

# UNAPPROVED PARTS NOTIFICATION

Aircraft Certification Service



**FAA**  
Aviation Safety

No.: 2010 - 20091006001

Date: May 18, 2010

<http://www.faa.gov/aircraft/safety/programs/sups/upn>

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## **AFFECTED PRODUCTS:**

See attached list with parts sold by Aero Fab Sales of Yorba Linda, CA between 2006 and present.

## **PURPOSE:**

This notification advises all aircraft owners, operators, manufacturers, maintenance organizations, and parts suppliers and distributors regarding parts sold without Federal Aviation Administration (FAA) production approval.

## **BACKGROUND:**

Information received during an FAA Suspected Unapproved Parts (SUP) investigation revealed that between 2006 and present, Aero-Fab Sales, 3940 Prospect Avenue, Unit E, Yorba Linda, CA 92886, sold unapproved aircraft parts. Further, Aero-Fab Sales is not an FAA Production Approval Holder.

Aero-Fab Sales sold unapproved parts from surplus inventory acquired from the former Aero-Fab, Incorporated. The former Aero-Fab, Inc. held FAA Parts Manufacturer Approval from 1993 to 2000, for nine part numbers.

## **RECOMMENDATIONS:**

Regulations require that type-certificated products conform to their type design. Aircraft owners, operators, maintenance organizations, and parts suppliers and distributors are encouraged to inspect their aircraft and/or aircraft parts inventory for the attached list of part numbers purchased from Aero-Fab Sales. This list contains only the known unapproved surplus inventory from Aero-Fab, Inc. If these parts are found in existing inventory, it is recommended that they be quarantined to prevent installation until a determination can be made regarding their eligibility for installation.

## **FURTHER INFORMATION**

You can obtain further information concerning this investigation from the FAA Manufacturing Inspection District Office (MIDO) given below. In addition to the above recommendations, the FAA would appreciate any information concerning the discovery of the referenced parts from any source, the means used to identify the source, and the actions taken to remove the parts from aircraft and/or parts inventories.

This notice originated from the FAA Los Angeles MIDO, 3960 Paramount Blvd., Lakewood, CA, telephone (562) 627-5297.

