## DOE Recommendations for Accelerator Physics

- None
- ...but a few comments:
  - No specification for beam pulse flatness...since local intensity affects matching, lack of flatness can result in large projected emittance growth
    - Dong-o investigating...need input from LLRF
  - The parameter list specifies "expected" rms emittances. Since small halo can drastically change rms emittance...this is not always a useful specification
    - We agree that it is important to pay attention to the distribution, both core and tails
  - The commissioning team should use the opportunity afforded by DTL delay to fully characterize the beam from MEBT
    - We commissioned within constraints of hardware and time
  - ...use all possible means to reduce electron generation in SNS ring...proposed clearing electrode and solenoids should go ahead...

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Included in baseline now

## DOE Review (full draft agenda out this week)

- AP Overview <mark>S. Henderson</mark>
- Joint Session
  - Front-End Readiness and Operations G. Dodson 25
  - Front-End Beam Commissioning Results A. Aleksandrov 40
  - Front-End Beam Diagnostics Experience S. Assadi 25
  - Ion Source Performance and Plans M. Stockli 25
  - DTL Commissioning Preparations E. Tanke 25
- AP Breakout Session
  - Aspects of Piezoelectric Compensation of Lorentz Force Detuning
    M. Doleans 25
  - Ring Physics Overview D. Raparia 30
  - Understanding Space Charge and Controlling Beam Loss in the PSR S. Cousineau 25
  - ORBIT Code Plans and Update J. Holmes 25
  - Applications Programming Progress J. Galambos 30

May 7–9, 2002

## **DOE Timeline**



- Tues April 8 Today
- Tues April 15 No video
- Tues April 22 Next AP Video; Parameter List finalized
- Wed April 23 Sign-off on Parameter List
- Tues April 29 DOE Dry run for AP
- Thurs May 1 Noon Breakout Session Powerpoint files on Server
- Tues-Thurs May 6-8 DOE Review

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