

American Electric Power

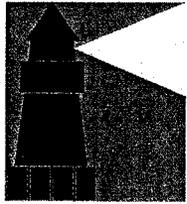
Meeting with

Nuclear Regulatory Commission

Update on Containment Structures

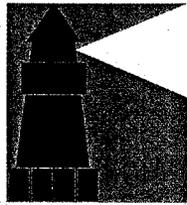
D. C. Cook
February 15, 2001



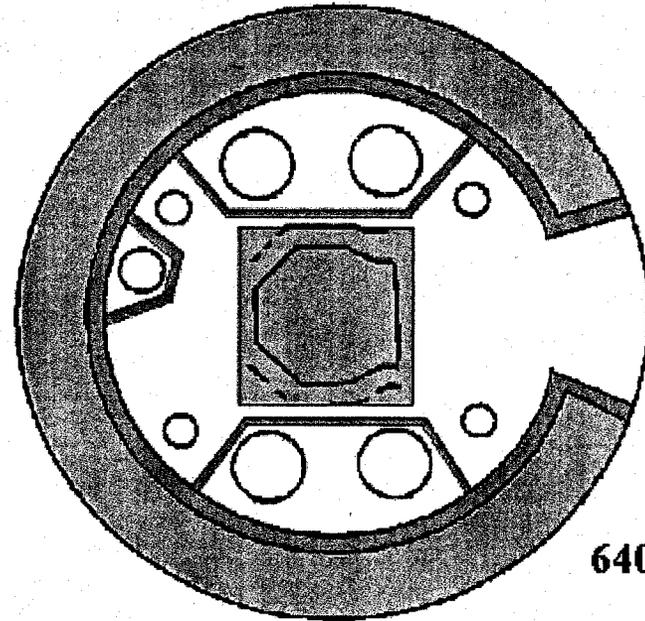
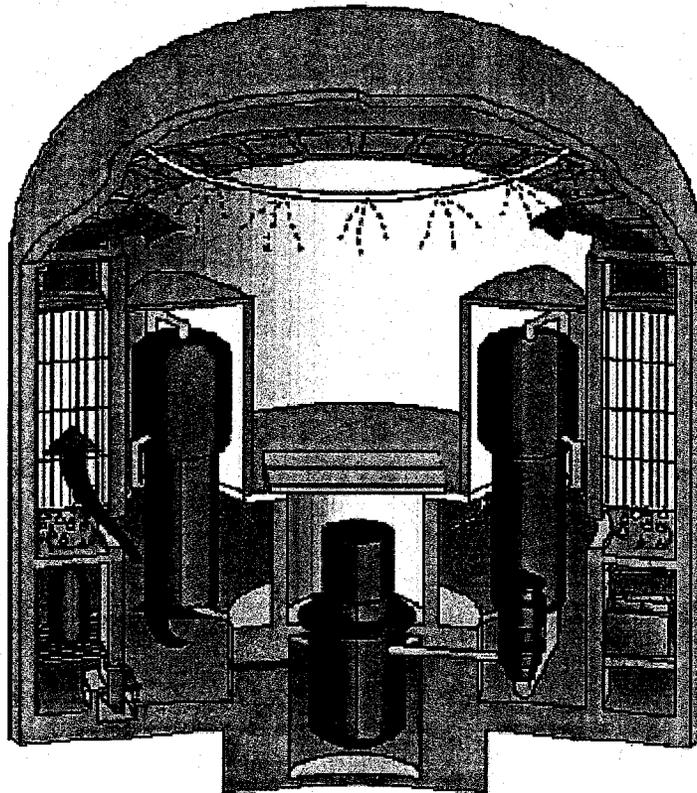


