2024 CCR SURFACE IMPOUNDMENT ANNUAL INSPECTION BY QUALIFIED PROFESSIONAL ENGINEER
40 CFR 257.83

FACILITY INFORMATION	
Facility Name / Address	La Cygne Generating Station / 25166 East 2200 Road, La Cygne, Kansas 66040
Owner	Evergy Metro, Inc.
CCR Unit	Lower AQC Impoundment
Inspection Date	October 23, 2024

CCR UNIT ANNUAL INSPECTION REPORT

Rule	Inspection Results
§257.83(b)(2)(i): ***"(2) Inspection report. The qualified professional engineer must prepare a report following each inspection that addresses the following:*** ***(i) Any changes in geometry of the impounding structure since the previous annual inspection;"***	A visual inspection of the Lower AQC impoundment and associated hydraulic structures was completed on October 23, 2024 by Mr. Daniel Wiens, a qualified professional engineer (QPE), and/or his designated representative. No changes in the geometry of the impounding structure were noted since the 2023 site inspection.
§257.83(b)(2)(ii): ***"(ii) The location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection;"***	Existing instrumentation at the Lower AQC impoundment consists of three piezometers present on the crest of the embankment and spaced around the impoundment, and one pool gauge in the southwest corner of the impoundment. The water levels in the piezometers are measured no less than every 30 days. A review of the 7 and 30-day inspection reports completed since the prior year's inspection was done. The maximum recorded readings of each instrument since the last inspection date are listed in Table 1. No issues of concern were noted.
§257.83(b)(2)(iii): ***"(iii) The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection;"***	The maximum and minimum depths of impounded water frequently change depending on rainfall, evaporation, and unit operations. At the time of inspection, the approximate maximum, minimum and present elevations of the water and CCR in the impoundment were as follows:
§257.83(b)(2)(iv): ***"(iv) The storage capacity of the impounding structure at the time of the inspection;"***	Approximately 4.7 million cubic yards[1].
§257.83(b)(2)(v):	Approximately 4.2 million cubic yards[2].

Water	Depth (ft)	Elevation (MSL)
Minimum	0	840
Maximum	17	852
Present	0-15	850
CCR	**Depth (ft)**	**Elevation (MSL)**
Minimum	0	835
Maximum	33	878
Present	0-33	835-878

"(v) The approximate volume of the impounded water and CCR at the time of the inspection;"	
§257.83(b)(2)(vi): **"(vi) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit and appurtenant structures;"**	At the time of this inspection, there were no signs of actual or potential structural weakness or existing conditions that are disrupting or have the potential to disrupt the operation and/or safety of the impoundment and appurtenant structures[3]. No signs of distress or malfunction were observed.
§257.83(b)(2)(vii): **"(vii) Any other change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection."**	There have been no changes to the impoundment that have affected the stability or operation of the impounding structure since the previous annual inspection.

1. Storage capacity calculations completed by AECOM using updated bathymetric and topographic survey dated June 23, 2016 by Tukuh Technologies and Stage-Storage Curve developed by AECOM in August 2016 for Lower AQC Impoundment at an elevation of 864 ft MSL.
2. The 2024 volume estimate was completed by SCS Engineers using the impoundment's reported 2023 volume, and water volume change based on a Google Earth area delineation for part of the Lower AQC Impoundment and water depth changes based on 30-day reports. There was no significant CCR volume change in 2024.
3. The QPE reviewed 7-day and 30-day reports as part of the annual inspection §257.83(b)(1)(i).

PROFESSIONAL ENGINEER CERTIFICATION

The undersigned registered professional engineer is familiar with the requirements of the CCR Rule and has visited and examined the CCR unit or has supervised examination of the CCR unit by appropriately qualified personnel. I hereby certify based on a review of available information within the La Cygne Generating Station's operating records and observations from my and/or my designated representative's personal on-site inspection, that this CCR unit does not exhibit any appearances of actual/potential structural weakness that would be disruptive to the safety or normal operations of the CCR unit. The unit is being operated and maintained consistent with recognized and generally accepted good engineering standards and practices. This certification was prepared as required by 40 CFR Part §257.83.

Name of Professional Engineer: Daniel Aaron Wiens, P.E.

Professional Engineer Seal:

Table 1. Highest Water Level Readings during the 2024 Inspection Period (December 2023 to December 2024)

Piezometer	Water Level Elevation (ft)
P-601	849.17
P-602	855.74
P-603	850.76
Pool Gauge	-10