

## SUMMARY OF PERFORMANCE ASSESSMENT STATUS

- PERFORMANCE ASSESSMENT MODELS AND COMPUTER CODES AVAILABLE TO SUPPORT NEAR-TERM DECISIONS
- o MODEL VERIFICATION IN PROGRESS
- MODEL VALIDATION METHODOLOGY DRAFTED
- MODEL DEVELOPMENT AND VALIDATION EXPERIMENTS IN PROGRESS
- **o** SOFTWARE AND DATA QA BEING IMPLEMENTED
- INTEGRATION OF YMP PERFORMANCE ASSESSMENT CONTRACTORS FOR COMPLEX ANALYSES ACCOMPLISHED

## SUMMARY OF PERFORMANCE ASSESSMENT NEEDS AND PLANS

- YMP TOTAL SYSTEM PERFORMANCE ASSESSMENTS WITH SENSITIVITY AND UNCERTAINTY ANALYSES WILL BE DONE THIS YEAR
- THE CREDIBILITY OF THE MODELING IS SEVERELY HAMPERED BY THE LACK OF SITE DATA
- CURRENT MODELS AND CODES ARE BEING SCREENED TO IDENTIFY WHICH TO CONTINUE TO SUPPORT, WHICH TO IMPROVE, AND WHAT NEW DEVELOPMENT IS NEEDED
- SEVERAL PERFORMANCE ASSESSMENT ISSUES NEED TO BE RESOLVED WITH RESPECT TO THE ADEQUACY OF THE CURRENT MODELS AND THE RELATIVE IMPORTANCE OF PHENOMENA AND PARAMETERS

## **PERFORMANCE ASSESSMENT ISSUES**

- 10 CFR PART 60 AND 40 CFR PART 191 NEED FURTHER INTERPRETATION FOR IMPLEMENTATION
- PERFORMANCE ASSESSMENT IS LIMITED MORE BY THE CREDIBILITY OF CONCEPTUAL MODELS THAN THE ABILITY FOR MATHEMATICAL MODELING
- SCENARIOS AND SCENARIO PROBABILITIES NEED FURTHER STUDY
- CURRENT SITE PARAMETER UNCERTAINTIES ARE LARGE
- CONSIDERABLE IMPROVEMENTS IN MODELS AND COMPUTER CODES ARE NEEDED FOR FINAL SITE SUITABILITY EVALUATIONS AND FOR LICENSING SUPPORT