

DTE Energy St. Clair Power Plant

Unit 6 Scrubber Basins CCR Rule Compliance Project

Annual Inspection Report - 2017

Project Number: 60546402

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- A. 2017 Annual Inspection Report

1. Introduction

1.1 Introduction

The 2017 Annual Inspection Report (AIR) was prepared by AECOM for the DTE Electric Company (DTE) to summarize the results of the annual inspection of the St. Clair Power Plant Unit 6 Scrubber Basins (Scrubber Basins). This annual inspection complies with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 CFR 257.73). Under the CCR Rule, the Scrubber Basins is an "existing surface impoundment" and must be inspected by a qualified professional engineer on a periodic basis, not to exceed one year.

1.2 Background Information

The St. Clair Power Plant is located in East China Township, St. Clair County, Michigan on the west bank of the St. Clair River. The plant was initially built in 1953. Unit 6 Scrubber basins were built in 1973 to handle FGD scrubber material generated as the scrubber cleaned the gases passing through the smokestacks. Filling of the basins ceased in the mid-1970's.

1.3 Personnel

The annual inspection was performed by Mr. Scott G. Hutsell, P.E., with assistance from DTE personnel. Weekly inspections have been and continue to be performed by DTE's plant personnel.

2. Annual Inspection Results

2.1 2017 Inspections

DTE performed the following visual inspections in 2017:

- The annual inspection on June 28, 2017 (provided in Appendix A)
- Weekly inspections during 2017

The annual and weekly inspections included the embankment crest, exterior slopes of the embankment, discharge structures, and discrete observations of the interior of the basins based on accessibility. In addition to the annual and weekly inspections, the general condition of the site and embankment was visually inspected by DTE on a daily basis.

In general, no sign of vegetative distress or structural issues were observed during the annual inspection on the embankment crest, exterior slopes of the embankment and discharge structure. These structures appeared to be in good condition. Areas of concern are listed below; these conditions do not represent an immediate concern for the safe operation or stability of the Scrubber Basins.

- The Scrubber Basins are heavily vegetated and a thorough inspection of the entire surface area of the impoundment is not practical; DTE will be removing the overgrowth from the Scrubber Basins in late July and weekly inspections after that time should focus on areas that are more accessible

3. Maintenance Activities in 2017

3.1 Maintenance Activities

DTE has been pumping down the accumulated surface water in the pond since late May 2017 in preparation for closure of the ponds beginning in September 2017. The current water level is less than 6 inches of water in the eastern basin and between 6 to 12 inches of water in the western basin. Standing water is only present in the southern third of each basin.

4. Conclusion and Certification

4.1 Conclusion

The annual inspection did not identify and evidence of structural weakness or instability in the Unit 6 Scrubber Basins at DTE's St. Clair Power Plant.

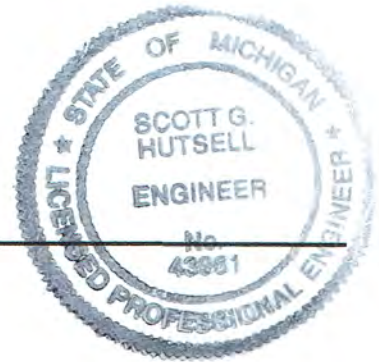
Based on the annual inspection results and review of available data (including design documents and weekly inspection documentation) the Scrubber Basins were designed and constructed with generally accepted good engineering standards. Additionally, the Scrubber Basins are operated and maintained using generally accepted good engineering practice.

