

SUMMARY REPORT OF RESEARCH PROJECTS

\$500 AND OVER

	Number Of Projects	Amount Authorized*
New projects authorized during December, 1941.....	-	-
New parts of old projects authorized during December, 1941.....	1	155
Completed during December, 1941.....	6	25,380
Completed to date.....	45	193,581
Open (December 31, 1941).....	54	467,568
Completed parts of open projects.....	-	176,128

*Not including Plant Increase and
associated Operations items

STATUS OF OPEN PROJECTS

1st Column - PROJECT
Title
Project Number and Number of parts (Roman)
Total amount authorized

2nd Column - DATES
(1) Date authorized
(first part if more than one)
(2) Scheduled completion date
(last part if more than one)
(2a), (2b), etc. Revised completion date

3rd Column - REMARKS
Status
Reasons for any revision of completion
date made during current month

PROJECT	DATES	REMARKS
Molded Felt Wads (Research - \$ 44,138) B-10 X \$183,223	(1) 5/34 (2) 1/41 (2a) 12/41 (2b) 6/42	Progress reported
Steel Rim Fire B-63 IV \$33,105	(1) 12/36 (2) 1/42 (2a) 5/42	Progress reported

PROJECT	DATES	REMARKS
Steel Shot Shell Heads B-64 V \$34,815 B-276 II-Plants \$120,000 (Research under Pt. I - Bpt. - \$12,700)	(1) 3/37 (2) B-64 IV 1/42 V Inactive B-276 I 7/42 II 9/42	Progress reported c B-276
New Remington-Peters Crimp B-105 XIII \$47,000	(1) 3/37 (2) 6/42	Progress reported
All Metal Shot Shells B-79 II \$12,200	(1) 4/37 (2) 7/42 (2a) 1/43	Some progress
Low Cost Shot Shells B-76 I \$3,400	(1) 5/37 (2) 4/38 (2a) Indefinite	Awaiting APC de- cision
Bullet Lubricants B-80 II \$9,610	(1) 5/37 (2) 8/41 (2a) 1/42	Progress reported
Unconventional Shot Shells B-89 I \$6,400	(1) 6/37 (2) 6/38 (2a) Indefinite; may be closed	Progress reported
New Alloys for Guns B-149 IV \$49,000	(1) 10/37 (2) 6/40 (2a) 8/42	No progress; lack o personnel
Lead Base Alloys B-96 I \$4,920	(1) 10/37 (2) 12/39 (2a) 1/43	No progress
Electrical Chronoscope B-124 II \$5,735	(1) 2/38 (2) 7/39 (2a) 1/42	Progress reported
Williams Gun B-112 I \$2,900	(1) 5/38	Dormant - closed out 12/31/41
Spatterless Bullets B-111 I \$4,700	(1) 5/38 (2) 6/39 (2a) 5/42	Dormant - closed out 12/31/41
Steel Drawing B-106 I \$4,300	(1) 5/38 (2) None (2a) 12/42	No progress; person- nel on Steel Shot Shell Heads
Coloring Methods for Steel Ammunition B-193 II \$6,000	(1) 7/40 (2) 10/41 (2a) 6/42	Normal progress
Primer-Powder B-116 I \$4,600	(1) 6/38 (2) 6/39 (use) (2a) 1/42 (2b) 6/42	Slow progress; lack of personnel
Raw Materials Specifications B-136 I \$11,000	(1) 3/39 (2) 3/40 (2a) 1/43	Dormant
Design for Low Cost Center Fire Arms B-138 III \$31,500	(1) 4/39 (2) 7/41 (2a) 10/41	Progress reported; Part III completed; Part IV being pre- pared

PROJECT	DATES	REMARKS
Polishing Methods B-151 I \$2,550	(1) 8/39 (2) 8/40 (2a) Indefinite	Dormant; no personnel
Model 850 Development RI-94 VII \$8,000	(1) 1/40 (2) 4/40 (2a) 8/42	Slow progress
New Priming Materials B-170 II \$10,800	(1) 10/39 (2) 2/41 (2a) 1/42 (2b) 6/42	Dormant; personnel on special assignment
Choke-Pattern Relationship B-171 I \$5,100	(1) 2/40 (2) 1/41 (2a) 1/42 (2b) 9/42	Progress reported
Metal Sheetting B-175 III \$4,125	(1) 3/40 (2) 10/41	Completed - closed out 12/31/41
Competitive Products B-178 I \$2,500	(1) 4/40 (2) 4/41 (2a) 10/41 (2b) 12/41	Progress Report and Part II being prepared
Steel Berdan Battery Cups B-201 I \$7,200	(1) 9/40 (2) 6/41 (2a) 6/42	Dormant
Steel Primer Cups MCB-1812 I \$1,975	(1) 9/40 (2) 6/41 (2a) 3/42	Progress reported
Impact Testing of Materials B-209 II \$3,550	(1) 10/39 (2) 8/41 (2a) 11/41 (2b) 4/42	Progress reported; completion delayed by work on Steel Shot Shells and Ordnance Plant Assistance
New Products B-208 I \$10,000	(1) 11/40 (2) 11/41 (2a) 3/42	Normal progress; report prepared
Development of a Suitable Non-Mercuric Center Fire Priming Mixture B-213 I \$6,000	(1) 12/40 (2) 12/41 (2a) 6/42	Work resumed
Construction of Two Cathode Ray Oscillographs B-211 I \$2,500	(1) 12/40 (2) 2/41 (2a) 11/41 (2b) 9/42	Normal progress
Aluminum Center Fire Cases MCB-1870 I \$1,500	(1) 12/40 (2) 6/41 (2a) 8/42	No progress; lack of materials
Electrical Strain Sensitive Gauges for Pressure Measurements B-212 II \$2,200	(1) 1/41 (2) 12/41 (2a) 6/42	Dormant
Evaluation of New Priming Explosives B-214 I \$8,500	(1) 1/41 (2) 12/42	Dormant; no personnel available