Agenda for Update on Containment Structures

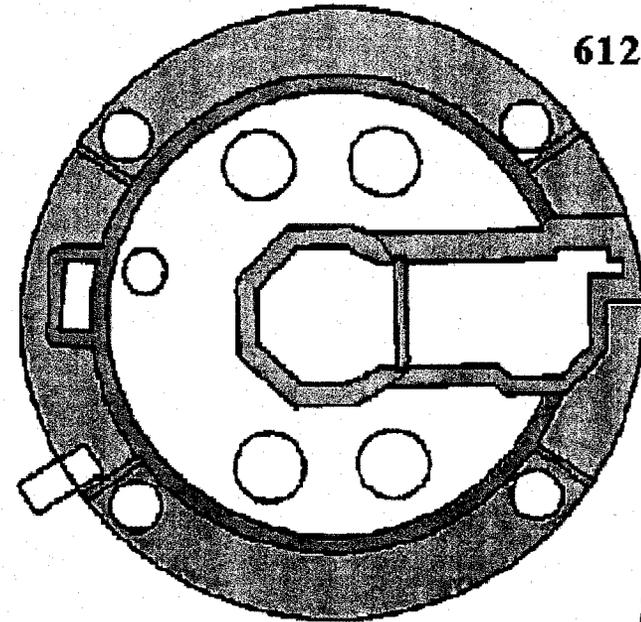
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|---|----------------------|
| ■ Introduction | Mike Rencheck |
| ■ Background | Scot Greenlee |
| ■ Accomplishments & Project Direction
Updated Project Schedule | Ron Smith |
| ■ Conclusion | Mike Rencheck |



Background: ODE Results



640' El

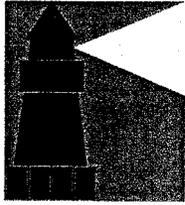


612' El

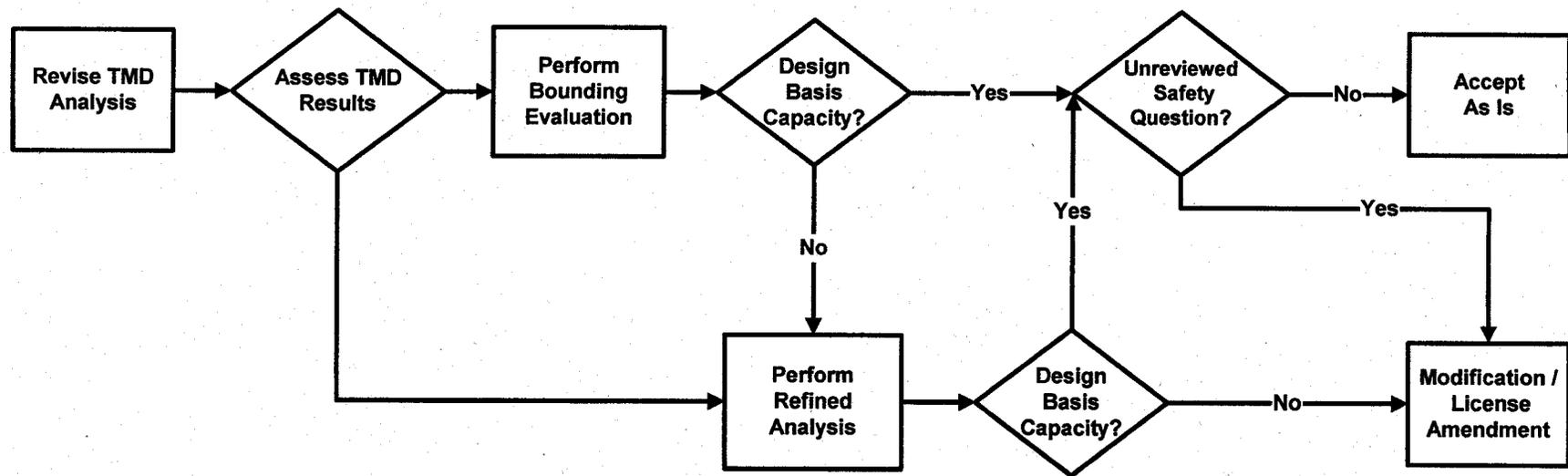
Operability Determination Evaluation (ODE) Results

