Serial No. 04-481 Docket No. 52-008 Transmittal of Documents in Response to NRC RAIs

### **Enclosure 9**

Bechtel Calculation 24830-ENV-008, Tornado Frequency Analysis in Response to NRC RAI [Non-Proprietary Version] If you have any questions, suggestions, or problems concerning this, or any other Engineering template, please contact Power GBU Quality Engineering at (301) 228-7606 Press tab to move around in form fields. Rows will automatically adjust where needed.

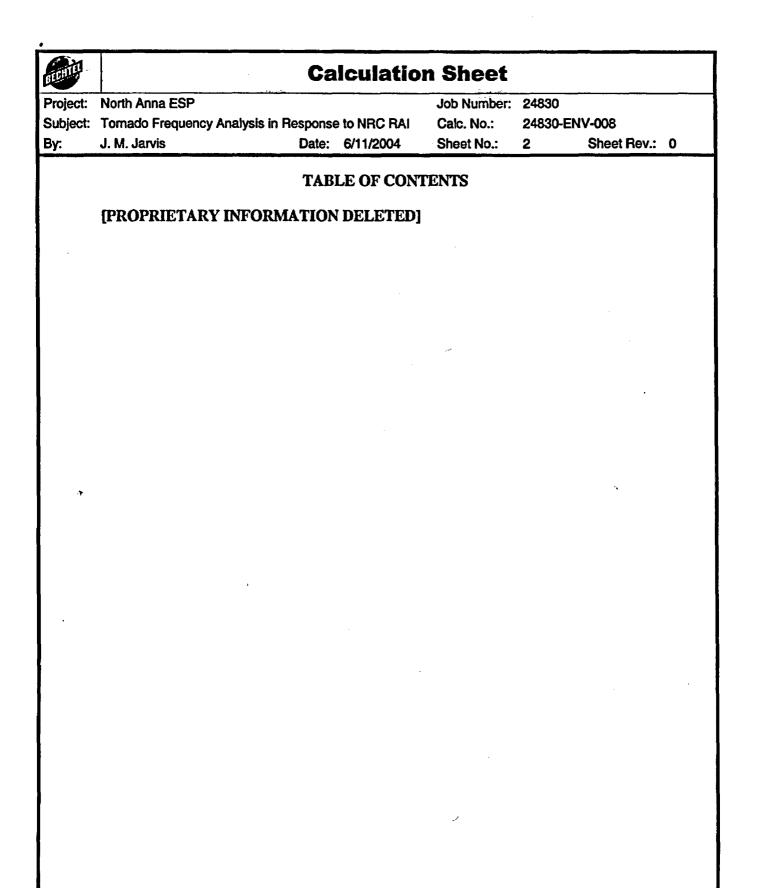
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Project:					J	Job No.:		Ca	Calc. No.:				Sheet:
North Anna ESP					2	24830			24830-ENV-008 1				
Subject:									Discipline:				
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Computer Program/Type		SCP				Program No.			Version/Release No.			•	
		☐ Yes ☒ No			1								
This calculation addresses RAI Letter No. 1 (RAI 2.3.1-1(g)) and RAI Letter No. 7 (RAI 2.3.1-6).  THIS CALCULATION HAS BEEN REVIEWED BY BECHTEL POWER CORPORATION AND ANY PROPRIETARY INFORMATION HAS BEEN REMOVED. WHEREVER PROPRIETARY INFORMATION HAS BEEN REMOVED, BRACKETS HAVE BEEN INSERTED CONTAINING THE STATEMENT "PROPRIETARY INFORMATION DELETED"													
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## **Calculation Sheet**

Project: North Anna ESP

Job Number: 24830

Subject: Tornado Frequency Analysis in Response to NRC RAI

Calc. No.:

24830-ENV-008

Ву: J. M. Jarvis

Date: 6/11/2004

Sheet No.:

Sheet Rev.: 0

### LIST OF FIGURES

[PROPRIETARY INFORMATION DELETED]



# **Calculation Sheet**

Project: North Anna ESP

Job Number: 24830

Subject: Tornado Frequency Analysis in Response to NRC RAI

24830-ENV-008

J. M. Jarvis By:

Date: 6/11/2004

Sheet No.:

Calc. No.:

Sheet Rev.: 0

#### **PURPOSE** 1.

A tornado frequency analysis is required by the NRC [Ref. 1] (see Attachments 1 and 2, Letter No. 1 RAI 2.3.1-1, Question (g) and Letter No. 7 RAI 2.3.1-6) for the proposed North Anna Units 3 and 4 in the Early Site Permit (ESP) application. The main purpose of this analysis is to estimate the tornado strike probability for the proposed Units 3 and 4, and to define the Design Basis Tornado (DBT) for the North Anna ESP site, based on a 2-degree square area, if the estimated tornado frequency is greater than the NRC-defined 10<sup>-7</sup> per year threshold [Ref. 2].