4.2 Certification

Certified by:

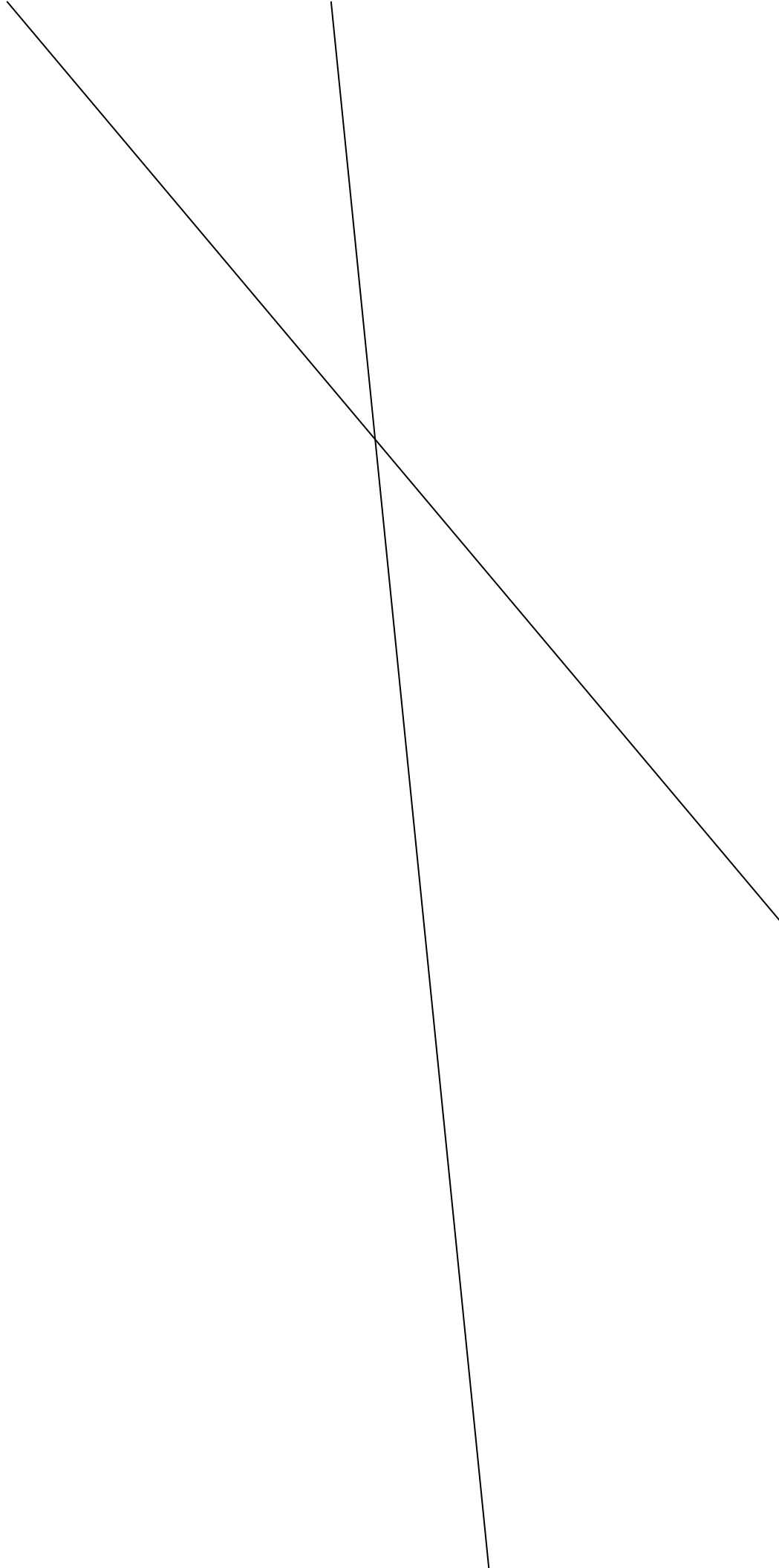
Scott G. Hutsell, P.E. Michigan License #43961

