



**Hanford Site Integration Project Expert Panel  
OUTBRIEF PRESENTATION  
PANEL MEETING #10**

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**Dr. Edgar Berkey, IPEP Chairman**

**September 28, 2001**

## **THIS MEETING . . .**

- ✓ **This meeting was held under somewhat difficult conditions compared with previous meetings**
- ✓ **We are glad we held it as planned**
- ✓ **Thanks to everyone who worked hard to make it happen**
- ✓ **Despite uncertainties of DOE budgets and project planning, and lack of new documents to review, we learned about recent project activities . . . it was a productive meeting**
- ✓ **We look forward to learning more about C<sup>3</sup>T . . . its purpose, goals, scope, impacts**

# **STATUS OF INTEGRATION PROJECT**

- ✓ Presenting FY01 work into 3 categories was useful in supporting evolving Hanford vision:**
  - River Corridor Cleanup**
  - Central Plateau Decisions**
  - Hanford Site Integration**
- ✓ Generally positive review of S&T program by National Academy of Sciences . . . but don't overlook cautions in the NAS report**
- ✓ Impressive set of work activities, products, and new information has been produced . . leading to new interpretations and priorities**

## **STATUS OF INTEGRATION PROJECT (Continued)**

- ✓ **Site-wide modeling coordination is a good idea . . . but still very early in process . . . needs to tie to objective, . . . goals, . . . and defined scope**
- ✓ **. . . Transition is coming . . . but still not adequately defined**

## **SOME OVER-ARCHING COMMENTS REGARDING INTEGRATION**

- ✓ Responsibility for defining key site decisions . . . and promoting integration and coordinating interfaces lies with DOE**
- ✓ IP has responsibility for supporting integration and developing effective tools and knowledge**
- ✓ Integration will not be complete until responsibilities are met on a mutually supportive basis**

## **SOME OVER-ARCHING COMMENTS REGARDING INTEGRATION (CONTINUE)**

- ✓ **“End-points” and “End-states” and “End-Game” are not yet consistently understood**
- ✓ **IPEP supports risk assessment workshops that are being held to discuss remediation/closure decisions for the Central Plateau**
- ✓ **IPEP appreciates input from Ecology, Indian Nations, HAB, and public**

## **OVERALL OBSERVATIONS/CONCLUSIONS**

- ✓ Currently, IP principally influences limited/ localized decisions . . . information coming from the IP is still not sufficiently tied to key site decisions, but this is not the IP's fault**
- ✓ We are concerned about the execution of the coming IP transition . . . about what benefits, value, and progress might be lost or diminished**
- ✓ We are pleased about initial rollout of SAC results . . . Even with current limitations it can be of considerable value NOW**

## **RECOMMENDATIONS**

- ✓ **More emphasis needs to be placed on defining short-, intermediate-, and long-term decisions that IP can impact . . . Both local and site-wide decisions**
- ✓ **Near-term efforts on SAC Rev. 0 should focus only on removing significant deficiencies and building confidence in the results being produced**
- ✓ **An explicit and comprehensive transition plan is needed ASAP . . . and it needs to include how the present integration culture can be maintained**



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## SAC INITIAL RESULTS

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**Dr. Randy L. Bassett**

September 28, 2001

# **OBSERVATIONS**

- ✓ **The SAC Team was clearly successful in bringing the models to a level of functionality (Good Work)**
- ✓ **We applaud the cooperative effort with ORP in linking modeling**
- ✓ **IPEP strongly supports scheduling presentations with regulators, stakeholders, and Indian Nations**
- ✓ **Rev. 0.0 can yield conclusions as well as recommendations**

