

ccl-F5

REQUEST FOR DEVIATION/WAIVER (RFD/RFW)				1. DATE (YYMMDD) 010803		Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 2 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington, DC 20503.						2. PROCUREMENT ACTIVITY NUMBER L156139	
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/						3. DODAAC	
4. ORIGINATOR		b. ADDRESS (Street, City, State, Zip Code)			5. (X one)		
a. TYPED NAME (Print, Middle Initial, Last) General Dynamics Armament Systems		291 NORTH STREET SACO, ME 04072			<input type="checkbox"/> DEVIATION <input checked="" type="checkbox"/> WAIVER		
7. DESIGNATION FOR DEVIATION/WAIVER		8. BASELINE AFFECTED			6. (X one)		
a. MODEL/TYPE .50 CAL N.G.	b. CAGE CODE 26978	c. EYE DESIG. M2	d. DEV/WAIVER NO. 0075-W-0020	<input type="checkbox"/> FNC-TIONAL PRODUCT	<input type="checkbox"/> MAINT-CATED	<input checked="" type="checkbox"/> MAJOR <input type="checkbox"/> MINOR <input type="checkbox"/> CRITICAL	
10. TITLE OF DEVIATION/WAIVER Waive M2 Rear Sight Assemblies							
11. CONTRACT NO. AND LINE ITEM DAAE20-00-D-0075/0001 CLIN 0001				12. PROCUREMENT CONTRACTING OFFICER			
				a. NAME (Print, Middle Initial, Last) Kirsten Mendosa			
				b. CODE AMSTA-IC-CSCA			
				c. TELEPHONE 309-782-0243			
13. CONFIGURATION ITEM NOMENCLATURE .50 CAL N.G. M2				14. CLASSIFICATION OF DEFECT NO.			
				a. CD NO.	b. DEFECT NO.	c. DEFECT CLASSIFICATION	
						<input type="checkbox"/> MAJOR	<input type="checkbox"/> MAJOR
						<input type="checkbox"/> CRITICAL	
15. NAME OF LOWEST PART / ASSEMBLY AFFECTED Assembly, Rear Sight				16. PART NO. OR TYPE DESIGNATION 12003047			
17. EFFECTIVITY NA				18. RECURRING DEVIATION/WAIVER			
				<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
19. EFFECT ON COST/PRICE (\$0)				20. EFFECT ON DELIVERY SCHEDULE None if approved			
21. EFFECT ON INTEGRATED LOGISTICS SUPPORT, INTERFACE OR SOFTWARE None							
22. DESCRIPTION OF DEVIATION/WAIVER This waiver requests acceptance of 952 Rear Sight Assemblies where certifications to the required material specifications cannot be provided for some of the components. See the following table for the specific situation for each of the parts.							
23. NEED FOR DEVIATION/WAIVER The supplier of these components used material purchased for a previous sight contract which had different requirements than the current contract. See the attached write-up in Block 22 for a further description of the need for this waiver.							
24. CORRECTIVE ACTION TAKEN None recommended for this contract, this waiver is for the entire contract quantity.							
25. SUBMITTING ACTIVITY							
a. TYPED NAME (Print, Middle Initial, Last) Sterlin C. Clockedile		b. TITLE Configuration Manager		c. SIGNATURE <i>Sterlin C. Clockedile</i>			
26. APPROVAL / DISAPPROVAL				d. RECOMMENDATION		e. APPROVAL / DISAPPROVAL	
b. APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED				c. GOVERNMENT ACTIVITY			
d. TYPED NAME (Print, Middle Initial, Last)		e. SIGNATURE			f. DATE SIGNED (YYMMDD)		
e. APPROVAL <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		h. GOVERNMENT ACTIVITY TACOM-ARDEC, AMSTA-AR-CCL-F					
i. TYPED NAME (Print, Middle Initial, Last) Richard E. Eide		j. SIGNATURE <i>Richard E. Eide</i>			k. DATE SIGNED (YYMMDD) 20011019		
Chief, CCAC Prod & Field Spt Team							

STATEMENT C, GOV'T AND CONTRACTORS,
(ARDEC, AMSTA-AR-BSW, ROCK ISLAND, IL.)

