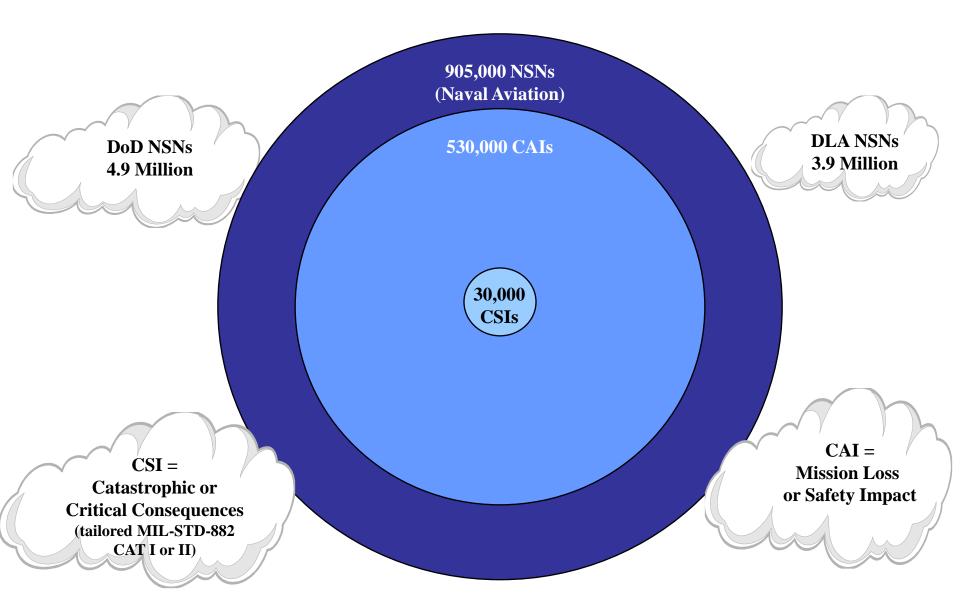


Aviation Critical Safety Items (CSIs)

Jeff Allan Chief, Policy and Standards (NAVAIR 4.1C) 301-342-2246 Jeffrey.Allan@navy.mil

NAV MAIR Naval Aviation Critical Items

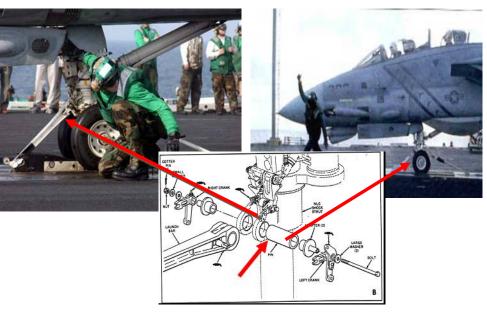




Critical Safety Item Arresting Wire Socket and Pin



NAVAIR F-14 Nose Tow Launch Bar Pin



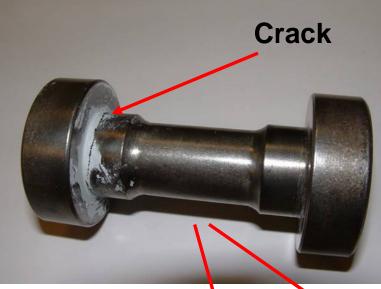
- Service Life ... 2000 Catapults (Inspect Every 100)
 - Failure Discovered ... 21st Launch
- 300M Steel Req'd
 - 1018 Steel Used
- Full Hardening Req'd
 - Case Hardened
- Markings To Be Vibra-Etched ... No Markings
- Unapproved Source ... Wrong Drawing
- 250+ Pins On-Hand ... 1/2 Unmarked
- Bulletin, Red Stripe, Emergency Buy

"DURING DROP CHECK OF NOSE LANDING GEAR, MAINTENANCE PERSONNEL NOTED LAUNCH BAR EXTENDED SLOWLY DURING NLG EXTENSION. REMOVAL OF LAUNCH BAR REVEALED LAUNCH BAR PIN CRACKED IN HALF. LAUNCH BAR PIN WAS REPLACED 16JAN01 AND HAD ONLY 21 CATAPAULT LAUNCHES. IT IS VERY LIKELY THAT THIS DEFECT WOULD HAVE GONE UNDETECTED HAD UNRELATED MAINTENANCE OF THE NOSE LANDING GEAR DOOR/DROP CHECK NOT BEEN PERFORMED. POSSIBLE LOSS OF AIRCRAFT/POTENTIAL LOSS OF AIRCREW." (March 2001 VF-102, USS Theodore Roosevelt)





Critical Safety Item Holdback Bar Release Element



Holdback Bar

• Restrains Aircraft Prior To Catapult Firing

Release Element

- Calibrated "Weak Link" ... Designed to Break At Precise Pressure/Aircraft
 - EA-6B Breaking Strength = 53,000 LBS
- 100% Magnetic Particle Inspection Required
 - Mag Particle Inspection Symbol Stamped on Both Ends
- 32,000+ Procured







NAVMAIR H-53 Fluid Passage (Shoulder) Bolt

(Navy "D" Models & AF "J" Models)

