

# **Coal Ash Disposal Landfill Annual Site Inspection**

NELSON POWER GENERATING STATION

*Prepared For:*

**ENTERGY LOUISIANA, LLC – NELSON POWER GENERATING STATION  
3500 HOUSTON RIVER ROAD, WESTLAKE, LA 70669**

*Prepared By:*

*Consultant:*

**Terry Elnaggar, PE  
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New Orleans, LA 70112  
(504) 799-3653**



January 2016

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## **1.0 Introduction**

In accordance with 40 CFR 257.84, the Unit 6 Coal Ash Disposal Landfill (CADL) at the Nelson Coal Generating Station (Nelson Plant) is required to perform weekly and annual inspections for actual or apparent structural weakness and other conditions which are disrupting or have the potential to disrupt the operation or safety of the Coal Combustion Residuals (CCR) landfill. The site is located as shown on Figure 1.

Pivotal Engineering LLC (Pivotal) was retained by Entergy Louisiana, LLC (Entergy) to assist in developing the weekly inspection criteria and conduct the annual inspection of the CADL. The weekly inspections are conducted by trained on-site personnel. Pivotal conducted the annual inspection on December 10, 2015.

## **2.0 Review of Available Information**

Pivotal reviewed all weekly inspection reports up to the current date beginning with the CCR rule effective date October 19, 2015. Additionally, Pivotal visited the landfill operator's office, conducted interviews and reviewed records. The weekly inspection reports are included in Attachment 1. The weekly inspection reports did not note any of the following concerns:

- Signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure,
- Signs of tension or other types of cracks or separation at the surface or slopes,
- Signs of erosion from storm water runoff or damage to stormwater control facilities, and
- Signs of burrowing or tunneling mammals that could lead to stability issues.

Additionally, Pivotal's discussion with the landfill operator did not indicate that there were issues regarding the stability of the landfill or the stockpiles of coal ash.

## **3.0 Visual Inspection**

On December 10, 2015, Pivotal made a visual inspection of the CADL. Pivotal engineers walked the entire perimeter of the landfill and inspected internal stockpiles for the following inspection requirements:

- Any changes in geometry of the structure since the previous annual inspection;
- The approximate volume of the CCR contained in the unit at the time of the inspection;
- 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

- Any other changes which may have affected the stability or operation of the CCR unit since the previous annual inspection.

The photographs are included in Attachment 2. The locations of the photographs are shown on Figure 2.

Since the CCR rule became effective on October 19, 2015, this was first annual inspection. Prior to the rule's effective date, Pivotal made an initial inspection on June 30, 2015. During this initial inspection, Pivotal noted areas to improve levee stability. The landfill operator made these improvements prior to October 19, 2015. During Pivotal's December 10, 2015 inspection, no issues were noted that would affect the stability or operation of the CCR unit.

Minor changes to the geometry of the internal stockpiles at the CADL were noted but there were no changes to the perimeter levees. The minor changes to the internal stockpiles do not affect the stability of the CCR unit.

The approximate volume of the CADL is 330,000 cubic yards based on topographic surveys conducted during May and October 2015. The volume of the CADL at the time of the inspection was estimated to be approximately this amount.

#### 4.0 Summary

On December 10, 2015, Pivotal conducted the first required annual inspection of the CADL required under 40 CFR 257.84. The CADL was inspected to ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted engineering standards.

Pivotal did not note any issues affecting the stability of the CCR landfill or conditions that are disrupting or could have the potential to disrupt the operation of the CADL.

