CLOSURE PLAN FOR EXISTING CCR SURFACE IMPOUNDMENT 40 CFR 257.102(b) REV 0 – 11/18/2015 REV 1 – 10/17/2016

SITE INFORMATION			
Site Name / Address	Wood River Power Station / #1 Chesson Lane, Alton, IL 62002		
Owner Name / Address	Dynegy Midwest Generation	, LLC / 1500 Eastport Plaza	Drive, Collinsville, IL 62234
CCR Unit	West Ash Pond 2W	Closure Method and Final Cover Type	Close In-Place Geomembrane with Soil and Vegetation Cover
CLOSURE PLAN DESCRIPTION			
(b)(1)(i) – Narrative description of how the CCR unit will be closed in accordance with this section.	The West Ash Pond 2W will be dewatered, as necessary, to facilitate closure by leaving CCR in place. The CCR in the West Ash Pond 2W will be shaped and graded. The fina cover will be sloped to promote drainage and stormwater runoff to a series of drainage channels on the cover system. Stormwater runoff will be routed from the drainage channels to culvert pipes, which lead to the existing (non-CCR) Pond 3. In accordance with 257.102(b)(3), this written closure plan will be amended to provide additiona details after the final engineering design for the grading and cover system is completed, if the final design would substantially affect this written closure plan. This closure plan reflects the information available to date.		
(b)(1)(iii) – If closure of the CCR unit will be accomplished by leaving CCR in place, a description of the final cover system and methods and procedures used to install the final cover.	The final cover system will be installed in direct contact with the graded CCR material and will include (from bottom up): 1) geomembrane; 2) a geocomposite drainage layer; 3) 18" of earthen material; 4) 6" of soil capable of sustaining native plant growth; and 5) planted native grasses. CCR material will be relocated or regraded as fill and supplemented with borrow soils as necessary to achieve design grades. The geomembrane will be installed directly on top of the graded CCR material. A geocomposite drainage layer will be installed directly over the geomembrane. Eighteen inches of earthen material will be placed on the underlying geosynthetics and graded to meet the thickness and slope as discussed above for the cover system. Organic earthen material will then be placed on top of the 18-inches of soils to create a 6" soil layer capable of sustaining native plant growth. The final cover surface will be graded to convey stormwater runoff to drainage channels, to the existing (non-CCR) Pond 3.		
(b)(1)(iii) – How the final cover system w	ill achieve the performance standa	rds in 257.102(d).	
(d)(1)(i) Control, minimize or eliminate, to the maximum extent feasible, post-closure infiltration of liquids into the waste and releases of CCR, leachate, or contaminated run-off to the ground or surface waters or to the atmosphere.		less than the permea present below the CC greater than 1x10 ⁻⁵ c geomembrane layer wi	e final cover will be equal to o ability of the natural subsoil R material or permeability no m/sec, whichever is less. A Il be included in the final cove er system will be graded with a
(d)(1)(ii) – Preclude the probability of future impoundment of water, sediment, or slurry.			installed with a minimum 2% nels will be installed with a
(d)(1)(iii) – Include measures that provide for major slope stability to prevent the sloughing or movement of the final cover system during the closure and post-closure care period.		drainage channels will Drainage channels will mats where required erosion. The final slope	we a minimum 2% slope and have minimum 0.5% slope. be lined with turf reinforced to reduce the potential for e of the berms and cover will irements to prevent sloughing al cover system.
(d)(1)(iv) – Minimize the need for further maintenance of the CCR unit.		The final cover will be and maintenance.	vegetated to minimize erosion
(d)(1)(v) – Be completed in the shortest amount of time consistent with recognized and generally accepted good engineering practices.			be completed no later than five nent of closure activities.

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CLOSURE PLAN DESCRIPTION			
(d)(2)(i) – Free liquids must be eliminated by removing liquid wastes or solidifying the remaining wastes and waste residue.	The unit will be dewatered suf to remove the free liquids to pr the construction of the final cove	ovide a stable base for	
(d)(2)(ii) – Remaining wastes must be stabilized sufficiently to support the final cover system.	Dewatering as necessary and re place CCR will sufficiently stabili the final cover will be supported	ze the waste such that	
(d)(3) – A final cover system must be installed to minimize infiltration and erosion, and at minimum, meets the requirements of (d)(3)(i).	Itration and The final cover will consist of geomembrane, a geocomposite drainage layer and a minimum 18" earthen material layer. Erosion will be minimized with a soil layer of no less than 6" of earthen material capable of sustaining native plant growth. The final cover surface will be seeded and vegetated.		
(d)(3)(i) – The design of the final cover system must be included in the written closure plan.	When the design of the final cover system is completed, the written closure plan will be amended if the final design would substantially change this written closure plan. The design of the final cover system will meet the requirements of §(d)(3)(i)(A)–(D) as described below.		
(d)(3)(i)(A) – The permeability of the final cover system must be less than or equal to the permeability of any bottom liner system or natural subsoils present, or a permeability no greater than 1×10^{-5} cm/sec, whichever is less.	The permeability of the final cover will be equal to or less than the permeability of the natural subsoils or no greater than 1×10^{-5} cm/sec, whichever is less. The cover system will include a geomembrane layer.		
(d)(3)(i)(B) – The infiltration of liquids through the closed CCR unit must be minimized by the use of an infiltration layer than contains a minimum of 18 inches of earthen material.	The final cover will include a geomembrane, a geocomposite drainage layer and a minimum 18" of earthen material. The cover system will include a geomembrane layer.		
(d)(3)(i)(C) – The erosion of the final cover system must be minimized by the use of an erosion layer that contains a minimum of six inches of earthen material that is capable of sustaining native plant growth.	The final cover will include a minimum 6" of an earthen erosion layer that is capable of sustaining native plant growth. The final cover will be seeded and vegetated.		
(d)(3)(i)(D) – The disruption of the integrity of the final cover system must be minimized through a design that accommodates settling and subsidence.	The final cover will be installed with a minimum 2% slope and will incorporate calculated settlement as well as differential settling and subsidence.		
INVENTORY AND AREA ESTIMATES			
(b)(1)(iv) – Estimate of the maximum inventory of CCR ever on-site over the active life of the CCR unit 350,000 cub			
(h)(1)(y) = Estimate of the largest area of the CCP unit over requiring a final cover		20.4 geres	