**AFFECTED PARTS LISTING**

<b>Customer Part Number</b>	<b>Nomenclature</b>	<b>Revision</b>	<b>Application</b>	<b>Made for customer</b>	<b>Comment</b>
BDH3676	Bushing	Basic		American Airlines	
BDH4032	Plate	Basic		American Airlines	
CBB5028-1	Insert	Basic		American Airlines	
CBE1296-5	Liner	B		American Airlines	
CBE1297-5	Liner	B		American Airlines	
CBE1298-5	Liner	B		American Airlines	
CDK1410-1	Seal	C		American Airlines	
CDK2098-3	Shaft	B		American Airlines	
CDK2100-501	Clip Assy	C		American Airlines	
CDK2100-502	Clip Assy	C		American Airlines	
CDK2120-1	Pin	Basic		American Airlines	
CDK2138-503	Washer Assy	A		American Airlines	
CDK2143-1	Spring	Basic		American Airlines	
CDK2206-1	Stud	B		American Airlines	
CDK2257-1	Stop	Basic		American Airlines	
CDK2262-1	Clevis	Basic		American Airlines	
CDK2277-1	Bearing Assy	Basic		American Airlines	
CDK2479-501	Plunger Assy	B		American Airlines	
CDK2583-1	Bushing	Basic		American Airlines	
CDK2590-1	Plug	B		American Airlines	
CDK2590-3	Plate	B		American Airlines	
CDK2633-1	Rivet	Basic		American Airlines	
CDK2863-505	Fitting Assy	C		American Airlines	
CDK3144-1	Spacer, MLG	B		American Airlines	
CFA1377-1	Bushing	A		American Airlines	
CFA1573-1	Bushing, Eccentric	N/C		American Airlines	
CGA1062-3	Lever	A		American Airlines	
CGA1104-13	Bushing	A		American Airlines	
CGA1104-15	Bushing	A		American Airlines	
CGA1104-9	Bushing	A		American Airlines	
CGA1108-3	Retainer	B		American Airlines	
CGA1158-1	Bushing	A		American Airlines	
CGA1226-1	Bolt	Basic		American Airlines	
CGA1243-3	Bolt	A		American Airlines	
CGA1262-1	Handle	B		American Airlines	
CGA1266-1	Plate	Basic		American Airlines	
CGA1275-15	Pin	G		American Airlines	
CGA1275-17	Pin	G		American Airlines	
CGA1275-21	Pin	G		American Airlines	
CGA1275-23	Pin	G		American Airlines	
CGA1275-9	Pin	G		American Airlines	
CGA1346-1	Hinge	B		American Airlines	
CGA1409-1	Bushing	A		American Airlines	
CGA1409-3	Bushing	A		American Airlines	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
CGA1409-5	Bushing	A		American Airlines	
CGA1409-7	Bushing	A		American Airlines	
CGA1645-503	Nut Assy	A		American Airlines	
CTY1950-1	Shaft	A		American Airlines	
CTY1951-1	Bushing	Basic		American Airlines	
CTY2062-1	Shaft-Capstan	A		American Airlines	
DBD1849-501	Link Assy	Basic		American Airlines	
DBE1109-1	Counter Top	C		American Airlines	
DBE1110-3	Counter Top	B		American Airlines	
DBE1111-1	Counter Top	C		American Airlines	
DDK2083-501	Hook Assy	B		American Airlines	
DDK2261-1	Fitting	B		American Airlines	
<b>DDK2555-1</b>	<b>Holder</b>	Basic	DC-9-82	American Airlines	<b>Sold as P&amp;W P/N 802680</b>
DDK2639-1	Bolt	B		American Airlines	
DFA1279-5	Cover	B		American Airlines	
DFA1279-6	Cover	B		American Airlines	
DFA1381-1	Bushing	A		American Airlines	
DFA1381-13	Bushing	A		American Airlines	
DFA1381-17	Bushing	A		American Airlines	
DFA1381-5	Bushing	A		American Airlines	
DFA1381-7	Bushing	A		American Airlines	
DGA1247-2	Handle	A		American Airlines	
DGA1403-1	Bushing	C		American Airlines	
DGA1403-11	Bushing	B		American Airlines	
DGA1403-3	Bushing	C		American Airlines	
DGA1403-5	Bushing	C		American Airlines	
DGA1403-7	Bushing	C		American Airlines	
DGA1403-9	Bushing	C		American Airlines	
DGA1482-1				American Airlines	
DTY1809-3	Seal	A		American Airlines	
DTY2010-1	Support	A		American Airlines	
EDK2384-1	Support Casting	D		American Airlines	
EDK2384-501	Support Assy	D		American Airlines	
FBB5011-1	Seat Track	Basic		American Airlines	
FBB5011-2	Seat Track	Basic		American Airlines	
FDK1945-501	Bushing Assy	A		American Airlines	
FDK1945-503	Bushing Assy	A		American Airlines	
FDK1945-505	Bushing Assy	A		American Airlines	
FDK1945-507	Bushing Assy	A		American Airlines	
FDK1945-509	Bushing Assy	A		American Airlines	
FDK1945-511	Bushing Assy	A		American Airlines	
FDK1945-515	Bushing Assy	A		American Airlines	
FDK1945-519	Bushing Assy	A		American Airlines	
FDK1945-521	Bushing Assy	A		American Airlines	
FDK1945-523	Bushing Assy	A		American Airlines	
FDK2340-503	Bushing Assy	A		American Airlines	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
FDK2340-505	Bushing Assy	A		American Airlines	
FDK2340-509	Bushing Assy	A		American Airlines	
FDK2340-511	Bushing Assy	A		American Airlines	
FDK2340-513	Bushing Assy	A		American Airlines	
FDK2340-515	Bushing Assy	A		American Airlines	
FDK2340-521	Bushing Assy	A		American Airlines	
FDK2340-519	Bushing Assy	A		American Airlines	
FDK2340-523	Bushing Assy	A		American Airlines	
FDM1070-5	Counter Top	A		American Airlines	
CBE1297-5	Liners	B		American Airlines	
CDK2079-1	Angle	N/C		American Airlines	
CDK2079-7	Boss	N/C		American Airlines	
CDK2084-1	Link	D		American Airlines	
CDK2100-3	Spacers			American Airlines	
CDK2127-1	Tire	A		American Airlines	
CDK2128-1	Roller	B		American Airlines	
CDK2128-3	Bushing	B		American Airlines	
CDK2138-3	Washer	A		American Airlines	
CDK2138-5	Washer	A		American Airlines	
CDK2354-501	Crank Assy			American Airlines	
CDK2415-1	Cover	D		American Airlines	
CDK2479-1	Plunger			American Airlines	
CDK3054-3	Key	N/C		American Airlines	
CDK3076-3	Seal			American Airlines	
CGA1275-17	Pin	G		American Airlines	
CTY2062-1	Capstank Shaft	N/C		American Airlines	
DDK2083-3	Hook			American Airlines	
DDK2497-1	Pin	A		American Airlines	
DDK2497-3	Bushing	A		American Airlines	
DDK2521-1	Tube			American Airlines	
DGA1403-11	Bushing	B		American Airlines	
DGA1403-5	Bushing			American Airlines	
DGA1480-?	Cap			American Airlines	
FDK2340-35	Bushing			American Airlines	
DDK2497-5	Block	A		American Airlines	
EGA1651-1	Lever	N/C		American Airlines	
EGA1651-3	Lever	N/C		American Airlines	
EGA1651-7	Bushing	N/C		American Airlines	
EGA1651-5	Bushing	N/C		American Airlines	
DGA1247-1	Handle	A		American Airlines	
2704322	End		DC-8	McDonnell Douglas	
2719890	Sleeve		DC-8	McDonnell Douglas	
2719908	Nut		DC-8	McDonnell Douglas	
2751158-501	Bushing		DC-8	McDonnell Douglas	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
2901037-1	Cross tie		DC-9	McDonnell Douglas	
2901037-3	Cross tie		DC-9	McDonnell Douglas	
2913953-1	Clip		DC-9	McDonnell Douglas	
2917917-1	Spacer		DC-9	McDonnell Douglas	
2920033-1	Plate		DC-9	McDonnell Douglas	
2923122-1	Stop		DC-9	McDonnell Douglas	
2923149-3	Plug		DC-9	McDonnell Douglas	
2923149-5	Retainer		DC-9	McDonnell Douglas	
2924464-1	Pin		DC-9	McDonnell Douglas	
2924464-501	Pin		DC-9	McDonnell Douglas	
2925622-1	Ring		DC-9	McDonnell Douglas	
2927135-501	Race		DC-9	McDonnell Douglas	
2934601-1	Washer		DC-9	McDonnell Douglas	
2934604-1	Washer		DC-9	McDonnell Douglas	
2938361-3	Washer		DC-9	McDonnell Douglas	
2958987-1	Bracket		DC-9	McDonnell Douglas	
2959055-1	Washer Assy		DC-9	McDonnell Douglas	
2959085-501	Adapter		DC-9	McDonnell Douglas	
3777925-5	Retainer		DC-8	McDonnell Douglas	
3915964-503	Sprocket		DC-9	McDonnell Douglas	
3923159-505	Arm		DC-9	McDonnell Douglas	
3926905-3	Bushing		DC-9	McDonnell Douglas	
3926905-5	Bushing		DC-9	McDonnell Douglas	
3938321-501	Bracket		DC-9	McDonnell Douglas	
3938346-1	Bracket Assy		DC-9	McDonnell Douglas	
3938347-1	Bracket Assy		DC-9	McDonnell Douglas	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
3938348-1	Bracket Assy		DC-9	McDonnell Douglas	
3938369-1	Bracket		DC-9	McDonnell Douglas	
3954877-1	Nut		DC-9	McDonnell Douglas	
3958417-1	Pin		DC-9	McDonnell Douglas	
3958572-1	Bracket Assy		DC-9	McDonnell Douglas	
3958806-13	Angle		DC-9	McDonnell Douglas	
3958806-15	Hinge		DC-9	McDonnell Douglas	
3959084-1	Clamp		DC-9	McDonnell Douglas	
4641948	Bushing		DC-8	McDonnell Douglas	
4657911-1	Clevis		DC-8	McDonnell Douglas	
4657911-503	Clevis		DC-8	McDonnell Douglas	
4914493-501	Pulley Assy		DC-9	McDonnell Douglas	
4914877-1	Knob		DC-9	McDonnell Douglas	
4915788-1	Bracket		DC-9	McDonnell Douglas	
4915928-1	Locks		DC-9	McDonnell Douglas	
4916690-509	Knob		DC-9	McDonnell Douglas	
