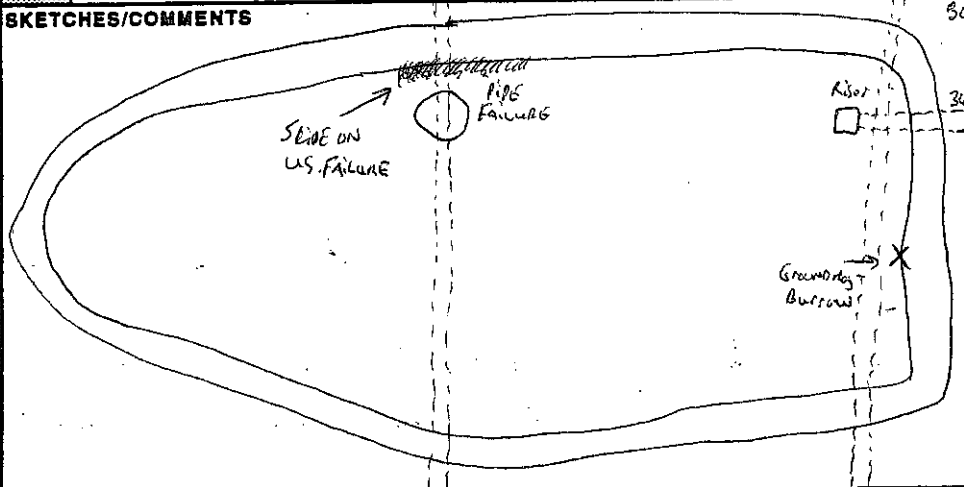


SAFETY INSPECTION REPORT

NAME DAN RIVER PRIMARY ASH POND		COUNTY ROCKINGHAM	NO. 237	INSPECTED BY S. LEONARD / M. GANTT	DATE 2/3/14	
OWNER DUKE ENERGY		ADDRESS			PHONE	
TYPE DAM ☐ Concrete gravity ☐ Concrete arch ☐ Other ☒ Embankment ☐ Concrete buttress ☐ Stone masonry		TYPE INSPECTION ☒ Periodic RRS ☐ Other Failure ☐ Initial ☐ Followup		SITE CONDITIONS ☐ Wet ☐ Dry ☐ Snowcover ☒ Other Damp		
HAZARD DESCRIPTION DAN RIVER				HAZARD CLASS ☐ Low (A) ☒ Intermediate (B) ☒ High (C)		
REMARKS RECEIVED CALL ABOUT FAILURE OF STORM DRAIN (48") UNDER DAM & IMPOUNDMENT AREA. WATER & ASH FLOWING INTO DAN RIVER. ALSO CONDUCTED ANNUAL INSPECTION TODAY. LAKE IMPOUNDMENT HAS DRAINED & CONTINUES TO LEACH OUT OF ASH			ACTION ☐ None ☒ Maintenance ☐ Monitoring ☐ Minor repair ☒ Engineering		RECOMMENDATIONS ☐ Inspection letter ☐ Deficiency letter ☐ RE notice ☐ Engineering study ☐ Inspection by RE ☐ Inspection by DSE ☐ Dam safety order ☐ Enforcement ☐ Periodic reinspection ☐ Other reinspection	
AREA		PROBLEMS		COMMENTS		
UPSTREAM SLOPE / FACE	☐ 1. None ☐ 11. Displaced rip rap ☐ 2. Trees ☐ 12. Cracks ☐ 3. High bushes ☐ 13. Undermining ☒ 4. Burrows ☐ 14. Holes ☐ 5. Wave erosion ☐ 15. Spalling ☐ 6. Livestock damage ☐ 16. Displaced joints ☒ 7. Slides ☐ 17. Deteriorated joints ☐ 8. Depressions ☐ 18. Exposed reinforcement ☐ 9. Bulges ☐ 19. Other ☐ 10. Sparse rip rap		COVER: ☒ Vegetation ☐ Rip rap ☐ Concrete ☐ Asphalt ☐ Other 4. ONE LARGE BURROW LOCATED ON NORTH SIDE OF EMBANKMENT, EAST OF RISEL. 7. ONE LARGE SLIDE AREA $\approx$ 150-200' LONG. COULD NOT MEASURE DUE TO SAFETY CONCERNS. SLIDE IS LOCATED ON WEST SIDE. A 48" STORM WATER CULVERT RUNS UNDER EMBANKMENTS & UNDER IMPOUNDMENT AREA. PIPE IS ACTUALLY CMP FOR MOST OF WAY & CHANGES TO RCP. SLIDE IS ON US BACK TO CREST OF DAM.			
	☒ 1. None ☐ 11. Cracks ☐ 2. Trees ☐ 12. Spalling ☐ 3. High bushes ☐ 13. Deteriorated joints ☐ 4. Burrows ☐ 14. Displaced joints ☐ 5. Puts ☐ 15. Exposed reinforcement ☐ 6. Livestock damage ☐ 16. Other ☐ 7. Depressions ☐ 8. Unlevel ☐ 9. Misalignment ☐ 10. Has overtopped		COVER: ☒ Vegetation ☒ Gravel ☐ Concrete ☐ Asphalt ☐ Other 1. NO PROBLEMS. IT IS ANTICIPATED THAT A SECTION ON WEST SIDE WILL NEED TO BE EXCAVATED TO REACH PIPE FAILURE IN POOL AREA (AREA WHERE SLIDE IS LOCATED).			
DOWNSTREAM SLOPE / FACE	☐ 1. None ☐ 11. Seepage ☐ 2. Trees ☐ 12. Boils ☐ 3. High bushes ☐ 13. Cracks ☐ 4. Burrows ☐ 14. Holes ☐ 5. Erosion ☐ 15. Spalling ☐ 6. Livestock damage ☐ 16. Displaced joints ☐ 7. Slides ☐ 17. Deteriorated joints ☐ 8. Depressions ☐ 18. Exposed reinforcement ☐ 9. Bulges ☒ 19. Other ☐ 10. Wetness		COVER: ☒ Vegetation ☒ Rip rap ☐ Concrete ☐ Other 19. THE REPAIRED AREAS HAVE NO SIGNS OF SEEPAGE OR ISSUES.			
	☒ 1. None ☐ 11. Seepage ☐ 2. Trees ☐ 12. Boils ☐ 3. High bushes ☐ 13. Cracks ☐ 4. Burrows ☐ 14. Holes ☐ 5. Erosion ☐ 15. Spalling ☐ 6. Livestock damage ☐ 16. Displaced joints ☐ 7. Slides ☐ 17. Deteriorated joints ☐ 8. Depressions ☐ 18. Exposed reinforcement ☐ 9. Bulges ☐ 19. Undermining ☐ 10. Wetness ☐ 20. Other		COVER: ☒ Vegetation ☒ Rip rap ☐ Concrete ☐ Other 1. NO PROBLEMS NOTED. THERE WERE NO AREAS OF SEEPAGE OBSERVED ALONG TOE.			
TOE CONTACT						

