



Bellefonte Combined License Draft Review Schedule

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Joe Sebrosky

Mallecia Hood

Safety and Environmental Review Schedule

Background

- Schedule based on Combined License (COL) Enterprise Project Management (EPM) Template
 - Does not currently model Bellefonte hydrology and seismology review
- Baseline EPM schedule for a COL safety review is 33 months (includes management margin)
 - schedule from start of review until final safety evaluation report with no open items is issued
 - start of review shortly after acceptance date and not date of the application
 - Baseline schedule has stagger built into chapter completions to even out workload
 - Request for additional information (RAI) response time either 30 or 45 days depending on whether chapter is site-specific or common
- Baseline EPM schedule for a COL environmental review is 24 months (includes management margin)
 - RAI response time is 30 days
- Schedule for hearing determined by Commission and Atomic Safety and Licensing Board
- Safety review drives schedule not environmental review

Resource Allocation/Staff-hour Loading

- Staff is in the process of refining resource estimates
 - Some resource estimates too high
 - Staff does not expect schedule milestones to change based on resource adjustments because critical path chapters (e.g., Chapter 2 and 13) drive the schedule and these work estimates are complete with the exception of seismology and hydrology.
 - Review of seismology and hydrology issues will, if anything, make the schedule longer
- Chapters with large resource allocations (greater than approx 1000 hours)
 - Chapter 2 – Site Characteristics
 - Chapter 3 – Design of Structures, Components, Equipment, and Systems
 - Chapter 13 – Conduct of Operations

Safety Review Milestones (DRAFT)

(Without seismology and hydrology reviews modeled)

<u>Phase of Review</u>	<u>Target Completion Date</u>
P1 Preliminary safety evaluation report (PSER) and requests for additional information (RAIs)	Sept 2008 (RAIs begin to be issued in May 2008)
P2 SER with open items (OIs) issued	April 2009
P3 ACRS review SER w/ OIs	August 2009
P4 Advanced SER with no OIs	May 2010
P5 ACRS review Advanced SER w/ no OIs	August 2010
P6 Final SER with no OIs issued	October 2010
Completion of Hearing and decision on COL	June 2011

Challenges to the Target Draft Safety Review Schedule

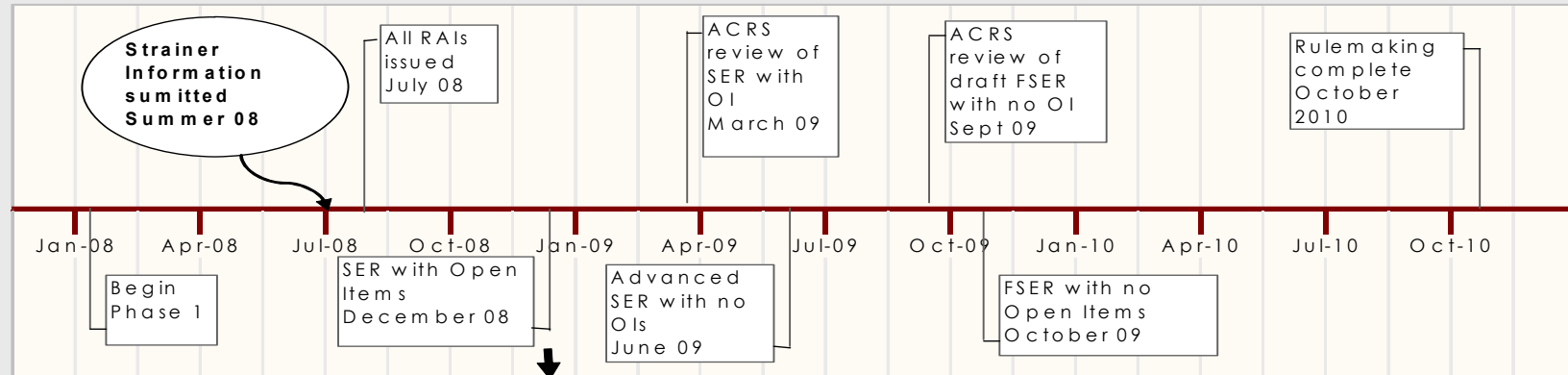
- AP1000 Amendment schedule
 - Bellefonte RCOL schedule linked at high-level (e.g., staff can not issue Bellefonte SER with open items until AP1000 SER with open items is issued)
- Seismology and Hydrology
 - Issues identified in acceptance letter and not modeled in Bellefonte schedule
 - Staff needs to know how TVA plans to address these issues before the reviews can be scheduled in the EPM
 - Result of seismology and hydrology reviews may cause the staff to reevaluate and re-baseline review schedule

