public power generation agency

HASTINGS UTILITIES

CCR Temporary Ash Disposal Area

2015 Annual Inspection Report

Gerald T. Whelan Energy Center

Hastings, NE

May 31, 2016

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Professional Engineer Certification

" I hereby certify that the CCR Temporary Ash Disposal Area at the Whelan Energy Center, operated by Hastings Utilities, was inspected and this report prepared in accordance with the Coal Combustion Residual Rule 40 CFR 257.84(B). I am duly licensed Professional Engineer under the laws of the State of Nebraska".

Print Name: Marty Stange

Signature: Marty Stange

Date: 5/31/16

License #: E-6129

PROFESSIONAL CIVIL ENGINEER
5/31/16
MARTY A.
STANGE
E-6129
STATE OF NEBRASKA

1. Introduction

On April 17, 2015 the U.S. Environmental Protection Agency (EPA) published the final rule for the regulation and management of coal combustion residuals (CCR) under Subtitle D of the Recourse Conservation and Recovery Act (RCRA). The CCR rule defines a set of requirements for the disposal and handling of CCR within CCR units (defined as either landfills or surface impoundments).Section 40 SFR 257.84(b) specifies that an owner or an operator of a CCR landfill must have the landfill inspected on a periodic basis by a qualified professional engineer.

2. Review of available information (40CFR 257.84(B)(1)(i))

- The CCR Landfill weekly inspection records (per Section 257.84(a)) from October 19,2015 through December 31,2015
- CCR Fugitive Dust Control Plan
- NDEQ Title 132 Permit , NDEQ Permit # NE0204129

Review of the above documents did not uncover any unresolved issues that indicated operation, safety or structural concerns of the Whelan Energy Center Landfill.

3. Visual Site Inspection (40CFR 257.84(B)(1)(ii))

A site inspection of the Whelan Energy Center was performed on December 10, 2015 by Environmental Engineer, Marina Richards. The site inspection was performed in advanced prior to snow cover.

Weather condition at the time of inspection was partly cloudy, windy, with 50F-52F temperature. The site was free of snow cover.

3.1 Extent of Inspection

The inspection included an extensive site walk of the entire CCR landfill. As the CCR rule only requires the inspection of the active CCR landfill itself, this report doesn't address the condition of the groundwater monitoring system, access roads beyond the landfill perimeter, grades and drainage channels that are not components of the active CCR landfill.

3.2 Inspection Findings

The following are the findings of the CCR landfill inspection:

- Separate stockpile of ash was presented within the footprint and located within the perimeter of the CCR landfill for the beneficial reuse.
- The perimeter road appeared to be in good condition.
- Minor erosion on N. Side. Installed new berm.
- Dust control as needed.
- Most trees have been removed by the Contractor.
- Culverts around the perimeter appeared to be free flowing with no current blockage.

4. Changes in Geometry

The CCR Rule requires that the site geometry changes be identified since the last annual inspection. Since this is the first inspection, the geometry changes will be addressed in the next annual inspection report. Boundary of the lagoon is within the location of bollards. All the CCR activities are within this boundary.

5. Approximate CCR Volume

As of the end of 2015:

- Pond Ash in storage : 256,600.00 cyds
- Scrubber Pond Ash in storage: 69,305 cyds

