HISTORY OF CONSTRUCTION

40 CFR 257.100(i)(4) and 40 CFR 257.73(c)(1)(i)-(xii)
HUTSONVILLE POWER STATION - ASH POND D
AMERENENERGY MEDINA VALLEY COGEN, LLC

In accordance with 40 CFR 257.100(i)(4), owners and operators of legacy CCR surface impoundments that completed closure of the unit in accordance with § 257.102(d) or that meet the requirements in § 257.101(g) prior to Friday, November 8, 2024 must compile a history of construction as set forth by § 257.73(c).

To the extent feasible, AmerenEnergy Median Valley Cogen, LLC has provided documentation supporting the history of construction for Ash Pond D as outlined in paragraphs §257.73(c)(1)(i)-(xii) below.

§257.73(c)(1)(i): The name and address of the person(s) owning or operating the CCR unit; the name associated with the CCR unit; and the identification number of the CCR unit if one has been assigned by the state.

Owner Name:	AmerenEnergy Medina Valley Cogen, LLC
Owner Address:	1901 Chouteau Avenue St. Louis, Missouri 63103
Site Name:	Hutsonville Power Station
CCR Unit Name:	Ash Pond D
CCR Unit ID Number:	W0330100003-04

§257.73(c)(1)(ii): The location of the CCR unit identified on the most recent U.S. Geological Survey (USGS) 7 ½ minute or 15 minute topographic quadrangle map, or a topographic map of equivalent scale if a USGS map is not available.

Latitude: 39°7'49.59"N
Longitude: 87°39'23.50"W
The site location map is provided in Appendix A.

§257.73(c)(1)(iii): A statement of the purpose for which the CCR unit is being used.

Ash Pond D is an inactive closed CCR surface impoundment.

§257.73(c)(1)(iv): The name and size in acres of the watershed within which the CCR unit is located.

Watershed Name: Middle Wabash – Busseron
Watershed Size: 1,298,028 acres

§257.73(c)(1)(v): A description of the physical and engineering properties of the foundation and abutment materials on which the CCR unit is constructed.

Based on information from the Site subsurface and published reports, the geology of the Site consists primarily of Wisconsinan Stage fluvial deposits with some Illinoian Stage diamictons overlying Pennsylvanian bedrock. There are various fill materials along with three surficial (unlithified) units identified at the Site (oldest to youngest): silty/clayey diamictons of the Glasford Formation, poorly sorted, outwash sands and gravels of the Henry Formation, and fine-grained fluvial deposits classified as Cahokia Alluvium (Willman et al., 1975; Hansel & Johnson, 1996; Fafalios & Hensel, 1999). Bedrock at the Site is composed of Pennsylvanian Age rock of the Missourian Series Mattoon Formation of the McLeansboro Group. Two lithologies are present at the Site. To the west, the upper bedrock is composed of sandstone of the Merom Sandstone Member (Willman et al., 1975). Closer to the Wabash River, there is a well incised bedrock valley [depths to bedrock vary from 10-15 feet belowground surface (ft. bgs) in the uplands on the western parts of the Site to over 90 ft. bgs in the southeast corner of the Site (Fafalios & Hensel, 1999)]. In the bedrock valley (below elevation 405 ft.), post-glacial erosion has exposed the lithified silts and clays of an undifferentiated shale of the Mattoon Formation (Hanson, NRT, 2014).

§257.73(c)(1)(vi): A statement of the type, size, range, and physical and engineering properties of the materials used in constructing each zone or stage of the CCR unit; the method of site preparation and construction of each zone of the CCR unit; and the approximate dates of construction of each successive stage of construction of the CCR unit.

Ash Pond D was operational between 1968 and 2000 for disposal of coal combustion wastes (CCWs) at the Site. Closure of Ash Pond D was completed in October 2012 (Geotechnology, 2013).

§257.73(c)(1)(vii): At a scale that details engineering structures and appurtenances relevant to the design, construction, operation, and maintenance of the CCR unit, detailed

dimensional drawings of the CCR unit, including a plan view and cross sections of the length and width of the CCR unit, showing all zones, foundation improvements, drainage provisions, spillways, diversion ditches, outlets, instrument locations, and slope protection, in addition to the normal operating pool surface elevation and the maximum pool surface elevation following peak discharge from the inflow design flood, the expected maximum depth of CCR within the CCR surface impoundment, and any identifiable natural or manmade features that could adversely affect operation of the CCR unit due to malfunction or mis-operation.

Not applicable to this inactive closed CCR surface impoundment.

§257.73(c)(1)(viii): A description of the type, purpose, and location of existing instrumentation.

Not applicable to this inactive closed CCR surface impoundment.

§257.73(c)(1)(ix): Area-capacity curves for the CCR unit.

Not applicable to this inactive closed CCR surface impoundment.

§257.73(c)(1)(x): A description of each spillway and diversion design features and capacities and calculations used in their determination.

Not applicable to this inactive closed CCR surface impoundment.

§257.73(c)(1)(xi): The construction specifications and provisions for surveillance, maintenance, and repair of the CCR unit.

Inspection of the facility will be conducted on a quarterly basis for a minimum period of 5 years after closure. After 5 years, the inspection will be made semi-annually as long as the assessment will not be compromised due to the reduced frequency and that a request to monitor the groundwater monitoring system semi-annually is approved. After 5 additional years of semi-annual monitoring, the inspection will be made annually pending approval of an annual groundwater monitoring schedule. Discontinuance of the site inspections will occur after Illinois Environmental Protection Agency approval of the certified Post-Closure Care Report. Written record of the inspection(s) will be made and retained at the facility or the site operator's office. The inspector will assess the condition and need for repair of final cover and vegetation, as well as fencing, monitoring points, and surface water control features (Hanson, 2011).