19 SEP 2001
 19 SEP 2001
 19 SEP 2001

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Continuation Sheet

Block 22. Description of Deviation/Waiver (Cont'd)

M2 REAR SIGHT ASSEMBLY
PART NUMBER 12003047
GD&S ENCO P/N 1772

GOV'T P/N	DESCRIPTION	PROBLEMS FOUND	ACTION
12003048	REAR SIGHT BASE	Steel: spec ASTM A109-93 cert date -90	NOTE 1
12003049	WINDAGE SCREW BUSHING	Steel: Spec ASTM A331-95 cert to -81	NOTE 1
12003050	LEAF STOP	Steel: Spec ASTM A331-95 cert to -81	NOTE 1
6008809	WINDAGE SCREW KNOB	Steel: Spec ASTM A108-95 cert dated -90	NOTE 1
5013610	ELEV SCREW KNOB	Steel: Spec ASTM A108-95 cert dated -90	NOTE 1
12003249	LEAF	Steel: Spec ASTM A108-95 cert dated -73	NOTE 1
5163397	COMP SPRING	Steel: Spec ASTM A228-93 cert dated -86	NOTE 1
12003051	RISER	Steel: Spec ASTM A108-95 cert dated -90	NOTE 1
5013160	WINDAGE SCREW	Steel: Spec ASTM A108-95 cert dated -88	NOTE 1
5013167	WINDAGE SCALE SCREW	Steel: Spec ASTM A108-95 cert dated -88	NOTE 1
5013162	HEADLESS STRAIGHT PIN	Spec: W1 to ASTM A686 or 1095 to A576 Cert. to W1 and 1095 to ASTM A108	NOTE 2
5013185	WINDAGE CLICK FLUNGER	Spec: W1 to ASTM A686 or 1095 to A576 Cert. to W1 and 1095 to ASTM A108	NOTE 2
12003250	SLIDE	Casting to MIL-8-22141B: not listed on cert	NOTE 3
12003082	SPRING	Spec: ASTM A686, cert does not list spec	NOTE 4

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Continuation Sheet

Block 22. Description of Deviation/Waiver (Cont'd)

NOTE 1: ASTM Specification revision dates.
Part Numbers: 12003048, 12003049, 12003050, 5013610, 12003249,
5163397, 12003051, 6008809, 5013160, and 5013167.

For each of the listed parts, we have a situation where the part was produced from the correct ASTM steel but either the date on the certification or the revision level of the ASTM specification does not match the revision level asked for by the TDPL. The steel is not in question, but the date on the certification is. From past reviews of ASTM specification, I have determined that there is no significant difference between revision levels. This is especially true for carbon and low alloy steel chemistries. Unfortunately, in this case, I do not have copies of the specific documents and cannot make a revision to revision review. In these cases, the parts are made from the steel specified, but we cannot certify this steel to the ASTM specification revision required.

NOTE 2: Wrong ASTM Specification listed on certification.
Part numbers: 5013162 and 5013155.

These two parts are made from the same heat of steel. The print requirement for this steel is W1 per ASTM A686 or 1095 per ASTM A576. The original certification from Burgon Tool Steel shows the Grade as W1 Drill Rod to ASTM A108. The original purchaser of this steel (F. C. Phillips) had the steel tested by an independent testing laboratory that certified the steel to AISI 1095. Unfortunately, they did not certify the steel to either ASTM specification on the print.

We have the following situation:

1. The steel is certified to W1 and 1095, both of which are listed on the print.
2. The steel is certified to ASTM A 108 (Cold Finished Carbon Steel Bars), which is not on the print.
3. The steel is not certified to ASTM A686 (Tool Steel, Carbon) or A576 (Hot Finished Carbon Steel Bars).