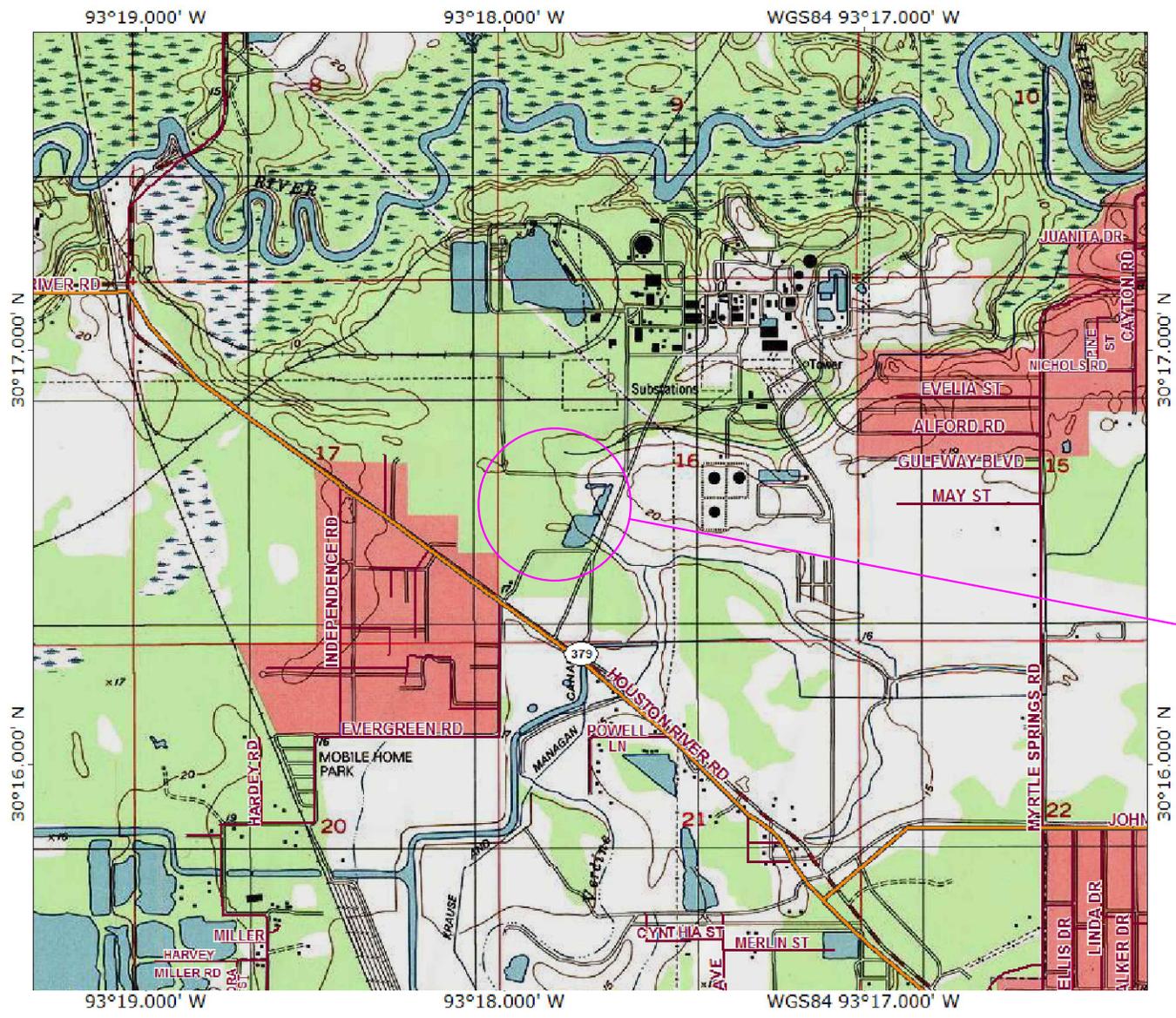
#### 5.0 Certification

I hereby certify that I have inspected the facility and being familiar with the provisions of 40 CFR, Part 257.84.