(b)(1)(iv) – Estimate of the maximum inventory of CCR ever on-site over the active life of the CCR unit	350,000 cubic yards
(b)(1)(v) – Estimate of the largest area of the CCR unit ever requiring a final cover	20.4 acres

CLOSURE SCHEDULE					
which all closure activities for the CCR unit will be comp	leted. The schedul	osure criteria in this section, including an estimate of the year in e should provide sufficient information to describe the sequential d the estimated timeframes to complete each step or phase of CCR			
The milestone and the associated timeframes are estimates. Some of the activities associated with the milestones will overlap. Amendments to the milestones and timeframes will be made as more information becomes available.					
Written Closure Plan		November 18, 2015 REV 1 October 17, 2016			
Notification of Intent to Close Placed in Operating Record	November 18, 2015. Closure to commence in accordance with the applicable timeframes in 40 CFR 257.102(e).				
Agency coordination and permit acquisition Coordinating with state agencies for compliance Acquiring state permits 		Year 1 – 5 (estimated) Year 1 – 2 (estimated)			
Mobilization		Year 1 (estimated)			
Dewater and stabilize CCR Complete dewatering, as necessary Complete stabilization of CCR 	Year 2 – 5 (estimated) Year 2 – 5 (estimated)				
Grading Grading of CCR material in pond to facilitate surface water drainage		Year 2 – 5 (estimated)			
Installation of final cover		Year 2 – 5 (estimated)			
Estimate of Year in which all closure activities will be com	pleted	Year 5			
AMENDMENT AND CERTIFICATION					
(b)(3)(i) – The owner or operator may amend the initial or any subsequent written closure plan developed pursuant to 257.102(b)(1) at any time.	This closure plan will be amended as required by 257.102(b)(3) and, as allowed by 257.102(b)(3), may be amended at any time, including as more information becomes available.				
(b)(3)(ii) – The owner or operator must amend the written closure plan whenever: (A) There is a change in the operation of the CCR unit that would substantially affect the written closure plan in effect; or (B) Before or after closure activities have commenced, unanticipated events necessitate a revision of the written closure plan.					
(b)(3)(iii) – The owner or operator must amend the closure plan at least 60 days prior to a planned change in the operation of the facility or CCR unit, or no later than 60 days after an unanticipated event requires the need to revise an existing written closure plan. If a written closure plan is revised after closure activities have commenced for a CCR unit, the owner or operator must amend the current closure plan no later than 30 days following the triggering event.					
(b)(4) – The owner or operator of the CCR unit must obtain a written certification from a qualified professional engineer that the initial and any amendment of the written closure plan meets the requirements of this 40 CFR 257.102.	Certification by a qualified professional engineer will be appended to this plan.				

Certification Statement 40 CFR § 257.102(d)(3)(iii) – Design of the Final Cover System for a CCR Surface Impoundment

CCR Unit: Dynegy Midwest Generation, LLC; Wood River Power Station; West Ash Pond 2W

I, Victor Modeer, being a Registered Professional Engineer in good standing in the State of Illinois, do hereby certify, to the best of my knowledge, information, and belief that the information contained in this certification has been prepared in accordance with the accepted practice of engineering. I certify, for the above referenced CCR Unit, that the design of the final cover system as included in the written closure plan revision 1, dated October 17, 2016, meets the requirements of 40 CFR § 257.102.

Victor Modeer, PE, D.GE

Printed Name

10/17/12

Date



Certification Statement 40 CFR § 257.102(b)(4) –Written Closure Plan for a CCR Surface Impoundment

CCR Unit: Dynegy Midwest Generation, LLC; Wood River Power Station; West Ash Pond 2W

I, Victor Modeer, being a Registered Professional Engineer in good standing in the State of Illinois, do hereby certify, to the best of my knowledge, information, and belief that the information contained in this certification has been prepared in accordance with the accepted practice of engineering. I certify, for the above referenced CCR Unit, that the information contained in the written closure plan revision 1, dated October 17, 2016, meets the requirements of 40 CFR § 257.102.

Victor Modeer, PE, D.GE

Printed Name

10/17/16

Date