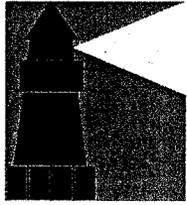
■ Design Basis Capacity

■ Operable Capacity

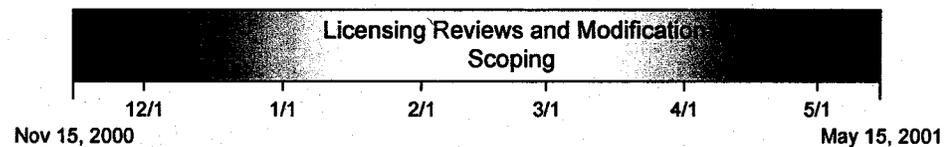
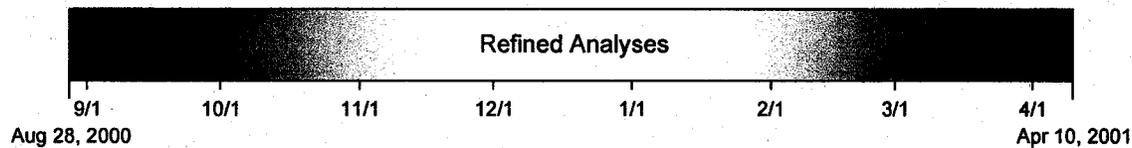
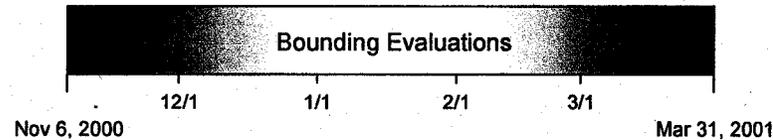
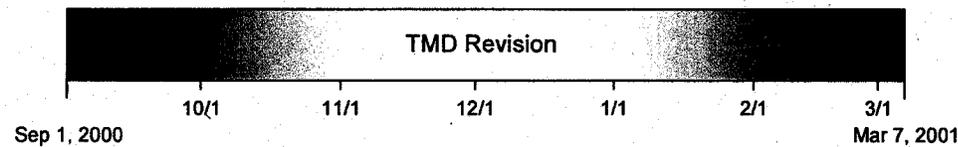


