From: Jan Mazza
To: "Christian Araguas" <CJA2@nrc.gov>,"Deann Raleigh" <draleigh@scientech.com>
Date: 3/3/2008 8:50:24 AM
Subject: Re: Southern Nuclear Slides?

>>> "Deann Raleigh" <draleigh@scientech.com> 3/2/2008 9:43 AM >>>
Dear Christian,

I attended the meeting last week on Southern's LWA on backfill. Unfortunately, I was not able to pick up a copy of their slides. Would you happen to have an electronic copy you could email me?

Thanks,

Deann

Deann Raleigh
Advantage
Scientech
240-626-9556

Hearing Identifier: Vogtle_Public
Email Number: 795

Mail Envelope Properties (47CCF469.HQGWDO01.TWGWPO04.200.2000006.1.E10C1.1)

Subject: Re: Southern Nuclear Slides?
Creation Date: 3/3/2008 8:50:24 AM
From: Jan Mazza

Created By: JMM8@nrc.gov

Recipients
"Christian Araguas" <CJA2@nrc.gov>
"Deann Raleigh" <draleigh@scientech.com>

Post Office	Route
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Options
Priority: Standard
Reply Requested: No
Return Notification: None
None

Concealed Subject: No
Security: Standard

ITAAC for Backfill

Geoscience and Geotechnical Engineering Branch

James George, Geotechnical Engineer
NRO /DSER /RGS1

February 28, 2008

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Why We are Here

- ITAAC required to ensure AP1000 DCD Tier 1 Table 5.0-1 parameters and 2.5.4 analysis backfill assumptions are fulfilled

- Site Parameters of as-built compacted backfill
  - "Shear Wave Velocity greater than or equal to 1000ft/sec based on low-strain, best-estimate soil properties over the footprint of the NI at its excavation depth"
  - "Average allowable Static Soil Bearing Capacity greater than or equal to 8600lb/sqft over the footprint of the NI at its excavation depth"
  - "Maximum allowable Dynamic Bearing Capacity for normal plus safe shutdown earthquake greater than or equal to 35000lb/sqft at the edge of the NI at its excavation depth"

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Shear Wave Velocity

- Shear wave velocity is one of the most important geotechnical parameters used in earthquake engineering applications
  - to calculate site response to earthquakes
  - to calculate surface ground motions through soil amplification
  - to perform soil-structure interaction (SSI) analyses
  - SRP Subsection 3.7.2.II.4.C.ii states in part "… competent material is defined as in situ material having a minimum shear wave velocity of 1000 ft/sec."

Backfill ITAAC

- As-built Shear Wave Velocity Measurements
  - Sufficient in situ confirmatory testing of shear wave velocity is necessary:
    - To characterize and verify uniformity of the compacted structural backfill materials beyond values determined during the Vogtle test pad program
    - Uncertainties involved in predicting in situ shear wave velocity from the test pad program
  - As-built shear wave velocity measurements will provide confirmation of conformance to Tier 1 requirements

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Further Discussion Items

- Static and Dynamic Bearing Capacity
  - Geotechnical calculations are based on the Vogtle test pad data
  - Measured soil parameters for in-situ backfill could be different
  - Would like further discussion of Southern's proposed plans to verify that the as-built site parameters for bearing capacity are consistent with or exceed the DCD values and those assumed in the analyses

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Conclusions

- The properties of the compacted backfill materials must be consistent with the assumed values used for the various geotechnical analyses presented in the application
- ITAAC needs to be conducted to verify that the compacted structural backfill at the Vogtle site meets the minimum shear wave velocity requirement of 1000 ft/sec, as specified in the AP1000 DCD Tier 1 Table 5.0-1

