

C6522331

MODEL 700™ M24

Model SMS™

Action

Barrel Length

Capacity

Order No. 5716

* Includes 1 in chamber.

Remington

Remington[®] **DUPONT**
REG. U.S. PAT. & TM. OFF.

MODEL 700TM H24

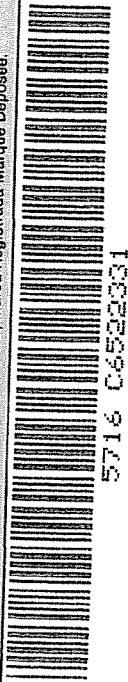
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.

VERY IMPORTANT:
 Instruction Book
 enclosed to assure
 safe use of this
 firearm.

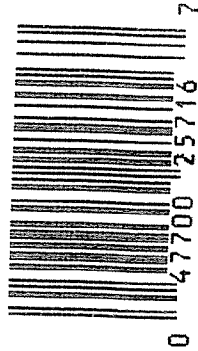
SERIAL NO. C6522331

ORDER NO. 5716

01



LPC



CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6522331
8 Aug 1990

CENTROIDAL DISTANCES

0 TO	1	.344646
1 TO	2	.617662
1 TO	3	.74706
1 TO	4	.668506
1 TO	5	.640379

$\frac{1}{2^3} \times \frac{1}{2^4}$ <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0814
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.2118
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .226904

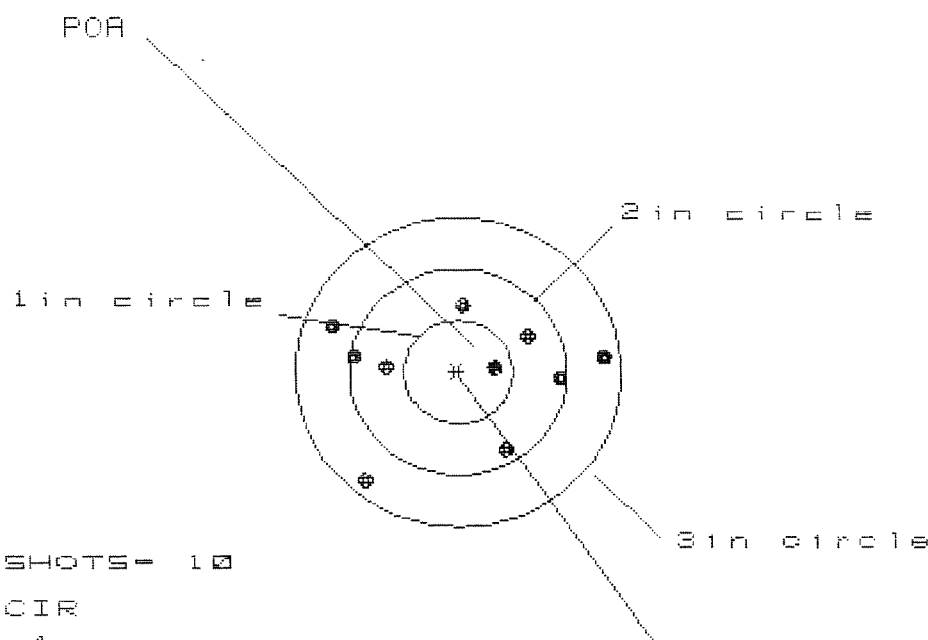
THE AMR FOR THIS RIFLE IS: .7856

6 Aug 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06522331

CENTERFIRE PATTERNS

1



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 6

3 in = 10

HS= 2.500

VS= 1.691

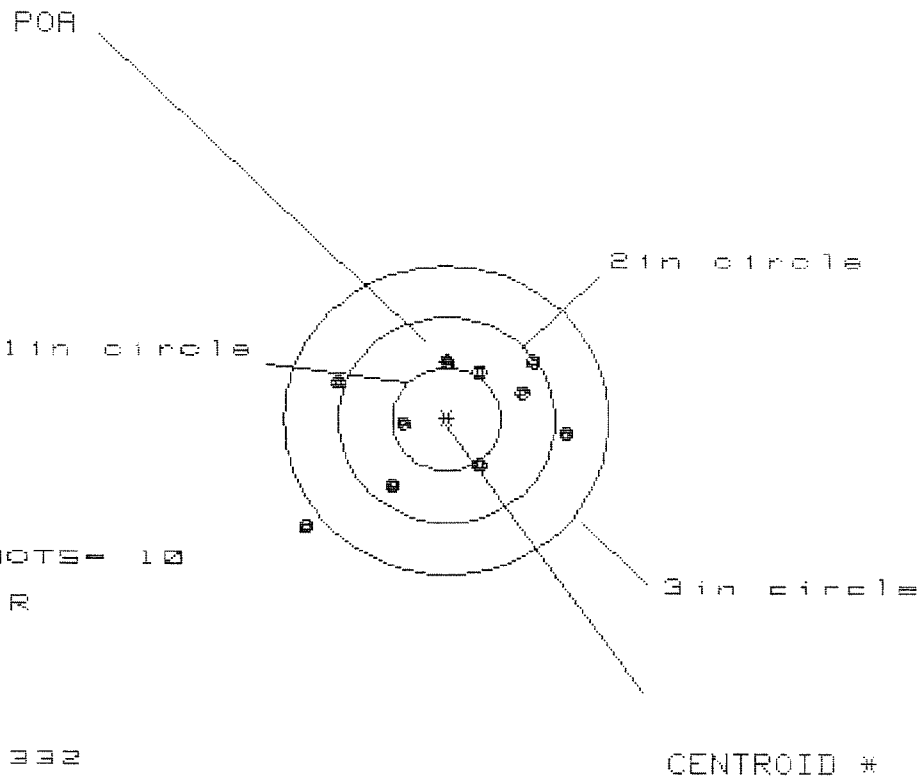
GS= 2.537

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.369	1.049	.957
MINIMUM X	-1.131	-.978	-1.070
MAXIMUM Y	.656	.669	.541
MINIMUM Y	-1.035	-1.022	-.895
CENTROID X	-.341	-.493	-.401
CENTROID Y	-.050	-.063	.065
POA TO CENTROID in.	.344	.497	.406
MIN RADIUS	.330	.482	.399
MEAN RADIUS	.923	.874	.803
MAX RADIUS	1.375	1.259	1.125
HORIZONTAL SPREAD	2.500	2.027	2.027
VERTICAL SPREAD	1.691	1.691	1.437
EXTREME SPREAD	2.537	2.102	2.102
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	10		

