

CCR 2022 Inspection Report

AES Puerto Rico

Introduction

Purpose	Annual inspection under the Standards for the Disposal of Coal Combustion Residuals From Electric Utilities of April 17, 2015 (CCR Rule).
Scope	Review of available information and perform a direct visual inspection of the AES Puerto Rico (AES-PR) Agremax™ Stockpile Area.

Facility Location

General	AES-PR is located in the south coast of the island of Puerto Rico, about 3.4 miles southwest of downtown Guayama.
Address	AES Puerto Rico Km 142.0 State Road PR-3 Guayama, Puerto Rico 00784

Facility Description

AES-PR is a bituminous coal power plant that generates and sells electricity to the Puerto Rico Electric Power Authority with a total power generation capacity of 520 Megawatts. Using its own CCRs, AES-PR also produces a manufactured aggregate, known as Agremax™. Dry ashes are mixed in a pug mill that conditions this CCR to produce Agremax™ before feeding a conveyor belt used to transfer the mixture to the Stockpile Area at the southeast side of the facility. A stockpile to store the inventory of Agremax™ is formed by a bulldozer or by dump trucks that are loaded with Agremax™ by an excavator or front end loader; the trucks then place the Agremax™ onto a stockpile. From the Stockpile Area Agremax™ can be fed by a bulldozer into a crusher located in the Stockpile Area. The crusher feeds a covered conveyor to transfer the Agremax™ to marine vessels in the AES-PR dock area for shipment overseas.

CCR Unit Description

Location The Stockpile Area is located at the southeast quadrant of the AES-PR facility, south of the power plant and east of the limestone storage dome.

Components Equipment and facilities of the Stockpile Area include a front-end loader, a bulldozer, a backhoe, a water truck with rear spray nozzles and front water cannon, mobile water sprinkler guns, large water hoses, fixed water spray nozzle systems, and a feeder / breaker mill. It also includes a physical containment system to prevent run-on or migration of sediments and runoff from the stockpile. It is composed of drainage channels made of reinforced concrete and concrete low wall external to an internal road at the south side of the Stockpile Area.

Review of Available Information

The available inspection records did not identify significant issues during said inspections. Maintenance was ongoing and controls were operational.

Visual Inspection

Date Friday August 12, 2022.

Time/Weather Afternoon / calm wind and sunny weather conditions prevailed.

Methodology and Limiting Conditions WRE confirmed the Stockpile Area boundaries and performed a reconnaissance around its accessible perimeter and terraces but did not look at areas where gaining access may have presented a health and/or safety hazard. The Stockpile Area was observed for visual evidence of signs of distress or malfunction.

Escort Jose Manautou, AES CCP Coordinator, provided escort during the visual inspection.

General Observations	The western half of the Stockpile Area and its gabion wall section had been removed to allow the completion of the Agremax™ Staging Area Liner Project. The east portion of the Stockpile Area was operational at the time of the visual inspection with trucks moving up and down the access road. A main work terrace with berms on the edges was observed at the top.
Access Road	The Stockpile Area access road was observed to be well graded, with Agremax™ berms on the edges, wetted and with some rills created by over watering.
Stockpile Surface / Slopes	No animal burrows were observed. Slopes appeared stable and adequate.
Erosion	No significant erosion was observed on the slopes of the Stockpile Area.
Dust	Operational dust controls, including the water truck, large water hoses and fixed water spray nozzles systems were observed. Stockpile surfaces appeared wet or crusted, therefore the water hoses and spray nozzles system were not operational at the time. No fugitive dust plumes were observed on the Stockpile Area at the time of inspection.
Sediment	No sediment accumulations were observed in the concrete channel that rings the Stockpile Area.
Drainage	The drainage channels surrounding the Stockpile Area were observed clean and unobstructed.
Containment Structures	The low wall appeared to be structurally sound.

Conclusions

Changes in Geometry	The height of the Stockpile was estimated at 20 feet above ground surface.
Potential Structural Weaknesses	Based on the visual inspection, no apparent or potential structural weaknesses of the stockpile and its ancillary structures were observed.

Certification

I hereby certify that I visually inspected and prepared this Report for the Agremax™ Stockpile Area, owned and operated by AES-PR in accordance with the Coal Combustion Residuals Rule 40 CFR 257.84(b). I am a dully-licensed Professional Engineer under the laws of Puerto Rico.



Winston R. Esteves P.E.

9/28/22
Date

8827
License Number

8/31/23
License Renewal Date



P.E. Seal