Repository Safety Strategy-Process Model Reports and Analysis/Model Reports

Presentation to: Nuclear Waste Technical Review Board (NWTRB)

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U.S. Department of Energy Office of Civilian Radioactive Waste Management



Process Model Reports (PMRs) Purpose

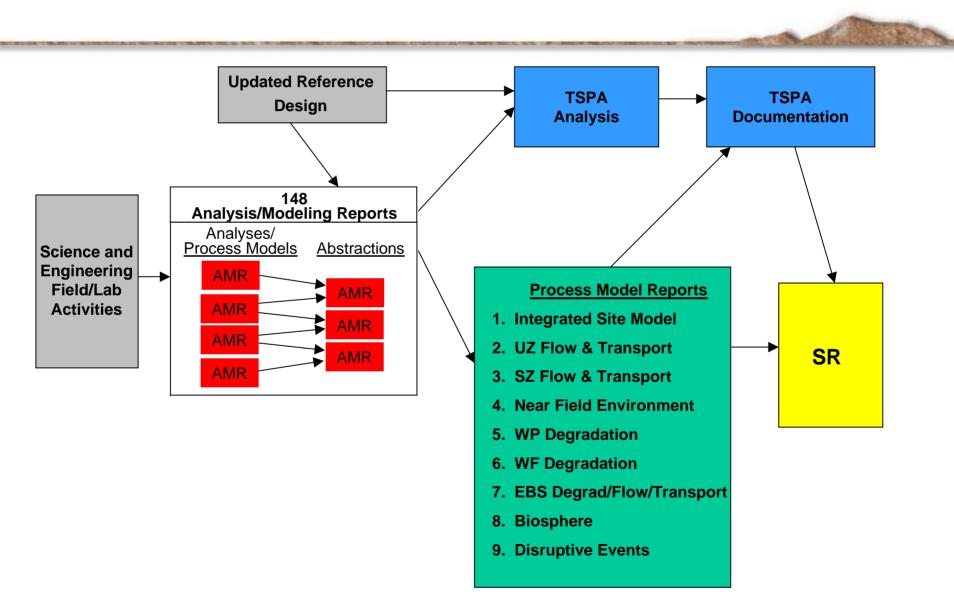
- The purpose is to document the technical basis supporting each TSPA process model
 - Supports the postclosure safety case for SR/LA
- PMRs will focus the development of technical information on what is relevant to developing a defensible TSPA
 - i.e., the information the Project is relying upon to demonstrate postclosure compliance
- The PMR development process will ensure transparency and traceability of data, information, and references

PMR Scope

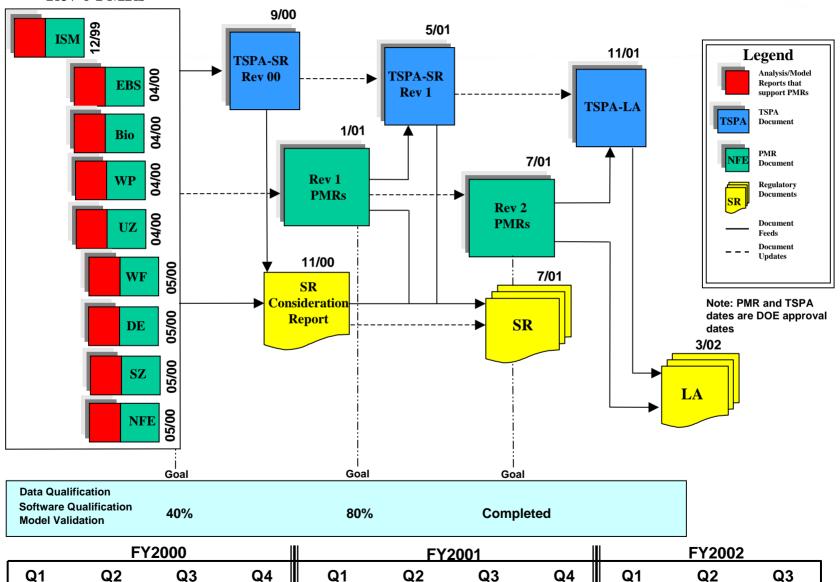


- Descriptions of the models, submodels, and abstractions
- Relevant data and data uncertainties
- Assumptions and bases
- Model results (outputs)
- Software qualification
- Model validation
- Opposing views/alternative interpretations
- Information to support regulatory evaluations

PMR/AMR/TSPA Relationship



Linkage of Major Programmatic SR/LA Rev 0 PMRs Milestones



PMR Team

PMR Manager – Mike Lugo PMR Production Coordinator – Jeff Weaver

PMR	PMR Lead/ DOE Lead	PA Representative	Reg. Representative	QA Representative
1. Integrated Site Model	Clinton Lum/ Mark Tynan	Cliff Ho	Terry Crump	Harvey Dove
2. Unsaturated Zone Flow/Transport	Bo Bodvarsson/ Russ Patterson	Cliff Ho	Martha Pendleton	Harvey Dove
3. Saturated Zone Flow/Transport	Al Eddebbarh/ Russ Patterson	Bill Arnold	Augie Matthusen	Mike Eshleman
4. Near Field Environment	Dale Wilder/ Deborah Barr	Nick Francis	Pete Gaillard	Richard Powe
5. Waste Package Degradation	Joe Farmer/ Paige Russell	Joon Lee	Ali Haghi	Dan Tunney
6. Waste Form Degradation	Christine Stockman/ Paige Russell	Rob Rechard	Mike Scott	Dan Tunney
7. EBS Degradation/ Flow/Transport	Dwayne Chesnut/ Jaime Gonzalez	Bob MacKinnon	Jerry Self	Dennis Threatt
8. Biosphere	John Schmitt/ Russ Patterson	Tony Smith	Kayce Prince	Steve Swenning
9. Disruptive Events	Richard Quittmeyer/ Russ Patterson	Rally Barnard	Terry Crump	Steve Swenning