2016 ANNUAL INSPECTION OF CCR SURFACE IMPOUNDMENT 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	Kansas City Power & Light Company	
CCR Unit	Lower AQC Impoundment	
Inspection Date	October 10, 2016	

ANNUAL CCR UNIT INSPECTION REPORT			
Rule	Inspection Results		
(b)(1)(i) – Review of available information.	Files available in the operating record, including but not limited to seven-day and thirty-day inspection reports dated 1/5/16 through 10/25/16 prepared by a qualified person and design and construction documentation were reviewed. No issues of concern with the CCR unit were noted.		
(b)(1)(ii) – Visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit and appurtenant structures.	A visual inspection of the CCR unit was made on October 10, 2016. No signs of distress or malfunction of the impoundment or appurtenant structures were identified.		
(b)(1)(iii) – Visual inspection of any hydraulic structures underlying the base of the CCR unit or passing through the dike of the CCR unit for structural integrity and continued safe and reliable operation.	A visual inspection of the hydraulic structures was made on October 10, 2016. Structures were observed to be visually stable. Based on visual inspection, continued safe and reliable operation is expected.		
(b)(2)(i) – Changes in geometry of the impounding structure since the previous annual inspection.	None.		
(b)(2)(ii) – Location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection.	Water level readings of three piezometers present on the crest of the embankment and water levels measured at one pool gauge present in the southwest corner of the impoundment were reviewed. No issues of concern were noted. The maximum recorded reading of each instrument since the last inspection are listed in Table 1.		
(b)(2)(iii) – Approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection.	The approximate minimum depth of water and CCR was zero to one foot. The approximate maximum depth of water and CCR was 31 and 27 feet, respectively. The elevation of the water surface in the impoundment at the time of the inspection was approximately 861 feet.		
(b)(2)(iv) — The storage capacity of the impounding structures at the time of the inspection.	Approximately 4.7 million cubic yards ¹ .		
(b)(2)(v) — Approximate volume of impounded water and CCR at the time of the inspection.	Approximately 4.3 million cubic yards ² .		
(b)(2)(vi) – 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.	None.		
(b)(2)(vii) — Other change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection.	None.		

QUALIFIED PROFESSIONAL ENGINEER		
Prepared by	Brian D. Linnap, PE	
Date	January 6, 2017	
Signature	Brundum	

- Storage capacity calculation 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.
- Volume calculation 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 861 ft. Volume includes CCR placement through June 23, 2016.



Table 1 - Highest Water Level Readings in 2016

Piezometer	Water Level Elevation (ft)
P-601	885.29
P-602	851.95
P-603	860.77
Pool Gauge	6.1