

CONFIDENTIAL

5-5-89

RESEARCH DEVELOPMENT COSTS  
FOR  
NEW BOLT ACTION RIFLE (NBAR)

RESEARCH DEVELOPMENT COST ESTIMATE : JAN 89 THRU OCT. 92

|                                                                                  |         |
|----------------------------------------------------------------------------------|---------|
| 1. INITIAL DESIGN                                                                | 365 M   |
| 2. BUILD INITIAL DESIGN PROTO TYPE GUNS (3)                                      | 184 M   |
| - PRELIMINARY PROTOTYPE TOOLING - TEMPORARY                                      | 80 M    |
| 3. DESIGN REVIEW TEAM ANALYSIS                                                   | 35 M    |
| 4. TEST PHASE I PROTOTYPES                                                       | 74 M    |
| 5. RE-DESIGN AFTER PHASE - I TEST                                                | 155 M   |
| 6. BUILD PHASE II DESIGN SAMPLES (15)                                            | 159 M   |
| - PROTO TYPE TOOLING.                                                            | 160 M   |
| - PLANT ASSISTANCE                                                               | 35 M    |
| 7. TEST PHASE II SAMPLES                                                         | 90 M    |
| 8. REDESIGN AFTER PHASE II TESTING                                               | 141 M   |
| 9. BUILD DESIGN ACCEPTANCE GUNS (30)                                             | 242 M   |
| - PROTOTYPE / PERMANENT TOOLING.                                                 | 105 M   |
| - PLANT ASSISTANCE                                                               | 45 M    |
| 10. TEST DESIGN ACCEPTANCE GUNS                                                  | 72 M    |
| 11. MINOR RE-DESIGN & TRANSITION TO PRODUCTION                                   | 13 M    |
| 12. DRAFT MANUAL                                                                 | 25 M    |
| 13. TEST AMMUNITION COST (55,000 RPS (5000 RPS 1990X.254) (50,000 RPS 1991X.254) | 14 M    |
| TOTAL DEVELOPMENT COST (1989 DOLLARS) =                                          | 1,974 M |

RESEARCH MANPOWER ESTIMATE : MAY 89 THRU OCT. 92

|                         |                |
|-------------------------|----------------|
| 1. RESEARCH ENGINEER    | 4.94 MAN YEARS |
| 2. EDC ENGINEER         | 1.03 " "       |
| 3. CAD DESIGNER         | 1.90 " "       |
| 4. CAD DETAILER         | 1.74 " "       |
| 5. DRAFTSMAN            | .25 " "        |
| 6. MODEL SHOP PERSONNEL | 4.18 " "       |
| 7. N/C PROGRAMMER       | 2.08 " "       |
| 8. TEST LAB PERSONNEL   | 2.50 " "       |

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FOR  
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RESEARCH DEVELOPMENT COST ESTIMATE : JAN 89 THRU OCT. 92

|                                                          |     |
|----------------------------------------------------------|-----|
| 1. INITIAL DESIGN                                        | M   |
| 2. BUILD INITIAL DESIGN PROTO TYPE GUNS (3)              | M   |
| - PRELIMINARY PROTOTYPE TOOLING - TEMPORARY              | M   |
| 3. DESIGN REVIEW TEAM ANALYSIS                           | M   |
| 4. TEST PHASE I PROTOTYPES                               | M   |
| 5. RE-DESIGN AFTER PHASE - I TEST                        | M   |
| 6. BUILD PHASE II DESIGN SAMPLES (15)                    | M   |
| - PROTO TYPE TOOLING.                                    | M   |
| - PLANT ASSISTANCE                                       | M   |
| 7. TEST PHASE II SAMPLES                                 | M   |
| 8. REDESIGN AFTER PHASE II TESTING                       | M   |
| 9. BUILD DESIGN ACCEPTANCE GUNS (30)                     | LM  |
| - PROTO TYPE / PERMANENT TOOLING.                        | M   |
| - PLANT ASSISTANCE                                       | M   |
| 10. TEST DESIGN ACCEPTANCE GUNS                          | M   |
| 11. MINOR RE-DESIGN & TRANSMITTAL TO PRODUCTION          | M   |
| 12. DRAFT MANUAL                                         | M   |
| 13. TEST AMMUNITION COST (55,000 RDS 5000 RDS 1991X.25¢) | M   |
| (50,000 RDS 1991X.25¢)                                   | M   |
| TOTAL DEVELOPMENT COST (1989 DOLLARS) =                  | 7 M |

RESEARCH MANPOWER ESTIMATE : MAY 89 THRU OCT. 92

|                         |           |
|-------------------------|-----------|
| 1. RESEARCH ENGINEER    | MAN YEARS |
| 2. EDC ENGINEER         | " "       |
| 3. CAD DESIGNER         | " "       |
| 4. CAD DETAILER         | " "       |
| 5. CRAFTSMAN            | " "       |
| 6. MODEL SHOP PERSONNEL | " "       |
| 7. N/C PROGRAMMER       | " "       |
| 8. TEST LAB PERSONNEL   | " "       |

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