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ppt/slideLayouts/_rels/slideLayout31.xml.rels	311	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout32.xml.rels	311	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout33.xml.rels	311	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout34.xml.rels	311	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout35.xml.rels	311	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout36.xml.rels	311	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout26.xml.rels	446	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout8.xml.rels	311	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout4.xml.rels	311	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout5.xml.rels	311	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout2.xml.rels	311	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout3.xml.rels	311	1/2/80 12:00 AM	
ppt/slideLayouts/_rels/slideLayout1.xml.rels	447	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout27.xml	2,678	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout26.xml	4,023	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout25.xml	1,934	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout24.xml	1,889	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout23.xml	3,473	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout22.xml	3,525	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout21.xml	624	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout28.xml	3,378	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout29.xml	4,331	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout30.xml	6,905	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout36.xml	2,957	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout35.xml	2,733	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout34.xml	4,438	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout33.xml	4,490	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout32.xml	1,741	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout31.xml	2,038	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout20.xml	1,057	1/2/80 12:00 AM	

Name	Size	Modified	Comment
ppt/slideLayouts/slideLayout18.xml	3,444	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout7.xml	1,741	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout6.xml	2,038	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout5.xml	6,905	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout4.xml	4,331	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout3.xml	3,378	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout2.xml	2,678	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout1.xml	4,001	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout8.xml	4,490	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout9.xml	4,438	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout10.xml	2,733	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout17.xml	2,355	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout16.xml	1,834	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout15.xml	2,243	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout14.xml	4,647	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout13.xml	3,896	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout12.xml	2,743	1/2/80 12:00 AM	
ppt/slideLayouts/slideLayout11.xml	2,957	1/2/80 12:00 AM	
ppt/slideMasters/_rels/slideMaster3.xml.rels	2,136	1/2/80 12:00 AM	
ppt/slideMasters/_rels/slideMaster2.xml.rels	2,000	1/2/80 12:00 AM	
ppt/slideMasters/_rels/slideMaster1.xml.rels	2,595	1/2/80 12:00 AM	
ppt/slideMasters/slideMaster2.xml	10,162	1/2/80 12:00 AM	
ppt/slideMasters/slideMaster1.xml	16,414	1/2/80 12:00 AM	
ppt/slideMasters/slideMaster3.xml	16,280	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide7.xml.rels	449	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide6.xml.rels	449	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide5.xml.rels	449	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide4.xml.rels	449	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide8.xml.rels	449	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide9.xml.rels	449	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide10.xml.rels	449	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide11.xml.rels	449	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide12.xml.rels	449	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide3.xml.rels	449	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide2.xml.rels	448	1/2/80 12:00 AM	
ppt/notesSlides/_rels/notesSlide1.xml.rels	447	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide1.xml	1,488	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide2.xml	1,571	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide11.xml	1,490	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide8.xml	1,490	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide6.xml	1,490	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide4.xml	1,490	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide12.xml	1,490	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide10.xml	1,490	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide7.xml	1,490	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide3.xml	1,490	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide5.xml	1,490	1/2/80 12:00 AM	
ppt/notesSlides/notesSlide9.xml	1,490	1/2/80 12:00 AM	
ppt/media/image66.emf	1,454,420	1/2/80 12:00 AM	
ppt/media/image63.jpeg	61,606	1/2/80 12:00 AM	
ppt/media/image67.jpeg	164,750	1/2/80 12:00 AM	
ppt/media/image68.jpeg	225,832	1/2/80 12:00 AM	
ppt/media/image4.jpeg	100,914	1/2/80 12:00 AM	
ppt/media/image10.jpeg	122,346	1/2/80 12:00 AM	
ppt/media/image11.wmf	13,118	1/2/80 12:00 AM	