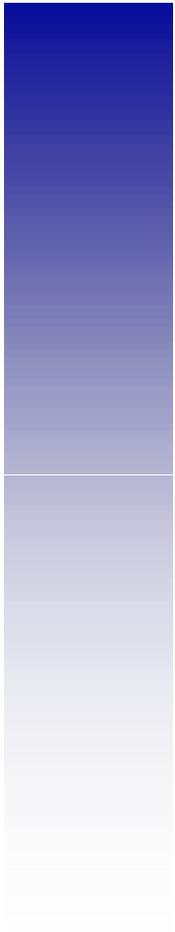
# RECOMMENDATIONS

- ✓ Identify the site decisions that require SAC input
- ✓ SAC should produce a white paper defining data needs for site planning
- ✓ Establish explicit closeout criteria to complete Rev. 0.0
- ✓ Provide access to information used in SAC regarding methods, databases, etc.
- ✓ Need independent peer review of SAC modules subsequent to documentation

## **RECOMMENDATIONS (Continued)**

- ✓ **Clear communication is essential for public presentations**
- ✓ **It is essential to build confidence in SAC**

# **OPEN PANEL COMMENTS**





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## SAC INVENTORY ISSUES

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**Dr. John Conaway**  
**Dr. John Matuszek**  
September 28, 2001

# **OBSERVATIONS**

- ✓ Good first pass at a big job**
- ✓ Team identified some weaknesses that they are now addressing**
- ✓ First pass has some intentional limitations**
  - 10 contaminants**
  - Records**

# CONCERNS

- ✓ **Interface between IP and core project needs further attention in the inventory area**
- ✓ **Method by which inventory is counted and labeled for SAC is confusing and apparently inconsistent**
- ✓ **While the SAC inventory is a good first pass, it will ultimately need to be based on a detailed site-wide inventory under configuration control**

# RECOMMENDATIONS

- ✓ **DOE should ensure IP has efficient access to needed data under control of core projects**
  - **Appropriate format**
  - **Additional data beyond core project needs**
- ✓ **Status of SAC inventory should be documented in a white paper**
- ✓ **Ensure that a detailed site-wide inventory under configuration control is available to support the SAC inventory**
- ✓ **Conduct external peer review of inventory, including interaction of IP and core projects**



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## GROUNDWATER REMEDIATION SYSTEMS

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**Dr. Michael C. Kavanaugh**

September 28, 2001

# **OBSERVATIONS**

- ✓ **All groundwater remedies are currently interim; final remedies not required until 2015**
- ✓ **Remedial strategies cannot be optimized without specific cleanup targets and definition of reasonable time frames**
- ✓ **Program is mature, with 5+ years of operation; well documented**
- ✓ **Specific definition of success and data supporting compliance still uncertain (e.g. chromium levels in compliance wells)**

## **OBSERVATIONS (Continued)**

- ✓ **Proposed enhancements to systems in response to EPA's 5 year review appropriate**
- ✓ **Apparent chromium breakthrough of ISRM raises concerns about viability of technology, but response of the IP has been appropriate**
- ✓ **Improved technologies for groundwater remediation clearly needed, but unclear how technology review by ITRD will be applied at the Site**

# RECOMMENDATIONS

- ✓ IPEP supports proposed approach to ISRM evaluation; critical to resolve cause(s) of unexpected breakthrough of chromium
- ✓ The cost-effectiveness of the ISRM (life-cycle costs) should be reassessed when new information becomes available
- ✓ As confidence builds regarding SAC, this tool could be used to reevaluate priorities for groundwater remediation

## **RECOMMENDATIONS (Continued)**

- ✓ **As stated in previous IPEP reports, the natural attenuation remedy for the strontium plume should be given full consideration in the technology evaluations**
- ✓ **Conduct an external review of the ITRD technology report to assist in selection of alternative remedial technologies**

## **IN SUMMARY . . .**

- ✓ The IPEP has seen the IP undergo many positive changes in 3 years and 10 meetings**
- ✓ The significance of what you have accomplished should not be underestimated**
- ✓ You have lit the way to the “Fork in the Road” . . .  
Take it!**
- ✓ See you on down the road**