

**ANNUAL CCR SURFACE IMPOUNDMENT
INSPECTION REPORT (per 40 CFR 257.83(b)(2))**

Power Station: Duck Creek Power Station

Owner: Illinois Power Resources Generating, LLC

CCR Impoundment: Ash pond No. 1

Date of Inspection: 9/30/2016

Name of Qualified Professional Engineer: James Knutelski, P.E. and Jason Campbell, P.E.

In accordance with 40 CFR § 257.83(b)(1), an existing or new CCR surface impoundment or any lateral expansion of the CCR surface impoundment that is subject to the periodic structural stability assessment requirements under § 257.73(d) or § 257.74(d) must be inspected on a periodic basis (annually per 40 CFR § 257.83(b)(4)) by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards. The inspection must, at a minimum, include: (i) A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (e.g., CCR unit design and construction information required by §§ 257.73(c)(1) and 257.74(c)(1), previous periodic structural stability assessments required under §§ 257.73(d) and 257.74(d), the results of inspections by a qualified person, and results of previous annual inspections); (ii) A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit and appurtenant structures; and (iii) A 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.

Inspection Report 40 CFR § 257.83(b)(2)

The inspection included a review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record, previous periodic structural stability assessments required under §§ 257.73(d) (if any), and the results of inspections by a qualified person and previous annual inspections; a visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit and appurtenant structures; and a visual inspection of hydraulic structures (if any) 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.

Based on the inspection, the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards. The following information is provided in accordance with 40 CFR § 257.83(b)(2).

- i) Have there been any changes in geometry of the impounding structure since the previous annual inspection? If yes, please explain.

Based on a visual inspection of the impoundment and any hydraulic structures present, as well as a review of previous inspection report there are no changes.

- ii) Instrumentation
(Please see following page for instrumentation location map)

Instrument ID #	Type	Maximum recorded reading since previous annual inspection (ft)
B5	Piezometer	590.8'

iii)	Since previous annual inspection:	Approximate Depth / Elevation					
		Elevation (ft)			Depth (ft)		
		Minimum	Present	Maximum	Minimum	Present	Maximum
	Impounded Water		625			3 - 5	
	CCR	622		660	52		90

- iv) Storage capacity of the impounding structure at the time of the inspection (acre-ft): 3200
- v) Approximate volume of the impounded water and CCR at the time of the inspection (acre-ft): 2015
- vi) Are there 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?

None

- vii) Are there any other changes which may have affected the stability or operation of the impounding structure since the previous annual inspection?

None

I, James Knutelski, P.E, certify under penalty of law that the information submitted in this report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Illinois. The information herein is to the best of my knowledge and belief, true, accurate and complete.

Dated: 1/18/2017



James Knutelski

Duck Creek

Ash Pond No. 1

Legend

● Feature 1

Google earth

900 ft