Name	Size	Modified	Comment
ppt/media/image64.jpeg	199,228	1/2/80 12:00 AM	
ppt/media/image9.jpeg	150,142	1/2/80 12:00 AM	
ppt/media/image8.jpeg	130,790	1/2/80 12:00 AM	
ppt/media/image7.jpeg	74,789	1/2/80 12:00 AM	
ppt/media/image5.jpeg	141,730	1/2/80 12:00 AM	
ppt/media/image6.jpeg	158,328	1/2/80 12:00 AM	
ppt/media/image3.png	1,663,853	1/2/80 12:00 AM	
ppt/media/image71.emf	46,104	1/2/80 12:00 AM	
ppt/media/image70.png	41,874	1/2/80 12:00 AM	
ppt/media/image76.emf	74,556	1/2/80 12:00 AM	
ppt/media/image77.emf	44,468	1/2/80 12:00 AM	
ppt/media/image78.emf	44,760	1/2/80 12:00 AM	
ppt/media/image79.emf	162,940	1/2/80 12:00 AM	
ppt/media/image1.png	9,381	1/2/80 12:00 AM	
ppt/media/image2.jpeg	842,840	1/2/80 12:00 AM	
ppt/media/image75.emf	1,059,512	1/2/80 12:00 AM	
ppt/media/image14.wmf	33,140	1/2/80 12:00 AM	
ppt/media/image72.emf	59,756	1/2/80 12:00 AM	
ppt/media/image73.emf	29,936	1/2/80 12:00 AM	
ppt/media/image74.emf	30,540	1/2/80 12:00 AM	
ppt/media/image69.png	63,751	1/2/80 12:00 AM	
ppt/media/image13.wmf	13,906	1/2/80 12:00 AM	
ppt/media/image16.jpeg	148,524	1/2/80 12:00 AM	
ppt/media/image45.emf	102,136	1/2/80 12:00 AM	
ppt/media/image46.emf	101,216	1/2/80 12:00 AM	
ppt/media/image47.emf	100,560	1/2/80 12:00 AM	
ppt/media/image48.emf	100,872	1/2/80 12:00 AM	
ppt/media/image44.emf	125,828	1/2/80 12:00 AM	
ppt/media/image43.emf	211,508	1/2/80 12:00 AM	
ppt/media/image15.wmf	14,386	1/2/80 12:00 AM	
ppt/media/image41.jpeg	222,665	1/2/80 12:00 AM	
ppt/media/image42.jpeg	135,548	1/2/80 12:00 AM	
ppt/media/image49.emf	100,100	1/2/80 12:00 AM	
ppt/media/image65.png	121,368	1/2/80 12:00 AM	
ppt/media/image50.wmf	73,894	1/2/80 12:00 AM	
ppt/media/image58.emf	87,656	1/2/80 12:00 AM	
ppt/media/image59.emf	87,116	1/2/80 12:00 AM	
ppt/media/image60.emf	87,264	1/2/80 12:00 AM	
ppt/media/image61.wmf	9,030	1/2/80 12:00 AM	
ppt/media/image62.wmf	9,014	1/2/80 12:00 AM	
ppt/media/image57.emf	87,136	1/2/80 12:00 AM	
ppt/media/image56.emf	87,232	1/2/80 12:00 AM	
ppt/media/image55.emf	87,740	1/2/80 12:00 AM	
ppt/media/image51.emf	101,352	1/2/80 12:00 AM	
ppt/media/image52.emf	99,880	1/2/80 12:00 AM	
ppt/media/image53.emf	101,064	1/2/80 12:00 AM	
ppt/media/image54.emf	100,588	1/2/80 12:00 AM	
ppt/media/image39.wmf	79,532	1/2/80 12:00 AM	
ppt/media/image40.wmf	52,968	1/2/80 12:00 AM	
ppt/media/image38.emf	71,028	1/2/80 12:00 AM	
ppt/media/image23.wmf	238,188	1/2/80 12:00 AM	
ppt/media/image24.emf	652,808	1/2/80 12:00 AM	
ppt/media/image25.emf	94,200	1/2/80 12:00 AM	
ppt/media/image22.emf	252,580	1/2/80 12:00 AM	
ppt/media/image21.emf	218,284	1/2/80 12:00 AM	

