

APS/Users Operations Meeting

Rod Gerig

May 26, 2010



Agenda

- 2:30 p.m. Refreshments
- 2:45 p.m. APS Update (Rod Gerig)
- 3:05 p.m. Summary of the “Advanced Nuclear Energy Systems”
Workshop (Lynn Soderholm)
- 3:25 p.m. 2009 User Survey Results (Denny Mills)
- 3:45 p.m. Adjourn



Safety Topic #1, The Big Stink

Heat Exchanger Cleaning WP&C Fail

- HX performance between vacuum cooling closed loop and APS chilled water system had deteriorated due to scale build up
- Responsible engineer procured cleaning solutions & equipment from area vendor
- No WP&C documents were prepared per Non-experimental Work WP&C Procedure (PROC-64)
- No ESH Coordinator was involved
- Vendor-provided MSDS sheets stated cleaning solutions were non-hazardous



Safety Topic #1, The Big Stink



Heat Exchanger Cleaning WP&C Fail

- Descaling solution had a pH of 1 and this was not noted on MSDS sheet
- Use of descaler solution in HX produced an unanticipated, strongly obnoxious odor
- Smell was transmitted to experiment hall floor and storage ring tunnel via HVAC units on the mechanical mezzanine resulting in a 911 call and Fire Department response



Take-away messages: A WP&C hazard analysis may have provided an opportunity to ask more questions about the solution. Involvement of an ES&H coordinator is encouraged when a task is rarely done, or there are any uncertainties.



Safety Topic #2, The Big Collapse

CP-5 Containment Vessel demolition

- Plan called for knocking-in domed roof and then taking down outer cylindrical walls
- Subcontractor did not have equipment to reach roof and decided to “lower” the structure by knocking out cylindrical walls
- Unclear at this time whether or not this was discussed with FMS or ASO beforehand
- **Take away message:** Perform work within the controls developed during the “Work Planning” process



Stay tuned for the “movie”!



Moving Ahead with the APS Upgrade Project



- CD-0 was approved on April 22, 2010
- Derrick Mancini (right) rejoined the APS as APS-U Project Director
- Primary tasks ahead are completion of the first drafts of principle Project documents needed for CD-1
- Preparation of the first draft of the Conceptual Design Report is under way, to be completed by the end of June for review by APS management
- Contact Derrick Mancini or Geoff Pile for more information about the APS Upgrade Project
- Project will make a dry run of presentation for a Conceptual Design Review at upcoming U. of Chicago review of APS at the end of August.





U. Of C. Review of the APS - August 30, 2010

- The next review of the APS by the University of Chicago will be Aug 30 – Sept 1, 2010.
- The format for this 2 ½ day review will be different this year from previous U of C Reviews and this Review will focus on the APS Upgrade and will serve as a dry-run Review of the CDR document.
- The relationship between the APS Upgrade and the ANL strategic plan will also be evaluated.
- If you have questions about the 2010 U of C review, please see Denny Mills.





Next Cross-cut Review

Cross Cut Review of Interface and Liquid Surface Scattering Science – October 6, 2010

