

**HISTORY OF CONSTRUCTION FOR EXISTING CCR SURFACE IMPOUNDMENT
PLANT YATES ASH POND B (AP-B)
40 CFR 257.73(c)(1)(i)-(xii)**

(i) Site Name and Ownership Information:

Site Name: Eugene A. Yates Power Plant

Site Location: Newnan, Georgia

Site Address: 708 Dyer Road
Newnan, GA 30263

Owner: Georgia Power Company

Address: 241 Ralph McGill Boulevard
Atlanta, GA 30308

CCR Impoundment Name: Plant Yates Ash Pond B (AP-B)

NID ID: NA

EPA's "Disposal of Coal Combustion Residuals from Electric Utilities" Final Rule (40 C.F.R. Part 257 and Part 261), §257.73(c)(1), requires the owner or operator of an existing CCR surface impoundment to compile a history of construction. To the extent feasible, the following information is provided:

(ii) Location of CCR Unit:

33.457765, -84.893806

See Location Map in the Appendix

(iii) Purpose of CCR Impoundment:

The Eugene A. Yates Power Plant (Plant Yates) was once a seven unit, coal fired, power generation facility. Currently Plant Yates Units 1-5 are in the process of demolition and Plant Yates Units 6 and 7 have been converted to natural gas. AP-B was designed to receive and store coal combustion residuals produced during the electric power generating process at Plant Yates. AP-B is full and hasn't received ash for a number of years.

(iv) Watershed Description:

Plant Yates and AP-B are located within the Acorn Creek-Chattahoochee River HUC 12 watershed which has a total area of 28,284 acres. The Acorn Creek-Chattahoochee River watershed is part of the larger Middle Chattahoochee-Lake Harding HUC 8 watershed which has an area of 1,950,182 acres. The inflow into AP-B consists of the rainfall that falls within the limits of the surface impoundment, and runoff from the adjoining 67-acre watershed.

(v) Description of physical and engineering properties of CCR impoundment foundation/abutments:

AP-B is located in the Piedmont Physiographic Province of Georgia. The Piedmont is characterized by igneous and metamorphic rocks. According to the *Geologic Map of Georgia, 1976*, Plant Yates is located in an Undifferentiated Granite formation of the Piedmont. The residual soils in the Piedmont are a result of weathering of the underlying bedrock. Boring information in the area of AP-B indicates the presence of Piedmont residual soils and alluvial soils (due to its proximity to the Chattahoochee River) consisting of firm clayey sand and silty sand within the footprint of AP-B.

(vi) Summary of Site Preparation and Construction Activities:

AP-B was constructed in 1976 by AMAX Fly Ash Corporation, at the time providing coal ash handling services at Plant Yates, as a temporary pond with a surface area of 6.3 acres. The original configuration of the Ash Pond was an engineered cross-valley embankment. AP-B, as well as the area downstream of the dike, however, has been filled in, effectively eliminating the configuration of the original dike structure, leaving only about 10 feet of embankment protruding above the ground surface. Several breaches have been constructed in the dike protrusion, and the dike remnants are not capable of retaining water. Any failure of dike remnants would not result in a release of ash. Stormwater runoff from AP-B flows overland and through ditches into the Ash Pond 2 system.

As this was originally constructed by a contractor for temporary purposes, there are no available design or construction documents available. Drawings showing the topography and location of AP-B are included as engineering diagrams.

(vii) Engineering Diagram:

The following drawings relevant to the location and topography of Plant Yates AP-B can be found in the Appendix:

- 1976 Topography Map with Proposed Section for Dike Construction
- 1995 Compilation Drawing Showing the Location of AP-B

(viii) Description of Instrumentation:

There is currently no instrumentation at AP-B.

(ix) Area-capacity curves: Due to intentional breaches in the embankment, AP-B is not capable of storing water and run-off into AP-B is routed into Ash Pond 2.

(x) Spillway/Diversion design features and capacity calculations:

Several breaches have been constructed in the dike protrusion, and the dike remnants are not capable of retaining water. Any failure of dike remnants would not result in a release of ash. Stormwater runoff from AP-B flows overland and through ditches into the Ash Pond 2 system.

(xi) Provisions for surveillance, maintenance and repair:

Inspections of dikes are critical components and are conducted on a regular basis – at least annually by professional dam safety engineers and at least weekly by trained plant personnel. The inspections provide assurance that structures are sound and that action is taken, as needed, based on the findings.

During annual inspections, dam safety engineers assess instrument readings, inspect any maintenance or remediation performed since the previous inspection, check the status of work recommended at prior inspections, ensure that the posting of emergency notification information is up to date and evaluate any items noted during plant personnel inspections.