4917580-2	Link		DC-9	McDonnell Douglas	
4917580-3	Link		DC-9	McDonnell Douglas	
4917580-4	Link		DC-9	McDonnell Douglas	
4917580-5	Link		DC-9	McDonnell Douglas	
4919429-1	Bushing		DC-9	McDonnell Douglas	
4925388-1	Bushing		DC-9	McDonnell Douglas	
4926658-501	Retainer		DC-9	McDonnell Douglas	
4926696-501	Retainer		DC-9	McDonnell Douglas	
4926719-3	Support		DC-9	McDonnell Douglas	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
4928165-1	Pin		DC-9	McDonnell Douglas	
4929632-1	Spacer		DC-9	McDonnell Douglas	
4935371-1	Washer		DC-9	McDonnell Douglas	
4937049-1	Pin		DC-9	McDonnell Douglas	
4938149-503	Bumper		DC-9	McDonnell Douglas	
4938185-501	Link		DC-9	McDonnell Douglas	
4938313-1	Clip Assy		DC-9	McDonnell Douglas	
4938364-1	Bracket		DC-9	McDonnell Douglas	
4955702-1	Retainer		DC-9	McDonnell Douglas	
4956769-5	Insert		DC-9	McDonnell Douglas	
4957267-1	Seal Assy		DC-9	McDonnell Douglas	
4957267-3	Disc Assy		DC-9	McDonnell Douglas	
4958378-501	Washer		DC-9	McDonnell Douglas	
4958469-1	Pin		DC-9	McDonnell Douglas	
4958492-501	Screws		DC-9	McDonnell Douglas	
4958502-9	Bracket Assy		DC-9	McDonnell Douglas	
4959021-3-1	Bracket		DC-9	McDonnell Douglas	
4962160-1	Slugs		DC-9	McDonnell Douglas	
5616309-45	Rubstrip		DC-8	McDonnell Douglas	
5643321-137	Seal		DC-8	McDonnell Douglas	
5643321-145	Seal		DC-8	McDonnell Douglas	
5757543-33	Cover		DC-8	McDonnell Douglas	
5910294-19	Plate		DC-9	McDonnell Douglas	
5912425-2	Insert		DC-9	McDonnell Douglas	
5918135-6	Retainer		DC-9	McDonnell Douglas	
5918135-7	Retainer		DC-9	McDonnell Douglas	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
5922532-29	Seal		DC-9	McDonnell Douglas	
5922532-30	Seal		DC-9	McDonnell Douglas	
5922535-35	Bumper		DC-9	McDonnell Douglas	
5924030-311N	Strip		DC-9	McDonnell Douglas	
5930642-3	Bracket Assy		DC-9	McDonnell Douglas	
5937422-24	Seal		DC-9	McDonnell Douglas	
5938303-27	Tee		DC-9	McDonnell Douglas	
5938303-29	Angle Assy		DC-9	McDonnell Douglas	
5938329-3	Bracket		DC-9	McDonnell Douglas	
5938329-4	Bracket		DC-9	McDonnell Douglas	
5938345-1	Bracket Assy		DC-9	McDonnell Douglas	
5938345-501	Bracket Assy		DC-9	McDonnell Douglas	
5938345-502	Bracket		DC-9	McDonnell Douglas	
5938357-27	Support		DC-9	McDonnell Douglas	
5938357-35	Bracket		DC-9	McDonnell Douglas	
5938357-503	Bracket		DC-9	McDonnell Douglas	
5938357-509	Support		DC-9	McDonnell Douglas	
5938357-535	Bracket		DC-9	McDonnell Douglas	
5938357-547	Bracket		DC-9	McDonnell Douglas	
5938357-569	Bracket Assy		DC-9	McDonnell Douglas	
5938357-575	Bracket		DC-9	McDonnell Douglas	
5938357-576	Heat Shield		DC-9	McDonnell Douglas	
5938357-579	Bracket		DC-9	McDonnell Douglas	
5938357-585	Bracket		DC-9	McDonnell Douglas	
5938357-593	Bracket		DC-9	McDonnell Douglas	
5956574-301	Spring		DC-9	McDonnell Douglas	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
5956574-35	Track		DC-9	McDonnell Douglas	
5958561-1	Bracket Assy		DC-9	McDonnell Douglas	
5958561-501	Bracket Assy		DC-9	McDonnell Douglas	
5958561-509	Bracket Assy		DC-9	McDonnell Douglas	
5958665-14	Bracket		DC-9	McDonnell Douglas	
5958665-43	Seal		DC-9	McDonnell Douglas	
5958665-44	Seal		DC-9	McDonnell Douglas	
5958666-22	Retainer		DC-9	McDonnell Douglas	
5958666-8	Bracket		DC-9	McDonnell Douglas	
5958895-3	Orifice		DC-9	McDonnell Douglas	
7924545-507	Seal		DC-9	McDonnell Douglas	
7924545-513	Seal		DC-9	McDonnell Douglas	
9911580-5N	Tee		DC-9	McDonnell Douglas	
9911587-18	Hinge Half		DC-9	McDonnell Douglas	
ABA7301-1	Insert		DC-10	McDonnell Douglas	
ABA7301-2	Insert		DC-10	McDonnell Douglas	
ACG7081-5	Bushing		DC-10	McDonnell Douglas	
ACG7096-501	Bushing		DC-10	McDonnell Douglas	
AJC7447-1	Spring		DC-10	McDonnell Douglas	
ANB7216-75	Retainer		DC-10	McDonnell Douglas	
ARB1238-7	Retainer		DC-10	McDonnell Douglas	
ARC2499-11	Stop		DC-10	McDonnell Douglas	
ASG0037-1	Bracket		DC-10	McDonnell Douglas	
ASG0047-501	Bracket		DC-10	McDonnell Douglas	
ASG0047-503	Bracket		DC-10	McDonnell Douglas	
ASG0523-1	Bracket		DC-10	McDonnell Douglas	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
ASH0022-3	Bracket		DC-10	McDonnell Douglas	
ASH0023-501	Bracket		DC-10	McDonnell Douglas	
ASL0043-19	Tube		DC-10	McDonnell Douglas	
ASL0049-9N	Tube		DC-10	McDonnell Douglas	
ASL0063-501	Pin		DC-10	McDonnell Douglas	
ASL0066-1	Pin		DC-10	McDonnell Douglas	
ASL0076-501	Strut		DC-10	McDonnell Douglas	
ASL0077-3	Bracket		DC-10	McDonnell Douglas	
ASL0089-1	Retainer		DC-10	McDonnell Douglas	
ASL0096-15	Hinge		DC-10	McDonnell Douglas	
ASL0102-1	Bracket		DC-10	McDonnell Douglas	
ASL0160-503	Retainer		DC-10	McDonnell Douglas	
ASL0170-507	Bracket Assy		DC-10	McDonnell Douglas	
ASL0178-503	Bracket		DC-10	McDonnell Douglas	
ASL0195-1	Guide		DC-10	McDonnell Douglas	
ASL0225-1	Clip Assy		DC-10	McDonnell Douglas	
ASL0231-1	Connector		DC-10	McDonnell Douglas	
ASL0266-1	Strut		DC-10	McDonnell Douglas	
ASL0291-2	Bracket		DC-10	McDonnell Douglas	
ASL0315-503	Bolt		DC-10	McDonnell Douglas	
ASL0315-505	Pin		DC-10	McDonnell Douglas	
ASL0324-3	Cover		DC-10	McDonnell Douglas	
ASL0324-501	Tube Assy		DC-10	McDonnell Douglas	
ASL0325-11	Spacer		DC-10	McDonnell Douglas	
ASL0325-13	Flange		DC-10	McDonnell Douglas	
ASI0325-501	Tube Assy		DC-10	McDonnell Douglas	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
ASL0325-7	Cover		DC-10	McDonnell Douglas	
ASL0333-1	Connector		DC-10	McDonnell Douglas	
ASL0340-1	Bracket		DC-10	McDonnell Douglas	
ASL0351-1	Bracket		DC-10	McDonnell Douglas	
ASL0355-1	Bracket		DC-10	McDonnell Douglas	
ASL0369-2	Plate		DC-10	McDonnell Douglas	
ASL0382-3	Washer		DC-10	McDonnell Douglas	
ASL0384-1	Clip		DC-10	McDonnell Douglas	
ASL0385-2	Bracket Assy		DC-10	McDonnell Douglas	
ASL0570-1	Bracket		DC-10	McDonnell Douglas	
ASL0570-501	Washer		DC-10	McDonnell Douglas	
ASL0570-7	Washer		DC-10	McDonnell Douglas	
ASL0578-1	Bracket Assy		DC-10	McDonnell Douglas	
ASL0579-501	Bracket Assy		DC-10	McDonnell Douglas	
ASM0044-1	Seal		DC-10	McDonnell Douglas	
ASN0018-501	Bracket		DC-10	McDonnell Douglas	
ASN0025-1	Clip		DC-10	McDonnell Douglas	
ASN0073-2	Bracket		DC-10	McDonnell Douglas	
ASN0074-3	Bracket		DC-10	McDonnell Douglas	
ASN0077-3	Bracket		DC-10	McDonnell Douglas	
ASN0088-1	Bracket		DC-10	McDonnell Douglas	
ASN0108-1	Bracket		DC-10	McDonnell Douglas	
ASN0110-501	Bracket		DC-10	McDonnell Douglas	
ASN0114-501	Bracket		DC-10	McDonnell Douglas	
ASN0507-1	Bracket		DC-10	McDonnell Douglas	
ASN0517-1	Bracket		DC-10	McDonnell Douglas	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
ASN0528-1	Bracket		DC-10	McDonnell Douglas	
ASP0007-1	Bracket Assy		DC-10	McDonnell Douglas	
ASP0012-9	Clamp		DC-10	McDonnell Douglas	
ASP0032-1	Spacer		DC-10	McDonnell Douglas	
ASP0507-1	Bracket Assy		DC-10	McDonnell Douglas	
ATL0008-21	Seal		DC-10	McDonnell Douglas	
ATL0008-22	Strip		DC-10	McDonnell Douglas	
ATL0008-7	Seal		DC-10	McDonnell Douglas	
ATL0043-501	Plate		DC-10	McDonnell Douglas	
AWE7322-1	Turn Buckle		DC-10	McDonnell Douglas	
AWJ7068-1	Bushing		DC-10	McDonnell Douglas	
AWJ7068-503	Bushing		DC-10	McDonnell Douglas	
AYG7207-1	Collar		DC-10	McDonnell Douglas	
50714	Pinion	NC		Lockheed	
119676	Lock			Lockheed	
50720001	Cradle			Lockheed	
1000-658	Screw			Lockheed	
1000-681	Shaft			Lockheed	
1001-24	Steam Boat			Lockheed	
10077D200-301	Protective Housing	G2/F		Lockheed	
10077D205-101	Retainer	A		Lockheed	
10077D303-101	Bar	B3		Lockheed	
10077D303-102	Bar	B3		Lockheed	
10077D304-101	Bar	C2		Lockheed	
10077D304-102	Bar	C2		Lockheed	
10111D998-105	Card Support Angle			Lockheed	
10119D043	Clip	NC		Lockheed	
10138A152-301	Pulley Assy			Lockheed	
10138D400-307	Housing Assy			Lockheed	
10138D401-101	Cover	B1/C		Lockheed	
10138D403-101	Cover	A1		Lockheed	
10138D520-105	Flywheel			Lockheed	
10138D524-105	Weight-Flywheel			Lockheed	
10138D527-101	Insulation, Molded	U		Lockheed	
