

EBW Research Plan 2003-8

2003:

- Obtain ~ 100% B-X & B-X-O emission on NSTX
- Modify 28 GHz RF tube for 15.3 GHz operation
- Scoping study for NSTX heating/CD
- Conceptual design for EBW antenna

2004:

- Complete design for Phase 1 (1 MW) system using ORNL (28/15.3 MW) tubes
- Begin 15 GHz tube development with Thales?

2005:

- Complete construction phase I

2006:

- Demonstrate on-axis EBW heating and startup with 1 MW

2007/8:

- Install phase II (~5MW)

2008/9:

- Sustained CD and NTM stabilization in 2008-9