Signature:   
Engineer: Tarek Elmaggar, PE  
Registration No: 23832  
State: Louisiana  
Date: 1/4/16



## FIGURES



SITE LOCATION

**COAL ASH DISPOSAL LANDFILL  
SITE LOCATION MAP**

**NELSON COAL GENERATING STATION**  
3500 HOUSTON RIVER ROAD, WESTLAKE, LOUISIANA

 **Pivotal Engineering LLC**  
CIVIL, ELECTRICAL, ENVIRONMENTAL & MECHANICAL ENGINEERING  
1515 POYDRAS STREET, STE. 1875  
NEW ORLEANS, LA. 70112  
(504) 799-3653 (504) 799-3654(FAX)

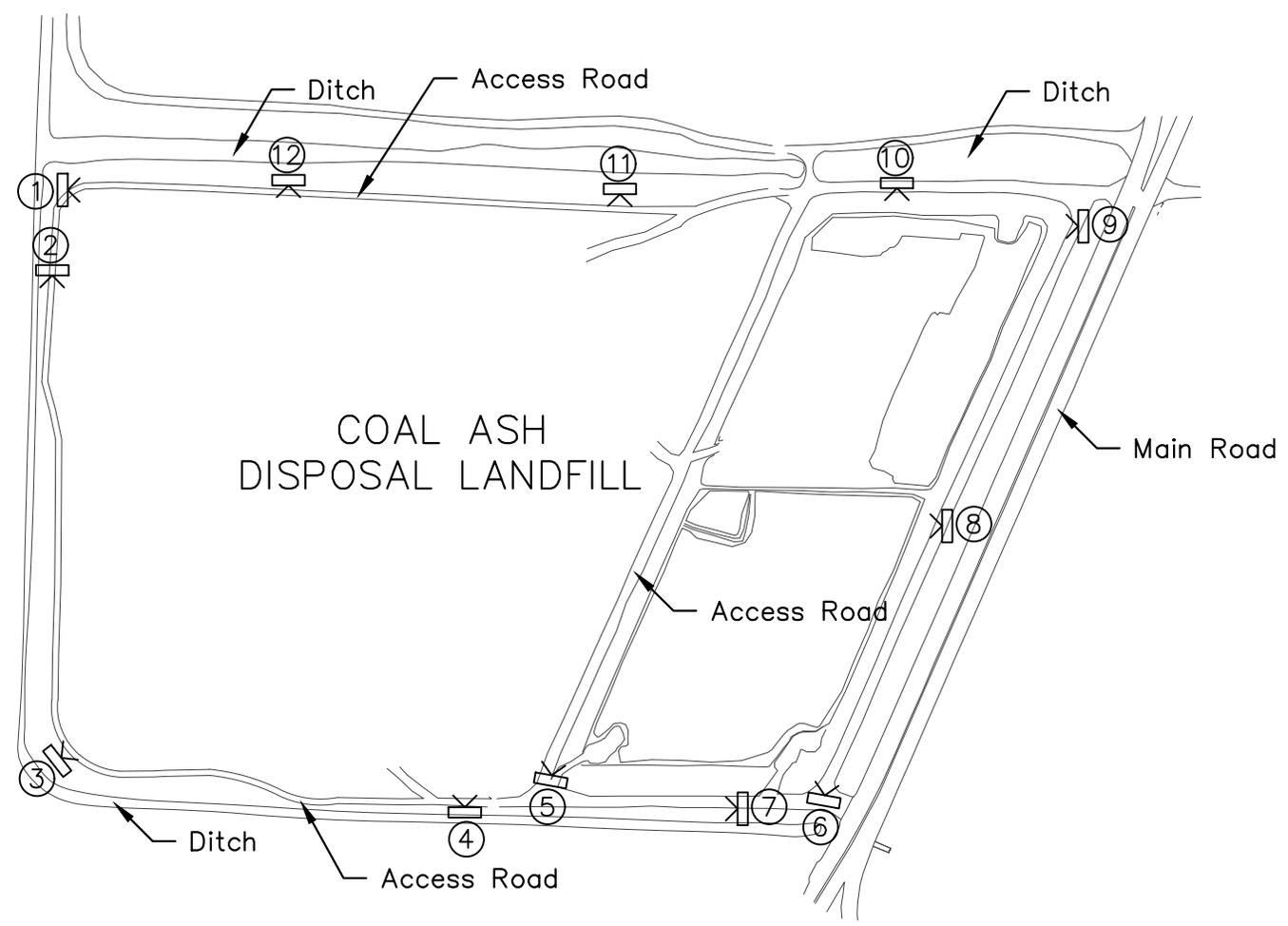
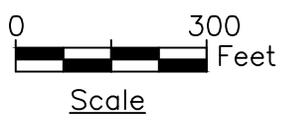
DATE	DESCRIPTION	BY