10140D641-301	Strap Assy	NC		Lockheed	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
127F2350-101	Jack Insert			Lockheed	
127F8446-101	Clip	NC		Lockheed	
127F8449-101	Clip	NC		Lockheed	
127F8449-103	Clip	NC		Lockheed	
127F8450-101	Clip	NC		Lockheed	
127S0575-101	Rib Root Aft	NC		Lockheed	
127S0575-102	Rib Root Aft	NC		Lockheed	
127S0607-101	Clip	NC		Lockheed	
127S0607-102	Clip	NC		Lockheed	
127S0608-101	Clip	NC		Lockheed	
127S0608-102	Clip	NC		Lockheed	
1506532-103	Spacer			Lockheed	
1506950-103	Spacer	NC		Lockheed	
1506953-101	Bushing			Lockheed	
1507222-109	Bushing			Lockheed	
1507623-103	Bushing			Lockheed	
1512211-101	Bushing			Lockheed	
1512342-103	Guide			Lockheed	
1514544-101	Spacer			Lockheed	
1514617-119	Seal			Lockheed	
1514617-120	Seal			Lockheed	
1514648-139	Trim	C3		Lockheed	
1519116-101	Bearing			Lockheed	
1519117-101	Bearing			Lockheed	
1519125-101	Spacer			Lockheed	
1519125-109	Spacer			Lockheed	
1519125-113	Spacer			Lockheed	
1522037-103	Sleeve			Lockheed	
1523028-103	Bushing			Lockheed	
1523032-101	Bushing			Lockheed	
1523032-103	Bushing			Lockheed	
1523032-107	Bushing			Lockheed	
1523032-111	Bushing			Lockheed	
1523032-113	Bushing			Lockheed	
1523032-115	Bushing			Lockheed	
1523032-123	Bushing			Lockheed	
1523032-125	Bushing			Lockheed	
1523032-129	Bushing			Lockheed	
1523032-143	Bushing			Lockheed	
1523032-155	Bushing			Lockheed	
1523032-161	Bushing			Lockheed	
1523032-163	Bushing			Lockheed	
1523032-199	Bushing			Lockheed	
1523032-201	Bushing			Lockheed	
1523032-219	Bushing			Lockheed	
1523032-229	Bushing			Lockheed	
1523032-233	Bushing			Lockheed	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
1523032-243	Bushing			Lockheed	
1523032-245	Bushing			Lockheed	
1523032-247	Bushing			Lockheed	
1523032-359	Bushing			Lockheed	
1523032-363	Bushing			Lockheed	
1523032-365	Bushing			Lockheed	
1523032-366	Bushing			Lockheed	
1523032-369	Bushing			Lockheed	
1523093-103	Bushing			Lockheed	
1523093-105	Bushing			Lockheed	
1523097-101	Spacer			Lockheed	
1523099-101	Spacer			Lockheed	
1523115-103	Sleeve			Lockheed	
1523115-105	Sleeve			Lockheed	
1523115-107	Sleeve			Lockheed	
1523115-109	Sleeve			Lockheed	
1523115-111	Sleeve			Lockheed	
1523123-101	Bushing			Lockheed	
1523123-105	Bushing			Lockheed	
1523130-105	Bushing			Lockheed	
1523140-103	Bushing			Lockheed	
1523140-107	Bushing			Lockheed	
1523144-101	Plug			Lockheed	
1523149-101	Bushing			Lockheed	
1523149-103	Bushing			Lockheed	
1523149-105	Bushing			Lockheed	
1523149-109	Bushing			Lockheed	
1523149-121	Bushing			Lockheed	
1523149-125	Bushing			Lockheed	
1523149-127	Bushing			Lockheed	
1523149-129	Bushing			Lockheed	
1523149-131	Bushing			Lockheed	
1523149-133	Bushing			Lockheed	
1523149-143	Bushing			Lockheed	
1523149-145	Bushing			Lockheed	
1523160-101	Spacer			Lockheed	
1523168-101	Bearing			Lockheed	
1523217-101	Bushing			Lockheed	
1523228-103	Spacer	C1		Lockheed	
1523264-101	Spacer			Lockheed	
1523275-101	Spacer	A		Lockheed	
1523298-109	Bushing			Lockheed	
1523298-111	Bushing	C		Lockheed	
1523298-113	Bushing			Lockheed	
1523298-121	Bushing			Lockheed	
1523298-127	Bushing			Lockheed	
1523298-129	Bushing			Lockheed	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
1523298-131	Bushing			Lockheed	
1523298-139	Bushing	C1		Lockheed	
1523298-143	Bushing			Lockheed	
1523298-155	Bushing			Lockheed	
1523298-159	Bushing			Lockheed	
1523298-161	Bushing			Lockheed	
1523298-167	Bushing			Lockheed	
1523298-169	Bushing			Lockheed	
1523298-189	Bushing			Lockheed	
1523298-191	Bushing			Lockheed	
1523298-197	Bushing			Lockheed	
1523298-199	Bushing			Lockheed	
1523298-201	Bushing			Lockheed	
1523298-203	Bushing			Lockheed	
1523298-219	Bushing			Lockheed	
1523398-227	Bushing			Lockheed	
1523398-229	Bushing			Lockheed	
1523398-233	Bushing			Lockheed	
1523398-235	Bushing			Lockheed	
1523398-247	Bushing			Lockheed	
1523398-249	Bushing			Lockheed	
1523398-362	Bushing			Lockheed	
1523398-363	Bushing			Lockheed	
1523299-101	Bearing Assy			Lockheed	
1523356-121	Bushing			Lockheed	
1523416-101	Pad			Lockheed	
1523491-101	Sleeve			Lockheed	
1523498-101	Sleeve			Lockheed	
1523532-101	Bearing			Lockheed	
1524367-101	Bushing	NC		Lockheed	
1524598-101	Sleeve			Lockheed	
1524598-103	Sleeve			Lockheed	
1525295-101	Bushing			Lockheed	
1526334-125	Strip			Lockheed	
1529315-101	Bearing Assy			Lockheed	
1529315-105	Bearing Assy			Lockheed	
1529316-101	Bearing Assy			Lockheed	
1529346-101	Sleeve			Lockheed	
1529975-105	Bushing			Lockheed	
1530197-111	Sleeve			Lockheed	
1530460-145	Bushing			Lockheed	
1530460-161	Bushing	A		Lockheed	
1530460-165	Bushing			Lockheed	
1530460-183	Bushing	A		Lockheed	
1530460-185	Bushing	A		Lockheed	
1531127-125	Bushing	A		Lockheed	
1531127-135	Bushing	A		Lockheed	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
1531129-105	Bushing			Lockheed	
1531196-105	Seal			Lockheed	
1531197-105	Seal			Lockheed	
1531197-109	Retainer			Lockheed	
1531198-105	Seal			Lockheed	
1531199-105	Seal			Lockheed	
1531199-109	Retainer			Lockheed	
1531200-107	Seal			Lockheed	
1531200-111	Retainer			Lockheed	
1531201-105	Seal			Lockheed	
1531202-109	Retainer			Lockheed	
1531202-105	Seal			Lockheed	
1531202-109	Retainer			Lockheed	
1531203-105	Seal			Lockheed	
1531203-109	Retainer			Lockheed	
1533644-103	Spacer			Lockheed	
1535152-111	Spring			Lockheed	
1535302-105	Bushing			Lockheed	
1535495-101	Bushing			Lockheed	
1535931-101	Sleeve	NC		Lockheed	
1535948-101	Bushing			Lockheed	
1539192-105	Bushing			Lockheed	
1540817-101	Bushing			Lockheed	
1541745-105	Spacer			Lockheed	
1542130-103	Bearing Assy			Lockheed	
1542134-105	Bearing			Lockheed	
1542436-101	Spacer			Lockheed	
1543014-101	Spring			Lockheed	
1543014-103	Spring			Lockheed	
1544994-103	Bushing	A		Lockheed	
1544997-103	Bushing			Lockheed	
1545619-123	Bumper			Lockheed	
1545694-101	Seal Assy			Lockheed	
1545694-114	Strip			Lockheed	
1548740-104	Spring	NC		Lockheed	
1549439-101	Spacer			Lockheed	
1549439-103	Spacer			Lockheed	
1549439-105	Spacer			Lockheed	
1549507-101	Spacer			Lockheed	
1549507-103	Spacer			Lockheed	
1549757-113	Bushing			Lockheed	
1549757-115	Bushing			Lockheed	
1549757-117	Bushing			Lockheed	
1549914-101	Trim	A		Lockheed	
1550440-109	Bushing			Lockheed	
1550440-111	Bushing			Lockheed	
1550536-101	Spacer			Lockheed	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
1550537-101	Bushing			Lockheed	
1553823-103	Sleeve			Lockheed	
1557657-103	Spacer			Lockheed	
1557938-219	Spring			Lockheed	
1558467-101	Spacer			Lockheed	
1559812-107	Trim			Lockheed	
1559812-109	Trim			Lockheed	
1560677-101	Seal Assy			Lockheed	
1560677-103	Seal			Lockheed	
1560677-108	Seal	NC		Lockheed	
1560677-119	Seal	NC		Lockheed	
1560677-120	Seal Assy			Lockheed	
1561073-105	Spacer			Lockheed	
1561233-103	Bumper			Lockheed	
1566171-103	Spring			Lockheed	
1566752-103	Spacer			Lockheed	
1568703-181	Seal Bridge Assy			Lockheed	
1569315-105	Spacer			Lockheed	
1570144-101	Bumper			Lockheed	
1570577-101	Spacer			Lockheed	
1570587-113	Spring			Lockheed	
1573579-105	Seal			Lockheed	
1573580-113	Seal Assy			Lockheed	
1573580-117	Seal Assy			Lockheed	
1573581-101	Seal Assy			Lockheed	
1573582-101	Seal Assy			Lockheed	
1573583-101	Seal Assy			Lockheed	
1574013-103	Bushing			Lockheed	
1580732-105	Support			Lockheed	
1586276-101	Bushing			Lockheed	
1592940-103	Spring			Lockheed	
1599768-101	Strip			Lockheed	
1599768-111	Strip			Lockheed	
1607833-105	Spacer			Lockheed	
1613069-103	Seal			Lockheed	
1613069-104	Seal	A1		Lockheed	
1613077-103	Spoiler			Lockheed	
1613082-102	Seal			Lockheed	
1613082-108	Seal			Lockheed	
1617467-101	Seal			Lockheed	
1617467-103	Seal			Lockheed	
1618912-101	Seal Assy			Lockheed	
1618912-102	Seal Assy			Lockheed	
1620728-107	Strip			Lockheed	
1620728-109	Strip			Lockheed	
1620728-111	Strip			Lockheed	
1623140-101	Bearing			Lockheed	