Background: Long-term Corrective Action Plan



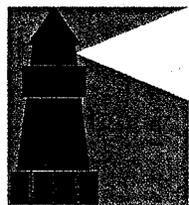


Background: Original Schedule for Major Activities

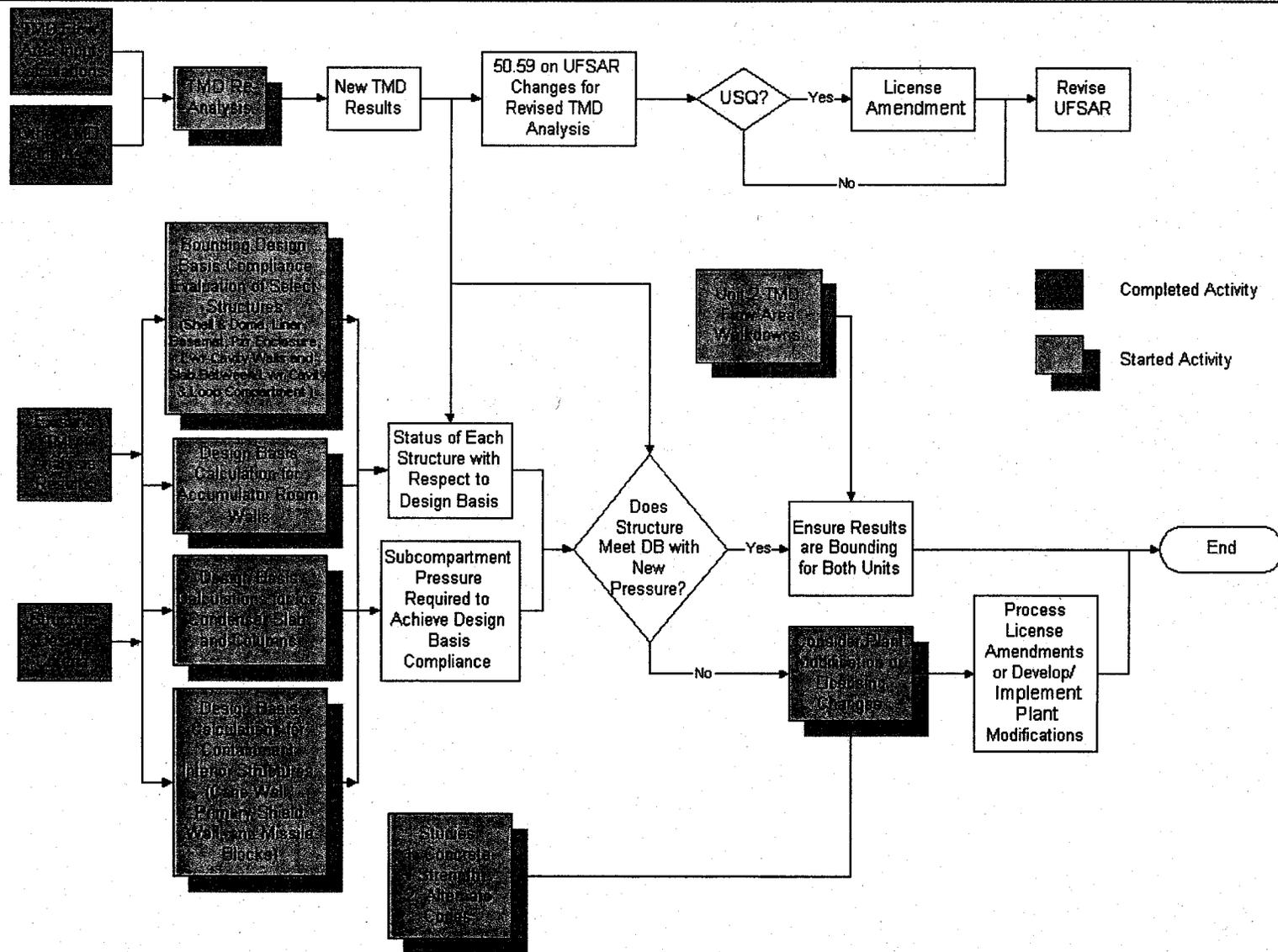


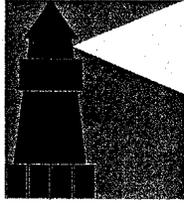
Unit 2 Validation to be performed during next Refueling Outage





Accomplishments and Project Direction

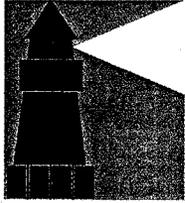




Accomplishment Summary

■ Actions Completed

- Flow area walkdowns (Unit 1) and calculations
- Walkdown for Unit 2 steam generator enclosure #2
- Finite element models (developed)
- Finite element analysis for AEP review:
 - » Fan accumulator rooms (Units 1 & 2)
 - » Ice condenser slab & lower support structure (Unit 1)
- TMD analysis scoping runs for reconstituted containment flow areas
- Refined analysis for AEP review:
 - » Containment shell and other select structures
- TMD sensitivity runs
- Validated calculations input assumptions for bounding evaluations and refined analyses



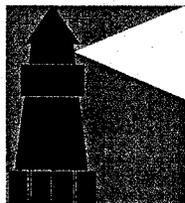
Accomplishment Summary (cont.)

