

## CCNPP3COLA NPEmails

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**From:** Lutchenkov, Dimitri [dimitri.lutchenkov@unistarnuclear.com]  
**Sent:** Monday, March 07, 2011 9:10 AM  
**To:** Anderson, Kathy NAB  
**Cc:** Francis, Woody NAB  
**Subject:** RE: Mitigation Summary (UNCLASSIFIED)  
**Attachments:** Calvert Cliffs NTW tables JJM.DOCX

Attached is the request Word version of the table.

Regards,

*Dimitri Lutchenkov*

Director | Environmental Affairs |  
UniStar Nuclear Energy  
410-470-5524 | m 410-370-9090

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**From:** Anderson, Kathy NAB [<mailto:Kathy.Anderson@usace.army.mil>]  
**Sent:** Friday, March 04, 2011 2:48 PM  
**To:** Lutchenkov, Dimitri  
**Cc:** Francis, Woody NAB  
**Subject:** Mitigation Summary (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Dimitri,

I sent the Baltimore District comments on the draftFEIS to the NRC.

Please see the attached. Can you please provide to me in a Word document so that the tables can be input into the draftFEIS. The .pdf version was sent to NRC today.

I'll coordinate with you on Monday regarding the final version of the mitigation appendix for the draft FEIS. I'd like to wrap that task up on Monday.

<<UnistarMitigation.pdf>>

*Thank you,*

*Kathy B. Anderson*  
*Chief, Maryland Section Southern*  
*U.S. Army Corps of Engineers, Baltimore District*  
*Operations Division, Regulatory Branch*  
*(410) 962-5690*  
*(410) 962-6001(fax)*

[kathy.anderson@usace.army.mil](mailto:kathy.anderson@usace.army.mil)

<http://www.nab.usace.army.mil/Regulatory/index.html>

<http://www.facebook.com/USACEBaltimore>

Classification: UNCLASSIFIED

Caveats: NONE

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**Subject:** RE: Mitigation Summary (UNCLASSIFIED)  
**Sent Date:** 3/7/2011 9:10:10 AM  
**Received Date:** 3/7/2011 9:11:39 AM  
**From:** Lutchenkov, Dimitri

**Created By:** dimitri.lutchenkov@unistarnuclear.com

**Recipients:**

"Francis, Woody NAB" <WOODY.FRANCIS@usace.army.mil>  
Tracking Status: None  
"Anderson, Kathy NAB" <Kathy.Anderson@usace.army.mil>  
Tracking Status: None

**Post Office:** VA3DIAXVS711.RED001.local

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MESSAGE	1578	3/7/2011 9:11:39 AM
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**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

Proposed Project Non Tidal Wetlands and Waters Impact Summary Table

26 Jan 2011 C/E

Wetland Type	Area of Impact	Impact Type
Forested Wetland	7.88 acres	Permanent Grading/Fill
Emergent Wetland	1.21 acres	Permanent Grading/Fill
Open Water	2.63 acres	Permanent Grading/Fill
<b>Total Area of Permanent Impacts = 11.72 acres</b>		

Proposed Stream Mitigation Summary Table

26 Jan 2011 C/E

Proposed Stream Impacts Total (Linear Feet)	Required Stream Mitigation Ratio	Required Linear Feet Stream Mitigation	Proposed Linear Feet Stream Mitigation Totals and Types	Surplus Stream Mitigation Totals (linear feet)
8,350	1:1 (Stream Restoration)	8,350	10,236 Stream Restoration	10,236 - 8,350 = <b>1,886</b> (Stream Restoration @ 1:1 ratio)
			930 Stream Preservation	<b>465</b> (Stream Preservation @ 1:2 ratio)
				<b>1,886 + 465 = 2,351 linear feet</b> <b>Total Surplus</b>

Proposed Non Tidal Wetland & Waters Impacts and Proposed Mitigation Summary Table