Customer Part Number	Nomenclature	Revision	Application	Made for customer	Comment
1630820-101	Seal	B1		Lockheed	
1634568-106	Seal Assy	B		Lockheed	
1642172-101	Bushing			Lockheed	
20L751-101	Bracket Assy	C		Lockheed	
3317916-1	Panel			Lockheed	
3318917-1	Turn Buckle			Lockheed	
3318917-101	Turn Buckle			Lockheed	
3318921-3	End Bolt			Lockheed	
393203-91	Panel			Lockheed	
4065088-3	Adapter	A		Lockheed	
4074850-1	Motor			Lockheed	
4074850-2	Motor			Lockheed	
4076089-103	Switch Control	B		Lockheed	
42213-2	Tee	A		Lockheed	
4F73343-105A	Pin, Shoulder	G		Lockheed	
657876-1	Probe			Lockheed	
802323-3	Lever			Lockheed	
805042-2	Bearing			Lockheed	
805797-1	Eccentric	D		Lockheed	
807134-103	Track			Lockheed	
807134-104	Track			Lockheed	
807135-3	Track			Lockheed	
807136-3	Track			Lockheed	
807137-3	Track			Lockheed	
807138-3	Track			Lockheed	
809301-5	Fitting	A		Lockheed	
809301-6	Fitting	A		Lockheed	
816934-1	Channel			Lockheed	
816934-2	Channel			Lockheed	
817480-5	Fitting			Lockheed	
817490-1	Fitting			Lockheed	
817490-2	Fitting			Lockheed	
819323-1	Fitting			Lockheed	
829733-3	Fitting			Lockheed	
830449-1	Lever Assy	A		Lockheed	
831285-1	Support			Lockheed	
902006021-101	Jackscrew Assy			Lockheed	
9401-001	Crew Door Stand			Lockheed	
9401-002	Crew Door Stand			Lockheed	
B52103007-135	Support, Column	A7		Lockheed	
B52193003-177	Channel	A1		Lockheed	
B52193003-179	Channel	A1		Lockheed	
B52653001-143	Clip			Lockheed	
B52823016-121	Bracket-Tee			Lockheed	
BR7-1A08915-101	Anode Blank	NC		Lockheed	
BR7-1A08915-103	Anode Blank	NC		Lockheed	
BR7-1A08915-105	Anode Blank	NC		Lockheed	

