

Closure Plan

Sluice Outfall

Otter Tail Power Company - Coyote Station

Introduction

This Closure Plan (Plan) has been written for the Coyote Station Sluice Outfall in accordance with 40 CFR 257. This Plan outlines the requirements, procedure and schedule for clean closure of the Sluice Outfall.

The Sluice Outfall is an unlined, incised CCR surface impoundment and is included in a combined groundwater monitoring network that encompasses the Nelsen Pond and Slag Pond CCR units. This plan details closure of the Sluice Outfall only. Closure of the Nelsen Pond and Slag Pond is addressed in separate plans.

Closure Procedures §257.102(b)(1)(i)-(ii)

The Sluice Outfall will be closed using clean closure techniques in accordance with §257.102(c). CCR will be removed from the Sluice Outfall using common earthmoving equipment and will be beneficially used or disposed of in the Blue Pit.

A qualified third-party will visually inspect the Sluice Outfall to ensure all CCR has been removed. Groundwater monitoring will continue until constituent concentrations throughout the CCR unit or any areas affected by releases of CCR are below the groundwater protection standard established by §257.95(h) and constituents listed in appendix IV to Part 257. At that point closure of the Sluice Outfall will be deemed complete.

Quantity of Ash §257.102(b)(1)(iv)-(v)

The Sluice Outfall is periodically excavated to restore capacity. Approximately 15,000 cubic yard of CCR is the maximum volume stored at one time in the unit. The Sluice Outfall footprint is approximately 1.5 acres and the entire area will be subject to closure requirements.

Closure Schedule §257.102(b)(1)(vi)

The current plan is to use the Sluice Outfall for the life of the generating facility. If plant operations change such that Sluice Outfall is no longer needed, or there are significant environmental impacts, closure will commence.

The owner or operator of the CCR unit will commence closure activities no later than 30 days after the last known receipt of waste or removing the last amount of CCR from the unit for beneficial use in accordance with §257.102(e)(1)(i). Completion of closure activities will occur as specified in §257.102(f)(i). See Figure 1 for more details of closure.

Notification of Closure §257.102(g)

A notification of intent (NOI) will be placed in the facility's operating record and CCR website as required by § 257.107(i). The estimated timeframe for closure of the Sluice Outfall is presented in Figure 1, and is subject to change.

Certification of Final Closure §257.102(h)

Upon completion of closure activities a documentation report will be prepared that states the unit has been closed in accordance with §257.102(c) and §257.107(i). The report will be signed by an authorized officer of Otter Tail Power Company and a professional engineer licensed in North Dakota, then placed in the facility's operating record and posted on the CCR website within 30 days of completion of closure. The report will contain record drawings, testing data and a description of the construction process with photographs.

Deed Notation §257.102(i)(4)


A deed notation is not required as the unit will be closed by removal.

Amendment of Final Closure Plan §257.102(b)(3)

If any event or change affects the plan, an amended Closure Plan will be prepared and placed in the facility's operating record and posted on the CCR website. This applies to any change in the Operations and Maintenance Plan, facility design, or estimated year of closure. At a minimum, the Closure Plan will be reviewed and updated, if necessary, every five years beginning with this version of the Closure Plan.

Certification §257.102(b)(4)

I hereby certify under penalty of law that this report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



John McCain, PE
License No. PE-4345

October 17th, 2016
Date

FIGURE 1 – SLUICE OUTFALL CLOSURE SCHEDULE