8 Aug 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6522331

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 7

3 in = 8

HS= 2.332

VS= 1.660

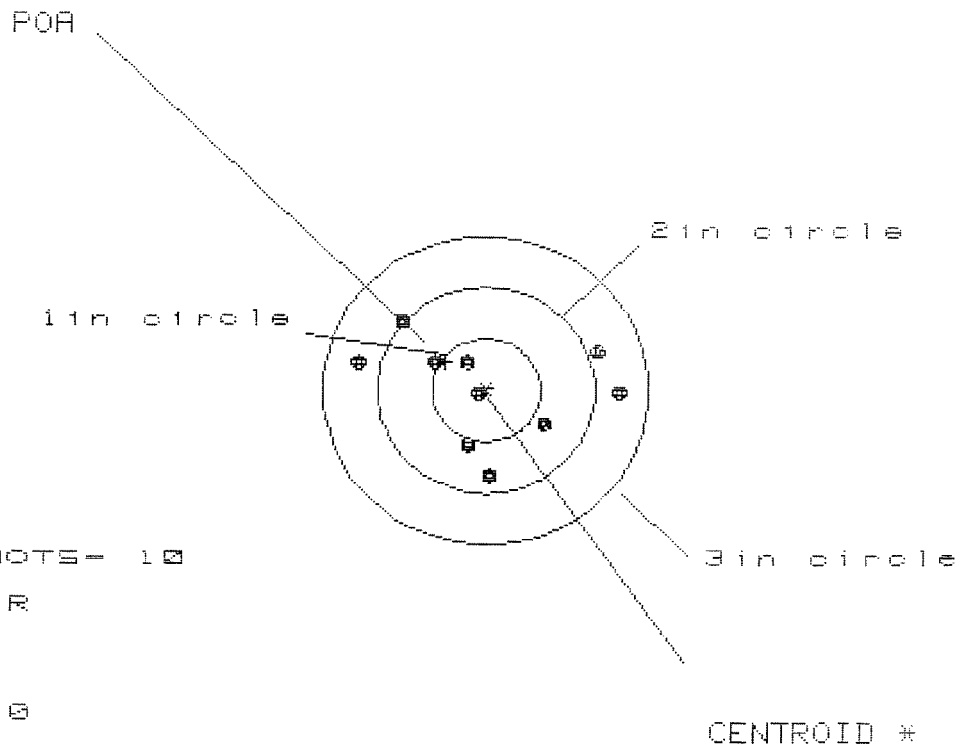
CS= 2.628

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.074	.934	.804
MINIMUM X	:	-1.258	-1.106	-.989
MAXIMUM Y	:	.607	.490	.464
MINIMUM Y	:	-1.053	-.768	-.794
CENTROID X	:	-.000	.140	.023
CENTROID Y	:	-.565	-.448	-.422
POA TO CENTROID in.	:	.565	.469	.423
MIN RADIUS	:	.413	.351	.403
MEAN RADIUS	:	.840	.723	.692
MAX RADIUS	:	1.640	1.141	1.022
HORIZONTAL SPREAD	:	2.332	2.040	1.793
VERTICAL SPREAD	:	1.660	1.258	1.258
EXTREME SPREAD	:	2.628	2.098	1.807
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

8 Aug 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06522331

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 2

2in = 6

3in = 10

HS= 2.366

VS= 1.471

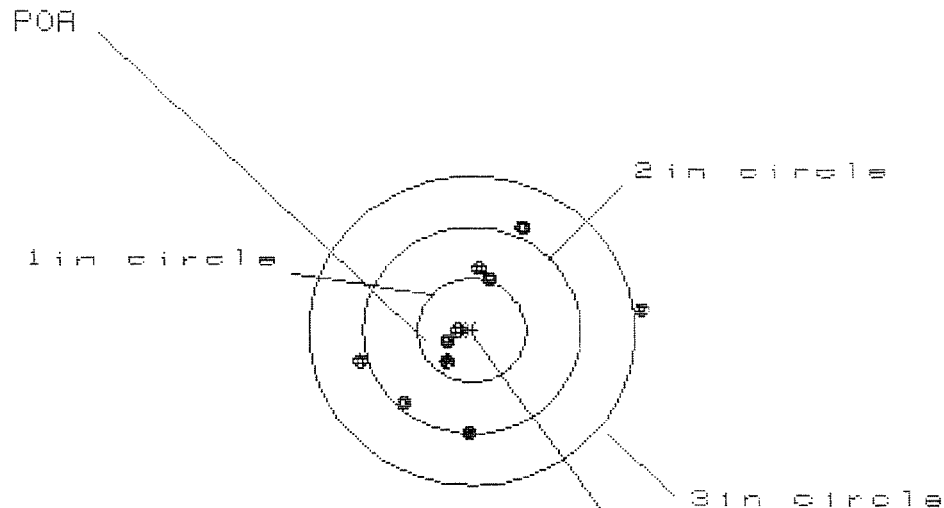
GS= 2.382

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.238	1.142	1.018
MINIMUM X	:	-1.128	-0.990	-0.798
MAXIMUM Y	:	.632	.631	.664
MINIMUM Y	:	-.839	-.840	-.807
CENTROID X	:	.372	.234	.358
CENTROID Y	:	-.273	-.272	-.305
POA TO CENTROID in.	:	.462	.359	.470
MIN RADIUS	:	.077	.133	.043
MEAN RADIUS	:	.736	.671	.616
MAX RADIUS	:	1.238	1.191	1.083
HORIZONTAL SPREAD	:	2.366	2.132	1.816
VERTICAL SPREAD	:	1.471	1.471	1.471
EXTREME SPREAD	:	2.382	2.133	1.839
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