<b>Customer Part Number</b>	<b>Nomenclature</b>	<b>Revision</b>	<b>Application</b>	<b>Made for customer</b>	<b>Comment</b>
BR7-1A08915-107	Anode Blank	NC		Lockheed	
SK1373-2305	Gimble			Lockheed	



MINISTRY OF DEFENCE

# MOD QUALITY ALERT NOTICE (MQAN)

Serial Number: 04/10



*Keeping the Quality Assurance Practitioner informed*

## Counterfeit Alloys for Military Contracts

<b>Who should read this:</b>	<b>Defence Suppliers, Team Leaders, Project Staff, and Quality Practitioners</b>
<b>Category:</b>	Information
<b>When it takes effect:</b>	24 November 2010
<b>Cancellation date:</b>	23 November 2011
<b>Point of contact:</b>	<b>DES SE DQA-Pol-Nat4</b> Defence Quality Assurance Policy, Elm 1c #4133, MoD Abbey Wood South, BRISTOL, BS34 8JH. Tel: 030-679-82344, Fax: 0117-91-33968, Email: dessedqa-pol-nat4@mod.uk

### References:

- United States District Court for Eastern District of Pennsylvania  
[http://www.marinelog.com/PDF/bristolalloys\\_information.pdf](http://www.marinelog.com/PDF/bristolalloys_information.pdf)
- Philadelphia Business Journal report:  
[http://www.philly.com/philly/business/homepage/20101012\\_Guilt\\_pleas\\_in\\_Bristol\\_Alloys\\_fraud\\_case.html](http://www.philly.com/philly/business/homepage/20101012_Guilt_pleas_in_Bristol_Alloys_fraud_case.html)
- Exsubspy Website:  
<http://exsubspy.posterous.com/navy-searches-for-inferior-metal-by-bristol-a>

### Description

- At reference A, B and C (copies attached) it is reported that the company Bristol Alloys Inc., Fairless Hills were charged with supplying a Navy subcontractor with metal that did not conform to the required USA Navy specifications and provided counterfeit certifications that showed it did.
- The purpose of this MQAN is to notify Defence Suppliers and MoD Project Teams that suspect metal components; designated "level 1" have entered the USA supply chain; and the possibility that such parts may have entered the UK supply chain.

### Actions to be taken

- Project Teams and Suppliers should review the supply chain records to assess if any metal components may have originated from Bristol Alloys Inc. to establish the authenticity of the component. Details of some shipment dates and Job numbers are provided at Reference A; unfortunately we are unable to provide any further details.
- On completing the actions above, please provide written communication to DQA Policy of any findings or concerns that require additional alert information to be communicated, along with supporting objective evidence.

*Original signed*

**Kevin Thomas**

Defence Quality Assurance Policy

**IN THE UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF PENNSYLVANIA**

**UNITED STATES OF AMERICA** : **CRIMINAL NO.**  
**v.** : **DATE FILED: September 7, 2010**  
**BRISTOL ALLOYS, INC.** : **VIOLATION:**  
**JAMES R. BULLICK** : **18 U.S.C. § 1031 (Major fraud against the United States - 1 count)**

**INFORMATION**

**COUNT ONE**

**(Major Fraud Against the United States)**

**THE UNITED STATES ATTORNEY CHARGES THAT:**

At all times material to this information:

**The Defendants**

1. Defendant BRISTOL ALLOYS, INC. was a Pennsylvania corporation located in Fairless Hills, Pennsylvania which brokered the sale and distribution of steel and other metal products to various manufacturers, including U.S. government subcontractors.