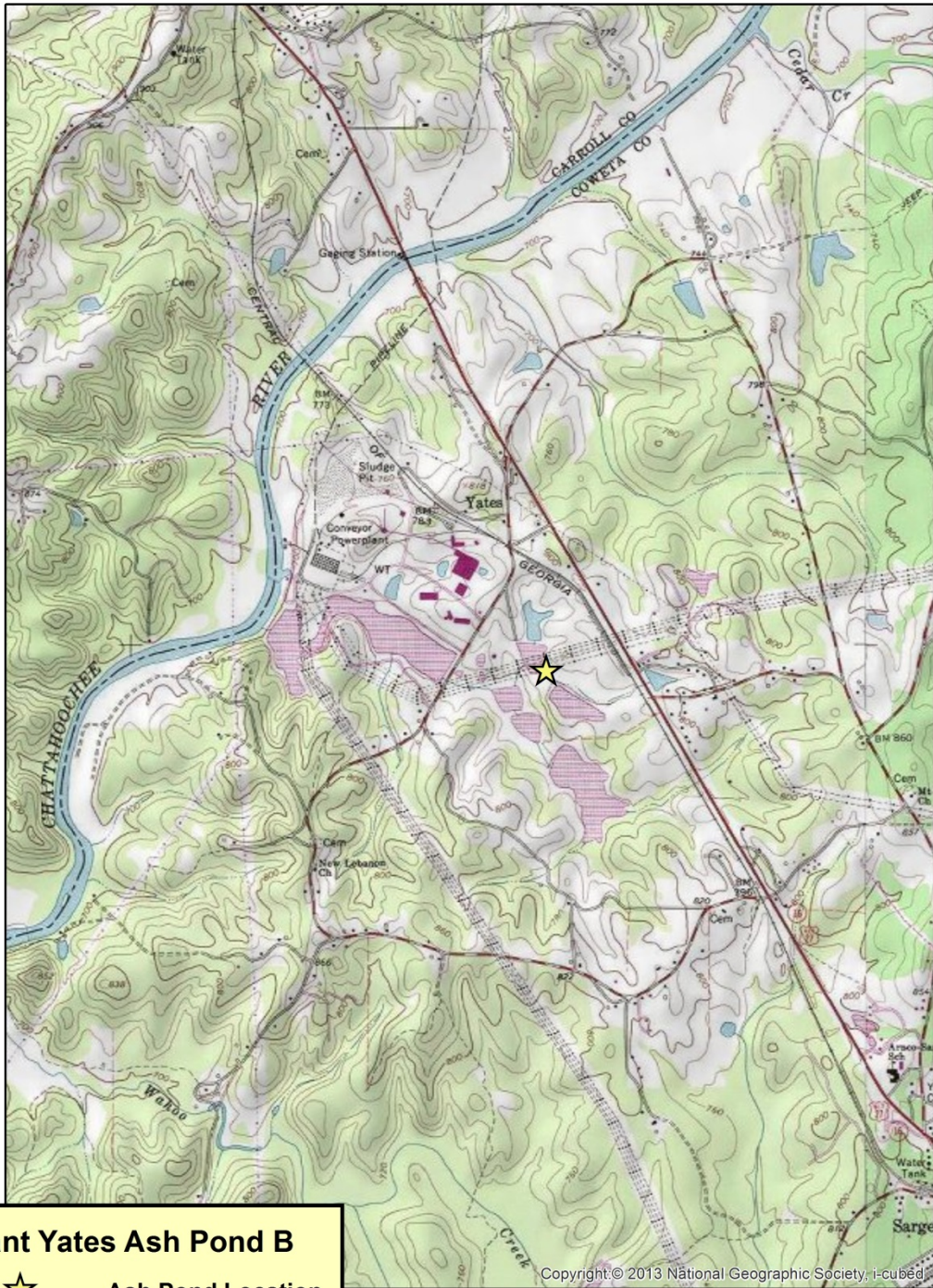
Construction specifications:

As this was originally constructed by a contractor for temporary purposes, there are no design or construction documents available.

(xii) Known record of structural instability:

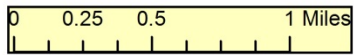
There is no known record of structural instability at the CCR unit.

