

2017 ANNUAL INSPECTION OF CCR SURFACE IMPOUNDMENT BY QUALIFIED PROFESSIONAL ENGINEER
40 CFR 257.83

FACILITY INFORMATION

Facility Name / Address	Sibley Generating Station / 33200 East Johnson Road Sibley, Missouri 64088
Owner Name	KCP&L Greater Missouri Operations Company
CCR Unit	Fly Ash Impoundment
Inspection Date	November 14, 2017

INSPECTION REPORT CLOSURE PLAN DESCRIPTION

Rule	Inspection Results
(b)(1)(i) – Review of available information.	Files available in the operating record, including but not limited to seven-day inspection reports dated 11/4/16 through 10/25/17 prepared by a qualified person, and design and construction documentation were reviewed. No issues of concern 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 November 14, 2017. 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 concrete hydraulic structure was made on November 14, 2017. The structure was 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.	No instrumentation is present.
(b)(2)(iii) – Approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection.	The water surface elevation at the time of the inspection was approximately 7 feet below the crest of the embankment, near elevation 718. The depth of water and CCR in the impoundment is approximately 11 feet.
(b)(2)(iv) – The storage capacity of the impounding structures at the time of the inspection.	Approximately 380,000 cubic yards ¹ .
(b)(2)(v) – Approximate volume of impounded water and CCR at the time of the inspection.	Approximately 354,000 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	Patrick M. Goeke, P.E.
Date	January 9, 2018
Signature	



1. Storage capacity calculation completed by AECOM in 2016.
2. Volume of impoundment water and CCR was decreased slightly relative to the 2016 reported volume by removal of CCR from the impoundment and a lower water level (4 feet).