2. Defendant JAMES R. BULLICK was the president and owner of one-half of the shares of defendant BRISTOL ALLOYS, INC.

**The Prime Contract Awards**

3. On or about August 14, 2003, Electric Boat Corp., Groton, Connecticut, was awarded prime contract number N00024-03-C-2101 in the amount of \$8,687,903,765 for the construction, final assembly, test and delivery of 6 Virginia Class Submarines for the United

States Navy. Northrop-Grumman Ship Building (“NGSB”) was a first tier subcontractor to the General Dynamics Electric Boat Corporation (“EB”) under that contract.

4. On or about December 22, 2008, Electric Boat Corporation, Groton, Connecticut, was awarded prime contract number N00024-09-C-2104 in the amount of \$14,011,153,663 for the construction, final assembly, test and delivery of 8 Virginia Class Submarines for the United States Navy. NGSB was a first tier subcontractor to EB under that contract.

5. As part of its subcontracting work, NGSB awarded purchase orders to Garvey Precision Machine, Inc. (“GPM”), Willingboro, NJ, for various metal components utilized within the hull of the submarines. For example, one purchase order required GPM to manufacture a snorkel faring assembly to the EB drawing H643-6502 and Federal Specification QQ-N-281D. The snorkel faring assembly was made up of number of component parts, including a snorkel hoist pipe flange. The specifications also required the material used in manufacturing the snorkel hoist pipe to be rolled, nickel-copper alloy plate with a hot finish rather than annealed and air cooled. The specification also called for alloy plate to withstand a minimum pressure of 40,000 pounds per square inch (PSI).

6. In order to perform under its subcontracts with NGSB, GPM obtained metals and other necessary component parts from defendant BRISTOL ALLOYS, INC. by issuing to BRISTOL ALLOYS, INC. purchase orders that specified the materials it was purchasing and which disclosed that such materials were ordered as part of a military contract. GPM required that BRISTOL ALLOYS, INC. provide certified material test reports and heat

treating certifications in order to insure that the materials supplied were in conformance with the requirements of each GPM purchase order.

### **THE SCHEME TO DEFRAUD**

7. From in or about 2004 or earlier through and including in or about October 2009, in connection with the procurement described in paragraphs 3 through 5 above, the value of which exceeded \$1,000,000, in the Eastern District of Pennsylvania, defendants

**BRISTOL ALLOYS, INC.  
and  
JAMES R. BULLICK**

devised and intended to devise a scheme to defraud the United States and to obtain money and property by means of false and fraudulent pretenses, representations and promises.

### **MANNER AND MEANS**

It was part of the scheme to defraud that:

8. Defendants BRISTOL ALLOYS, INC. and JAMES R. BULLICK contracted with and supplied metal to Garvey Precision Machine, Inc. ("GPM"), a U.S. Navy subcontractor, in connection with GPM purchase orders requiring that the metal parts meet certain Navy specifications and requirements, including that the defendants document compliance with the heat treating requirements of the metals in accordance with their designation of "Level 1," *i.e.*, that such parts were critical to the integrity of the Navy submarines in which the parts were to be installed.

9. Rather than comply with the heat treating requirements of the GPM purchase orders, defendants BRISTOL ALLOYS, INC. and JAMES BULLICK instead created

numerous fraudulent heating test certifications purportedly issued by Donovan Heat Treating Company, Inc. which had been falsely altered to reflect heat treatments in accordance with the GPM purchase order requirements that, in fact, had never actually been completed, including, among others, the following:

<b>Shipment Dates</b>	<b>Garvey Job No.</b>	<b>Description of Item Manufactured with Metal Supplied by Bristol Alloys, Inc.</b>	<b>False Heating Cert. No.</b>
8/28/2006 11/29/2007	5577	Piston tailrod used in hydraulic accumulator to indicate fluid capacity and align piston travel. (Prime contract number N00024-03-C-2101)	A43391
6/4/2007	5828	Piston tailrod used in hydraulic accumulator to indicate fluid capacity and align piston travel. (Prime contract number N00024-03-C-2101)	A42729
9/26/2007 9/27/2007	5846	Piston tailrod used in hydraulic accumulator to indicate fluid capacity and align piston travel. (Prime contract number N00024-03-C-2101)	A932891
9/3/2008	5878	Piston tailrod used in hydraulic accumulator to indicate fluid capacity and align piston travel. (Prime contract number N00024-09-C-2104)	A932892
9/15/2008	5886	Piston tailrod used in hydraulic accumulator to indicate fluid capacity and align piston travel. (Prime contract number N00024-09-C-2104)	A932942

10. Defendants BRISTOL ALLOYS, INC. and JAMES BULLICK also created numerous fraudulent certified material test reports purportedly issued by, among others, Electralloy and Huntington Alloys, which had been falsely altered to reflect that metals supplied to GPM in connection with GPM's U.S. Navy subcontracts met all purchase order specifications and requirements when, in fact, such metals did not meet such specifications and requirements, including, among others, the following:

<b>Shipment Dates</b>	<b>Garvey Job No.</b>	<b>Item Manufactured with Metal Supplied by Bristol Alloys, Inc.</b>	<b>False Material Cert. No.</b>
5/28/2004 6/14/2004	5577	Tailrod bushing for hydraulic accumulator that retains hydraulic pressure around the piston tailrod. (Prime contract number N00024-03-C-2101)	Huntington Alloys M5233BR-15
7/7/2004	5579	Grease fitting and cap for snorkel induction mast that provides grease for the packing between the inner and outer pipe for air into the submarine. (Prime contract number N00024-03-C-2101)	Electralloy E2530-1FA-1
7/7/2004	5579	Magnet receptacle for snorkel induction mast that provides telemetry to signal to the control room the position of the snorkel mast. (Prime contract number N00024-03-C-2101)	Electralloy E2530-1FA-1
8/4/2008 9/3/2008	5877	Tailrod bushing for hydraulic accumulator that retains hydraulic pressure around the piston tailrod. (Prime contract number N00024-03-C-2101)	Electralloy E2530-1FA-1
8/4/2008 9/3/2008	5878	Hex plug for hydraulic accumulator that retains hydraulic pressure on the accumulator. (Prime contract number N00024-09-C-2104)	Electralloy E2530-1FA-1
8/4/2008 9/3/2008	5878	Tailrod bushing for hydraulic accumulator that retains hydraulic pressure around the piston tailrod. (Prime contract number N00024-09-C-2104)	Electralloy E2530-1FA-1

11. On or about September 15, 2008, at Fairless Hills, in the Eastern District of Pennsylvania, and elsewhere, defendants

**BRISTOL ALLOYS, INC.  
and  
JAMES R. BULLICK**

knowingly executed and attempted to execute the scheme with the intent to defraud the United States and to obtain money or property by means of false and fraudulent pretenses, representations, and promises, by supplying Garvey Precision Machines, Inc., a U.S. Navy

subcontractor, fraudulent and counterfeit heat testing certification No. A932942 purportedly issued by Donovan Heat Treating Company, Inc. that falsely certified that metal supplied by defendants BRISTOL ALLOYS, INC. and JAMES R. BULLICK had been properly heat treated when, as the defendants well knew, no such heat treating had actually occurred.