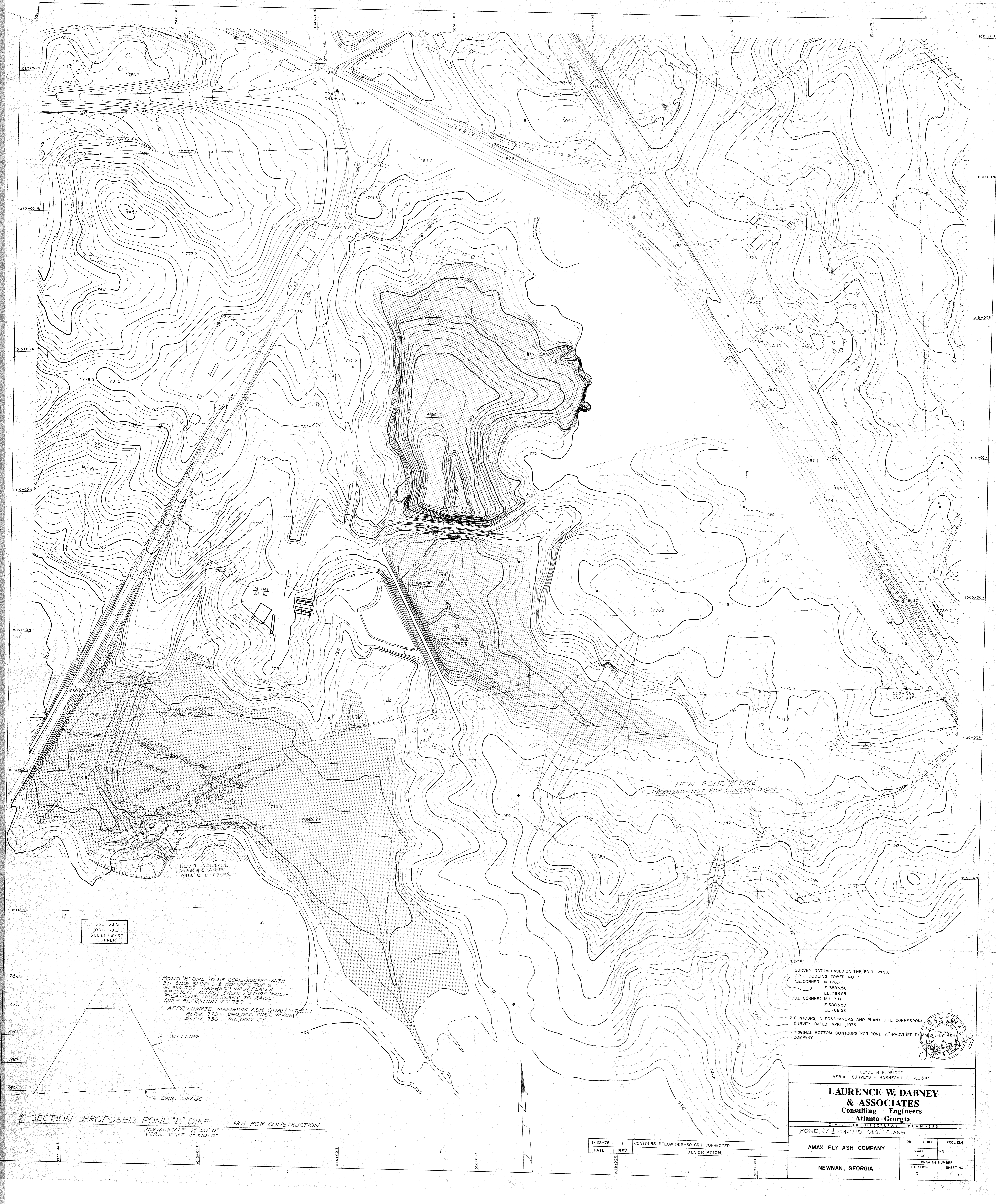
Appendix



Plant Yates Ash Pond B

N ☆ Ash Pond Location
USA Topo Maps





996+38 N
1031+68 E
SOUTH-WEST
CORNER

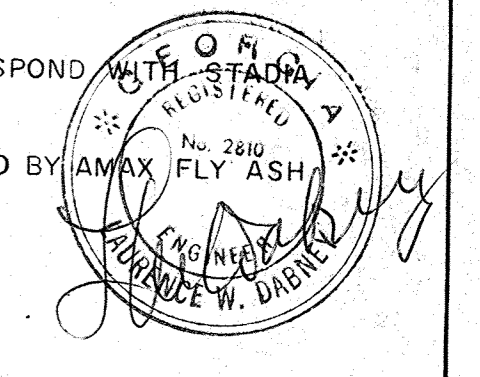
POND "B" DIKE TO BE CONSTRUCTED WITH
3:1 SIDE SLOPES & 20' WIDE TOP &
ELEV. TO BE DASHED LINES (PLAN &
SECTION VIEWS) SHOW FUTURE MODI-
FICATIONS NECESSARY TO RAISE
DIKE ELEVATION TO 780.