Senior Project Manager



AECOM

Appendix A



CCR Impoundment Inspection Report

Station/Owner St. Clair Unit 6 Scrubber Basins / DTE Energy		County, St. Clair	State Michigan
Inspected By Scott G. Hutsell, P.E.		Date 07/01/2017	Phone No. 517-505-1301
Type of Impoundment: <input type="checkbox"/> Concrete Gravity <input checked="" type="checkbox"/> Embankment <input type="checkbox"/> Concrete Arch <input type="checkbox"/> Stone Masonry <input type="checkbox"/> Concrete Buttress <input type="checkbox"/> Other		Type of Inspection <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Periodic <input type="checkbox"/> Follow up <input type="checkbox"/> Other	Weather <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Snow Cover <input type="checkbox"/> Other
Hazard Description The Unit 6 Scrubber Basins have not been used for active disposal of CCR materials in decades; the current impoundment is in good condition and holds surface water runoff.		Condition Assessment <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Poor <input type="checkbox"/> Not rated <input type="checkbox"/> Fair	
Remarks DTE has been pumping the basins down since late May in preparation of closure activities later this summer.		Actions <input type="checkbox"/> None <input type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering	Recommendations <input checked="" type="checkbox"/> Inspection letter <input type="checkbox"/> <input type="checkbox"/> Deficiency letter <input type="checkbox"/> <input type="checkbox"/> EOR notice <input type="checkbox"/> <input type="checkbox"/> Engineering study <input type="checkbox"/> Periodic reinspection <input type="checkbox"/> Inspection by EOR
Pool Level (ft) Approximately 1 ft of water is standing in the basin		Total Precipitation since last inspection n/a	

	Problems				COVER:
UPSTREAM SLOPE/FACE	<input type="checkbox"/> 1. None	<input type="checkbox"/> 7. Wave Erosion	<input type="checkbox"/> 13. Scarps	<input type="checkbox"/> 19. Exposed reinforcement	<input checked="" type="checkbox"/> Vegetation
	<input checked="" type="checkbox"/> 2. Vegetation >2" dia.	<input type="checkbox"/> 8. Slides	<input type="checkbox"/> 14. Sloughing	<input type="checkbox"/> 20. Veg. or sediment in rip rap	<input type="checkbox"/> Rip rap
	<input checked="" type="checkbox"/> 3. Veg. height >6"	<input type="checkbox"/> 9. Depressions	<input type="checkbox"/> 15. Holes	<input type="checkbox"/> 21. Displaced rip rap	<input type="checkbox"/> Concrete
	<input checked="" type="checkbox"/> 4. High bushes	<input type="checkbox"/> 10. Bulges	<input type="checkbox"/> 16. Undermining	<input type="checkbox"/> 22. Sparse rip rap	<input type="checkbox"/> Asphalt
	<input checked="" type="checkbox"/> 5. Animal Burrows	<input type="checkbox"/> 11. Cracks	<input type="checkbox"/> 17. Displaced joints	<input type="checkbox"/> 23. Other Erosion	<input type="checkbox"/> Other
	<input type="checkbox"/> 6. Livestock damage	<input type="checkbox"/> 12. Spalling	<input type="checkbox"/> 18. Deteriorated joints	<input type="checkbox"/> 24. Other	
	Comments /Action Items Exterior of Scrubber Basins are overgrown with vegetation; very difficult to walk around and inspection was limited to established paths and areas of lesser undergrowth. No cracks or structural issues were noticed during the inspection. In limited areas trees and bushes with trunks greater than 2" occur. Some holes from animal burrows were noticed. The Scrubber Basins are scheduled for closure by removal in late summer of 2017.				
	Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering				
TOP OF DAM/CREST	PROBLEMS				COVER:
	<input type="checkbox"/> 1. None	<input type="checkbox"/> 7. Ruts	<input type="checkbox"/> 12. Cracks	<input type="checkbox"/> 17. Scarps	<input checked="" type="checkbox"/> Vegetation
	<input checked="" type="checkbox"/> 2. Vegetation >2" dia.	<input type="checkbox"/> 8. Depressions	<input type="checkbox"/> 13. Deteriorated joints	<input type="checkbox"/> 18. Spalling	<input checked="" type="checkbox"/> Rip rap
<input checked="" type="checkbox"/> 3. Veg. height >6"	<input type="checkbox"/> 9. Unlevel	<input type="checkbox"/> 14. Displaced joints	<input type="checkbox"/> 19. Sinkholes	<input type="checkbox"/> Concrete	
<input checked="" type="checkbox"/> 4. High bushes	<input type="checkbox"/> 10. Misalignment	<input type="checkbox"/> 15. Exposed reinforcement	<input type="checkbox"/> 20. Puddles	<input type="checkbox"/> Asphalt	
<input checked="" type="checkbox"/> 5. Animal Burrows	<input type="checkbox"/> 11. Signs of overtopping	<input type="checkbox"/> 16. Settlement	<input type="checkbox"/> 21. Other	<input type="checkbox"/> Other	
<input type="checkbox"/> 6. Livestock damage					
	Comments /Action Items Some areas of rip-rap from the original construction exist around the crest of the Scrubber Basins – these areas are generally in good repair although some limited vegetation is present. The remainder of the crest is overgrown with dense vegetation; this includes the separation berm.				
	Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering				