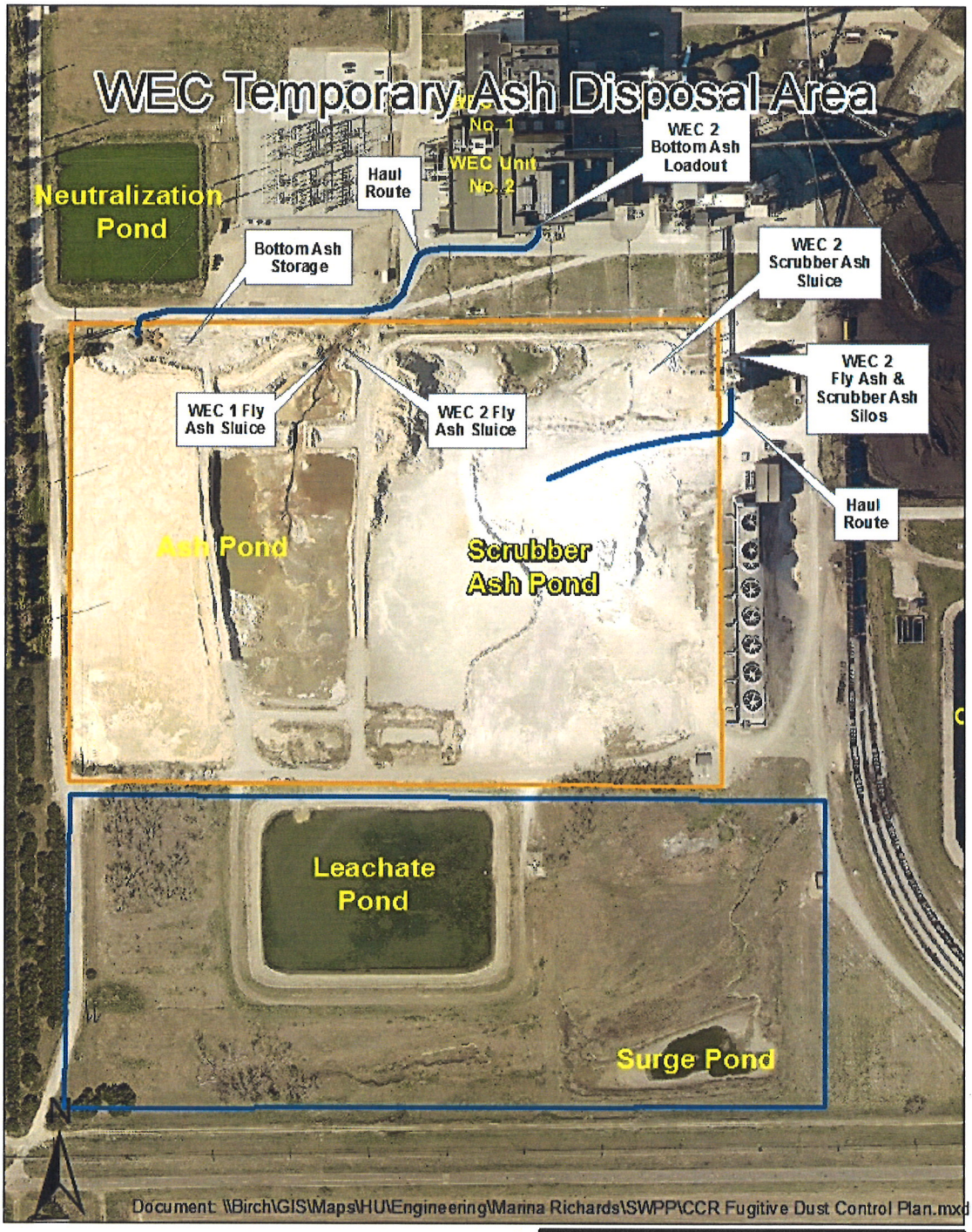
6. Structural Integrity of the CCR

Based on the observation made during the perimeter inspection and physical walk around CCR landfill there were no apparent or potential structural weaknesses were observed.

7. Changes Affecting Stability or Operation

The CCR rule requires identification of changes that effect site stability or operation of the CCR be identified since the last annual inspection. Since this is the first annual inspection, changes will be described in the next inspection report.

Facility Site Map



Legend

CCR Boundary

Leachate Pond Boundary

Public Power Generation Agency Hastings Utilities Whelan Energy Center CCR Fugitive Dust Control Plan	May 2016
	Figure 1

PPGA/Hastings Utilities
Whelan Energy Center Ash Disposal Area
CCR Yearly Inspection Summary
(per 40 CFR §257.83)

Reporting Year: 2015 (Initial report - October 19 to December 31)

Component	Active CCR Placement/CCR Fill				Hydraulic Structures through CCR dikes (Spillways/ Culverts)	Number of Public Complaints	Comment/Corrective Action
	Embankments Structural Stability	CCR Fill Stability/ Waste Boundary	CCR Sluice Discharge	CCR Fugitive Dust Control			
	Y/N	Y/N	Y/N	Y/N	Y/N		
January							
February							
March							
April							
May							
June							
July							
August							
September							
October	Y/N	Y/N	Y/N	Y/N	Y/N	0	Possible berm extension on N.Side. Very Little erosion. Dust Control as needed. Some discoloration.
November	Y/N	Y/N	Y/N	Y/N	Y/N	0	Small dust control.
December	Y/N	Y/N	Y/N	Y/N	Y/N	0	Most trees have been removed by Contractor.
Remarks/General Discussion on Corrective Actions	Most trees have been removed by the Contractor. Dust Control as needed.						