APPROXIMATE MAXIMUM ASH QUANTITIES:
ELEV. 770 - 240,000 CUBIC YARDS
ELEV. 780 - 740,000 "

SECTION - PROPOSED POND "B" DIKE NOT FOR CONSTRUCTION
HORIZ. SCALE - 1" = 50' 0"
VERT. SCALE - 1" = 10' 0"

NEW POND "B" DIKE
PROPOSED - NOT FOR CONSTRUCTION

- NOTE:
1. SURVEY DATUM BASED ON THE FOLLOWING:
G.R.C. COOLING TOWER NO. 7
N.E. CORNER: N 1176.77
E 3885.50
ELEV. 768.88
S.E. CORNER: N 1113.11
E 3883.50
ELEV. 768.58
 2. CONTOURS IN POND AREAS AND PLANT SITE CORRESPOND TO SURVEY DATED APRIL, 1975.
 3. ORIGINAL BOTTOM CONTOURS FOR POND "A" PROVIDED BY AMAX FLY ASH COMPANY.



CLYDE N. ELDRIDGE
AERIAL SURVEYS - BARNESVILLE, GEORGIA

**LAURENCE W. DABNEY
& ASSOCIATES**
Consulting Engineers
Atlanta - Georgia
CIVIL - ARCHITECTURAL - PLANNERS

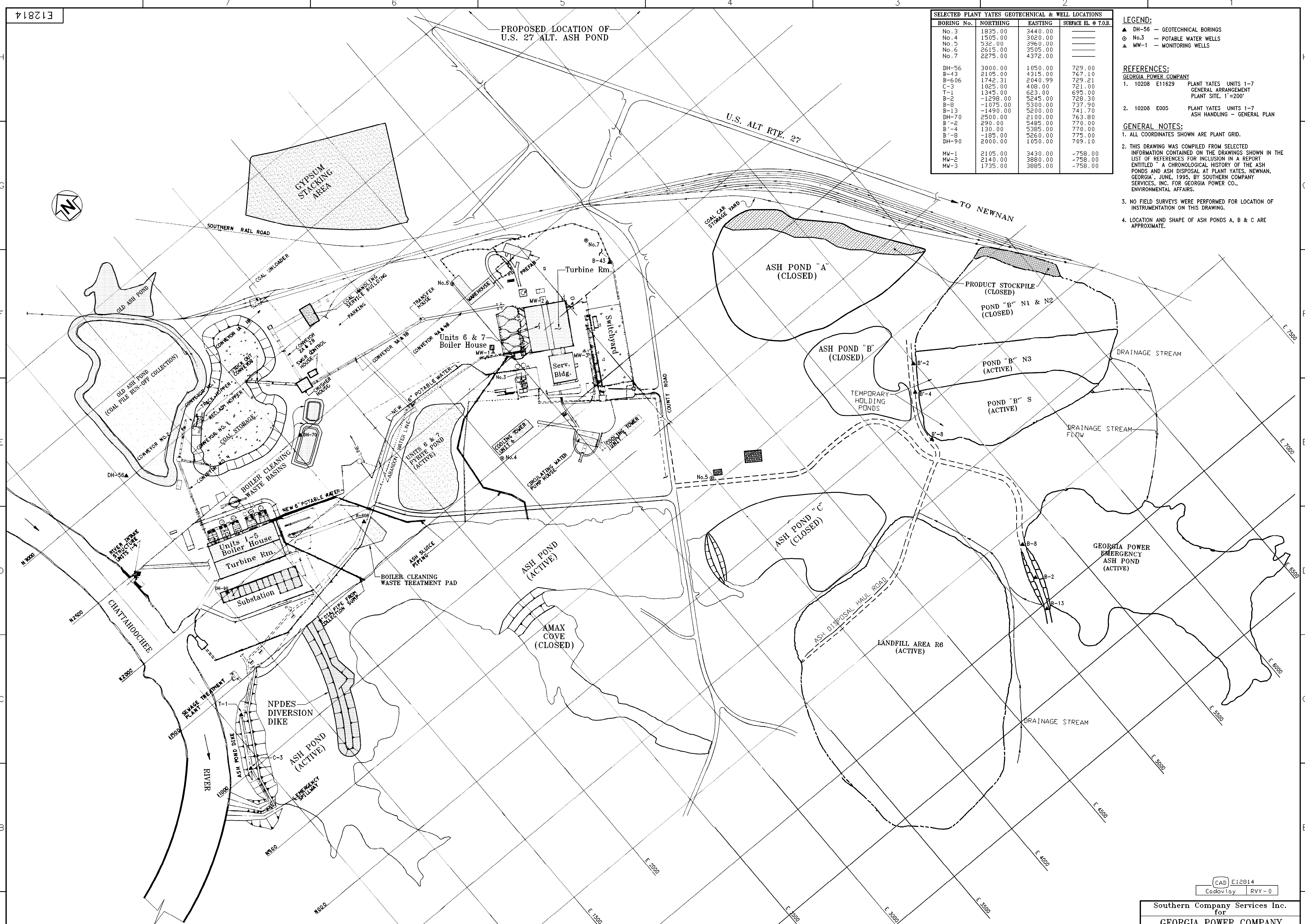
POND "C" & POND "B" DIKE PLANS

DATE	REV.	DESCRIPTION	DR.	CHK'D	PROJ. ENG.
1-23-76	1	CONTOURS BELOW 996+50 GRID CORRECTED			
			AMAX FLY ASH COMPANY		
				SCALE 1" = 100'	DR. NO. RN
			NEWNAN, GEORGIA	LOCATION	DRAWING NUMBER
				10	SHEET NO. 1 OF 2

PROPOSED LOCATION OF U.S. 27 ALT. ASH POND

SELECTED PLANT YATES GEOTECHNICAL & WELL LOCATIONS			
BORING No.	NORTHING	EASTING	SURFACE EL. @ T.O.B.
No. 3	1835.00	3440.00	
No. 4	1505.00	3020.00	
No. 5	532.00	3960.00	
No. 6	2615.00	3505.00	
No. 7	2275.00	4372.00	
DH-56	3000.00	1050.00	729.00
B-43	2105.00	4315.00	767.10
B-606	1742.31	2040.99	729.21
C-3	1025.00	408.00	721.00
T-1	1345.00	623.00	695.00
B-2	-1298.00	5245.00	728.30
B-8	-1075.00	5300.00	737.90
B-13	-1490.00	5200.00	741.70
