

REPORT OF ANNUAL INSPECTION OF CCR SURFACE IMPOUNDMENT

FACILITY NAME: Gorgas Steam Plant – Ash Pond Dam

OWNER/OPERATOR OF FACILITY: Alabama Power Company

INSPECTION DATE: May 12, 2016

INSPECTING ENGINEER: Jason S. Wilson, P.E. (Alabama P.E. License #28561)

Southern Company Services, Technical Services – Senior Engineer, Fossil Dam Safety

ANY CHANGES IN GEOMETRY OF THE IMPOUNDING STRUCTURE SINCE THE PREVIOUS ANNUAL INSPECTION?

NO

(IF YES, DESCRIBE):

LOCATION AND TYPE OF EXISTING INSTRUMENTATION

See Attached Table 1

MAXIMUM RECORDED READING OF EACH INSTRUMENT SINCE PREVIOUS ANNUAL INSPECTION

Deformation Monuments Only

APPROXIMATE MINIMUM, MAXIMUM AND PRESENT DEPTH AND ELEVATION OF THE IMPOUNDED WATER SINCE PREVIOUS ANNUAL INSPECTION

MIN. DEPTH: less than 1 foot

MAX. DEPTH: 62 ft

PRESENT DEPTH: up to 62 feet

MIN. ELEVATION: EL 320 ft

MAX. ELEVATION: EL 382 ft

PRESENT. ELEVATION: EL 382 ft

APPROXIMATE MINIMUM, MAXIMUM AND PRESENT DEPTH AND ELEVATION OF CCR SINCE PREVIOUS ANNUAL INSPECTION.

MIN. DEPTH: less than 1 ft

MAX. DEPTH: 120 ft

PRESENT DEPTH: up to 120 feet

MIN. ELEVATION: EL 270 ft (est.)

MAX. ELEVATION: EL 387 ft

PRESENT ELEVATION: up to EL 387 ft

APPROXIMATE STORAGE CAPACITY OF IMPOUNDING STRUCTURE AT TIME OF INSPECTION.

27,000,000 cubic yards

APPROXIMATE VOLUME OF IMPOUNDED WATER AND CCR AT TIME OF INSPECTION

WATER: 9,500,000 yd³*

CCR: 16,250,000 yd³*

ANY APPEARANCE 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 APPURTENANT STRUCTURES?

NO

(IF YES, DESCRIBE):

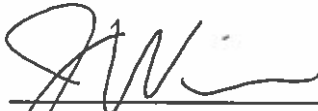
ANY OTHER CHANGE(S) WHICH MAY HAVE AFFECTED THE STABILITY OR OPERATION SINCE THE PREVIOUS ANNUAL INSPECTION?

NO

(IF YES, DESCRIBE):

*Volume figures are estimated derived from available information.

Based on the results of my inspection and review of the data provided, it is my professional opinion that the report has been completed in accordance with 40 CFR 257.83(b).



Jason S. Wilson, P.E.

1/12/2017
Date



TABLE 1: INSTRUMENTATION TYPE AND LOCATION – GORGAS ASH POND		
INSTRUMENT NUMBER	INSTRUMENT TYPE	LOCATION
SM-101	Deformation Survey Monument (Vertical and Horizontal)	Crest (Top) of Dam, Near Left (West) Abutment
SM-102	Deformation Survey Monument (Vertical and Horizontal)	Crest of Dam, Left Portion of Dam
SM-103	Deformation Survey Monument (Vertical and Horizontal)	Crest of Dam, Center-Left Portion of Dam
SM-104	Deformation Survey Monument (Vertical and Horizontal)	Crest of Dam, Center-Right (East) Portion of Dam
SM-105	Deformation Survey Monument (Vertical and Horizontal)	Crest of Dam, Right Portion of Dam
SM-106	Deformation Survey Monument (Vertical and Horizontal)	Crest of Dam, Near Right Abutment
WEIR	Seepage Weir	Toe (Bottom) of Ash Pond, Center-Right portion of dam