8 Aug 1990

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CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1in = 3

2in = 6

3in = 9

HS= 2.520

VS= 2.076

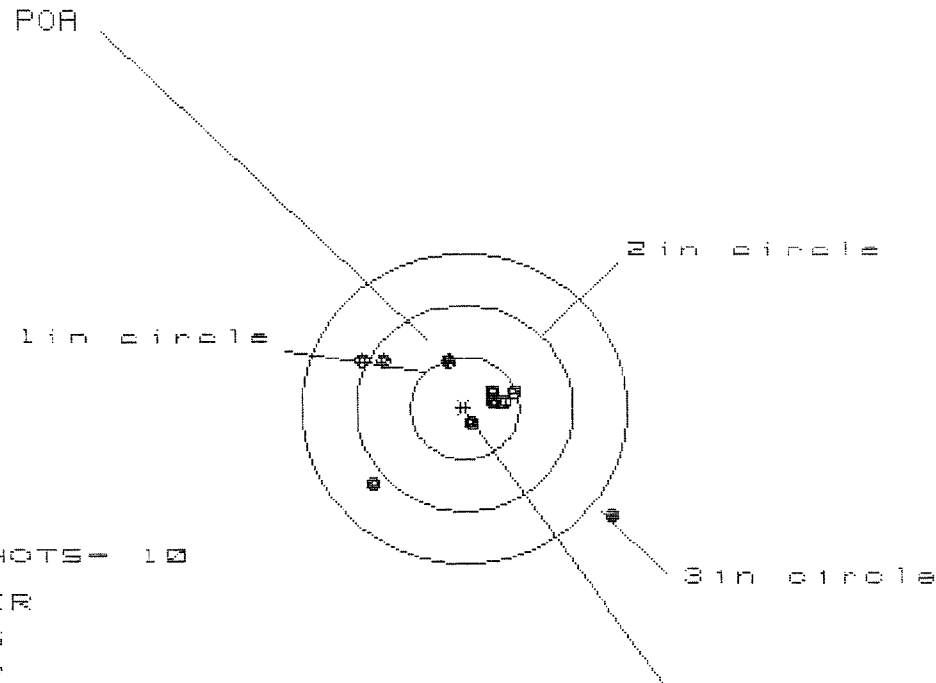
GS= 2.573

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.536	.680	.390
MINIMUM X	:	-.984	-.813	-.728
MAXIMUM Y	:	1.053	1.080	.734
MINIMUM Y	:	-1.023	-.996	-.861
CENTROID X	:	.231	.060	-.025
CENTROID Y	:	.296	.269	.134
POA TO CENTROID in.	:	.376	.276	.136
MIN RADIUS	:	.126	.081	.070
MEAN RADIUS	:	.761	.637	.546
MAX RADIUS	:	1.555	1.276	.880
HORIZONTAL SPREAD	:	2.520	1.493	1.118
VERTICAL SPREAD	:	2.076	2.076	1.595
EXTREME SPREAD	:	2.573	2.156	1.602
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

8 Aug 1998

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CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 6

2in = 7

3in = 9

HS= 2.266

VS= 1.464

GS= 2.684

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.339	.610	.521
MINIMUM X	:	-.927	-.778	-.867
MAXIMUM Y	:	.471	.361	.260
MINIMUM Y	:	-.993	-.806	-.349
CENTROID X	:	.145	-.004	.085
CENTROID Y	:	-.467	-.357	-.256
POA TO CENTROID in.	:	.489	.357	.270
MIN RADIUS	:	.138	.294	.274
MEAN RADIUS	:	.668	.572	.480
MAX RADIUS	:	1.667	1.072	.898
HORIZONTAL SPREAD	:	2.266	1.388	1.388
VERTICAL SPREAD	:	1.464	1.167	.609
EXTREME SPREAD	:	2.684	1.548	1.426
NUMBER IN ONE INCH CIRCLE =			6	
NUMBER IN TWO INCH CIRCLE =			7	
NUMBER IN THREE INCH CIRCLE =			9	

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6522331

DATE 9-4-90

TESTER JEL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.48	2.34	2.27	2.50	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.33	2.36	2.35	2.40	
PULL #3	2.45	2.31	2.19	2.46	
PULL #4	2.40	2.33	2.33	2.40	
PULL #5	2.39	2.28	2.38	2.48	
TOTAL	12.05	11.62	11.52	12.24	
AVG.	2.41	2.324	2.304	2.448	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.40	3.31		
PULL #2	3.13	3.21		
PULL #3	3.25	3.31		
PULL #4	3.24	3.27		
PULL #5	3.21	3.33		
TOTAL	16.23	16.43		
AVG.	3.246	3.286		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.45	4.28		4.39
PULL #2	4.39	4.37		4.03
PULL #3	4.34	4.28		4.11
PULL #4	4.38	4.29		4.07
PULL #5	4.28	4.27		4.23
TOTAL	21.84	21.49		20.83
AVG.	4.368	4.298		4.166

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6522331

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	6 29	90	RW
600	Proof	6 29	90	RW
607	Check Headspace	6 29	90	RW
610	Dis-assemble Gun	6 29	90	RW
612	Magnaflux Barrel Action		7-12-90	KR
	Magnaflux Bolt		7-12-90	KR
615	Rollmark Caliber		7-12-90	L.S.
617	Drill and Tap Sight Holes		7/13/90	LB
618	Polish Barrel RW		7/16/90	WB
620	Apply Coatings (Barrel Action)		7-23-90	TA
	Apply Coating (Bolt)			TA
625	Final Assembly A) Clean inside of Bolt Assembly		7/25/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		7/25/90	RW
	C) Inspect Ejector Hole for Chamfer		7/25/90	RW
	D) Oil Firing Pin Ass'y		7/25/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		9-4-90	JY