CCR Impoundment Inspection Report

DOWNSTREAM SLOPE/FACE	PROBLEMS				COVER:
	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. Vegetation >2" dia. <input checked="" type="checkbox"/> 3. Veg. height >6" <input checked="" type="checkbox"/> 4. High bushes <input type="checkbox"/> 5. Poor grass cover <input checked="" type="checkbox"/> 6. Animal Burrows <input type="checkbox"/> 7. Livestock damage	<input type="checkbox"/> 8. Wetness <input type="checkbox"/> 9. Seepage <input type="checkbox"/> 10. Boils <input type="checkbox"/> 11. Puddles <input type="checkbox"/> 12. Erosion <input type="checkbox"/> 13. Slope instability <input type="checkbox"/> 14. Scarps	<input type="checkbox"/> 15. Sloughs/bulges <input type="checkbox"/> 16. Depressions <input type="checkbox"/> 17. Undercutting <input type="checkbox"/> 18. Rutting/rills <input type="checkbox"/> 19. Cracks <input type="checkbox"/> 20. Scour <input type="checkbox"/> 21. Spalling	<input type="checkbox"/> 22. Displaced joints <input type="checkbox"/> 23. Deteriorated joints <input type="checkbox"/> 24. Exposed reinforcement <input type="checkbox"/> 25. Riprap needs attention <input checked="" type="checkbox"/> 26. Veg. or sediment in rip rap <input type="checkbox"/> 27. Other	<input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other
	28. Does standing water or seepage contain sediment?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
	29. Is there natural hillside seepage in in embankment area?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
	Describe seepage with regard to quantity and clarity (turbidity). Note changes: None				
Comments /Action Items Some areas of rip-rap from the original construction exist on the interior slopes of the Scrubber Basins – these areas are generally in good repair although some limited vegetation is present.					
Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering					
TOE CONTACT	PROBLEMS				COVER:
	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. Vegetation >2" dia. <input type="checkbox"/> 3. Veg. height >6" <input checked="" type="checkbox"/> 4. High bushes <input type="checkbox"/> 5. Poor grass cover <input type="checkbox"/> 6. Animal Burrows <input type="checkbox"/> 7. Livestock damage	<input type="checkbox"/> 8. Wetness <input type="checkbox"/> 9. Seepage <input type="checkbox"/> 10. Boils <input type="checkbox"/> 11. Puddles <input type="checkbox"/> 12. Erosion <input type="checkbox"/> 13. Slope instability <input type="checkbox"/> 14. Scarps	<input type="checkbox"/> 15. Sloughs/bulges <input type="checkbox"/> 16. Depressions <input type="checkbox"/> 17. Undercutting <input type="checkbox"/> 18. Rutting/rills <input type="checkbox"/> 19. Cracks <input type="checkbox"/> 20. Scour <input type="checkbox"/> 21. Spalling	<input type="checkbox"/> 22. Displaced joints <input type="checkbox"/> 23. Deteriorated joints <input type="checkbox"/> 24. Exposed reinforcement <input type="checkbox"/> 25. Riprap needs attention <input type="checkbox"/> 26. Veg. or sediment in rip rap <input type="checkbox"/> 27. Other	<input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other
	28. Does standing water or seepage contain sediment?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
	Describe seepage with regard to quantity and clarity (turbidity). Note changes: None				
	Comments /Action Items Toe is inaccessible to direct inspection due to heavy vegetation. Portions of the toe of slope that are visible from the south bank and other slopes look to be in good condition.				
Actions <input type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering					
ABUTMENT CONTACTS	PROBLEMS				COVER:
	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Vegetation >2" dia. <input type="checkbox"/> 3. Veg. height >6" <input type="checkbox"/> 4. High bushes <input type="checkbox"/> 5. Poor grass cover <input type="checkbox"/> 6. Animal Burrows <input type="checkbox"/> 7. Livestock damage	<input type="checkbox"/> 8. Wetness <input type="checkbox"/> 9. Seepage <input type="checkbox"/> 10. Boils <input type="checkbox"/> 11. Puddles <input type="checkbox"/> 12. Erosion <input type="checkbox"/> 13. Slope instability <input type="checkbox"/> 14. Scarps	<input type="checkbox"/> 15. Sloughs/bulges <input type="checkbox"/> 16. Depressions <input type="checkbox"/> 17. Undercutting <input type="checkbox"/> 18. Rutting/rills <input type="checkbox"/> 19. Cracks <input type="checkbox"/> 20. Scour <input type="checkbox"/> 21. Spalling	<input type="checkbox"/> 22. Displaced joints <input type="checkbox"/> 23. Deteriorated joints <input type="checkbox"/> 24. Exposed reinforcement <input type="checkbox"/> 25. Riprap needs attention <input type="checkbox"/> 26. Veg. or sediment in rip rap <input type="checkbox"/> 27. Other	<input type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other
	Comments /Action Items Not applicable				
Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering					