AREA	PROBLEMS	COMMENTS
ABUTMENT CONTACTS	☒ 1. None ☐ 11. Seepage ☐ 2. Trees ☐ 12. Bolts ☐ 3. High bushes ☐ 13. Cracks ☐ 4. Burrows ☐ 14. Holes ☐ 5. Erosion ☐ 15. Spalling ☐ 6. Livestock damage ☐ 16. Displaced joints ☐ 7. Slides ☐ 17. Deteriorated joints ☐ 8. Depressions ☐ 18. Exposed reinforcement ☐ 9. Bulges ☐ 19. Undermining ☐ 10. Wetness ☐ 20. Other	COVER: ☒ Vegetation ☐ Rip rap ☐ Concrete ☐ Other 1. NO PROBLEMS.
PRINCIPAL SPILLWAY	☒ 1. None ☐ 11. Joint displacement ☐ 2. No trashguard ☐ 12. Undermined ☐ 3. Obstructed ☐ 13. Voids ☐ 4. Plugged ☐ 14. Erosion ☐ 5. Rusted ☐ 15. Holes ☐ 6. Damaged ☐ 16. Conduit collapsed ☐ 7. Gates leaking ☐ 17. Spalling ☐ 8. Joints leaking ☐ 18. Outlet undercutting ☐ 9. Cracks ☐ 19. Misalignment ☐ 10. Joint deterioration ☐ 20. Other	TYPE/SIZE: 5'8" X 6'2" CONCRETE BOX RISEN / 36" RCP BARREL 1. NO PROBLEMS. LAKE IMPOUNDMENT WAS DRAINED DUE TO PIPE FAILURE UNDER IMPOUNDMENT AREA. THERE ARE NO APPARENT PROBLEMS WITH RISEN/BARREL STRUCTURE. OUTLET IS SUBMERGED IN SECONDARY BASIN POOL.
EMERGENCY SPILLWAY	☐ 1. None ☐ 11. Joint displacement ☐ 2. No ES ☐ 12. Undermining ☒ 3. Same as PS ☐ 13. Voids ☐ 4. Obstructed ☐ 14. Holes ☐ 5. Erosion ☐ 15. Exposed reinforcement ☐ 6. Displaced rip rap ☐ 16. Spalling ☐ 7. Sparse rip rap ☐ 17. Outlet erosion ☐ 8. Joints leaking ☐ 18. Misalignment ☐ 9. Cracks ☐ 19. Inadequate capacity ☐ 10. Joint deterioration ☐ 20. Other	TYPE/SIZE:
DRAINS / OTHER OUTLETS	☐ 1. None ☐ 2. No bottom drain ☐ 3. Bottom drain inoperable ☐ 4. Subsurface drain dry ☐ 5. Subsurface drain muddy flow ☐ 6. Subsurface drain obstructed ☐ 7. No animal guard ☐ 8. Other	TYPE: NO OTHER DRAINS ASSOCIATED WITH DAM. HOWEVER, THERE ARE 2 STORM WATER CULVERTS RUNNING UNDER DAM & IMPOUNDMENT AREA. (1) 48" C/P/RCP AND (1) 36" RCP.
SKETCHES/COMMENTS  EXACT LOCATION UNKNOWN BUT APPEARS TO BE IN THIS VICINITY. 48" C/P/RCP 36" RCP STORM WATER STORM WATER		

* DRAWING NTS