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			7/30/90	RL
	G) Safety Off Force	3	3	3			7/30/90	RL
	H) Trigger Pull Test & Retainability						9-11-90	RL
	I) Firing Pin Indent	.0235	.0235	.0235			7/30/90	RL
	J) Assemble Stock						8/7/90	RW
	K) Assemble Swivel Studs						9/5/90	RL
	L) Attach Front and Rear Sight Assemblies						8/7/90	RW
	M) Iron Sight Alignment						8/7/90	RW
	N) Detach Front & Rear Sights & place in numbered container						8/7/90	RW
	O) Attach Scope to Rifle						8/7/90	RW
	P) Detach & Attach Scope 20 Times						8/7/90	RW
640	Gallery Target & Test						8-8-90	A
	A) Time						"	A
	B) Malfunctions						"	A
	C) Pierced Primers						"	A
	D) Optical Clarity of Scope						"	A
645	Inspect for Live Ammo						8-8-90	A
655	Final Inspection							
	A) Headspace						9/5/90	RL
	B) Trigger Pull	2.50	2.40	2.46	2.40	2.48	9-4-90	RL
	C) Function						9/5/90	RL
660	Pack						9-11-90	RL

Arms Services Repair & Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help

Repair Inquiry

Repair Number: RE00133030

Serial: C6523331 Model M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 12/18/1990

Repairman:

Verify Repair

High Priority

Status:

Closed 8/22/2007 7:13:12 AM

Address Information

Customer:

Received From

Return To:

Received From

Name: TRANSPORTATION OFFICER

TRANSPORTATION OFFICER

Address 1: XR WOK8 USA ROCK ISL ARSENAL

XR WOK8 USA ROCK ISL ARSENAL

Address 2: BLDG 299 GILLESPIE AVE BECK

PO Box:

BLDG 299 GILLESPIE AVE BECK

PO Box:

City: ROCK ISLAND

ROCK ISLAND

State: IL

Zip Code: 61299

Country: US

State: IL

Zip Code: 61299

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone: NN

Fax:

Email:

Comments:

Received Condition

Fair

Condition
Notes:CSR
Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A057	Fit and Rear Sgt Base	1

Repair Search

Refresh

Close

naglelj

8/22/2007

7:54 AM

CAPS

NUM

INS

SCRL



Inbox - Micr...

Calendar - M...

FW: Restrict...

Arms Service...

7:54 AM

Serial Number: C6523331

Model: M24 SWS



RE00133030

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50 LBS (plus or minus 0.50 LBS)
3.00 LBS (plus or minus 0.75 LBS)
4.00 LBS (plus or minus 1.00 LBS)

DATE 11-5-07

TESTER TRW

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.26	2.35		2.09	
PULL #2	2.08	2.25		2.24	
PULL #3	2.17	2.25		2.25	
PULL #4	2.34	2.20		2.37	
PULL #5	2.13	2.33		2.34	
TOTAL	10.98	11.38		11.29	
AVERAGE	2.19	2.27		2.25	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.50	3.48		
PULL #2	3.38	3.44		
PULL #3	3.21	3.46		
PULL #4	3.47	3.34		
PULL #5	3.34	3.28		
TOTAL	16.90	17.00		
AVERAGE	3.38	3.40		

	4.00 LBS INITIAL	4.00 LBS AFTER 20 CYCLES	MAX SETTING GREATER THAN 4 LBS	RESET TO 4 LBS FOR TARGET & ACCURACY
PULL #1	4.13	4.36		3.98
PULL #2	4.16	4.26		4.12
PULL #3	4.17	4.36		4.13
PULL #4	4.22	4.28		4.16
PULL #5	4.20	4.25		4.15
TOTAL	20.88	21.51		20.54
AVERAGE	4.17	4.30		4.10

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6523331.___0
FILE DATE AND TIME: 11/30/2007 12:18

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.011
The Average Y Centroid of the Five Target Set:	-0.102
The Average Point of Impact of the Five Target Set:	0.103
The Average Mean Radius of the Five Target Set:	0.745
The Distance from POA to Centroid Target #1:	0.150
The Distance from Centroid Target #2 to Centroid Target #1:	0.066
The Distance from Centroid Target #3 to Centroid Target #1:	0.255
The Distance from Centroid Target #4 to Centroid Target #1:	0.139
The Distance from Centroid Target #5 to Centroid Target #1:	0.150

SERIAL NUMBER: C6523331. __0

TARGET NUMBER: 1

FILE DATE: 11/30/2007

FILE TIME: 12:18

POINT#	X	Y
1:	1.684	-0.001
2:	1.316	-0.116
3:	0.373	-0.652
4:	0.539	-0.451
5:	0.082	-0.222
6:	-0.232	-0.232
7:	-0.143	0.321
8:	-1.173	0.085
9:	-1.244	0.389
10:	-2.224	-0.221