CCR Impoundment Inspection Report

PRINCIPAL SPILLWAY	OBSERVATIONS				
	<input checked="" type="checkbox"/> No Spillway				
	Is spillway control system operating properly?				<input type="checkbox"/> Yes <input type="checkbox"/> No
	PROBLEMS				CHANNEL LINING
<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Trashguard <input type="checkbox"/> 3. Debris <input type="checkbox"/> 4. Obstructed <input type="checkbox"/> 5. Plugged/Clogged <input type="checkbox"/> 6. Gates Damaged <input type="checkbox"/> 7. Gates leaking <input type="checkbox"/> 8. Gates Rusted	<input type="checkbox"/> 9. Misalignment <input type="checkbox"/> 10. Joints leaking <input type="checkbox"/> 11. Joint deterioration <input type="checkbox"/> 12. Joint displacement <input type="checkbox"/> 13. Conduit collapsed <input type="checkbox"/> 14. Exposed reinforcement <input type="checkbox"/> 15. Erosion	<input type="checkbox"/> 16. Undermining <input type="checkbox"/> 17. Voids <input type="checkbox"/> 18. Cracks <input type="checkbox"/> 19. Holes <input type="checkbox"/> 20. Spalling <input type="checkbox"/> 21. Slides <input type="checkbox"/> 22. Outlet undercutting	<input type="checkbox"/> 23. Sloughing <input type="checkbox"/> 24. Scarps <input type="checkbox"/> 25. Deteriorated lining <input type="checkbox"/> 26. Boils <input type="checkbox"/> 27. Outlet erosion <input type="checkbox"/> 28. Displaced rip rap <input type="checkbox"/> 29. Sparse rip rap <input type="checkbox"/> 30. Other	<input type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other	
Comments /Action Items Not Applicable					
Actions <input type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering					
EMERGENCY SPILLWAY	OBSERVATIONS				
	<input checked="" type="checkbox"/> No emergency spillway			<input type="checkbox"/> Same as primary spillway	
	PROBLEMS				CHANNEL LINING
	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Debris in channel <input type="checkbox"/> 3. Gates <input type="checkbox"/> 4. Misalignment	<input type="checkbox"/> 5. Joint deterioration <input type="checkbox"/> 6. Joint displacement <input type="checkbox"/> 7. Exposed reinforcement <input type="checkbox"/> 8. Erosion	<input type="checkbox"/> 9. Undermining <input type="checkbox"/> 10. Voids <input type="checkbox"/> 11. Cracks <input type="checkbox"/> 12. Holes <input type="checkbox"/> 13. Outlet erosion	<input type="checkbox"/> 14. Displaced rip rap <input type="checkbox"/> 15. Sparse rip rap <input type="checkbox"/> 16. Outlet undercutting <input type="checkbox"/> 17. Inadequate capacity <input type="checkbox"/> 18. Other	<input type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other
Comments /Action Items Not Applicable					
Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering					
DRAINS/OUTLET STRUCTURE	Observations				
	1. Is discharge system operating properly?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	2. Valves and operators in good condition?				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	3. Walkway in good condition?				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	4. Is there any turbidity observed at the outlet?				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	5. Seepage at pipe outlet				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	6. No Bottom Drain				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	7. Bottom Drain Operable				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	8. Subsurface Drain Dry				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	9. Subsurface drain muddy flow				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	10. Subsurface drain obstructed				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	11. Animal guard				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	12. other				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	Comments /Action Items DTE discharges from the basin on an as-needed basis; pumping has been going on in the basin since late May in preparation for closure activities later this summer.				
Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering					

