted Equipment	Equipment Locations	1,287 (12.72%)	8,566 (84.69%)	262 (2.59%)
		Underground Structures and Equipment	Structure Locations	0 (0%)	8 (1.61%)	487 (98.38%)
	Intrusive	Wood Poles	Poles	26 (2.07%)	1,228 (97.93%)	0 (0%)

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 2021	CA Completed in 2021	CA Planned in 2022	CA Planned after 2022
Distribution	Patrol and Detailed Patrol	Overhead Circuits Structures & Equipment, Street Lights	Structures	5,000	6,648	4,500	4,500
		Pad-mounted Equipment	Pads	1,000	2,164	1,000	500
		Underground Structures and Equipment	Structures	60	96 ³	80	60
	Intrusive	Wood Poles	Poles	900	1,354	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 Missouri transmission lines are inspected annually by aerial and/or ground patrol, as was the case in the spring of 2021. This schedule is more rigorous than that required under the MoIR. There were 48 combined corrective actions, based on aerial and ground patrols, completed in 2021. There are 13 combined corrective actions scheduled for 2022 completion.

Detailed and intrusive inspections were completed on transmission lines in both Evergy East service areas in 2021. A total of 1,718 poles were inspected in the combined service areas, of which, 19 were found in need of corrective action. There were 16 combined corrective actions, based on detailed and intrusive inspections, completed in 2021. There are 19 poles scheduled for completion in 2022.

Table 5: Evergy MO Metro Transmission Facility Inspection Summary							
Evergy MO Metro Transmission				Completed Through December 2021			
System Class	Inspection Type	Facility Type	Units	Inspections Planned for 2021	Inspections Completed During 2021	Inspections Completed Prior to 2021 (Ahead of Plan)	Inspections Pending in 2021 Outside of Plan
Transmission	Aerial and Ground Patrol	Overhead Circuits Structures & Equipment	Structures	7,214	7,214	0	0
		Underground Structures and Equipment	Structures	22	22	0	0
	Detail and Intrusive	Wood/Steel Poles	Poles	0	0	0	0

Table 6: Evergy MO West Transmission Facility Inspection Summary							
Evergy MO West Transmission				Completed Through December 2021			
System Class	Inspection Type	Facility Type	Units	Inspections Planned for 2021	Inspections Completed During 2021	Inspections Completed Prior to 2021 (Ahead of Plan)	Inspections Pending in 2021 Outside of Plan
Transmission	Aerial and Ground Patrol	Overhead Circuits Structures & Equipment	Structures	14,833	14,833	0	0
		Underground Structures and Equipment	Structures	1	1	0	0
	Detail and Intrusive	Wood/Steel Poles	Poles	1691	1718	0	0

Table 7: Evergy MO 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
Transmission	Aerial and Ground Patrol	Overhead	Poles, Switches	11 (0.15%)	13 (0.18%)	7,190 (99.67%)
		Underground Structures	Manholes	0 (0.00%)	0 (0.00%)	22 (100.00%)
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	4 (0.00%)	0 (0.00%)	0 (0.00%)

Table 8: Evergy MO 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
Transmission	Aerial and Ground Patrol	Overhead	Poles, Switches.	37 (0.25%)	18 (0.12%)	14,778 (99.63%)
		Underground Structures	Manholes.	0 (0.00%)	0 (0.00%)	1 (100%)
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	0 (0.00%)	19 (1.11%)	1699 (98.89%)

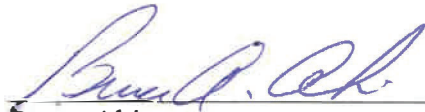
Table 9: Evergy MO Metro Transmission Corrective Action (CA) Summary							
System Class	Inspection Type	Facility Type	Component	CA Planned in 2021	CA Completed in 2021	CA Planned in 2022	CA Planned after 2022
Transmission	Aerial and Ground Patrol	Overhead Structures & Equipment	Poles, Switches	11	11	5	8
	Aerial and Ground Patrol	Underground Structures and Equipment	Manhole	0	0	0	0
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	4	4	0	0

Table 10: Evergy MO West Transmission Corrective Action (CA) Summary							
System Class	Inspection Type	Facility Type	Component	CA Planned in 2021	CA Completed in 2021	CA Planned in 2022	CA Planned after 2022
Transmission	Aerial and Ground Patrol	Overhead Structures & Equipment	Poles, Switches	18	37	8	10
	Aerial and Ground Patrol	Underground Structures and Equipment	Manhole	0	0	0	0
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	7	12	19	0

VERIFICATION

STATE OF MISSOURI)
) ss.
COUNTY OF JACKSON)

I, Bruce Akin, being duly affirmed according to law, depose and hereby state that I am authorized to make this affidavit on behalf of Evergy Missouri Metro and Evergy Missouri West,, as Vice President, and that the facts above set forth are true and correct to the best of my knowledge, information and belief.



Bruce Akin
Evergy, INC.

Subscribed and affirmed before me this 1st day of July 2022.



NOTARY PUBLIC

My Commission Expires:

4/26/2025

