



## Burning Plasma Support Priorities

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## General Comments

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This is clearly an ambitious, success-oriented program, which could be obstructed by

- Insufficient Funding
- Failure to initially achieve the intermediate goals in one or more aspect of the program, *e.g.* perhaps the unbalanced DN pumping scheme won't be compatible with otherwise optimal pedestal
- Technology testing may demonstrate negative properties, requiring more iterations or a change of direction

The intermediate objectives all represent significant accomplishments and meaningful contributions, so the first answer would be to accept delays in the individual program elements as necessary, with attendant delays in the final integration steps, while proceeding with all deliberate speed where possible.

# Among the program elements, my prioritization would be

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1. Pedestal Physics program – some elements may be delayed
2.  $\rho_*$ -scaled model discharges matching  $\nu/\omega_*$  and/or  $\nu\tau_E$ , including core response to pedestal parameters (stiffness assessment)
3. Test of unbalanced DN pumping concept
4. Density profile control by AT-style transport modification
5. Dissipative/radiative divertor
6. Test of D-He<sup>3</sup> core heating
  - Lower down the list would be high heat flux advanced divertor prototyping (although this may ultimately be essential for AT)
  - NTM research should still be carried out by MHD and RF physics sections, but integrated test of feedback stabilization could be delayed.