CCR Impoundment Inspection Report

OBSERVATION	
RESERVIOR/POOL	<div style="display: flex; justify-content: space-between;"> Has there been a sudden drop in the content level of the Impoundment <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div>
	PROBLEMS
	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 20%;"><input checked="" type="checkbox"/> 1. None</div> <div style="width: 20%;"><input type="checkbox"/> 3. Skimmer</div> <div style="width: 20%;"><input type="checkbox"/> 5. Whirlpools</div> <div style="width: 20%;"><input type="checkbox"/> 6. Sinkholes</div> <div style="width: 20%;"><input type="checkbox"/> 7. Unwanted growth in pond water</div> <div style="width: 20%;"><input type="checkbox"/> 2. Inadequate freeboard</div> <div style="width: 20%;"><input type="checkbox"/> 4. Depressions</div> </div>
	Comments /Action Items DTE discharges from the basin on an as-needed basis; pumping has been going on in the basin since late May in preparation for closure activities later this summer.
	Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering
OBSERVATIONS	
OTHER	<div style="display: flex; justify-content: space-between;"> 1. leachate/stormwater (RCP; CMP) drain pipes that pass through or under an ash basin intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 2. Drainage/ diversion ditches/riprap-lined channels in good condition? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 3. Other steel structures/steel reinforcement in concrete structures in good condition? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 4. Other concrete structures in good condition? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 5. Overflow pipes and flap gates on filter dam/ drain pipe filter zone in good condition? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 6. Howell Bunger Valves in good condition? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 7. Weirs in good condition? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 8. Perimeter Fences and Gates in good condition? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 9. Security devices in good condition <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 10. Signs in good condition <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 11. Instrumentation in good condition <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 12. Reference monuments/Survey Monuments in good condition <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
	<div style="display: flex; justify-content: space-between;"> 13. other <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A </div>
Comments /Action Items Fence surrounding the Scrubber Basins is old but generally in good repair – access to the scrubber basins are through gates on the north and south ends. The gates remain open a majority of the time.	
Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering	

Are there any other abnormal conditions at the Impoundment that could pose a risk to public health, safety or welfare; the environment or natural resources Yes No

Inspector Signature _____ *Scott G. Intsell*

Date: 07/01/17



Photo 1: West Basin, picture taken from coal conveyor, 06/09/17



Photo 2: Headwall and East Basin, 06/09/17



Photo 3: East Basin, view from south, 06/16/17



Photo 4: West basin, view from north, 04/20/17