

DATA REPORT Rev. 1
GEOTECHNICAL EXPLORATION AND TESTING

| Rev. 1

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA NUCLEAR POWER STATION
MINERAL, LOUISA COUNTY, VIRGINIA

| Rev. 1

September 28, 2007

| Rev. 1

VOLUME 4 - APPENDIX F

Prepared For:

Virginia Electric and Power Company
Richmond, Virginia

| Rev. 1

Prepared By:

MACTEC Engineering and Consulting, Inc.
Raleigh, North Carolina

MACTEC Project No. 6468-06-1472

GEOTECHNICAL LABORATORY TEST ASSIGNMENT

Date Revised 11/22/2006 Job Name North Anna COL Job No. 25161 Requested By John Davie

SAMPLE LOCATION				PHYSICAL PROPERTIES						STRENGTH TESTS							COM-PACTION		CONSOLIDATION																		
Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Grain Size Analysis		Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume $K_0 = 0.5$)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.												
								Sieve Only	Sieve + Hydrometer																												
B-901	Jar	3.5	2	x					x																												
* B-901	(T-22")	7.5	UD-1	x					x										x																		
B-901	(T-22")	9.5	UD-2	x					x					x		5,10,20 psi																					
B-901	Jar	11.5	4	x					x	x																											
B-901	(T-12")	13	UD-3																																		
B-901	Jar	22.2	6	x					x																												
B-901	Jar	37.2	9	x			x		x																												
B-901	Core(1)	50	R-5		x															x																	
B-901	Core	60	R-7		x																x																
* B-901	Core	80	R-11		x															x																	
* B-901	Core	85	R-12		x																	x															
B-901	Core	95	R-14		x															x																	
* B-901	Core	106.5	R-18		x															x																	
* B-901	Core	115	R-21		x																	x															
B-901	Core	127	R-25		x															x																	
* B-901	Core	140	R-28		x															x																	
B-901	Core	170	R-34		x																	x															
B-901	Core	200	R-41		x															x		deleted															
B-901	Core	240	R-51		x															x																	
B-901	Core	280	R-59		x																	x															

* CORE NOT SUITABLE FOR TESTING. ^{DSC} 1-22-07 ** TEST RESULTS TO BE SUBMITTED IN A SUPPLEMENTAL REPORT.

Contact John Davie of Bechtel if there are any questions: Phone (301) 228-7647; e-mail JDAVIE@BECHTEL.COM.

(1) For rock core testing, MACTEC will select suitable (and typical) section of the core run for testing, and note actual depth tested.

^{DSC}
1-22-07

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								Sieve Only	Sieve + Hydrometer																														
B-902	Jar	3.5	2	x				x		x																													
B-902	Jar	8.5	4	x			x			x																													
B-902	Jar	13.5	6	x				x																															
B-902	Core(1)	26.8	R-3		x																																		
B-902	Core	46.8	R-9		x																																		
B-902	Core	71.8	R-14		x																																		
B-902	Core	91.7	R-18		x																																		
* B-902	Core	116.7	R-23		x																																		
B-902	Core	141.7	R-28		x																																		
B-902	Core	183.1	R-38		x																																		

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								Sieve Only	Sieve + Hydrometer																																																
B-908	Jar	6	3	x		x																																																			
B-908	Jar	13.5	6			x			x																																																
B-908	Jar	23.7	8						x																																																
B-908	Jar	48.6	13	x																																																					
B-908	Core(1)	66.4	R-2		x																x																																				
B-908	Core	76.4	R-4		x																																																				
B-908	Core	91.4	R-7		x																																																				
B-908	Core	111.4	R-11		x																																																				
B-908	Core	131.4	R-17		x																																																				
B-908	Core	146.4	R-20		x																																																				

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Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Grain Size Analysis		Chemical Analysis (pH, chloride, sulphate)	Organic Content	Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K ₀ = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)							
B-910	Jar	3.5	2	x						x																			
B-910	Jar	11	5	x			x			x																			
B-910	Jar	18.5	7	x						x																			
B-910	Jar	25.9	9	x						x																			
B-910	Core(1)	50.4	R-5		x													x											
*B-910	Core	60.4	R-7		x													x											
B-910	Core	90.4	R-13		x														x										
B-910	Core	120.3	R-20		x													x											
B-910	Core	140.3	R-24		x													x											

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								Sieve Only	Sieve + Hydrometer																																
B-911	Jar	3.5	2	x				x																																	
B-911	Jar	8	4	x					x																																
B-911	Jar	11	5	x				x		x																															
B-911	Jar	18.5	7	x				x																																	
B-911	Core(1)	31.1	R-3		x																																				
B-911	Core	46	R-6		x																x																				
B-911	Core	66	R-10		x															x																					
B-911	Core	81	R-13		x																																				
B-911	Core	96	R-16		x															x																					

