

Current Phase I Goals for Wisconsin

- Program Element-3.2
- Deliverables-FY02-2.1 Chamber Modeling
 - Calculate target threat spectra
 - Parametric analysis of chamber response
 - Detailed analysis of specific chamber designs
 - Design validation experiments for codes & data
 - Diagnose and interpret experiments that simulate chamber conditions
- Funding-\$498 k
- Deliverable-January 31, 2003



UW Presentations

- There will be five related presentations:
 - Graphite chamber issues and trade-offs (Haynes)
 - CONDOR: a flock of “badgers” (Moses)
 - W-armored ODS designs (Blanchard)
 - How UW will support HAPL 3 year plan (Kulcinski)
 - Validation of wall response models and interpretation of experiments on Z and RHEPP (Peterson (tomorrow))

The University of Wisconsin Will Support The HAPL 3-Year Plan on Chamber Development

- **BAA-144, Area 2-Theoretical and experimental studies of the effects of laboratory thermonuclear explosions on the chamber walls**
- **Major research thrusts-Year 1**
 - Improve threat spectra calculations
 - Expansion of design windows for dry wall chambers
 - Inclusion of CRE code in BUCKY for target threat spectra
 - Diagnose & interpret experiments that simulate chamber conditions
 - Begin point design of IRE chamber
- **Funding-\$500 k, (2 FTE plus 2 students)**
- **Deliverable-January 31, 2004**



Wisconsin Will Support The HAPL 3-Year Plan on Chamber Development (cont.)

- **Major research thrusts-Year 2**
 - Improve threat spectra calculations for direct drive targets
 - Optimization of dry wall design windows for IRE
 - Diagnose & interpret experiments that simulate chamber conditions
 - Begin point design of IRE chamber
 - Design basis accident analysis for dry wall chambers
- **Funding-\$520 k, (2 FTE plus 2 students)**
- **Deliverable-January 31, 2005**



Wisconsin Will Support The HAPL 3-Year Plan on Chamber Development (cont.)

- **Major research thrusts-Year 3**
 - Improve threat spectra calculations for direct drive targets
 - Detailed analysis of dry wall design for IRE
 - Diagnose & interpret experiments that simulate chamber conditions
 - Point design of IRE chamber
 - Design basis accident analysis for dry wall IRE chamber
- **Funding-\$540 k, (2 FTE plus 2 students)**
- **Deliverable-January 31, 2006**

