Schedule/spending update; general discussion

- Compare monthly (and cumulative) cost to the spend plan based on the new Gantt chart based on J5546 Rev. 3.
- Monthly telecon (end of month) to discuss the status of the budget and the status of progress toward completion and the amount of work remaining
- Total cost = $1,810,000.
- Transfer $50K from "Comment Resolution 2" to Program Oversight.
- The peer review group should see Sandia's response to public comments.
- Presentation to NRC preferably in September: September 16-17
    - Pre-meeting with management
    - Presentation to the staff
    - Post-meeting with key reviewers
- NRC wants final polished text – no "trial balloons" Use NRC NUREG guidance. Clear explanations , readability, accessibility
- Printed version and web-based version
- Options for review cycles:

Report Review – Option 1
Draft 1 – SNL sends to NRC
NRC forwards to ORNL without SNL rewrite
Draft 2 – Response to NRC and ORNL comments
Released for public review/comment
Draft 3 – Response to public comment – routed to ORNL before publishing

Preferred option
Report Review – Option 2
Draft 1 – SNL sends to NRC
Draft 2 – Response to NRC comments
Sent to ORNL for peer review
Draft 3 – Response to peer review comments
Released for public review/comment
Draft 4 – Response to public comment – routed to ORNL before publishing

Original option
Report Review – Option 3 (current option in Gantt chart)
Draft 1 – SNL send to NRC
Draft 2 – Response to NRC comments
Sent to ORNL and released for public review/comment
Draft 3 – Response to public and ORNL comment – routed to ORNL before publishing

- Update Gantt chart and spending plan re peer review activities, dates,
- Good explanation of regulation and test acceptance criteria "more strict than they appear"-- Appendix discussion of A2
- For those analyses that show release, check against Part 71 reg. criteria
- Glossary

- Do maps with ESRI

Structural and thermal analysis

- NAC cask can probably run now (this cask will have releases for the un-canistered version).
- Finite element analysis done by October
- Modeling NAC cask will give us gap data
- What about yielding target? Look at a range of target stiffness
- Rely on 6672 truck cask structural and thermal analysis
- Include seal results for HISTAR
- Carlos should look at Victor's thermal model to explain difference between 1-D and 3-D model -- Victor to change material properties carbon steel to stainless to see if this change makes the results match more closely

Event trees

Contact Kevin Blackwell re. Volpe study speed distributions and fire probabilities
Rail event trees will be based on conditional probability given an accident instead of based on accidents/rail car mile
We are going to assume common carrier (need to confirm AAR guidance)
Use the updated accident rate for truck transport
Include a sample event tree including speed distribution, impact angle, fire probability, etc. for a complete scenario
Need a better explanation of how the accidents are binned to achieve total consequence

RADTRAN risk assessment

Focus on per shipment doses for both incident free and accident – need to include total campaign and illustrative routes
Unit risk factors – need a description of which factors we include

Take 6672 as point of departure, justify why differences
Want comparisons with 0170, Modal Study, and 6672
Need recommendation on how to model rail stops
Include the no-release accident

Need GOOD explanation of accident scenarios

New calculations of dispersion include thermal lofting (not available for 6672)
Include loss of gamma shielding for lead cask and assume total loss of neutron shielding for all casks.

Describe the maximum individual accident dose clearly

Source term

Want to accommodate Bob Einziger's fraction of rim layer fracture and resulting release fraction. Need to ask Bob if he has data on what "Fraction of Rim Layer Fracture" to use.