

**Project Name: 504 22 Hornet****Revised: 4/11/05****Project Number: 241451****R&D Engineer(s): Will B James, Vincent Norton****Marketing Manager: John Trull****Plant Contact: K. D. Lance****Status:**

- M/504 - 22 Hornet will require design changes to the current 504 platform in the following areas: bolt head, firing pin, ejector, magazine, follower, spring, magazine housing, box bottom and extractor.
- Ilion Custom Shop will provide two (2) 504 - 22 Hornet barrels without extractor cuts for the receiver clamp and lockup test. Will prototype the bolt head for test within the time frame of making barrels.
- Working through some design concerns with new magazine design. The design will consist of a staggered round magazine with capacity of 4 to 5 rds.
- Currently working through the bolt face design. Considering the size of the bolt face a new claw type extractor and plunger will be designed.
- There is not enough room for the standard 504 blade type ejector. The ejector maybe incorporated into the top of the magazine box or within the face of bolt.

**Issues:**

- 1) Will current barrel receiver clamping and bolt locking system hold for the additional pressures with the 22 Hornet?
- 2) NPP for this project?

**Action Items:**

| Action Item                                     | Status     | Responsible | Date    |
|---|------------|-------------|---------|
| 1. Finished 504-22 Hornet barrels               | In Process | Custom Shop | 4/25/05 |
| 2. Design center fire 504 bolt head for Test    | Complete   | R&D         | 4/1/05  |
| 3. Order bolt components                        | Complete   | R&D         | 4/12/05 |
| 4. Order proof rds for receiver clamp test      | In process | R&D         | 4/15/05 |
| 5. Test Receiver clamping & bolt locking system |            | R&D         | 5/15/05 |
| 6. Design Final Bolt head / extractor           | In Process | R&D         | 5/15/05 |
| 7. Complete design of magazine                  | In Process | R&D         | 5/25/05 |

**Schedule / Key Milestones:**

| Milestone          | Current Date |
|--------------------|--------------|
| EET                | 7/22/05      |
| DAT 1              | 9/23/05      |
| DAT 2              | 11/18/05     |
| T&P                | 4/15/06 ?    |
| Warehouse Position | TBD          |