

PMLevyCOLPEm Resource

From: Brian Anderson
Sent: Friday, April 24, 2009 3:01 PM
To: Franklin, Mike; robert.kitchen@pgnmail.com; david.waters@pgnmail.com; Vann.Stephenson@pgnmail.com; tillie.wilkins@pgnmail.com
Cc: PMLevyCOLPEm Resource
Subject: FINAL agenda for NRC Geology and Geotechnical Site Visit - April 28-29, 2009
Attachments: FINAL - Geology and Geotechnical Site Visit - Agenda and Info Needs.doc
Importance: High

Mike,

Attached is the final agenda for the NRC's Levy County Geology and Geotechnical Site Visit on April 28-29, 2009. Information needs are included with the agenda items.

The agenda has been updated to better reflect the time needed for presentations each morning. Also, please note that one additional name has been added to the list of NRC attendees.

Thank you,
Brian

Brian Anderson
301-415-9967
Lead Project Manager, AP1000 Projects Branch 1
Office of New Reactors
U.S. Nuclear Regulatory Commission

Hearing Identifier: Levy_County_COL_Public
Email Number: 104

Mail Envelope Properties (CB87FC66F95637428C5E0D066E756B6FBFFFB945AA)

Subject: FINAL agenda for NRC Geology and Geotechnical Site Visit - April 28-29, 2009
Sent Date: 4/24/2009 3:01:12 PM
Received Date: 4/24/2009 3:01:17 PM
From: Brian Anderson

Created By: Brian.Anderson@nrc.gov

Recipients:

"PMLevyCOLPEm Resource" <PMLevyCOLPEm.Resource@nrc.gov>
Tracking Status: None
"Franklin, Mike" <mike.franklin@pgnmail.com>
Tracking Status: None
"robert.kitchen@pgnmail.com" <robert.kitchen@pgnmail.com>
Tracking Status: None
"david.waters@pgnmail.com" <david.waters@pgnmail.com>
Tracking Status: None
"Vann.Stephenson@pgnmail.com" <Vann.Stephenson@pgnmail.com>
Tracking Status: None
"tillie.wilkins@pgnmail.com" <tillie.wilkins@pgnmail.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time	
MESSAGE	560	4/24/2009 3:01:17 PM	
FINAL - Geology and Geotechnical Site Visit - Agenda and Info Needs.doc			42490

Options

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

**Levy County Units 1 and 2 COLA
Geotechnical and Geology Site Visit**

April 28-29, 2009

Attendees

Brian Anderson, NRC
Becky Karas, NRC
Cliff Munson, NRC
Gerry Stirewalt, NRC
Meralis Plaza-Toledo, NRC
Pravin Patel, NRC
Stephanie Devlin, NRC
Vladimir Graizer, NRC
Wayne Bieganousky, NRC
Ricardo Rodriguez, NRC

Carl Constantino, Geotechnical Engineering Consultant

Mike McKown, USACE

Alan Nelson, USGS
Art McGarr, USGS
Mark Hudson, USGS
Oliver Boyd, USGS
Randy Cox, USGS

Final agenda is attached.

Tuesday, April 28, 2009

8:15 am NRC team arrives at Crystal River Training Center

8:30 am Introductions, Overview Discussion, Site Overview Presentation

10:30 am Depart for field observations (Levy County Site)

The goals of the site overview field tour are to:

- allow an assessment of pertinent surficial features (e.g., depressions, regional and local drainage patterns, regional and local fracture sets, locations of springs) related to the possible occurrence of dissolution features and preferential groundwater flow pathways at depth.
- examine outcrops at the Gulf Hammock Quarry and along the Waccasassa River (11.8 and 15.7 miles northwest of the site, respectively) to observe fractures in the Avon Park Formation. Examination of these outcrops is to determine that fracture sets anticipated to occur at the site have been adequately characterized, discussed in the FSAR, and included in the 3D FEM models. Observations along the Waccasassa River to include examination of fluvial sediments, if present.
- examine core samples and logs for boreholes at LNP1 (e.g., AD-03, A-20) and LNP2 (e.g., AD-01, AD-08) that represent the best and worst subsurface conditions encountered at the site, including any drilling and sampling data that provides information on engineering properties of materials in the “no recovery” zones and any information used to confirm assumptions on elastic modulus and unconfined compressive strength.

It is assumed that fractures measured at the Crystal River plant site are no longer exposed and cannot be examined in the field.

~1:00pm Working lunch

1:30pm Continuation of field observations (Levy County Site)

NRC staff will split into geology, geotechnical engineering, and seismology specialty groups as necessary.

- Geotechnical engineers to examine representative core samples and logs for the six verification boreholes drilled to penetrate the grouted zone, including both pre-grout and post-grout boreholes, accompanying data, and interpretations.
- Seismologists to review shear wave data, if these results are available.

5:30 pm NRC Team departs

Wednesday, April 29, 2009

- | | |
|-----------|---|
| 8:15 am | NRC team arrives at Crystal River Training Center |
| 8:30 am | Applicant Presentation - 3D modeling |
| 9:30 am | <p>Documentation and Records Review, Review of Supporting Calculations and Data, Discussion of Draft RAIs (if applicable)</p> <ul style="list-style-type: none">• Geotechnical engineers (and geologists as necessary) to review assumptions made for the 3D FEM model in connection with Section 2.5.4, including proper treatment of fractures.• Geologists to review any available logs referred to in the FSAR as used by Vernon (1951), Rupert (1988), and Arthur and others (2001) (e.g., for assessment of subsurface faults and definition of stratigraphic units). These logs may include the following boreholes: Ragland, Robinson, and Goethe wells; Wells W-6903, W-7453, W-7534, W-7538, and W-15643; other wells specifically flagged in section 2.5 RAIs. A copy of Florida Geological Survey Bulletin Number 33 by Vernon (1951) is requested to support this review.• As applicable, discuss draft RAIs for Section 2.5. The purpose of these discussions is to ensure that each draft RAI is understood prior to formal issuance. <p><i>NRC staff intend to review all available materials in support of the above discussions. It is understood that some of the materials defined above may not be available for review during the site visit.</i></p> |
| ~12:30 pm | Working Lunch |
| 1:00 pm | Continuation of Documentation and Records Review, Review of Supporting Calculations and Data, Discussion of Draft RAIs |
| 5:00 pm | Closeout Discussion (Training Center) |
| 5:30 pm | NRC Team departs |