SCALE: NOT TO SCALE	DRAWN BY: Y.S.
DATE: JANUARY 4, 2015	CHECKED BY: T.E.
JOB NO. 15-125	



### Legend

⊗④ Photo Location And Identification Number



### COAL ASH DISPOSAL LANDFILL SITE INSPECTION PHOTO LOCATION MAP

**NELSON COAL GENERATING STATION**  
3500 HOUSTON RIVER ROAD, WESTLAKE, LOUISIANA



**Pivotal Engineering LLC**  
CIVIL, ELECTRICAL, ENVIRONMENTAL & MECHANICAL ENGINEERING  
1515 PONDAS STREET, STE. 1875  
NEW ORLEANS, LA. 70112  
(504) 799-3653 (504) 799-3654(FAX)

DATE	DESCRIPTION REVISIONS	BY

SCALE: AS NOTED	DRAWN BY: Y.S.
DATE: JANUARY 4, 2015	CHECKED BY: T.E.
JOB NO. 15-125	

**ATTACHMENT 1**

**WEEKLY INSPECTION REPORTS**

## WEEKLY LANDFILL INSPECTION

### Instructions:

- Inspection applies to CCR Rule affected CCR units or cells only
- Provide detailed description of location, site sketches, and pictures of any noted deficiencies or issues
- Use additional sheets as necessary
- Following inspection, send electronic copy of Inspection Form and any attachments to Entergy facility Environmental Analyst and Entergy State Lead

Inspected by: Randy Smith  
[Must be performed by a qualified person per 257.84(a)(1)]

Inspection Date: 10/20/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

1. 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? [Inspection criteria per 257.84(a)(1)(i)]

a. Any signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action/Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

b. Any signs of tension or other types of cracks or separation at the surface or slopes?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

c. Any signs of erosion from storm water runoff or damage to stormwater control facilities (e.g. ditches, culverts, berms, and letdowns)?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

d. Any signs of burrowing or tunneling mammals that could lead to stability issues?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

2. Were there any issues or recommended corrective actions from the previous weekly inspection left to address?

- No
- Yes (*if yes, follow-up on any corrective actions taken*)

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## WEEKLY LANDFILL INSPECTION

### Instructions:

- Inspection applies to CCR Rule affected CCR units or cells only
- Provide detailed description of location, site sketches, and pictures of any noted deficiencies or issues
- Use additional sheets as necessary
- Following inspection, send electronic copy of Inspection Form and any attachments to Entergy facility Environmental Analyst and Entergy State Lead

Inspected by: Randy Smith  
[Must be performed by a qualified person per 257.84(a)(1)]

Inspection Date: 10/27/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

1. 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? [Inspection criteria per 257.84(a)(1)(i)]

a. Any signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action/Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

b. Any signs of tension or other types of cracks or separation at the surface or slopes?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

c. Any signs of erosion from storm water runoff or damage to stormwater control facilities (e.g. ditches, culverts, berms, and letdowns)?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

d. Any signs of burrowing or tunneling mammals that could lead to stability issues?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Entergy Facility: Nelson Unit 6 Coal Ash Landfill Westlake, LA.

