710 Magnum T&P Conf. Call – 1/14/04 @ 9:00 am EST

- 3 Issues
  1. SAAMI Jar-Off Test
  2. Obstructed Bore Test
  3. Bolt Head Manufacturing Control (extractor)

1. SAAMI Jar-Off Test
   - 1 of 6 guns failed in horizontal position, btm gun down
   - gun set to process min. for engagement(.020") and trigger pull(4 lbs)
   - determined sear/connector moved, not an over-ride
   - inspected gun and re-measured settings – no appreciable change
   - retorqued take down screws to factory spec. and redropped –dropped 3 times- fired on 3rd drop
   - saw Diaz support bracket screw was partially stripped on head but was tight, installed new screw and dropped again, fired on 2nd drop
   - disassembled fire control and visually inspected components – found connector could rock on the sear, high spot on trigger front face
   - pressing on bottom front face of connector rotates and moves connector .012" at top
   - took a trigger/sear from a DAT gun (connector to sear fit tight, no rock)
   - reassembled and dropped 5 times without failure
   - completed SAAMI Drop test OK, did break rear insert on last drop
   - measured trigger and sear and compared to model drawing- in spec but on high side for flatness (both trigger + connector)
   - looked at other guns from T&P sample and they exhibited similar fit between connector and trigger
   - Measured trigger and connector on 6 drop guns - some dimensions out of spec. on both trigger and sear but not specific to failed gun

2. Obstructed Bore
   - From DAT testing new hardness spec. determined Rc 42-47 (DAT Rc (45, 46) DAT-2 Guns tested)
   - Testing T&P sample at Rc 42 and bolt lugs sheered and bolt exited gun rearward
   - Tested 2 more samples at Rc 44 and bolts stayed in guns – bolt plugs came off and stock damage did occur
   - New proposed spec will have Rc 44 min.

3. Bolt Head Manufacturing
   - Failed a bolt shroud during 100 rd. proof test at 60+ rds. (never did this)
   - Inspected bolt heads and measured dimensions – bolt heads not to print on extractor cuts and shroud cuts
   - Mayfield has had problems controlling these cuts

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- Design proposed a change to make extractor cuts less sensitive
- Approx. 30 – 40 bolts processed, look much better
- Testing has started on these yesterday

Remaining Testing

- High Pressure
- All function and Endurance