AP1000 Links to Bellefonte Schedule

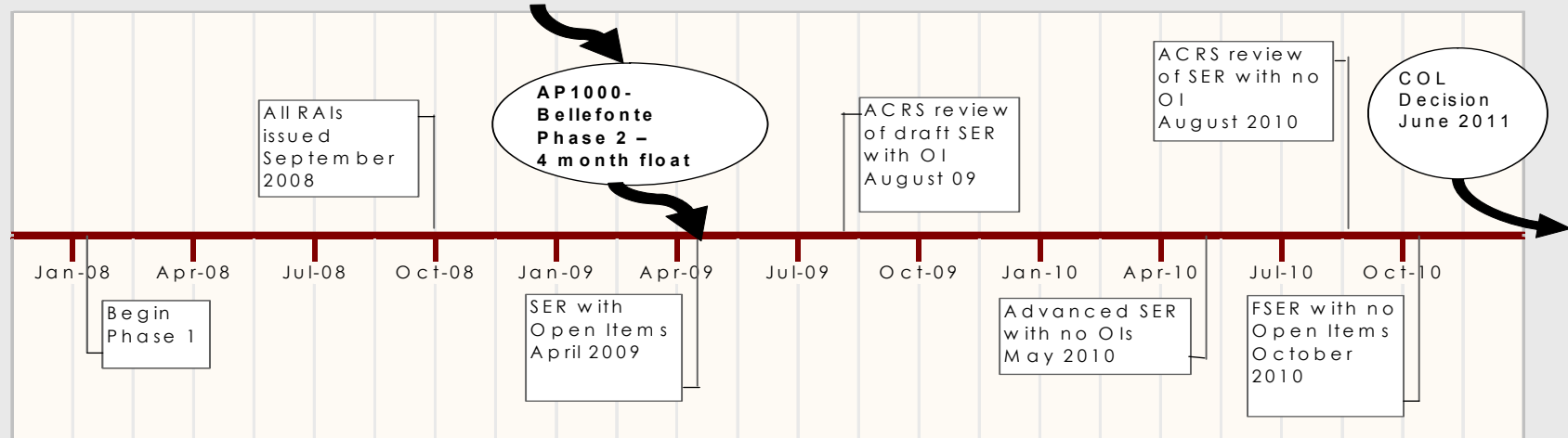
- All AP1000 review phases are scheduled to be completed before the associated Bellefonte (Reference Combined license (R-COL)) review phase is complete
- R-COL review phases cannot be “finalized” until the associated AP1000 review phase is complete
- Links between the 2 schedules currently have “floats” at designated points that grow as the reviews proceed
- Cascading effect of schedule slippages or re-baselining of portions of the AP1000 amendment review schedule may cause the need to re-baseline R-COL

AP1000/Bellefonte Draft Schedules

AP1000 Amendment Schedule (without strainer issue modeled)



Bellefonte COL Schedule (without seismology and hydrology modeled)



Environmental Review Draft Milestones

Phase of Review

Target Date

P1 Scoping

August 2008

Federal Register Notice of Intent Published

February 2008

Environmental Impact Statement (EIS) Public
Scoping Meeting

April 3, 2008

EIS Scoping Period Ends

April 2008

EIS Scoping Summary Report Issued

August 2008

Environmental Review Draft Milestones (cont.)

<u>Phase of Review</u>	<u>Target Date</u>
P2 Draft Environmental Impact Statement (DEIS)	March 2009
EIS Site Audit (NRC, PNNL, & DHS) (start and finish dates)	March 31 -April 4, 2008
EIS Site Audit of Alternate Sites (NRC) (start and finish dates)	May 12 - May16, 2008
EIS RAIs issued to Applicant	July 2008
EIS RAI Responses Received from Applicant	August 2008
DEIS NUREG Filed with Environmental Protection Agency (EPA)	February 2009
NRC Issues Federal Register (FR) Notice of Availability of DEIS	March 2009
EPA Issues FR Notice of Filing	March 2009

Environmental Review Draft Milestones (cont.)

<u>Phase of Review</u>	<u>Target Date</u>
P3 Draft Environmental Impact Statement Comment Period	August 2009
DEIS Public Meeting Near Site Complete	April 22, 2009
DEIS Public Comment Period Ends	May 2009
P4 Final Environmental Impact Statement (FEIS)	January 2010
FEIS Published to ADAMS	January 2010
Federal Register of Notice of Availability of FEIS Published	January 2010