Inspection Date: 10/27/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

2. Were there any issues or recommended corrective actions from the previous weekly inspection left to address?

- No
- Yes (*if yes, follow-up on any corrective actions taken*)

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## WEEKLY LANDFILL INSPECTION

### Instructions:

- Inspection applies to CCR Rule affected CCR units or cells only
- Provide detailed description of location, site sketches, and pictures of any noted deficiencies or issues
- Use additional sheets as necessary
- Following inspection, send electronic copy of Inspection Form and any attachments to Entergy facility Environmental Analyst and Entergy State Lead

Inspected by: Randy Smith  
[Must be performed by a qualified person per 257.84(a)(1)]

Inspection Date: 11/3/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

1. 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? [Inspection criteria per 257.84(a)(1)(i)]

a. Any signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action/Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

b. Any signs of tension or other types of cracks or separation at the surface or slopes?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

c. Any signs of erosion from storm water runoff or damage to stormwater control facilities (e.g. ditches, culverts, berms, and letdowns)?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

d. Any signs of burrowing or tunneling mammals that could lead to stability issues?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Energy Facility: Nelson Unit 6 Coal Ash Landfill Westlake, LA.

Inspection Date: 11/3/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

2. Were there any issues or recommended corrective actions from the previous weekly inspection left to address?

- No
- Yes (*if yes, follow-up on any corrective actions taken*)

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## WEEKLY LANDFILL INSPECTION

### Instructions:

- Inspection applies to CCR Rule affected CCR units or cells only
- Provide detailed description of location, site sketches, and pictures of any noted deficiencies or issues
- Use additional sheets as necessary
- Following inspection, send electronic copy of Inspection Form and any attachments to Entergy facility Environmental Analyst and Entergy State Lead

Inspected by: Randy Smith  
[Must be performed by a qualified person per 257.84(a)(1)]

Inspection Date: 11/10/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

1. 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? [Inspection criteria per 257.84(a)(1)(i)]

a. Any signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action/Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

b. Any signs of tension or other types of cracks or separation at the surface or slopes?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

c. Any signs of erosion from storm water runoff or damage to stormwater control facilities (e.g. ditches, culverts, berms, and letdowns)?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

d. Any signs of burrowing or tunneling mammals that could lead to stability issues?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Entergy Facility: Nelson Unit 6 Coal Ash Landfill Westlake, LA.

Inspection Date: 11/10/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

2. Were there any issues or recommended corrective actions from the previous weekly inspection left to address?

- No
- Yes (if yes, follow-up on any corrective actions taken)

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## WEEKLY LANDFILL INSPECTION

### Instructions:

- Inspection applies to CCR Rule affected CCR units or cells only
- Provide detailed description of location, site sketches, and pictures of any noted deficiencies or issues
- Use additional sheets as necessary
- Following inspection, send electronic copy of Inspection Form and any attachments to Entergy facility Environmental Analyst and Entergy State Lead

Inspected by: Randy Smith  
[Must be performed by a qualified person per 257.84(a)(1)]

Inspection Date: 11/17/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

1. 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? [Inspection criteria per 257.84(a)(1)(i)]

a. Any signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action/Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

b. Any signs of tension or other types of cracks or separation at the surface or slopes?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

c. Any signs of erosion from storm water runoff or damage to stormwater control facilities (e.g. ditches, culverts, berms, and letdowns)?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

d. Any signs of burrowing or tunneling mammals that could lead to stability issues?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Energy Facility: Nelson Unit 6 Coal Ash Landfill Westlake, LA.

Inspection Date: 11/17/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

2. Were there any issues or recommended corrective actions from the previous weekly inspection left to address?

- No
- Yes (if yes, follow-up on any corrective actions taken)

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# WEEKLY LANDFILL INSPECTION

### Instructions:

- Inspection applies to CCR Rule affected CCR units or cells only
- Provide detailed description of location, site sketches, and pictures of any noted deficiencies or issues
- Use additional sheets as necessary
- Following inspection, send electronic copy of Inspection Form and any attachments to Entergy facility Environmental Analyst and Entergy State Lead

Inspected by: Randy Smith  
[Must be performed by a qualified person per 257.84(a)(1)]

Inspection Date: 11/24/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

1. 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? [Inspection criteria per 257.84(a)(1)(i)]

a. Any signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure?