Name	Size	Modified	Comment
ppt/media/image17.png	830,261	1/2/80 12:00 AM	
ppt/media/image18.emf	189,628	1/2/80 12:00 AM	
ppt/media/image19.emf	224,468	1/2/80 12:00 AM	
ppt/media/image27.png	860,496	1/2/80 12:00 AM	
ppt/media/image26.png	711,264	1/2/80 12:00 AM	
ppt/media/image29.emf	7,489,672	1/2/80 12:00 AM	
ppt/media/image28.emf	28,736,588	1/2/80 12:00 AM	
ppt/media/image34.emf	59,344	1/2/80 12:00 AM	
ppt/media/image35.emf	59,292	1/2/80 12:00 AM	
ppt/media/image36.wmf	111,658	1/2/80 12:00 AM	
ppt/media/image37.wmf	111,698	1/2/80 12:00 AM	
ppt/media/image33.wmf	58,998	1/2/80 12:00 AM	
ppt/media/image31.png	1,653,332	1/2/80 12:00 AM	
ppt/media/image30.emf	103,516	1/2/80 12:00 AM	
ppt/media/image32.emf	30,476	1/2/80 12:00 AM	
ppt/handoutMasters/_rels/handoutMaster1.xml.rels	282	1/2/80 12:00 AM	
ppt/handoutMasters/handoutMaster1.xml	4,219	1/2/80 12:00 AM	
ppt/theme/theme3.xml	12,876	1/2/80 12:00 AM	
ppt/theme/theme4.xml	6,962	1/2/80 12:00 AM	
ppt/theme/theme5.xml	6,962	1/2/80 12:00 AM	
ppt/theme/theme1.xml	12,858	1/2/80 12:00 AM	
ppt/theme/theme2.xml	17,007	1/2/80 12:00 AM	
ppt/notesMasters/_rels/notesMaster1.xml.rels	292	1/2/80 12:00 AM	
ppt/notesMasters/notesMaster1.xml	8,753	1/2/80 12:00 AM	
ppt/embeddings/oleObject5.bin	1,509,376	1/2/80 12:00 AM	
ppt/embeddings/oleObject6.bin	43,008	1/2/80 12:00 AM	
ppt/embeddings/oleObject4.bin	192,000	1/2/80 12:00 AM	
ppt/embeddings/oleObject3.bin	198,144	1/2/80 12:00 AM	
ppt/embeddings/oleObject2.bin	101,376	1/2/80 12:00 AM	
ppt/embeddings/oleObject1.bin	49,664	1/2/80 12:00 AM	
ppt/drawings/_rels/vmlDrawing5.vml.rels	293	1/2/80 12:00 AM	
ppt/drawings/_rels/vmlDrawing4.vml.rels	293	1/2/80 12:00 AM	
ppt/drawings/_rels/vmlDrawing2.vml.rels	293	1/2/80 12:00 AM	
ppt/drawings/_rels/vmlDrawing3.vml.rels	429	1/2/80 12:00 AM	
ppt/drawings/_rels/vmlDrawing1.vml.rels	293	1/2/80 12:00 AM	
ppt/drawings/vmlDrawing4.vml	1,622	1/2/80 12:00 AM	
ppt/drawings/vmlDrawing5.vml	1,552	1/2/80 12:00 AM	
ppt/drawings/vmlDrawing3.vml	1,768	1/2/80 12:00 AM	
ppt/drawings/vmlDrawing2.vml	1,287	1/2/80 12:00 AM	
ppt/drawings/vmlDrawing1.vml	1,392	1/2/80 12:00 AM	
ppt/presentation.xml	7,320	1/2/80 12:00 AM	
ppt/tableStyles.xml	182	1/2/80 12:00 AM	
ppt/viewProps.xml	1,051	1/2/80 12:00 AM	
ppt/presProps.xml	526	1/2/80 12:00 AM	
docProps/thumbnail.wmf	21,400	1/2/80 12:00 AM	
docProps/core.xml	745	1/2/80 12:00 AM	
docProps/app.xml	7,039	1/2/80 12:00 AM	
[Content_Types].xml	24,539	1/2/80 12:00 AM	