

From: Nuse, Brenda D [Brenda.D.Nuse@cengllc.com]
Sent: Thursday, April 07, 2011 6:59 AM
To: Quinn, Laura
Cc: Burkman, Jim
Subject: RE: Calvert Cliffs horseshoe crabs

The "dozens" are per incident during the summer waterbox cleanings. I spoke with our maintenance and engineering staff to get a more accurate number, and they estimate we removed 250-300 crabs from water boxes during 2010.

I'm sorry about the delay getting back to you, it took me awhile to find the right people to get an accurate estimate. This information is from the men that scheduled waterbox cleanings and actually removed the crabs from the waterboxes.

If you have any questions, or need additional information, please let me know.

-Brenda

From: Quinn, Laura [<mailto:Laura.Quinn@nrc.gov>]
Sent: Monday, March 28, 2011 9:50 AM
To: Nuse, Brenda D
Cc: Burkman, Jim
Subject: RE: Calvert Cliffs horseshoe crabs

Brenda,
Are the "dozens" killed a per year or per incident number? If per incident, about how many incidents per year?
Thanks
Laura

From: Nuse, Brenda D [<mailto:Brenda.D.Nuse@cengllc.com>]
Sent: Monday, March 28, 2011 7:24 AM
To: Quinn, Laura
Cc: Burkman, Jim
Subject: Calvert Cliffs horseshoe crabs

Laura,

Jim Burkman forwarded your message to me.

Calvert Cliffs has not done formal counts or survival studies on the horseshoe crabs that get into the intake. I spoke with our waterfront maintenance crew, who estimate the number of crabs removed from the trash racks at 4-5 thousand each year. Our current practice is to remove the horseshoe crabs from the trash racks using a mechanical rake. The crabs are then transported to the fish return system downstream of the security grating where they are returned to the Chesapeake Bay. The majority of the crabs are returned to the Bay live and in good condition.

Some of the horseshoe crabs (dozens) get through the trash racks and are carried over the traveling screens into the condenser waterboxes. These crabs do not survive.

The greatest numbers of horseshoe crabs on the trash racks occur around the full moon in May and June. This coincided with their mating patterns, when they head for shore.

We are testing two temporary structures to keep the horseshoe crabs from the trash racks, and encourage them to turn north or south and away from the plant. If successful, this will increase survival of the crabs by keeping them out of the water boxes and also reduce stress to these organisms by reducing the handling of them during the removal from the trash racks and transport back to the Bay.

If you have any questions, or need additional information, please let me know.

-Brenda

Brenda D. Nuse
Sr. Environmental Specialist
Calvert Cliffs Nuclear Power Plant
Lusby, MD 20657
410-495-4913

>>> This e-mail and any attachments are confidential, may contain legal, professional or other privileged information, and are intended solely for the addressee. If you are not the intended recipient, do not use the information in this e-mail in any way, delete this e-mail and notify the sender. CEG-IP2