- No
- Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action/Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

b. Any signs of tension or other types of cracks or separation at the surface or slopes?

- No
- Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

c. Any signs of erosion from storm water runoff or damage to stormwater control facilities (e.g. ditches, culverts, berms, and letdowns)?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

d. Any signs of burrowing or tunneling mammals that could lead to stability issues?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Entergy Facility: Nelson Unit 6 Coal Ash Landfill Westlake, LA.

Inspection Date: 11/24/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

2. Were there any issues or recommended corrective actions from the previous weekly inspection left to address?

- No
- Yes (if yes, follow-up on any corrective actions taken)

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## WEEKLY LANDFILL INSPECTION

### Instructions:

- Inspection applies to CCR Rule affected CCR units or cells only
- Provide detailed description of location, site sketches, and pictures of any noted deficiencies or issues
- Use additional sheets as necessary
- Following inspection, send electronic copy of Inspection Form and any attachments to Entergy facility Environmental Analyst and Entergy State Lead

Inspected by: Randy Smith  
 [Must be performed by a qualified person per 257.84(a)(1)]

Inspection Date: 12/1/15  
 [Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

1. 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? [Inspection criteria per 257.84(a)(1)(i)]

a. Any signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Recommended Corrective Action/Responsible Party: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
 [Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
 [Sign and Date]

b. Any signs of tension or other types of cracks or separation at the surface or slopes?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

c. Any signs of erosion from storm water runoff or damage to stormwater control facilities (e.g. ditches, culverts, berms, and letdowns)?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

d. Any signs of burrowing or tunneling mammals that could lead to stability issues?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Energy Facility: Nelson Unit 6 Coal Ash Landfill Westlake, LA.

Inspection Date: 12/1/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

2. Were there any issues or recommended corrective actions from the previous weekly inspection left to address?

No

Yes (if yes, follow-up on any corrective actions taken)

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# WEEKLY LANDFILL INSPECTION

**Instructions:**

- Inspection applies to CCR Rule affected CCR units or cells only
- Provide detailed description of location, site sketches, and pictures of any noted deficiencies or issues
- Use additional sheets as necessary
- Following inspection, send electronic copy of Inspection Form and any attachments to Entergy facility Environmental Analyst and Entergy State Lead

Inspected by: Randy Smith  
[Must be performed by a qualified person per 257.84(a)(1)]

Inspection Date: 12/8/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

1. 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? [Inspection criteria per 257.84(a)(1)(i)]

a. Any signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action/Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

b. Any signs of tension or other types of cracks or separation at the surface or slopes?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

c. Any signs of erosion from storm water runoff or damage to stormwater control facilities (e.g. ditches, culverts, berms, and letdowns)?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

d. Any signs of burrowing or tunneling mammals that could lead to stability issues?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Entergy Facility: Nelson Unit 6 Coal Ash Landfill Westlake, LA.

Inspection Date: 12/8/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

2. Were there any issues or recommended corrective actions from the previous weekly inspection left to address?

- No
- Yes (if yes, follow-up on any corrective actions taken)

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## WEEKLY LANDFILL INSPECTION

### Instructions:

- Inspection applies to CCR Rule affected CCR units or cells only
- Provide detailed description of location, site sketches, and pictures of any noted deficiencies or issues
- Use additional sheets as necessary
- Following inspection, send electronic copy of Inspection Form and any attachments to Entergy facility Environmental Analyst and Entergy State Lead

Inspected by: Randy Smith  
[Must be performed by a qualified person per 257.84(a)(1)]

Inspection Date: 12/15/15  
[Inspection Interval must not exceed 7 days per 257.84(a)(1)(i)]

