

Action Items from ARIES IFE Meeting, UCSD, Jan. 8-10, 2003

1. Assess vortices collection at chamber side and how wall is protected there (S. Yu/P. Peterson)
2. Detailed 3-D assessment of HYLIFE maintenance scheme (W. Meier/R. Abbott)
3. Assess tolerance of criss-crossing jets to nozzle flow blockage (S. Abdel-Khalik/W. Meier)
4. Assess reproducibility of nozzle motion over desired lifetime and pocket formation tolerance to out of phase nozzle motion (W. Meier/L. Waganer)
 - swelling
 - lubrication
5. How clean is pocket when it is formed? (W.Meier/S. Abdel-Khalik)
6. Comparison of self-pinch and assisted pinch (S. Yu)
7. Adjust breeding to avoid breeding behind solid walls (L. El-Guebaly)
8. Assess criss-crossing jet motion under impulse load (C. Debonnel/S. Yu)
9. Improve aerosol analysis: (P. Sharpe)
 - add other particle sources to model (e.g. melt-layer ejection and spray droplet injection)
 - fix radiative/plasma part of gas-dynamic model to better simulate the behavior of evaporated vapor (e.g. ion heating)
 - extend to model to multi-component aerosols to allow more realistic simulation of Flibe condensation
 - Impact on aerosol characteristics of reducing chamber radius

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10. Correct target and driver constraints(as integrated values) on aerosol distribution (R. Raffray)
11. Perform detailed estimate of spall for candidate liquid armor and characterize ablated material as aerosol source term. (M. Zaghoul, R. Raffray)
12. Develop rationale for number of workers and for lower cost with shared target facility (R. Petzoldt)
13. How to mitigate impact of last target assembly process failure? (R.Petzoldt)
14. Develop assembly/disassembly/maintenance sequence for RDP (T. Brown)
15. Calculate average WDR over entire magnet assembly (shield, structure, coil, insulator, etc...) (J. Latkowski/W. Meier)
16. Analyze impulse imparted to and the prompt evaporation from the crossing jets for the thick liquid robust point design (Don Haynes)