Both ASTM A108 and A576 are for Carbon Steel Bar. Both meet the requirements of ASTM A29 (General Requirements for Steel Bars...). The only significant difference between A108 and A576 is the finishing method. Cold versus Hot. After machining and heat treating, it would be impossible to tell the difference between the two steels. We have a situation where parts are made from the steel chemistry specified, but the certification does not match the print exactly in the ASTM callout.

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Continuation Sheet

Block 22, Description of Deviation/Waiver (Cont'd)

NOTE 3: Casting certification.
Part Number: 12003250.

The print calls for the casting to be made in accordance with MIL-S-22141; the certification does not reference this specification. A review of the chemical analysis of the heat shows it meets the chemical requirements of the specification.

NOTE 4: ASTM Specification not listed.
Part Number: 12003052.

The print calls for 1050 to 1074 steel per ASTM A684 (Cold Rolled High Carbon Steel Strip). The certification for this part is for 1074 cold rolled spring steel, but does not include a reference to the ASTM specification. The chemistry and rolling requirements of the steel meets the specification. In addition, the heat treatment of the parts produced the hardness within the required limits. The deficiency with the parts is the lack of the ASTM designation on the certification.

FAK NOTE: To Jim Pez
FAX # (309)782-6339
TEL # (309)782-8159

9/24/01

Jim, For your request to R. Durice, the following is a list of the materials used in the parts of the rear sight assembly addressed in our request for waiver 0075-W-0020.

FROM:
 Starlin Clockedile
 GENERAL DYNAMICS ARMAMENT SYSTEMS
 SACO OPERATIONS
 SACO, MAINE
 TEL # (307)284-3172

SUBJECT: M2 REAR SIGHT ASSEMBLY: PN 12003047

SOFT P/N	DESCRIPTION	PERT MATERIALS	ACTUAL MATERIAL ON CHRT	SCALE P/N
12003048	REAR MOUNT BASE	Steel: ASTM A108-99 Temper 4 or 5	A108-99 temper 4 or 5, or A811010	1774
12003049	WINDAGE SCREW BUSHING	Steel: 4140, 4150 to ASTM A331-95	4140/42 to ASTM A331-91	1775
12003050	LEAF STOP	Steel: 4140, 4150 to ASTM A331-95	4140/42 to ASTM A331-91	1777
600809	WINDAGE SCREW KNOB	Steel: 1018 thru 1022, 1117, 1118, ASTM A108-95	1018 to ASTM A 108-90	1778
5013610	ELEV SCREW KNOB	Steel: 1117, 1118 ASTM A108-95	1117 to ASTM A108-90	1780
12003049	LEAF	Steel: 1018 thru 1022 ASTM A108-95	1018 to ASTM A108-95	1781
5013162	HEADLESS STRAIGHT PIN	Spec: W1 to ASTM A486 or 1095 to A576	W1 & 1095 to ASTM A108	1783
12003050	SLIDE	Coating IC8620 to MIL-S-22141B	Coating IC8620	1787
5168997	COAMP SPRING	Steel: ASTM A228-93	ASTM A228-95	1788
6013155	WINDAGE CLACK FLUNGER	Spec: W1 to ASTM A486 or 1095 to A576	W1 & 1095 to ASTM A108	1790
12003051	PIVOT	Steel: 1018 thru 1040 ASTM A108-95	1018 to ASTM A 108-90	1791
5013160	WINDAGE SCREW	Steel: 1117-1118 ASTM A108-95	1117 to ASTM A108-95	1794
5013167	WINDAGE SCALE SCREW	Steel: 1117-1118 ASTM A108-95	1117 to ASTM A108-95	1795
12003082	SPRING	Spec: 1080-1074 to ASTM A484	1074	1797



PRECISION CASTINGS OF TENNESSEE, INC.