1. 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? [Inspection criteria per 257.84(a)(1)(i)]

a. Any signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action/Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

b. Any signs of tension or other types of cracks or separation at the surface or slopes?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

- c. Any signs of erosion from storm water runoff or damage to stormwater control facilities (e.g. ditches, culverts, berms, and letdowns)?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

- d. Any signs of burrowing or tunneling mammals that could lead to stability issues?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

2. Were there any issues or recommended corrective actions from the previous weekly inspection left to address?

No

Yes (if yes, follow-up on any corrective actions taken)

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### WEEKLY LANDFILL INSPECTION

**Instructions:**

- Inspection applies to CCR Rule affected CCR units or cells only
- Provide detailed description of location, site sketches, and pictures of any noted deficiencies or issues
- Use additional sheets as necessary
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Inspected by: RANDY SMITH  
[Must be performed by a qualified person per 257.84(a)(1)]

Inspection Date: 12/22/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

1. 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? [Inspection criteria per 257.84(a)(1)(i)]

a. Any signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure?

No

Yes *(if yes, make photographs, describe and recommend a corrective action)*

Location/Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Recommended Corrective Action/Responsible Party: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

b. Any signs of tension or other types of cracks or separation at the surface or slopes?

No

Yes *(if yes, make photographs, describe and recommend a corrective action)*

Location/Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

- c. Any signs of erosion from storm water runoff or damage to stormwater control facilities (e.g. ditches, culverts, berms, and letdowns)?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_

[Sign and Date]

Corrective Action Completed: \_\_\_\_\_

[Sign and Date]

- d. Any signs of burrowing or tunneling mammals that could lead to stability issues?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

2. Were there any issues or recommended corrective actions from the previous weekly inspection left to address?

- No
- Yes (if yes, follow-up on any corrective actions taken)

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# WEEKLY LANDFILL INSPECTION

**Instructions:**

- Inspection applies to CCR Rule affected CCR units or cells only
- Provide detailed description of location, site sketches, and pictures of any noted deficiencies or issues
- Use additional sheets as necessary
- Following inspection, send electronic copy of Inspection Form and any attachments to Entergy facility Environmental Analyst and Entergy State Lead

Inspected by: Randy Smith  
[Must be performed by a qualified person per 257.84(a)(1)]

Inspection Date: 12/29/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

1. 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? [Inspection criteria per 257.84(a)(1)(i)]

a. Any signs of sliding or sloughing of the soil layer or waste material that might indicate a slope failure?

- No
- Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action/Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

b. Any signs of tension or other types of cracks or separation at the surface or slopes?

- No
- Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

c. Any signs of erosion from storm water runoff or damage to stormwater control facilities (e.g., ditches, culverts, berms, and letdowns)?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

d. Any signs of burrowing or tunneling mammals that could lead to stability issues?

No

Yes (if yes, make photographs, describe and recommend a corrective action)

Location/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action and Responsible Party: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Entergy Facility: Nelson Unit 6 Coal Ash Landfill Westlake, LA.

Inspection Date: 12/29/15  
[Inspection interval must not exceed 7 days per 257.84(a)(1)(i)]

Engineer Approval of Corrective Action (if required): \_\_\_\_\_  
[Sign and Date]

Corrective Action Completed: \_\_\_\_\_  
[Sign and Date]

2. Were there any issues or recommended corrective actions from the previous weekly inspection left to address?

- No
- Yes (if yes, follow-up on any corrective actions taken)

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ATTACHMENT 2**

**PHOTO LOG**



Photo 1, Northwest corner, looking east.



Photo 2 Northwest side, looking east.



Photo 3, Southwest corner, looking northeast.



Photo 4, Southside, looking north.



Photo 5, Southside, looking north.



Photo 6, Southeast corner, looking north.



Photo 7, Southwest corner, looking west.



Photo 8, East side, looking west.



Photo 9, Northeast corner, looking southwest.



Photo 10, Northeast side, looking south



Photo 11, North side, looking south



Photo 12, Northwest side, looking south