X CENTROID: -0.102

Y CENTROID: -0.110

POA TO CENTROID: 0.150

HORZ SPREAD: 3.908

VERT SPREAD: 1.041

GROUP SPREAD: 3.914

MIN RADIUS: 0.178

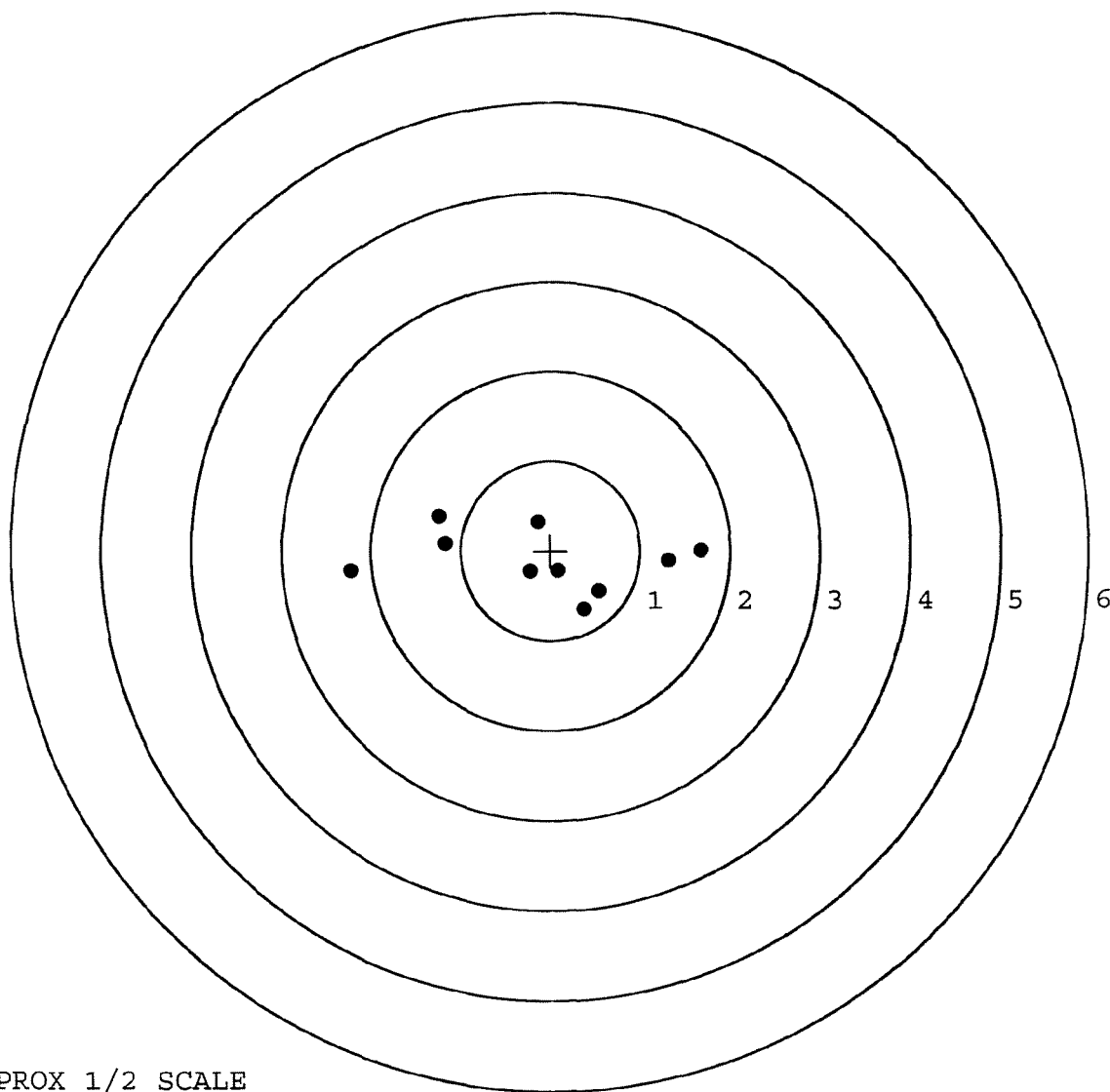
MAX RADIUS: 2.125

MEAN RADIUS: 0.994

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 8

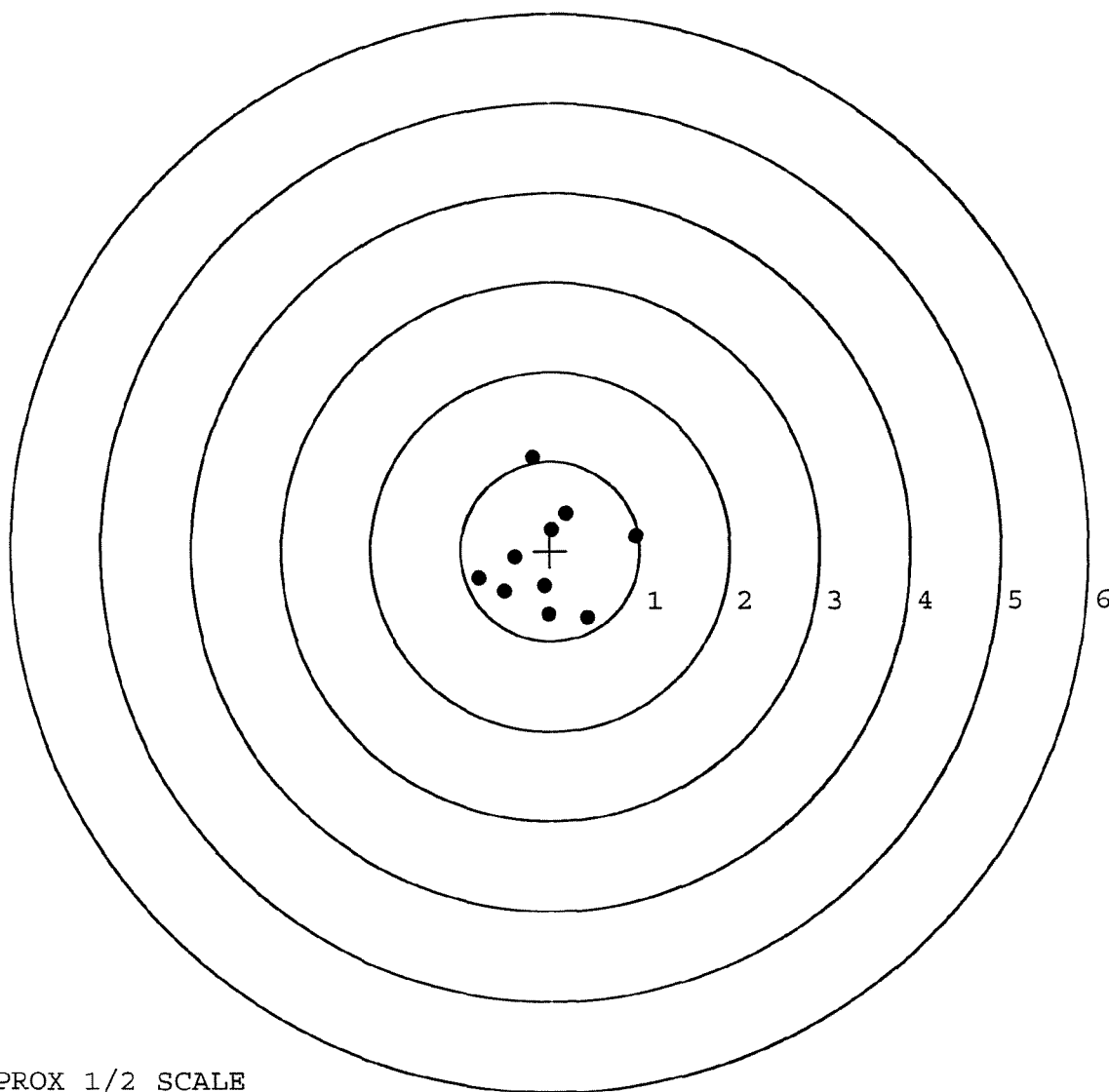


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523331. __0
TARGET NUMBER: 2
FILE DATE: 11/30/2007
FILE TIME: 12:18

X CENTROID: -0.044
Y CENTROID: -0.079
POA TO CENTROID: 0.090