■ **Actions in Progress**

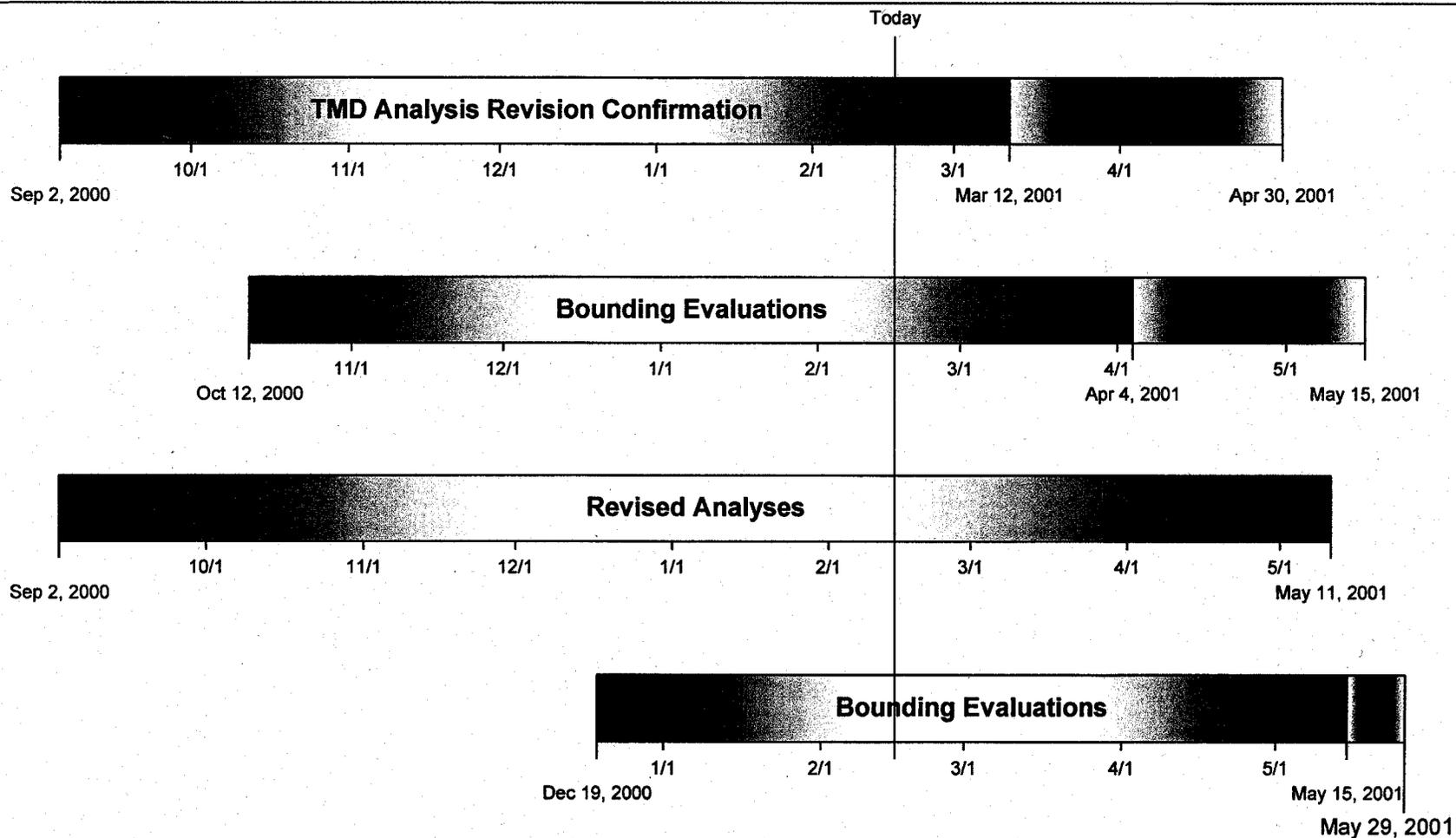
- **Identify potential modifications/license amendments**
- **Finite element analysis for:**
 - » **Reactor cavity crane wall**
 - » **Missile blocks**

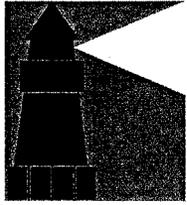
■ **Refined Actions (in Progress)**

- **TMD results:**
 - » **Refine break flow & area assumptions**
- **Address analysis comments:**
 - » **Evaluate certain input assumptions**
- **Forced outage:**
 - » **Complete additional planning and scheduling**