PROJECT	DATES	REMARKS
Higher Velocity Shot Shells MCB-1874 I \$1,700	(1) 1/41 (2) 7/41 (2a) 1/42	Completed; Progress Report prepared
High Speed X-Ray Equipment B-218 II \$3,550 (Research \$900)	(1) 11/40 (2) None (2a) 1/42	Progress reported
Study of Bullet Trajectories B-225 I \$9,000	(1) 2/41 (2) 10/42	Part II approved; normal progress
Condenser Chronoscope B-226 II \$3,800 (Research \$2,600)	(1) 11/40 (2) Use 7/41, Complete 12/41 (2a) 3/42	Progress reported
Study of Bullet Lubrication B-227 I \$7,500	(1) 2/41 (2) 8/42	Progress reported
Lower Cost Trap Design MCB-1945 I \$1,770	(1) 3/41 (2) 11/41 (2a) 3/42	Progress reported
Experimental Work on Tracer Materials B-240 VI \$15,000	(1) 3/41 (2) 9/41 (2a) 2/42	Normal progress
Aluminum Rim Fire Cases B-237 I \$3,500	(1) 4/41 (2) 10/41 (2a) 1/42 (2b) 6/42	No progress; per- sonnel on Steel Heads
Measurement of Functioning Time on M/11 and M/850 Guns MCB-1978 I \$500	(1) 4/41 (2) 8/41 (2a) 1/42 (2b) 6/42	Delayed by lack of personnel
Walnut Blank Processing B-280 II \$4,900	(1) 5/41 (2) 9/42	Progress reported
Coloring Bullets MCB-2039 I \$1,000	(1) 6/41 (2) 12/41 (2a) 3/42	No progress
Superior M/850 Stock and Fore-End B-259 I \$5,200	(1) 6/41 (2) 6/42	No progress this month
Shot Shell Body Waterproof and Scuff Resistance Im- provement MCB-2212 II \$900	(1) 6/41 (2) 1/42 (2a) 4/42	Dormant
Low Cost Single Barrel Shotgun B-273 I \$6,500	(1) 7/41 (2) 3/42	Progress reported
Steel Military Cartridge Cases MCB-2064 I \$500	(1) 7/41	Awaiting management action on Part II
Small Arms Powders MCB-2145 II \$6,500	(1) 8/41 (2) 7/42	Progress reported

PROJECT	DATES	REMARKS
Low Cost Finishing Methods MCB-2150 I \$2,000	(1) 8/41 (2) 1/42 (2a) 9/42	Dormant
Accuracy of Hard Lead Bullets B-285 I \$3,000	(1) 9/41 (2) 7/42	Not started
Technical Activity in Plant on Explosives and Primers B-287 I \$10,000	(1) 9/41 (2) 1/42	Activity reported
Design for Low Cost .22 Rifle (M/514) B-288 I \$6,000	(1) 9/41 (2) 7/42	Progress reported
Low Cost Deburring B-289 I \$4,200	(1) 9/41 (2) 7/42	Dormant; lack of personnel
Construction of Rim Fire Crimper MCB-2199 II \$1,700	(1) 9/41 (2) 12/41	Normal progress
Effect of Cup Grain Size on Processing and Quality of Caliber .30 Armor Piercing Cartridge Cases MCB-2215 I \$900	(1) 10/41 (2) 11/41	Completed; report being written
Long Range Plan MCB-2248 I \$850	(1) 11/41 (2) 1/42 (2a) 3/42	No progress
Shelter for Experimental Trap Work MCB-2273 I \$500	(1) 11/41 (2) 12/41	Completed
Discontinuance of Black Powder in Blank Car- tridges MCB-2277 I \$1,000	(1) 11/41 (2) 12/41	Progress reported

PROJECTS WRITTEN THIS MONTH:

Non-Aluminum Shovel Type Carrier - Part II
Pressure Indicator - Part IV
Steel Shot Shell Heads - Part VI
Special Chronoscope for Experimental Station

PROJECTS BEING WRITTEN OR PROPOSED:

Remington Omni Choke - Part II (Muzzle Device Project)
Piston Plus Wadding - Part XI (Molded Felt Wad Project)
Trombone Variable Choke - Part I

PROGRESS REPORTS WRITTEN THIS MONTH:

New Products (RDR-41-23) dated 12/17/41

LIBRARY ACCESSIONS:

Civil Air Defense - Prentiss
Automatic Arms - Johnson & Haven
Art of Retouching and Improving Negatives and Prints -
Johnson and Hammond

WOS:MDB
1/13/42