26 Jan 2011 C/E

Proposed Wetlands & Waters Impact Totals (type/acres)	Required Mitigation Ratio/Type	Required Wetland & Waters Mitigation (type/acres)	Proposed Wetland / Waters Mitigation Totals (type / acres)*	Surplus Wetland / Waters Mitigation Totals (acres) After Surplus Factored In
Forested / 7.88	1:2 / Forested Creation	Forested / 15.76 Acres	Forested Wetland Creation / <b>12.26 Acres*</b> (3.5 Acres Forested Wetland Creation - Deficit)	4.64 Acres Forested Wetlands Enhancement (surplus) minus 3.5 Acres of Required Created Forested Wetlands (deficit) = 1.14** Acre Surplus of Forested Wetlands Enhancement  ****Note: 2.63 Acres of Open Water Impacts are being mitigated as forested mitigation and are included in the forested wetland creation and enhancement totals
			4.64 Acres Forested Wetland Enhancement @ 1:4 Ratio = <b>18.54 Acres*</b>  (4.64 Acres Forested Wetland Enhancement –Surplus mitigation for forested wetland impacts)	
Emergent / 1.21	1:1 / Emergent Creation	Emergent / 1.21	Emergent Wetland Creation / <b>1.61Acres*</b> (.40 Acre Emergent Wetland Creation Surplus )	1.61 Acres Emergent Wetlands Created minus 1.21 Acres of Required Emergent Wetland Creation = 0.40**Acre Surplus of Emergent Wetland Creation
			0.27 Acres Emergent Wetland Enhancement @ 1:4 Ratio = <b>1.08 Acres*</b>  (0.27 Acres Emergent Wetland Enhancement Surplus ( mitigation for emergent wetland impacts)	0.27** Acre Surplus Emergent Wetland Enhancement  0.40 + 0.27 = 0.67 ** Acre Surplus Emergent Wetland Creation/ Emergent Wetland Enhancement
Open Water / 2.63	0:1 / Open Water Creation	Open Water / 2.63	0.90 Acres Open Water Creation @ 0:1 Ratio = <b>0.90 Acres*</b>  2.63 Acres Open Water Creation required minus 0.90 created = 1.73 Acres Open Water (Deficit)	1.73 Acre Deficit of Open Water Creation ***
<b>Total = 11.72 acres (all types)</b>		<b>Total = 19.60 acres (all types)</b>	<b>*Total = 34.39 acres (all types-in bold)</b>  34.39 minus 19.60 = 14.79 acres Total Proposed Wetland / Waters Mitigation Surplus	Forested Wetland Creation Surplus (1.14 acres) plus Emergent Wetland Enhancement Surplus (.67acres) = 1.81 Acres** Total Surpluses (Forested Wetland Creation and Emergent Wetland Enhancement )  ***Total Deficits = 1.73 Acres Open Water Creation  **** Note: 2.63 Acres of Open Water Impacts are being mitigated as forested mitigation and are included in the proposed forested wetland creation and enhancement totals.

### Wetland Mitigation Credit Summary

Wetland / Mitigation Type	Proposed Mitigation Work Area Amount (acres)	Proposed Impact Amount (acres)	Mitigation Ratio	Proposed Mitigation Credit (acres)	Required Mitigation Credit (acres)	Proposed Net Surplus Credits (acres)
Forested Creation	12.26	7.88	1:2 (Forested Creation)	6.13 (Forested)	10.51 (Forested, includes open water impacts)	+0.26  (Forested)
Forested Wetland Enhancement	18.54		1:4 (Forested Enhancement)	4.64 (Forested)		
Emergent Wetland Creation	1.61	1.21	1:1 (Emergent Creation)	1.61 (Emergent)	1.21 (Emergent)	+0.67  (Emergent)
Emergent Wetland Enhancement	1.08		1:4 (Emergent Enhancement)	0.27 (Emergent)		
Open Water Creation	0.90	2.63	0:1 (Open Water Creation)	0.00 (Open Water)	0.00 (Open water impacts included in forested mitigation)	0.00  (Open Water)
<b>Total Impact Amount = 11.72 acres</b>		<b>Total Proposed Credit Amount = 12.65 acres</b>		<b>Total Proposed Surplus Credits = 0.93 acres</b>		