

ATTACHMENT 1

A SUMMARY OF THE CURRENT STATUS OF TWO FEDERALLY LISTED TIGER BEETLES AT CALVERT CLIFFS NUCLEAR POWER PLANT

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August 29, 2008

Included here is an updated supplement to an earlier report (Knisley 2006) assessing the status of the Puritan (*Cicindela puritana*) and Northeastern Beach (*Cicindela dorsalis dorsalis*) Tiger Beetles at Calvert Cliffs Nuclear Power Plant. This site has been surveyed for tiger beetles each year for most of the last 10 years, and most recently in July 2008. Northeastern Beach tiger beetles have been found only once at the site several years ago when a few were present adjacent to Flag Ponds with the northern most 100 m of shoreline. This beetle will thus not be affected by any planned construction or related activities. Also, no beetles have been found adjacent to the Plant site in recent years and the Flag Ponds population has now declined to the point of near extinction (2 adults in 2008). The Puritan Tiger Beetle is present in scattered sections of the shoreline and adjacent cliffs south of the existing barge dock. Numbers of adults have varied greatly but their distribution along the shore has changed only slightly.

As result of my earlier and most recent 2008 surveys, I conclude that the Puritan Tiger Beetle population at Calvert Cliffs Nuclear Power Plant will not be adversely affected by any of the proposed construction activities in the areas nearest tiger beetle habitat. The planned construction of a heavy haul road to the barge dock will have no impact because these activities will be at a distance sufficient to avoid disturbance to both beetles and habitat. My mapping and habitat examination showed no larval habitat within 300 m of this area and only rarely do a few adults forage on the beach within 200m of the barge dock. In fact, this whole northern 500 m section of the cliffs is marginal habitat. It is my judgment also that the proposed demolition of the Eagles Den building and the installation of the forested wetlands mitigation area would not impact Puritan tiger beetles which could be present on the upper cliff face in this area. This cliff area is marginal habitat and larvae may or may not occur there, but if so, numbers should be low. Larvae would only be affected by severe disturbance to the cliff face in which they are found.

Literature Cited:

Knisley, C. Barry. 2006. Current status of two federally threatened tiger beetles at Calvert Cliffs Nuclear Power Plant, 2006. Draft report to Constellation Generation Group, Baltimore, MD