In violation of Title 18, United States Code, Section 1031.

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**ZANE D. MEMEGER**  
**United States Attorney**

Posted on Tue, Oct. 12, 2010

## Guilt pleas in Bristol Alloys fraud case

Bristol Alloys Inc., Fairless Hills, and its president, James R. Bullick, agreed to plead guilty to one count of major fraud against the United States.

The defendants had supplied a Navy subcontractor with metal that did not conform to military specifications and provided counterfeit certified material test reports and counterfeit heat treatment certifications.

The U.S. Attorney's Office in Philadelphia disclosed the pleas in a news release Tuesday. The metal supplied was used in building submarines.

Sentencing is scheduled for Jan. 31. Bristol Alloys faces a maximum sentence of five years probation, a \$5 million fine, mandatory restitution, and a \$400 special assessment.

James Bullick faces a maximum sentence of 10 years imprisonment, three years of supervised release, a \$5 million fine, mandatory restitution, and a \$100 special assessment. - **Inquirer staff**

**Find this article at:**

[http://www.philly.com/philly/business/homepage/20101012\\_Guilt\\_pleas\\_in\\_Bristol\\_Alloys\\_fraud\\_case.html](http://www.philly.com/philly/business/homepage/20101012_Guilt_pleas_in_Bristol_Alloys_fraud_case.html)

Check the box to include the list of links referenced in the article.

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October 21, 2010

# [Navy Searches for Inferior Metal by Bristol Alloys on Subs](#)



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The Navy is searching for metal used in submarines that fails to meet military specifications and was supplied by a Pennsylvania contractor who recently pleaded guilty to one count of major fraud against the U.S. government.

In a statement provided to The Day, the Navy called the fraud "calculated and widespread."

The search has so far cost the government more than \$1.3 million, and the Navy said it may take years to determine the scope of the problem.

The Navy did not respond to a question about the safety implications, saying only that the service is "committed to ensuring the safety of its crews and ships."

[Bristol Alloys Inc. and its president, James Bullick, admitted in court last week](#) to selling metal that had not been heat-treated to be used in Virginia-class submarines to meet the contract's requirements. Heat treatment is used to make metal stronger. The company also admitted that it provided counterfeit certifications that the metal had been treated.

[Read more about Virginia-class Fast Attack Submarines at our Equipment Guide.](#)

The major fraud charge dealt with parts and materials associated with Virginia-class submarines, but many classes of submarines and the aircraft carrier Gerald R. Ford (CVN 78) are also affected, according to the Navy.

"The fraud perpetrated by Bristol Alloys, Inc. and Mr. Bullick was both calculated and widespread," according to the Navy's statement. "Implications from Bristol Alloys, Inc. and Mr. Bullick's scheme to defraud the government have the potential to take years to fully investigate, inspect and adjudicate."

Bullick faces a maximum sentence of 10 years in prison and a \$5 million fine at his sentencing on Jan. 31, according to the Office of the U.S. Attorney for the Eastern District of Pennsylvania. The company also faces a possible \$5 million fine.

Assistant U.S. Attorney John J. Pease, the prosecutor in the case, said Tuesday he plans to ask the court at the sentencing to require restitution for the cost of locating the metal and replacing parts.

Dozens of examples of metal supplied by Bristol that does not meet military specifications have been found in Navy ships in the past year, Pease added. He could not say how many ships were involved since the effort to find where the metal has been used is ongoing.

Electric Boat in Groton and Northrop Grumman Shipbuilding in Virginia build Virginia-class submarines under a team agreement.

EB referred all questions about the case to the Navy.

Northrop Grumman purchased various metal components from Garvey Precision Machine Inc. in New Jersey, a company that had bought metals and other parts from Bristol Alloys, a metal and steel parts broker.

Bristol Alloys created numerous fraudulent heating-test certifications supposedly issued by another company instead of complying with the Navy's requirements in the purchase orders from Garvey from about 2004 to the fall of 2009, according to court documents. Garvey paid Bristol about \$500,000 during that time, with much of that money paying for the metal that did not meet the specifications, Pease said.

Piston tailrods, which indicate fluid capacity and align piston travel, were made using this metal, according to U.S. District Court documents.

[Bristol also provided counterfeit certified material test reports for metal used to make other parts in the hydraulic system as well as other components, the documents state.](#)

[EB found problems with the material certification reports in the spring of 2009 and asked Garvey to evaluate the products it supplied for the submarine program. Northrop Grumman also investigated the problem that summer.](#)

Bristol refused to provide EB and Garvey with the original copies of the mechanical and heat test reports, the documents state. Garvey stopped doing business with Bristol, and Northrop Grumman informed the Navy of the discrepancies in October 2009.

Agents from the Naval Criminal Investigative Service searched the Bristol Alloys building in Fairless Hills, Pa., on Oct. 30, 2009. The Navy is working with both shipbuilders to determine the impact of the scheme.

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## 0 Comments

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**Customer: BAE Systems**  
**Re: Henkel Manufactured Products Affected by the REACH Regulation**

The below is extracted from an e-mail from BAE Systems to Kapco:

All for information:

This email has been sent bcc due to the large distribution. Please note that due to our internal distribution methods, some suppliers may receive an email for each BAE Systems Supplier Quality Approval held.

This email may not be relevant to some of our suppliers, but we have sent to all just in case. Please disregard if this is not applicable to you.

BAE Systems have recently held discussions with Henkel Technologies regarding the issue of future supplies of various metal treatment chemicals. It became clear that some products manufactured by Henkel will be affected by the REACH Regulation. In particular, there are concerns about 3 chemicals: potassium dichromate, sodium dichromate and sodium chromate.

We have been informed that Henkel are working on Re-Formulation and/or alternatives as applicable.

BAE Systems will remain in contact with Henkel Technologies so that re-qualification can be achieved quickly, thus minimising the risk of loss of supply.

At present there is an estimated stock for a further 12 months after which supply will become problematical.

To clarify, Table 1 below summarises the situation as we know it.

CHEMICAL	HENKEL PRODUCT	MAS PROCESS SPEC.
Potassium Dichromate	Turco Smutgo 2	
	Deoxidiser 1	
	Deoxidiser D4	
	Deoxidiser 17 Replenisher	R10-6099
	Deoxidiser 7 Make up	R10-6099
	Deoxidiser D1	
	Ridolene 106A	
	Brush Alocrom 1200B	R15-6132
	Sodium Dichromate	Turco Smutgo 4
Alodine 600		R15-6132
Alodine 1600		
Turco Transpo S2		
Brush Alocrom 1200 (A&B)		R15-6132
Sodium Chromate	Turco 4215	
	Turco 4215S	R10-6024
	Turco 4316	R10-6084

	Turco 5351	
	Turco 5351 Thin	
	Turco 5469	
	Turco Alumiclean F	

**Any responses to this email, should be forwarded to your relevant BAE Systems Procurement Contact or through your supply chain**