HORZ SPREAD: 1.750
VERT SPREAD: 1.786
GROUP SPREAD: 1.886
MIN RADIUS: 0.309
MAX RADIUS: 1.133
MEAN RADIUS: 0.652
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.956	0.166
2:	0.179	0.419
3:	0.022	0.240
4:	-0.196	1.044
5:	0.410	-0.742
6:	-0.025	-0.711
7:	-0.073	-0.387
8:	-0.399	-0.069
9:	-0.518	-0.447
10:	-0.794	-0.304

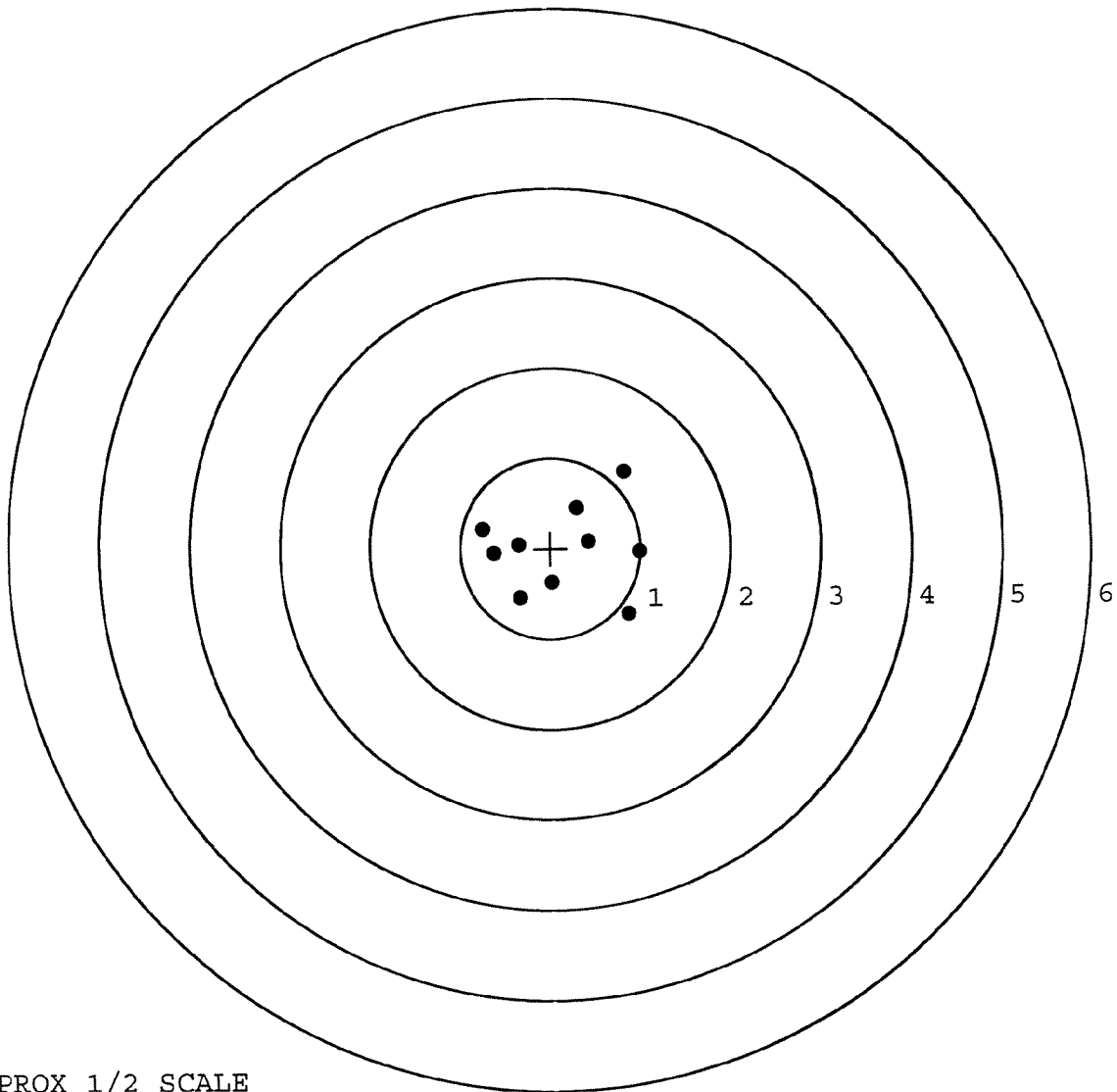


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523331. __0
TARGET NUMBER: 3
FILE DATE: 11/30/2007
FILE TIME: 12:18

