

List of ARIES-ACT-1 Papers

Deadlines:

Feb. 1: Final title, outline of the paper, list of authors, and estimate of number of pages

March 1: First draft of paper for distribution to the team

April 1: Final draft for submission of Journal.

List of papers: (Lead authors listed)

- 1) **"Overview of the ARIES-ACT-1 Advanced Tokamak, Advanced Technology Power Plant Study,"** Najmabadi
- 2) **"Physics Basis for an Advanced Tokamak Power Plant,"** Kessel
- 3) **"Edge-Physics Modeling for ARIES-ACT-1"** Rensink/Rognlien
- 4) **"Advanced power core system for the ARIES-ACT-1 power plant,"** Tillack
- 5) **"ARIES-ACT-1 Nuclear Analysis and Shield Design,"** El-Guebaly
- 6) **"Review of experimental work on different divertor designs"** Yoda
- 7) **"ARIES-ACT-1 Safety Design and Analysis,"** Paul Humrickhouse
- 8) **"ARIES-ACT-1 system Configuration & Maintenance,"** Wang
- 9) **"Blanket manifolds"** (need a better title) /Koehly
- 10) **"ARIES-ACT-1 Vacuum Vessel Design," (including disruption analysis),** Tentative
- 11) **"Status of Material used in ARIES-ACT-1"** (Arthur to decide and supply a better title)
- 12) **"Divertor thermo-mechanical analysis"** Blanchard to decide
- 13) **Activation analysis** (all safety-related analysis should be in Safety apaper). El-Guebaly to decide.

Others?