

**CHOLLA POWER PLANT
CLOSURE PLAN §257.102(b)
SEDIMENTATION POND
Amendment 1 (November 4, 2020)**

Closure Plan Contents §257.102(b)(1)

The owner or operator of a CCR unit must prepare a written closure plan that describes the steps necessary to close the CCR unit at any point during the active life of the CCR unit consistent with recognized and generally accepted good engineering practices. The written closure plan must include, at a minimum, the information specified in paragraphs (b)(1)(i) through (vi) of this section.

Prepared for Arizona Public Service by AECOM Technical Services, Inc. (AECOM)	
CLOSURE PLAN AMENDMENTS	
Initial	October 17, 2016
Amendment 1	November 4, 2020 Updated Schedule for Closure
SITE INFORMATION	
Site Name / Address	Cholla Power Plant / 4801 I-40 Frontage Road, Joseph City, AZ 86032
Owner Name / Address	Arizona Public Service / 400 North 5 th Street, Phoenix, AZ 85004
CCR Unit	Sedimentation Pond
Location	34° 56' 30" N, 110° 18' 15" W
Reason for Initiating Closure	Permanent cessation of a coal-fired boiler(s) by a date certain
Final Cover Type	Backfill with native soil and grade to drain
Closure Method	Closure by Removal
CLOSURE PLAN DESCRIPTION	
(b)(1)(i) – A narrative description of how the CCR unit will be closed in accordance with this section.	<p>The Sedimentation Pond is a partially excavated pond that was placed into service in 1976. It has two cells with a maximum depth of 10 feet, a surface area of approximately 1.6 acres, and a capacity of approximately 10.7 acre-feet. The pond is excavated on all but the southeast side, which was constructed as an earthen perimeter dike with a concrete spillway.</p> <p>The Sedimentation Pond will be dewatered to facilitate closure by removal. The pond will be excavated to remove the CCR and the area will be backfilled with compacted soil and graded to drain.</p>

	<p>Closure operations will involve:</p> <ol style="list-style-type: none"> 1) Removing the existing CCR and the concrete spillway from the basin, 2) Placing compacted soil to fill the basin, 3) Grading the compacted soil to drain. <p>In accordance with §257.102(b)(3), this initial written closure plan will be amended to provide additional details after the final engineering design for the grading and cover system is completed. The initial version of the closure plan reflects the information and planning available at the time of issuance.</p> <p>The initial written closure plan was dated October 17, 2016. In accordance with §257.102(b)(3), this amendment to the initial written closure plan provides updated details that reflect the final plan for closure.</p>
<p>(b)(1)(ii) – If closure of the CCR unit will be accomplished through removal of CCR from the CCR unit, a description of the procedures to remove the CCR and decontaminate the CCR unit in accordance with paragraph (c) of this section.</p>	<p>Applicable. The Sedimentation Pond will be closed by removing CCR in accordance with §257.102(c).</p> <p>CCR removal operations will consist of dewatering the existing Sedimentation Pond and removing CCR deposits using conventional excavators and loaders. The CCR material will be removed and transported to the Bottom Ash Pond and/or the Fly Ash Pond to be used as fill for the closure of either or both of these CCR units.</p>
<p>(b)(1)(iii) – If closure of the CCR unit will be accomplished by leaving CCR in place, a description of the final cover system, designed in accordance with paragraph (d) of this section, and the methods and procedures to be used to install the final cover. The closure plan must also discuss how the final cover system will achieve the performance standards specified in paragraph (d) of this section.</p>	<p>Not applicable. The Sedimentation Pond will be closed by removing CCR in accordance with §257.102(c).</p>

<p>(c) – CCR removal and decontamination of the CCR unit are complete when constituent concentrations throughout the CCR unit and any areas affected by releases from the CCR unit have been removed and groundwater monitoring concentrations do not exceed the groundwater protection standard established pursuant to §257.95(h) for constituents listed in appendix IV to this part.</p>	<p>The Sedimentation Pond will be dewatered and existing CCR will be removed. The groundwater monitoring wells surrounding the Sedimentation Pond will be monitored semiannually for the constituents listed in appendix IV to Part 257.</p>
<p>INVENTORY AND AREA ESTIMATES</p>	
<p>(b)(1)(iv) – An estimate of the maximum inventory of CCR ever on-site over the active life of the CCR unit.</p>	<p>5,200 cubic yards</p>
<p>(b)(1)(v) – An estimate of the largest area of the CCR unit ever requiring a final cover as required by paragraph (d) of this section at any time during the CCR unit’s active life.</p>	<p>1.6 acres</p>
<p>CLOSURE SCHEDULE</p>	
<p>(b)(1)(vi) – A schedule for completing all activities necessary to satisfy the closure criteria in this section, including an estimate of the year in which all closure activities for the CCR unit will be completed. The schedule should provide sufficient information to describe the sequential steps/milestones that will be taken to close the CCR unit, and the estimated timeframes to complete each step or phase of CCR unit closure. If closure timeframe is anticipated to exceed the timeframes specified in paragraph §257.102(f)(1) of this section, the written closure plan must include the site-specific information, factors and considerations that would support any time extension sought under paragraph §257.102(f)(2).</p>	
<p>The milestone and the associated timeframes are initial 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.</p>	
<p>Initial Written Closure Plan Completed</p>	<p>October 17, 2016</p>
<p>Closure Plan Amendment 1</p>	<p>November 2020</p>
<p>Permits and Approvals from Agencies</p>	<p>April 2021 (estimated)</p>
<p>Date of Final Receipt or Removal of CCR</p>	<p>October 2020</p>
<p>Closure Activities Initiated</p>	<p>August 2020</p>
<p>Complete Dewatering</p>	<p>July 2021 (estimated)</p>
<p>Complete CCR Excavation (Removal)</p>	<p>August 2021 (estimated)</p>
<p>Backfill of Excavation</p>	<p>Prior to October 2021</p>
<p>Estimated Completion of Closure Activities</p>	<p>Prior to October 2021</p>

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

CCR Unit: Arizona Public Service; Cholla Power Plant; Sedimentation Pond

I, David E. Mickanen, being a Registered Professional Engineer in good standing in the State of Arizona, 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 amended written closure plan dated November 4, 2020 meets the requirements of 40 CFR § 257.102.

David E. Mickanen, P.E.

Printed Name

November 4, 2020

Date



