

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 Name	Kansas City Power & Light Company
CCR Unit	Upper AQC Impoundment
Inspection Date	December 23, 2015 and January 5, 2016

ANNUAL CCR UNIT INSPECTION REPORT

Rule	Inspection Results
(b)(i) – Review of available information.	Seven day and thirty day inspection reports prepared by a qualified person and design and construction documentation for the surface impoundment were reviewed. No issues of concern were noted.
(b)(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 December 23, 2015 and January 5, 2016. No signs of distress or malfunction of the impoundment or appurtenant structures were identified.
(b)(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 December 23, 2015 and January 5, 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. This is the first inspection by a qualified professional engineer under the CCR Rule.
(b)(2)(ii) – Location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection.	This is the first inspection by a qualified professional engineer under the CCR Rule. Water level readings of nine open standpipe piezometers present on the crest of the embankment and spaced around the impoundment were reviewed. No issues of concern were noted.
(b)(2)(iii) – Approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection.	This is the first inspection by a qualified professional engineer under the CCR Rule. The approximate depth of water over the impoundment is one foot except in the area of the principal spillway. The depth of water and CCR near the principal spillway was approximately 40 feet. The elevation of the water at the time of the inspection was approximately 887 feet. Dry CCR is being placed above this elevation to dewater and stabilize the wet CCR.
(b)(2)(iv) – The storage capacity of the impounding structures at the time of the inspection.	Approximately 13 million cubic yards.
(b)(2)(v) – Approximate volume of impounded water and CCR at the time of the inspection.	Approximately 12.5 million cubic yards.
(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. This is the first inspection by a qualified professional engineer under the CCR Rule.

QUALIFIED PROFESSIONAL ENGINEER

Prepared by	Brian D. Linnan, PE
Date	January 19, 2016
Signature	

