

From: Brian Flock
To: [Becker, James M](mailto:James.Becker@pnnl.gov)
Subject: RE: Clinch River small modular nuclear reactor project- 2 figures this time
Date: Friday, November 03, 2017 12:10:29 PM

Unfortunately the way the data is aggregated it is difficult to really give you good answers on some of this. I know that all the data is based on bats in hand because it was from scientific permits and we don't have any way with our system to track acoustics. For the roost data I know that in those two areas I have clusters of bats data and my familiarity with the projects that were done there I know that in those clusters were at least 1 maternity roost.

Closest known I Bat Hibernacula are Grassy Cove Saltpeter (Cumberland County) and White Oak Blowhole (Blount County, Smoky National Park) both 30+ miles
Closest known NLEB is Marble Bluff Cave (Roane County) 8 miles It also has summer record of Gray Bats (TVA data)
Hibernacula data with cave name and county can be found here
http://www.tnbwg.org/TNBWG_WNS.html

Brian Flock, Ph. D.

From: Becker, James M [<mailto:James.Becker@pnnl.gov>]
Sent: Friday, November 3, 2017 12:44 PM
To: Brian Flock
Subject: RE: Clinch River small modular nuclear reactor project- 2 figures this time

Thank you for helping. I have some further questions. Hope you don't mind.

To what do the distances refer, mist net captures or acoustic recordings of the species within those distances from the peninsula? Or is it something else?

When you say the closest roost, does that mean maternity roost or non-maternity (satellite male/non-reproductive female) roost?

Anything on gray bat roosts or hibernacula? Anything on NLEB or IB hibernacula?

Are you at liberty to release data or reports related to the above?

Thanks again,

Jim

From: Brian Flock [<mailto:Brian.Flock@tn.gov>]
Sent: Friday, November 03, 2017 8:18 AM

To: Becker, James M

Subject: RE: Climch River small modular nuclear reactor project- 2 figures this time

Sorry, It took me longer than expected. I lost access to ArcGIS for about 3 weeks, which put me behind. I used the peninsula to estimate distances.

Here is what I can give you.

0 to 4 miles Gray bat

8 to 12 miles Gray bat and Northern Myotis

16 to 20 miles Gray bat

Closest Indiana bat roost we have data on is Blount County, Cherokee Forest

Closest Northern Myotis roost we have data on is Morgan County, Catoosa WMA

Hope this helps for your review.

Brian Flock, Ph. D.

Wildlife Action Plan Coordinator

Tennessee Wildlife Resources Agency

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Nashville, TN 37204

Ph: 615-781-6569

From: Becker, James M [<mailto:James.Becker@pnnl.gov>]

Sent: Thursday, August 17, 2017 1:40 PM

To: Brian Flock

Subject: FW: Climch River small modular nuclear reactor project- 2 figures this time

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Trying again...

From: Becker, James M

Sent: Thursday, August 17, 2017 11:09 AM

To: 'brian.flock@tn.gov'

Subject: FW: Climch River small modular nuclear reactor project

From: Becker, James M

Sent: Wednesday, August 16, 2017 9:06 AM
To: 'Chris Simpson'
Subject: RE: Clinch River small modular nuclear reactor project

Thought I did but didn't. Here they are. Thanks, Jim

From: Chris Simpson [<mailto:Chris.Simpson@tn.gov>]
Sent: Wednesday, August 16, 2017 6:52 AM
To: Becker, James M
Subject: RE: Clinch River small modular nuclear reactor project

Thank you, did you send any attachments? Thanks, Chris.

From: Becker, James M [<mailto:James.Becker@pnnl.gov>]
Sent: Tuesday, August 15, 2017 7:01 PM
To: Chris Simpson
Subject: Clinch River small modular nuclear reactor project

Hi Chris,

I have attached several figures to help you find and orient yourself to the above project. As we discussed on the phone, TVA proposes to construct and operate a small modular nuclear reactor on what I will call the Clinch River peninsula in the Clinch River arm of Watts Bar Reservoir. The Clinch River Site (CRN Site) is labeled in pink in the first figure. The CRN Site and the adjacent Grassy Creek Habitat Protection Area (HPA) is shown in the 2nd figure. In addition to these, the Barge Traffic Area (BTA) is found in the 3rd figure. The BTA would also be developed and road improvements made for the unloading of large components transported upriver.

Note that TVA's environmental report (part of its application to the Nuclear Regulatory Commission for this project) states that there are no known caves or mines on the Clinch River Site, the 935 acre project area. There are also no known caves in the Grassy Creek HPA. Liz Hamrick's bat survey report for the project states the following about nearby caves,

"Exposed rock features reflect that underground karst features are present in some areas, which may provide habitat for small mammals, green salamanders, and roosting bats. Two previously documented caves (Gage 2011), Rennie's Cave and 2-Batteries Cave, are located within Grassy Creek HPA. Three additional caves/karst openings near Grassy Creek were encountered by botanical staff during surveys of the HPA....Roosting bats were observed in Rennie's Cave by archaeological surveyors in April, 2011. Photos of 2 individual bats were taken by surveyors and later reviewed by terrestrial zoology staff. One bat was identified as a tricolored bat (*Perimyotis subflavus*); the other bat individual could not be identified based on the photo."

Hope this helps. There may well be more caves in the nearby area, but these are the

only ones noted in TVA's references. If you have any questions, call at 509-371-7186.

Thank you,

Jim

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