DH-70	2500.00	2100.00	763.80
B'-2	290.00	5485.00	770.00
B'-4	130.00	5385.00	770.00
B'-8	-185.00	5260.00	775.00
DH-90	2000.00	1050.00	709.10
MW-1	2105.00	3430.00	-758.00
MW-2	2140.00	3880.00	-758.00
MW-3	1735.00	3885.00	-758.00

- LEGEND:**
 ▲ DH-56 — GEOTECHNICAL BORINGS
 ⊙ No.3 — POTABLE WATER WELLS
 ▲ MW-1 — MONITORING WELLS
- REFERENCES:**
 GEORGIA POWER COMPANY
 1. 10208 E11629 PLANT YATES UNITS 1-7 GENERAL ARRANGEMENT PLANT SITE, 1"=200'
 2. 10208 E005 PLANT YATES UNITS 1-7 ASH HANDLING — GENERAL PLAN
- GENERAL NOTES:**
 1. ALL COORDINATES SHOWN ARE PLANT GRID.
 2. THIS DRAWING WAS COMPILED FROM SELECTED INFORMATION CONTAINED ON THE DRAWINGS SHOWN IN THE LIST OF REFERENCES FOR INCLUSION IN A REPORT ENTITLED "A CHRONOLOGICAL HISTORY OF THE ASH PONDS AND ASH DISPOSAL AT PLANT YATES, NEWNAN, GEORGIA, JUNE, 1995, BY SOUTHERN COMPANY SERVICES, INC. FOR GEORGIA POWER CO., ENVIRONMENTAL AFFAIRS."
 3. NO FIELD SURVEYS WERE PERFORMED FOR LOCATION OF INSTRUMENTATION ON THIS DRAWING.
 4. LOCATION AND SHAPE OF ASH PONDS A, B & C ARE APPROXIMATE.



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE

CAD E12814
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Southern Company Services Inc.
 for
GEORGIA POWER COMPANY

PLANT YATES
 COMPILATION OF ASH POND,
 ASH STORAGE, MONITORING WELLS and
 BOILER CLEANING WASTE BASINS LOCATIONS

ISSUED FOR RECORD SUMMARY
 REA #: EN95005 EWO: 3490ET
 FOR APPV'S—SEE EDRF 9506063

DESIGNED R.WOOD	DRAWN R.VOYUNG	CHECKED R.W.
SCALE	LOCATION	DRAWING NUMBER
1"=200'	10202	E12814

06-05-95 2:29p