

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the Matter of Evergy Metro West, Inc. d/b/a Evergy)
Missouri West’s Infrastructure Standards) Case No. EO-2024-_____
Compliance Plan Pursuant to 20 CSR 4240-23.020)

NOTICE OF COMPLIANCE FILING

Pursuant to 20 CSR 4240-23.020(3)(C) Evergy Metro West, Inc. d/b/a Evergy Missouri West (“Evergy Missouri West”) 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 27th day of September 2023 upon:

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/s/ Roger W. Steiner

Roger W. Steiner

Evergy Missouri Metro
2022 Annual Infrastructure Compliance Report
Pursuant to 20 CSR 4240-23.020

Evergy Missouri West
2022 Annual Infrastructure Compliance Report
Pursuant to 20 CSR 4240-23.020

Infrastructure Inspection and Maintenance Program

September 29, 2023

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Introduction

Evergy Missouri Metro and Evergy Missouri West (collectively, “Companies”), submit their 2022 Annual Infrastructure Compliance Reports as required under the State of Missouri’s *Electrical Corporation Infrastructure Standards*, 20 CSR 4240-23.020 (“MO CSR”). This report covers the period January 1, 2022, through December 31, 2022, 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 MO CSR. 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 2022, 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.

Evergny 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 Evergny Missouri Metro service area in 2022.

Evergny Missouri Metro 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: Evergny MO Metro Inspection Corrective Action Inspections							
Distribution				Completed Through December 2022			
System Class	Inspection Type	Facility Type	Units	Inspections Scheduled (Annual Plan)	Inspections Completed	Inspections Completed Prior to 2022 (Ahead of Cycle Plan)	Inspections Pending Outside of Plan
Distribution	Patrol	Overhead Circuits Structures & Equipment ¹	Structures	18,562	18,562	0	0
		Pad-mounted Equipment	Equipment Locations	8,745	8,745	0	0
		Underground Structures and Equipment	Structure Locations	0	0	0	0
	Detail	Overhead Circuits Structures & Equipment	Structures	22,813	22,808	0	0
		Pad-mounted Equipment	Equipment Locations	8,745	8,745	0	0
		Underground Structures and Equipment	Structure Locations	0	0	0	0
	Intrusive	Wood Poles	Poles	17,964	17,959	0	0

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

Evergny Missouri West Area Inspections

Intrusive Wood Pole, Overhead Circuit Structure Patrol, and Detail & Patrol of Pad-mounted Equipment were scheduled for Evergny East MO West service area in 2022.

Evergny 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)

Distribution				Completed Through December 2022			
System Class	Inspection Type	Facility Type	Units	Inspections Scheduled (Annual Plan)	Inspections Completed	Inspections Completed Prior to 2022 (Ahead of Cycle Plan)	Inspections Pending Outside of Plan
Distribution	Patrol	Overhead Circuits, Structures, Equipment and Street Lights ²	Structures	23,230	23,230	0	0
		Pad-Mounted Equipment	Pads	6,580	6,580	0	0
		Underground Structures and Equipment	Structures	500	500	0	0
	Detailed	Overhead Structures, Circuits, Equipment and Street Lights	Structures	28,558	28,553	0	0
		Pad-mount Equipment	Pads	6,580	6,580	0	0
		Underground Structures and Equipment	Structures	500	500	0	0
	Intrusive	Wood Poles	Poles	23,760	23,755	0	0

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

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	22 (0.34%)	1,533 (23.68%)	4,919 (75.98%)
		Pad-mounted Equipment	Equipment Locations	1,154 (6.89%)	6,706 (40.05%)	8,883 (53.06%)
		Underground Structures and Equipment	Structure Locations	11 (2.2%)	3 (0.6%)	486 (97.2%)
	Intrusive	Wood Poles	Poles	51 (0.21%)	1,267 (5.33%)	22,437 (94.45%)

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.

System Class	Inspection Type	Facility Type	Component	CA Scheduled in 2022	CA Completed in 2022	CA Planned in 2023	CA Planned after 2023
Distribution	Patrol and Detailed Patrol	Overhead Circuits Structures & Equipment, Street Lights	Structures	4,500	5,468	4,500	4,500
		Pad-mounted Equipment	Pads	1,000	4,653	500	1,000
		Underground Structures and Equipment	Structures	14	14 ³	30	30
	Intrusive	Wood Poles	Poles	900	852	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 2022. This schedule is more rigorous than that required under the MO CSR. There were 25 combined corrective actions, based on aerial and ground patrols, completed in 2022. There are 6 combined corrective actions scheduled for 2023 completion.

Detailed and intrusive inspections were completed on transmission lines in both Evergy East service areas in 2022. A total of 1,714 poles were inspected in the combined service areas, of which, 21 were found in need of corrective action. There were 23 combined corrective actions, based on detailed and intrusive inspections, completed in 2022. There are 21 poles scheduled for completion in 2022.

Table 5: Evergy MO Metro Transmission Facility Inspection Summary							
Evergy MO Metro Transmission				Completed Through December 2022			
System Class	Inspection Type	Facility Type	Units	Inspections Planned for 2022	Inspections Completed During 2022	Inspections Completed Prior to 2022 (Ahead of Plan)	Inspections Pending in 2022 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	628	671	0	0

Table 6: Evergy MO West Transmission Facility Inspection Summary							
Evergy MO West Transmission				Completed Through December 2022			
System Class	Inspection Type	Facility Type	Units	Inspections Planned for 2022	Inspections Completed During 2022	Inspections Completed Prior to 2022 (Ahead of Plan)	Inspections Pending in 2022 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	964	1043	0	0
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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	5 (0.07%)	4 (0.06%)	7,205 (99.88%)
		Underground Structures	Manholes	0 (0.00%)	0 (0.00%)	22 (100.00%)
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	0 (0.00%)	14 (2.23%)	657 (97.91%)

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.	8 (0.05%)	2 (0.01%)	14,823 (99.93%)
		Underground Structures	Manholes.	0 (0.00%)	0 (0.00%)	1 (100%)
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	19 (1.97%)	7 (0.73%)	1,017 (97.51%)

Table 9: Every MO Metro Transmission Corrective Action (CA) Summary							
System Class	Inspection Type	Facility Type	Component	CA Planned in 2022	CA Completed in 2022	CA Planned in 2023	CA Planned after 2023
Transmission	Aerial and Ground Patrol	Overhead Structures & Equipment	Poles, Switches	5	9	4	0
	Aerial and Ground Patrol	Underground Structures and Equipment	Manhole	0	0	0	0
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	0	0	14	0

Table 10: Every MO West Transmission Corrective Action (CA) Summary							
System Class	Inspection Type	Facility Type	Component	CA Planned in 2022	CA Completed in 2022	CA Planned in 2023	CA Planned after 2023
Transmission	Aerial and Ground Patrol	Overhead Structures & Equipment	Poles, Switches	8	16	2	0
	Aerial and Ground Patrol	Underground Structures and Equipment	Manhole	0	0	0	0
	Detail and Intrusive	Poles and Structures - Wood/Steel	Poles	19	23	7	0

VERIFICATION

STATE OF MISSOURI)

) ss.

COUNTY OF JACKSON)

I, Brian Mulvaney, 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 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.



Evergy Missouri Metro and Evergy Missouri West

Subscribed and affirmed before me this 27th day of September 2023.



NOTARY PUBLIC

My Commission Expires:

6/9/24