X CENTROID: 0.134
Y CENTROID: -0.014
POA TO CENTROID: 0.135
HORZ SPREAD: 1.739
VERT SPREAD: 1.574
GROUP SPREAD: 1.821
MIN RADIUS: 0.302
MAX RADIUS: 1.103
MEAN RADIUS: 0.705
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.862	-0.729
2:	0.992	-0.043
3:	0.423	0.074
4:	0.296	0.445
5:	0.826	0.845
6:	0.019	-0.385
7:	-0.346	-0.549
8:	-0.358	0.045
9:	-0.747	0.215
10:	-0.629	-0.058

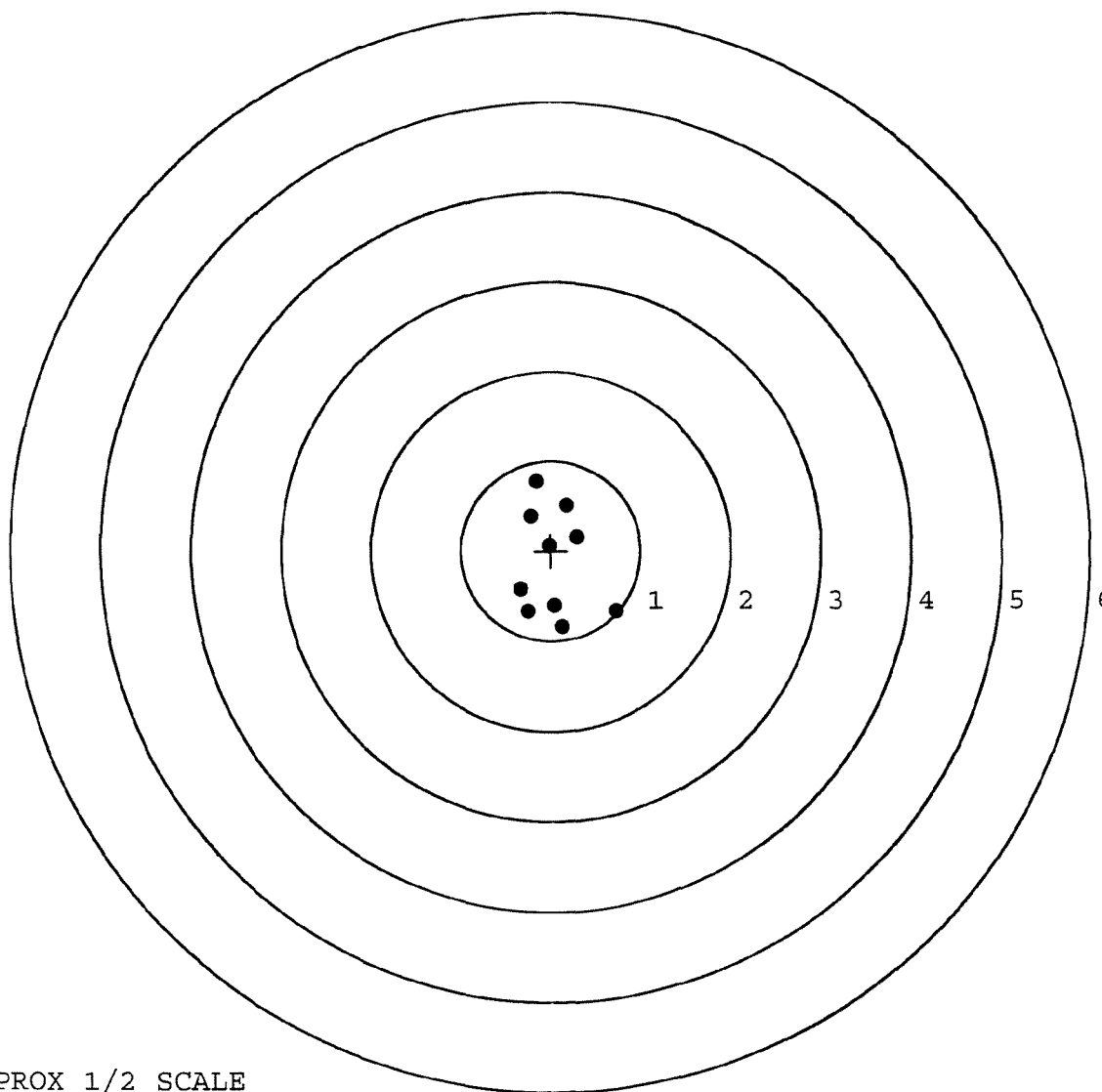


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523331. __0
TARGET NUMBER: 4
FILE DATE: 11/30/2007
FILE TIME: 12:18

X CENTROID: 0.034
Y CENTROID: -0.138
POA TO CENTROID: 0.142
HORZ SPREAD: 1.061
VERT SPREAD: 1.619
GROUP SPREAD: 1.693
MIN RADIUS: 0.200
MAX RADIUS: 0.930
MEAN RADIUS: 0.591
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.720	-0.673
2:	0.120	-0.847
3:	0.038	-0.616
4:	-0.262	-0.675
5:	-0.341	-0.433
6:	0.291	0.159
7:	-0.018	0.056
8:	0.177	0.500
9:	-0.162	0.772
10:	-0.227	0.381