P. O. BOX 8088 • GALLATIN, TENN. 37088
FACTORY ADDRESS: 420 CALVERT DRIVE, GALLATIN, TENN. 37088
PHONE (615) 451-8080
FAX (615) 451-8081

Customer LIGHTHOUSE MFG. CO., INC.
2 CENTENNIAL DRIVE
PEABODY, MA 01968

Date APRIL 14, 1994
PCT No. 8884
Quantity 110
Packing Sng No. 21832
Customer Order No. 4310
Part No. 1899964
Heat No. 35120

Alloy Specification 8088

CHEMICAL ANALYSIS

C	Mn	P	S	Ni	Cr	Mg	Al	Fe	Si	Mo	Cu	Ti	Al	Si	V	Cu	Zn	Mg	Zr	Al
.23	.65	.02	.01	.70	.00	.22	BASE													

MECHANICAL PROPERTIES

LOT NO.	YIELD STRENGTH LB/50 IN	TENSILE STRENGTH LB/50 IN	ELONG % IN 2 IN	HARDNESS	REDUCT ON OF AREA % PERCENT

Heat Treatment ANNEAL
X-Ray PER MIL-STD 2175 CLASS 2 GRADE C AND ACCEPTED
Permeability N/A PER MIL-STD 2175 CLASS 2 GRADE C AND ACCEPTED
Surface Finish _____
Other REPORTS AND X-RAY FILM ENCLOSED WITH SHIPMENT

We hereby certify to the chemical analysis and mechanical properties reported herewith and to the fact that they were determined in conformance with the specifications.

Done in and subscribed before me this 14TH day of APRIL 1994

Precision Castings of Tennessee, Inc.

Donald F. Obariski
DONALD F. OBARISKI
QUALITY ASSURANCE DIRECTOR

PRECISION INVESTMENT CASTINGS

CASTING NO. 10

FORM NO. 32-21-74



CERTIFICATE OF ANALYSIS

Borgon Tool Steel Co. Inc.

700 Main St. - Box 1910 - Hampton, New Hampshire 03843-0191

Customer's No.	Order No.	Date
R-7651	83049	2/25/84

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O

F. C. Phillips Machine Co.
671 Washington St.
Stoughton, MA. 02072

Item No.	SIZE	GRADE
1.	3/16" Dia. x 12 ft.	BTM-A-104 Drill Rod

#	Heat	Qty	Car	Mang	Phos	Sul	Si	NI	Co	Mo	V	PB	Co	U
1.	51382	60 bars	1.03	.35	.009	.011	.22							

Class from 5/15/84



TOOL STEEL SPECIALISTS

FREIGHTON STEEL WAREHOUSE No. 2781530
 ORDER DATE: 01/22/91 QUANTITY: 28877.36 WEIGHT: 8793.123 DATE: 03/11/91

TO: I D MACHINE INC
 FROM: F.W. S...
 ADDRESS: 118 BROADWAY
 CITY: MALDEN
 TRUCK
 SHIPMENT: 7815

QTY	QUANTITY	PRICE	UNIT	TYPE OF MATERIAL	TEMPER	THICKNESS	WIDTH	LENGTH
9000	PCS			CR SPC STEEL 1074	ANNEALED	.0350	.8750	46.0
	382							

NOTE: QUANTITY - LBS IS QUANTITY ORDERED, NOT NECESSARILY SHIPPED.
 COIL NO. 7207101

QTY	QUANTITY	PRICE	UNIT	TYPE OF MATERIAL	TEMPER	THICKNESS	WIDTH	LENGTH
	LBS							

QTY	QUANTITY	PRICE	UNIT	TYPE OF MATERIAL	TEMPER	THICKNESS	WIDTH	LENGTH
	LBS							

Certification

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
 DATE 05-14-93 BY 60321

Signature: *[Handwritten Signature]*



477345 10/17/01
 .75C .61W .010P .0095 .265
 10/17/01