Used Fuel Disposition Campaign

Preview of GDSA/Process Model Integration Session

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2016 UFDC Annual Working Group Meeting

GDSA Session, June 8, 2016

Las Vegas, NV

Objectives: Integration Session

To directly follow this session:
3:50 – 5:40 pm, Wednesday, June 8 – Rm. 1243

- **<u>OBJECTIVE</u>: Facilitate the integration of UFD process modeling with GDSA by addressing:**

  - (1) *Integration progress* made during FY 2016, and

  - (2) *How* the process model can be coupled to the GDSA-PA Framework in FY17 and beyond.

- **<u>GOAL</u>: The outcome of this session is envisioned to be a rough scope/timeline for integration of process models with GDSA-PA, with an emphasis on FY17 workscope.**

Agenda
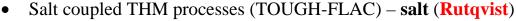
3:50 – 3:55 Introduction and Objectives (Sevougian)

3:55 – 4:15 LIGHTNING Talks on Ongoing FY2015-16 Integration (5 min per talk)

- Density dependence on salinity – **crystalline (deep borehole)** (**Hammond**)
- DFN Model – **crystalline** (**Stein/Makedonska**)
- Colloid-facilitated transport model (progress and future work) – **all media** (**Reimus**)
- CSNF degradation model (FMDM) – **all media** (**Jerden**)

4:15 – 5:20 LIGHTNING Talks on Possible New FY17 Integration Workscope (5 min/talk)

- Salt coupled THM processes (TOUGH-FLAC) – **salt** (**Rutqvist**)
- THC Processes in salt – **salt** (**Stauffer**)
- TOUGH-FLAC/BBM/RBSN models – **argillite and/or crystalline (deep borehole)** (**Rutqvist**)
- THMC model (illitization) and THM model (TPHM Hooke's) – **argillite** (**Zheng**)
- DFN enhancements – **granite** (**Viswanathan**)
- Waste package degradation – **argillite and/or crystalline** (**Jove-Colon**)
- Waste package and waste form degradation – **all media** (**Frederick**)
- Glass degradation – **all media** (**Rieke**)
- Grid refinement – **all media** (**Alzraiee/Hammond**)
- THM processes in salt (PFLOTRAN-Adagio) – **salt** (**Park/Hammond**)
- A control variate method for performance assessment – **all media** (**MacKinnon**)
- Remaining process model gaps – **all media** (**Mariner**)

5:20 – 5:40 Integration discussion (All)

Herr Hammond