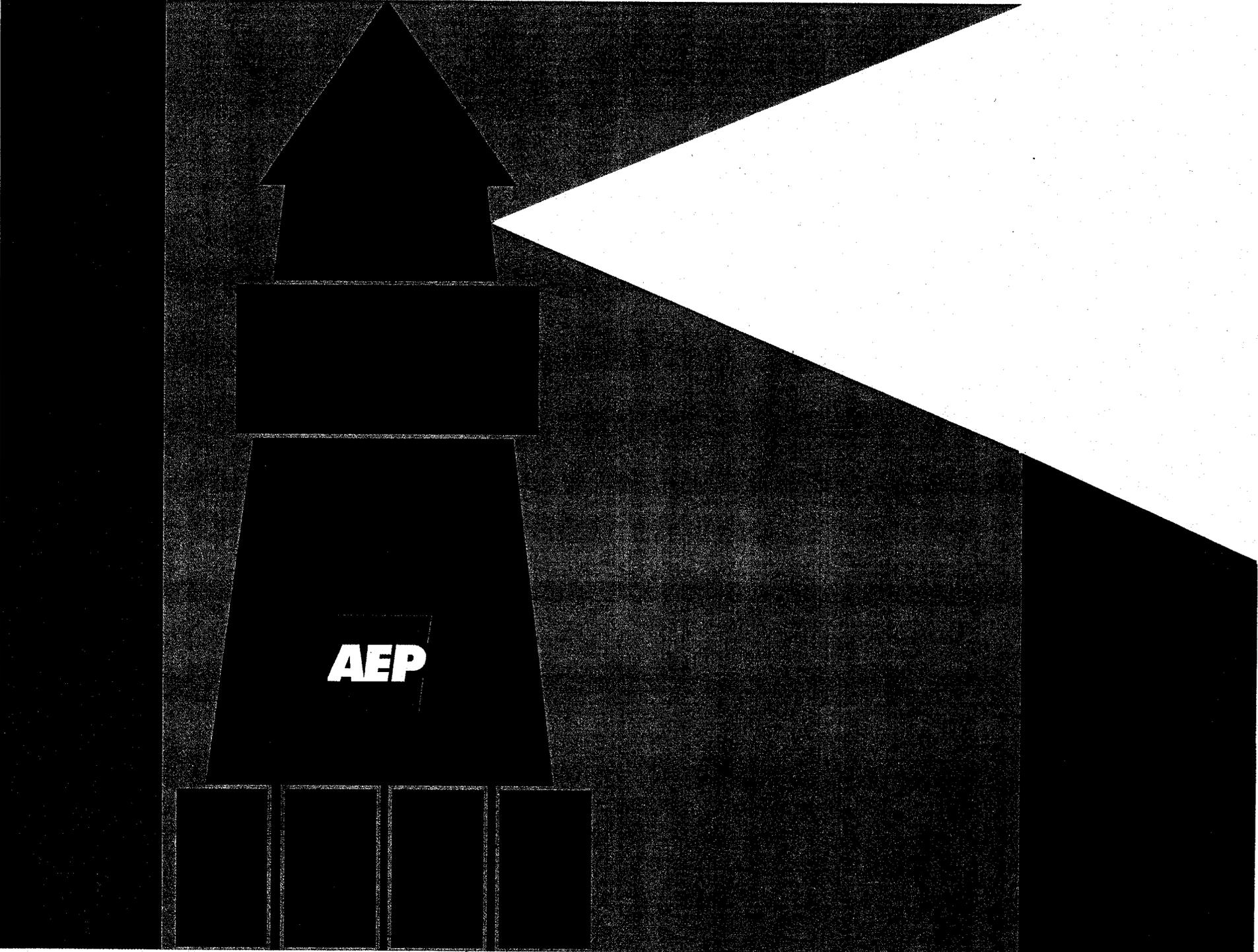
Updated Projected Schedule for Major Activities





Conclusion

- **Significant Progress Achieved**
- **Refined Analyses Results are Positive**
 - **Most demonstrating conformance with Design Basis**
 - **Conservatively reconfirmed inputs for bounding evaluations and refined analyses**
 - **Iterative process used to further refine where needed**
- **We are Taking the Time to Do it Right**
- **We Still Expect this Phase to be Complete in May 2001**



AEP