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								Sieve Only	Sieve + Hydrometer																															
B-921	Jar	1.5	1	x				x																																
B-921	Jar	6	3	x			x		x																															
B-921	Jar	8.5	4	x					x	x																														
B-921	Jar	13.5	6	x					x																															
B-921	Jar	23.8	8	x			x																																	
B-921	Jar	33.8	10	x				x																																
B-921	Jar	38.8	11	x				x																																
B-921	Jar	63.8	16	x					x																															

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								Sieve Only	Sieve + Hydrometer																										
* B-921A	(T-10")	10	UD-1	x			x		x										x																
B-921A	(T-20")	14.5	UD-2	x					x					x		6,12,24 psi																			
* B-921A	(T-21")	19.5	UD-3	x			x		x											x															
* B-921A	(T-21")	24.5	UD-4	x			x		x											x															
B-921A	(T-6")	35	PB-1																																

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								Sieve Only	Sieve + Hydrometer																													
* B-928A	(T-21")	15	UD-2					x										x																				
B-928A	(T-22")	20	UD-3											x		8,16,32 psi																						
B-928A	(T-8")	25	PB-1																																			
B-928A	(T-8")	27.3	PB-2																																			
* B-928A	(T-8")	35	PB-3					x										x																				

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								Sieve Only	Sieve + Hydrometer																												
* B-933A	(T-15")	10	UD-1	x					x										x																		
B-933A	(T-15")	15	UD-2	x					x					x		6,12,24 psi																					
B-933A	(T-10")	20	UD-3																																		
* B-933A	(T-19")	25	PB-1					x											x																		

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								Sieve Only	Sieve + Hydrometer																
B-945	Jar	1.5	1	x				x																	
B-945	Jar	6.2	3	x					x																
B-945	Jar	11.3	5	x				x		x															
B-945	Jar	19.4	7	x		x		x																	
B-945	Jar	29.4	9	x					x																
B-945	Jar	39.4	11	x				x																	
B-945	Jar	49.4	13	x				x																	

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B-947	Jar	1.5	1	x		x	x																												
B-947	Jar	6	3	x			x		x																										
B-947	Jar	8.5	4	x			x	x																											
B-947	Jar	11	5	x		x			x																										
B-947	Jar	13.5	6	x				x																											
B-947	Jar	18.7	7	x				x		x																									
B-947	Jar	23.7	8	x			x		x																										
B-947	Jar	28.7	9	x			x	x																											
B-947	Jar	33.7	10	x				x																											
B-947	Jar	38.7	11	x				x																											
B-947	Jar	43.7	12	x					x																										

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								Sieve Only	Sieve + Hydrometer															
B948	Jar	1.5	1	x				x																
B-948	Jar	6	3	x				x		x														
B-948	Jar	11	5	x						x														
B-948	Jar	18.5	7	x						x														
B-948	Jar	23.5	8	x						x														
* B-948	Core(1)	35.7	R-2		x													x						
B-948	Core	55.5	R-6		x													x						
B-948	Core	75.7	R-10		x													x						

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Date Revised 11/22/2006 Job Name North Anna COL Job No. 25161 Requested By John Davie

SAMPLE LOCATION				PHYSICAL PROPERTIES						STRENGTH TESTS							COM-PACTION			CONSOLIDATION																							
Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Grain Size Analysis		Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K ₀ = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.																		
								Sieve Only	Sieve + Hydrometer																																		
TP-1	bulk	0-1.5	Bkt-1																			x	deleted																				
TP-1	bulk	1.5-4	Bkt-2																				x	x																			
TP-2	bulk	0-3.75	Bkt-1																				x	x																			
TP-3	bulk	1.9-2.6	Bkt-1																				x	deleted																			
TP-3	bulk	2.6-4.6	Bkt-2																				x	x																			
TP-4	bulk	2.3-3.1	Bkt-1																				x	deleted																			
TP-4	bulk	3.1-4.4	Bkt-2																				x	x																			
TP-5	bulk	0-2.3	Bkt-1																				x	deleted																			
TP-6	bulk	0-4.3	Bkt-1																				x	x																			

Contact John Davie of Bechtel if there are any questions: Phone (301) 228-7647; e-mail JDAVIE@BECHTEL.COM.

(1) For rock core testing, MACTEC will select suitable (and typical) section of the core run for testing, and note actual depth tested.