§257.73(c)(1)(xii): Any record or knowledge of structural instability of the CCR unit.

There are no known structural instability issues associated with Ash Pond D.

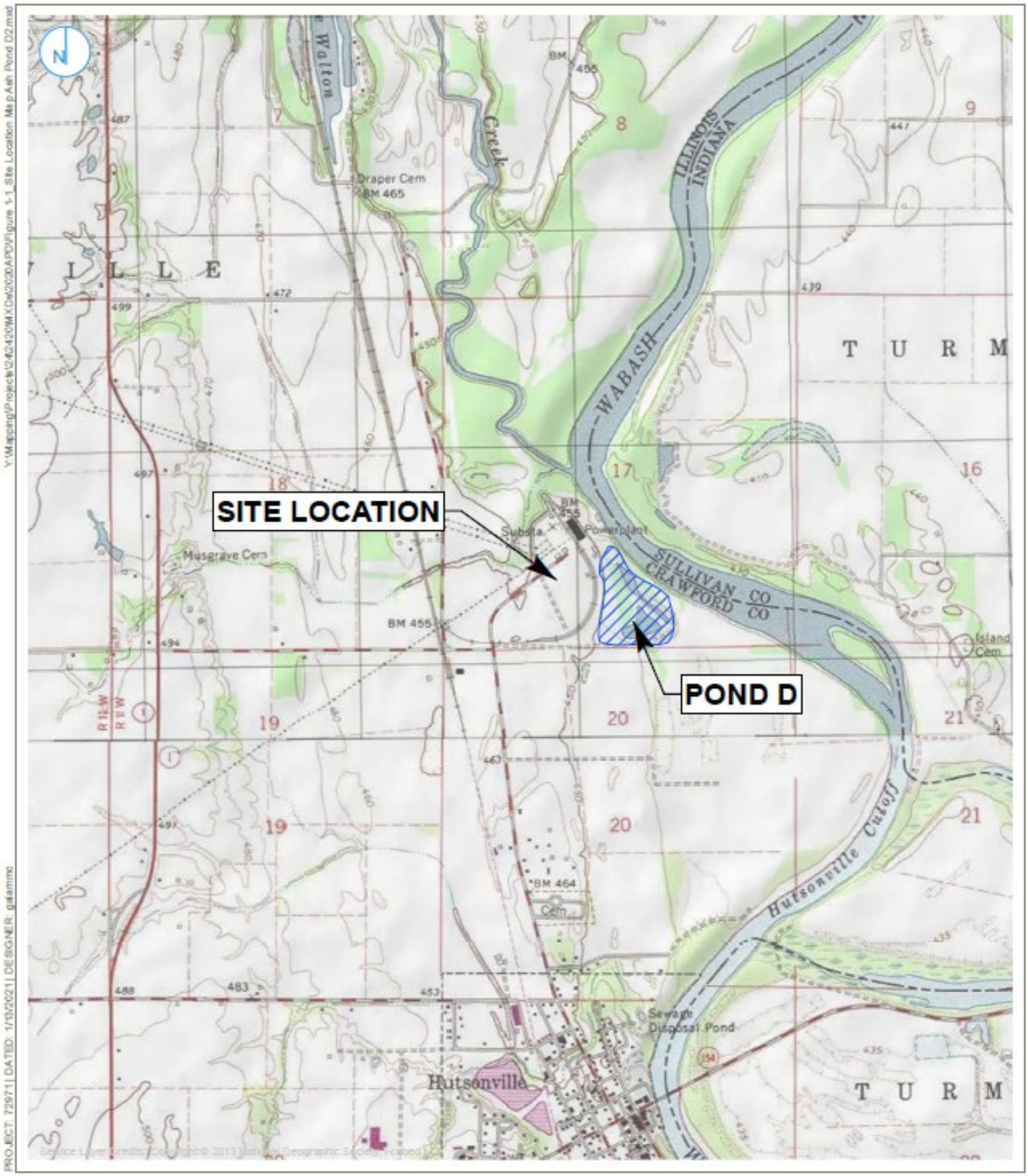
REFERENCES

Hanson Professional Services, Inc. (Hanson) & Natural Resource Technology, Inc. (NRT), 2014. *Ash Ponds Closure, Hydrogeologic Site Investigation, Hutsonville Power Station*. September 8, 2014.

Geotechnology, Inc. (Geotechnology), 2013. *Construction Quality Assurance Report, Ash Pond D Closure, Hutsonville Power Station*. January 17, 2013.

Hanson Professional Services, Inc. (Hanson), 2011. *Post-Closure Care Plan, Closure of Ash Pond D, Hutsonville Power Station*. July 26, 2011.

APPENDIX A
Location Map



Y:\Mapping\Projects\2024\2420\MXD\el2020APDFigure 1-1_Site Location Map Ash Pond D2.mxd
PROJECT: 72971 | DATED: 1/13/2021 | DESIGNER: gdamme

Map Scale: 1:1:24,000;
Map Center: 87°39'45"W 39°7'53"N

0 1,000 2,000 Feet

SITE LOCATION MAP

2025 ANNUAL REPORT
FORMER HUTSONVILLE
POWER STATION - ASH POND D
AMEREN ENERGY MEDINA VALLEY COGEN, LLC
HUTSONVILLE, IL

FIGURE 1-1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC
A RAMBOLL COMPANY

RAMBOLL