

Pat McCrory	John-E, Skvarla, III
Governor	Secretary

September 30, 2014

## NOTICE OF INSPECTION

Duke Energy Carolinas Ms. Kimberlee Hutchinson, PE PO Box 1006 Charlotte, North Carolina 28201

RE: Asheville 1982 Ash Pond (State ID No. – BUNCO-089)

Dam Hazard Potential: High; Buncombe County

Dear Ms. Hutchinson:

The Dam Safety Law of 1967 provides for the certification and inspection of dams in the public interest. Our records indicate you are the owner of the referenced dam, which was inspected by personnel of this office on August 27, 2014.

The inspection revealed the following conditions, which must be addressed and/or monitored:

- There was wetness noted on the right abutment at the toe and near the toe drains. It was noted that weirs were in place to monitor the flow from the dam through the toe drains. Excessive wetness/seepage can cause failure of the dam due to internal erosion and/or embankment sliding. You should continue to monitor and inspect these areas periodically and notify this office if wetness/seepage rate changes.
- Lime and fertilize sparse areas on the downstream slope as discussed during inspection.

In addition, we are still waiting for information requested in our August 6, 2014 Notice of Deficiency. These repair plans are due no later than October 13, 2014.

Please be advised that though we make every reasonable effort to determine the safety of your dam, our resources limit us to surficial inspection. There is no certainty regarding the internal stability of the dam. Dams, and especially their spillways and conduits, deteriorate with age.

Division of Energy, Mineral, and Land Resources - Land Quality Section
Asheville Regional Office, 2090 US Highway 70, Swannanoa, North Carolina, 28778-8211
Telephone 828-296-4500 Fax 828-299-7043
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<a href="http://portal.ncdenr.org/group/lr/land-quality">http://portal.ncdenr.org/group/lr/land-quality</a>
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Therefore, you are advised to keep a close watch on your dam and to notify this office if you detect any changes, especially cracks, ground movements, or changes in seepage rate or color.

During this inspection we also investigated the potential for property damage and loss of life in the event that the subject dam fails. This investigation determined that failure of the dam could result in damage to Interstate 26 and potential loss of life. Therefore, we continue to list this dam in the "High Hazard Potential" category. Please be advised that hazard classifications are subject to revision due to changes in downstream conditions and/or plant operating procedures.

Although the inspections by our staff are relatively infrequent and offer no absolute safety guarantees, we hope that you will use the information provided in this letter as you fulfill your obligation to safely maintain and operate your dam. In order to keep records up-to-date and serve you better, please notify this office concerning any changes in address or ownership. Your cooperation is appreciated.

As a dam owner, you may incur liability should your dam have a problem or fail, if such results in loss of life or property damage downstream. It is requested that you update the EAP on file dated September 2014, if any changes occur to the dam or downstream. Please update all downstream hazards and verify all contact information. North Carolina has recently completed and adopted an EAP template for owners of high hazard dams. The template and associated Dam Safety Programs by visiting the be obtained auidance (http://portal.ncdenr.org/web/lr/dams) or by calling Dam Safety Program staff at (919) 707-9220. All updated EAPs shall be in this required format. Two copies of the EAP should be submitted to the Division of Energy, Mineral, and Land Resources, Attn: Dam Safety Program, 1612 Mail Service Center, Raleigh, North Carolina 27699-1612.

If you have an emergency situation during non-office hours, you should notify the Division of Emergency Management's State Warning Point at 1-800-858-0368. They will notify the appropriate personnel in this office of the situation.

Should you have any questions concerning this inspection, please contact Fred Walker or me at (828) 296-4500.

Sincerely,

Laura C. Herbert, PE Regional Engineer Land Quality Section

I SAFETY INSPECTION REP COUNTY INSPECTED BY 1982 Ash fond Dam BUNCO 089 8/27/14 FLW, KH, MR Procress Concrete gravity Concrete arch TYPE INSPECTION Perodic SITE CONDITIONS ☑ Embankment ☐Concrete buttress ☐Stone masonary □Wet ☐ Irifal Followup Other. Dry Snowcover Other: HAZARD DESCRIPTION HAZARD CLASS ☐ Intermediate (B) Low (A) EQ High (C) ACTION RECOMMENDATIONS Executing ash from pond during Inspection by DSE 2 None Inspection letter Dam safety order Maintenance **Deficiency letter** ☐ Enforcement inspection Monitoring