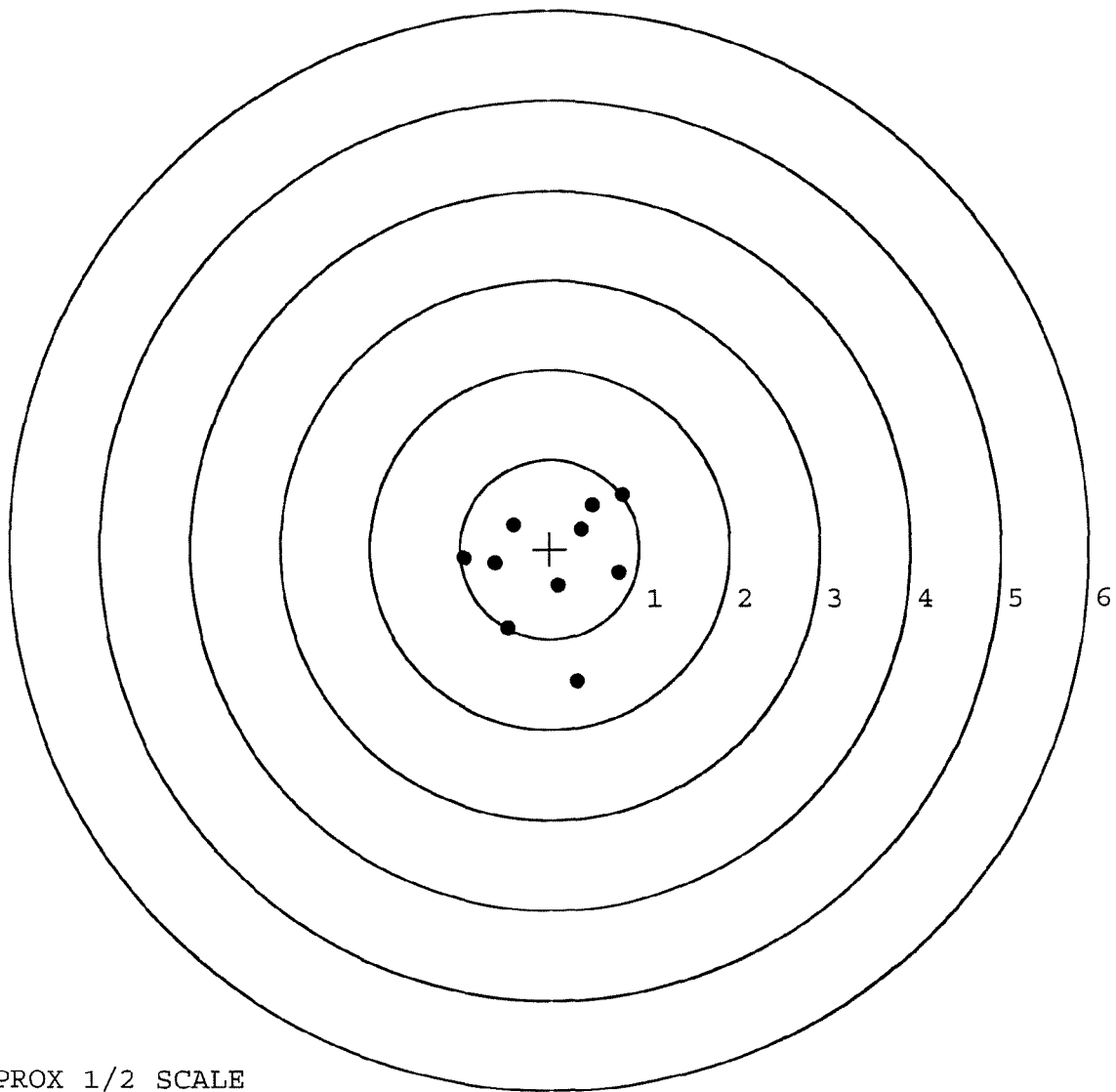


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523331. __0
TARGET NUMBER: 5
FILE DATE: 11/30/2007
FILE TIME: 12:18

POINT#	X	Y
1:	0.304	-1.472
2:	-0.477	-0.881
3:	0.091	-0.407
4:	0.771	-0.264
5:	0.349	0.222
6:	0.475	0.490
7:	0.807	0.604
8:	-0.408	0.267
9:	-0.608	-0.159
10:	-0.958	-0.103

X CENTROID: 0.035
Y CENTROID: -0.170
POA TO CENTROID: 0.174
HORZ SPREAD: 1.765
VERT SPREAD: 2.076
GROUP SPREAD: 2.136
MIN RADIUS: 0.243
MAX RADIUS: 1.329
MEAN RADIUS: 0.784
IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-C-0149

R & E NUMBER		133030	
SERIAL NUMBER		C6523331	
LOG-IN DATE		8-22-07	
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	11-6-07	RTC
505	RE-BARREL		
560	ASSEMBLE		
600	PROOF	11-7-07	TRW
605	CHECK HEADSPACE	11-7-07	TRW
610	DIS-ASSEMBLE GUN	11-08-07	TRW
612	MAGNAFLUX	11-14-07	JB
510	DRILL AND TAP	11-8-07	SD
615	ROLLMARK CALIBER	11-30-07	CW
618	ROTO-BLAST	11-14-07	TRW
620	APPLY COATINGS	11-29-07	TRW
625	FINAL ASSEMBLY	11-29-07	RTC
640	FUNCTION TEST AND	PASS FAIL 11-29-07	TRW
650	TARGET	PASS FAIL 11-29-07	TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	11-29-07	TRW
	A) HEADSPACE	PASS FAIL 11-30-07	RTC
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	225 226 224 213 2.18 11-30-07
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	5.50 5.50 5.75 11-30-07
	G) SAFETY OFF FORCE	2 LBS MIN	3.50 3.75 3.75 11-30-07
	I) FIRING PIN INDENT	.020	.022 .023 .021 11-30-07
690	PACK		11-30-07