

PMFermiCOLPEm Resource

From: Govan, Tekia
Sent: Friday, November 01, 2013 9:32 AM
To: 'Michael K Brandon' (brandonm@dteenergy.com)
Cc: FermiCOL Resource
Subject: Fermi revised agenda for Nov 18th SSI Audit
Attachments: Fermi SSI Audit Plan November 18 2013 rev1.doc

Please see attached.

Tekia

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Recipients:

"FermiCOL Resource" <FermiCOL.Resource@nrc.gov>

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"'Michael K Brandon' (brandonm@dteenergy.com)" <brandonm@dteenergy.com>

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**AGENDA FOR
FERMI 3: REVIEW OF SOIL STRUCTURE INTERACTION CALCULATIONS RELATED TO
FSAR SECTIONS 3.7 AND 3.8**

November 18 through November 21, 2013

(Times are subject to change based on the progress of audit.)

Monday November 18, 2013

- Entrance Meeting (8:00-8:30am)
 - Introductions
 - Purpose and Objectives of Audit
 - Review of Audit Plan and Schedule
 - Contacts for DTE, S&L, GEH, and NRC
- Review of SSI Inputs for RB, CB and FWSC (8:30-12:00 am)
 - Development of small-strain LR, IR, and UR backfill properties
 - Development of FIRS, and PBSRS
 - Development of LB, BE, and UB strain iterated profiles
 - Development of SSI input time-histories
- **Lunch (12:00-1:00)**
- Review of SSI Inputs for RB, CB and FWSC – Cont. (1:00-:00 pm)
 - Development of small-strain LR, IR, and UR backfill properties
 - Development of FIRS, and PBSRS
 - Development of LB, BE, and UB strain iterated profiles
 - Development of SSI input time-histories
- Review of Foundation Design of RB/FB and CB (1:00-5:00 pm)
 - Sliding and overturning stability calculations
 - Bearing pressures and basemat design calculations
 - Sidewall design calculations
- NRC Staff Caucus (5:00-5:30 pm)
- Summary of the day and action items (5:30-6:00 pm)

Tuesday November 19, 2013

- Follow up on previous day's action items/Plan of the day (8:00-8:30 am)
- Review of SSI Analysis (8:30-12:00 pm)
 - V&V for SASSI2010
 - SASSI2010 Modified Subtraction Method validation studies
 - SSI analysis of RB/FB and CB without considering backfill (licensing-basis analysis)

- Analysis model details (e.g., adequacy of layers, excavated volume and structure mesh, passing frequency, transfer functions, etc.)
- ISRS results for RB/FB and CB
- Enveloping seismic loads and accelerations
- Response of SDOF oscillators for RB/FB and CB
- Lateral pressures on sidewalls

Lunch (12:00-1:00)

- Review of SSI Analysis – Cont. (1:00-5:00 pm)
 - SSI analysis of RB/FB and CB considering backfill (sensitivity analysis)
 - Analysis model details (e.g., adequacy of layers, excavated volume and structure mesh, passing frequency, transfer functions, etc.)
 - ISRS results for RB/FB and CB
 - Enveloping seismic loads and accelerations
 - Response of SDOF oscillators for RB/FB and CB
 - Lateral pressures on sidewalls
- Staff Caucus (5:00-5:30 pm)
- Summary of the day and action items (5:30-6:00 pm)

Wednesday November 20, 2013

- Follow up on previous day's action items/Plan of the day (8:00-8:30 am)
- Review of SSI Analysis – Cont. (8:30-12:00 pm)
 - SSI analysis of RB/FB and CB without considering backfill (licensing-basis analysis)
 - Analysis model details (e.g., adequacy of layers, excavated volume and structure mesh, passing frequency, transfer functions, etc.)
 - ISRS results for RB/FB and CB
 - Enveloping seismic loads and accelerations
 - Response of SDOF oscillators for RB/FB and CB
 - Lateral pressures on sidewalls
 - SSI analysis of RB/FB and CB considering backfill (sensitivity analysis)
 - Analysis model details (e.g., adequacy of layers, excavated volume and structure mesh, passing frequency, transfer functions, etc.)
 - ISRS results for RB/FB and CB
 - Enveloping seismic loads and accelerations
 - Response of SDOF oscillators for RB/FB and CB
 - Lateral pressures on sidewalls

Lunch (12:00-1:00)

- Review of SSI Analysis – Cont. (1:00-5:00 pm)
 - SSSI Effects
 - RB and CB
 - CB and FWSC
- Staff Caucus (5:00-5:30 pm)
- Summary of the day and action items (5:30-6:00 pm)

Thursday November 21, 2013

- Follow up on previous day's action items/Plan of the day (8:00-8:30 am)
- Review of SSI Analysis – Cont. (8:30-12:00 pm)
 - SSI analysis of RB/FB and CB considering backfill (sensitivity analysis)
 - Analysis model details (e.g., adequacy of layers, excavated volume and structure mesh, passing frequency, transfer functions, etc.)
 - ISRS results for RB/FB and CB
 - Enveloping seismic loads and accelerations
 - Response of SDOF oscillators for RB/FB and CB
 - Lateral pressures on sidewalls
 - SSSI Effects
 - RB and CB
 - CB and FWSC
- Discussion of Other Issues (8:30-12:00 pm)
 - FSAR clarifications
 - Review of input spectra used for seismic design of safety-related SSCs located in floor slabs of RB/FB and CB

Lunch (12:00-1:00)

- Discussion of Other Issues – Cont. (1:00-3:00 pm)
 - FSAR clarifications
 - Review of input spectra used for seismic design of safety-related SSCs located in floor slabs of RB/FB and CB
- Staff Caucus (3:00-3:30 pm)
- Exit Meeting (3:30-4:00 pm)