Minor repair RE notice Periodic reinspection ☐ Engineering study ☐ Inspection by RE Minor repair Other reinspection Engineering AREA PROBLEMS COLUE (SE 1.None 11.Displaced rip rap COVER: ∠ Vegetation D Rip rap ☐ Concrete ☐ Asphalt 2Trees 12.Cracks ☐ 3.High bushes 13.Undermining SLOPE 4.Burrows ☐14.Holes 5.Wave erosion ☐15.Spalling ☐ 6.Livestock damage ☐ 16.Displaced joints EAR 7.Slides ☐17.Deteriorated joints ☐ 8.Depressions ☐18.Exposed reinforcement 9.Bulges ☐19.Other 10.Sparse rip rap ⊠\_1.None ☐11.Cracks COVER: Vegetation **Gravel** Concrete ☐ Asphalt ☐ Other 2Trees 12.Spalling 3.High bushes ☐13.Deteriorated joints DAM 4.Burrows ☐14.Displaced joints 5.Ruts □15.Exposed reinforcement 6 6.Livestock damage 16.Other 9 7.Depressions 8.Unlevel 9.Misalignment ☐10.Has overtopped ☐ 1.None ☐11.Seepage 2 2.Trees 12.Bolis 3.High bushes Lime/fertilize areas on d/s slope, ☐ 13.Cracks SLOPE 4.Burrows 14.Holes where regetation is sparse. 5.Erosion ☐ 15.Spalling ☐ 6.Livestock damage DOWNSTREAM ☐ 16.Displaced joints 7.Slides ☐ 17.Deteriorated joints 8.Depressions ☐ 18.Exposed reinforcement 9.Bulges XL19.Other 10. Wetness ☐ 1.None ☐ Vegetation ☐ Rip rap ☐ Concrete ☐ Other 2.Trees 12.Bolls 3.High bushes Wetness / seepege as noted in previous 13.Cracks CONTACT

years inspections at the near weir box.

4.Burrows

5.Erosion

7.Slides

9.Bulges

10.Wetness

8.Depressions

☐ 6.Livestock damage

14.Holes

☐ 15.Spalling

☐ 16.Displaced joints

19.Undermining

20.Other

☐ 17.Deteriorated joints

☐ 18.Exposed reinforcement

AREA	PR	OBLEMS				COMMEN	<b>.</b>		
	1.None	11.Seepage	COVER:	Vegetation	☐ Riprap	Concrete	☐ Other		1
o.	2.Trees	12.Bolis							
5	3.High bushes	13.Cracks							. 1
Ě	4.Burrows	14.Holes							
CONTACTS	5.Erosion	15,Spalling							i
	6.Livestock damage	16.Displaced joints							
ABUTMENT	7.Sildes	☐ 17.Deteriorated joints							1
5	8.Depressions	☐ 18.Exposed reinforcement							1
₹	9.Bulges	☐ 19.Undermining							į
	☐10.Wetness	20.Other							]
	1.None	11.Joint displacement	TYPE/SIZE:	30",	4	e rise			
	☐ 2.No trashguard	12.Undermined			BREVET	C MSE			
	3.Obstructed	13.Voids							- 1
SPILLWAY	☐ 4.Plugged	14.Erosion							1
G.	5.Rusted	15.Holes							1
	☐ 6.Damaged	☐ 16.Conduit collasped							1
PHINCIPAL	7.Gates leaking	☐ 17.Spalling							- 1
Z	☐ 8.Joints leaking	☐ 18.Outlet undercutting							i
O.	9.Cracks	☐ 19.Misalignment					•		- 1
	☐ 10.Joint deterioration								- 1
			T/DE (017E)						
	1.None	11.Joint displacement	TYPE/SIZE						
4	☐2.No ES	12.Undermining							
2	3.Same as PS	13.Volds							Ī
SPILLWAY	☐4.Obstructed ☐5.Erosion	14.Holes							
X	6.Displaced rip rap	☐ 15.Exposed reinforcement☐ 16.Spalling☐							l
ENC	☐7.Sparse rlp rap	17.Outlet erosion							l
AG	8.Joints leaking	☐ 18.Misalignment							
EMERGENCY	☐9.Cracks	19.Inadequate capacity							ļ
_	10.Joint deterioration								
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JTLETS	CX1.None		TYPE:	(2)	6" Pi	IC to .	toe drains	winuer	cbex
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0	3.Bottom drain inoperable 4.Subsurface drain dry 5.Subsurface drain muddy flow			Kgar	ge = (	9,11			
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o	G.Subsurface drain obstructed								
DRAINS / OTHER OI	☐ 7.No animal g ☐ 8.Other	juaru							
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