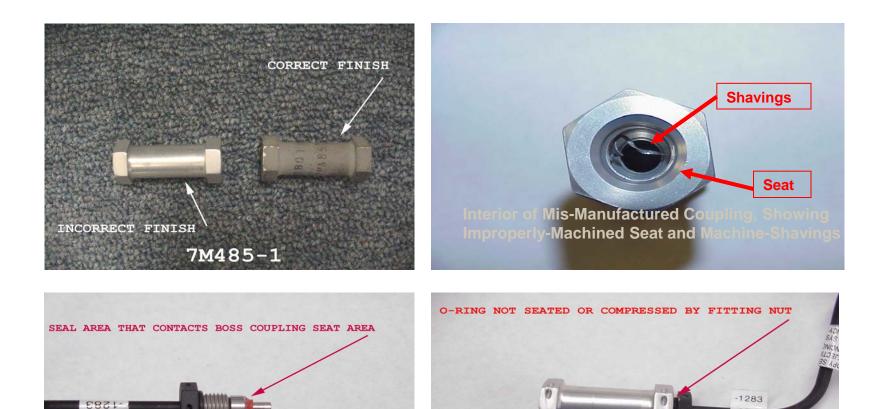


"This part is critical and needs to be made correctly. The part was not made correctly and the H-53 FST is writing a bulletin to remove these from service. ... It is a concern and a bulletin is being prepared or has been prepared to inspect for nonconforming bolts by manufacturer. We are not going to play what if games or make different assumptions if the bolts will or will not fail because of the nonconformances. If a bolt fails to retain one tail rotor blade, the imbalance will rip off the tail rotor and tail rotor gearbox and the aircraft goes into uncontrolled flight. Catastrophic (category I) failure consequence: LOSS of aircrew/aircraft. We do not want to make some assumptions about failures or not failing when the consequences are catastrophic."



Boss Coupling

(Used In T/AV-8B, F/A-18, and T-45 Escape Systems)



Tip of SMDC Line Showing Seating Area Which Contacts Mis-Machined Seat of Coupling Boss, Thereby Preventing Proper Installation of SMDC into Coupling Boss and Leading to Excessive Tip-to-Tip Gap Between SMDC Lines and Impaired Environmental Sealing

SHIELDED MILD DETONATING CORD ASSY (SMDC)

SMDC Connected to Mis-Manufactured Coupling, Showing Uncompressed O-Ring Seal Which Degrades Environmental Integrity of SMDC System

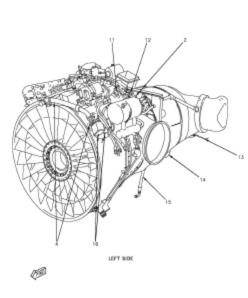
UNFINISH DAMON INDUSTRIES BOSS COUPLING

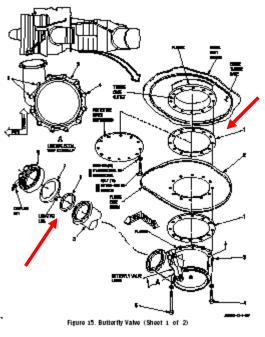
AV-8B Butterfly Valve Gasket

Problem (April 2000):

NAV

- Gaskets Used in Reaction Control System
 - 2 MAG-13 Failures
 - 1 Detected Because of Fire Warning Light and Other During Recurring Inspection
 - No Evidence That Manufacturer Was Approved/Qualified
 - Wrong Material in 1 out of 3 Contracts
 - Bulletin Issued -
 - Visual Inspection .. Replace Within 1 Year
 - Purge Inventory

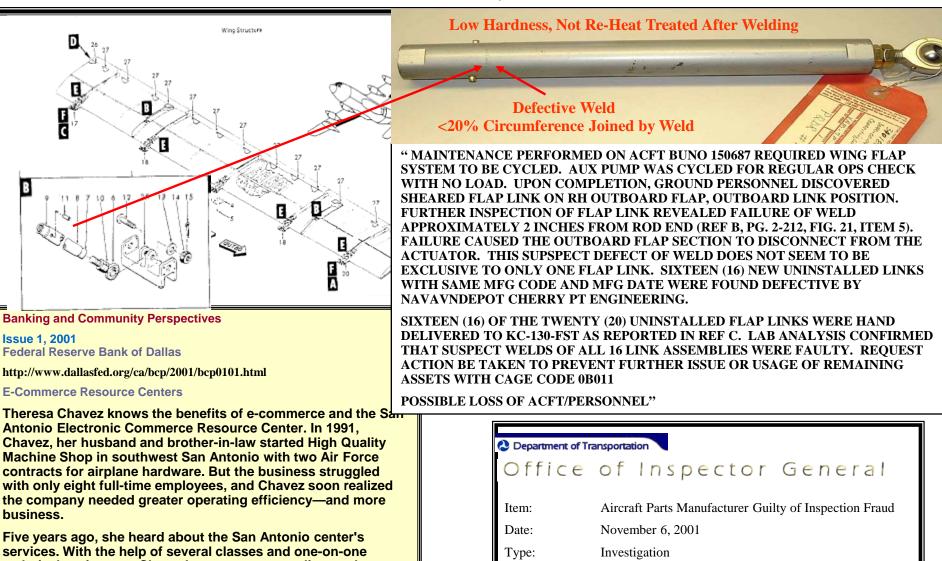






"The one part of this issue that really crumbles my cookies is that this appears to be the same vendor who made other bad gaskets a couple years ago. We had to purge the system then too. It appears that DLA has gone right back to the same vendor. We just don't have the resources to address the same problem twice (nor the intestinal fortitude). ... now, the AV8B program has to wrestle with how to purge the system and more importantly, our aircraft, of this "bad" batch of gaskets. We'll continue to work that issue with our program guys and I think there are ways to mitigate our impact. We don't have a huge safety problem here but it has to be fixed soon. It makes a lot of extra work for our engineers and, especially, the squadron maintenance guys who are already overworked.

NAV CAIR C-130 Rigid Flap Actuator Connecting Link P/N 340188-4, NSN 3040-00-096-4861

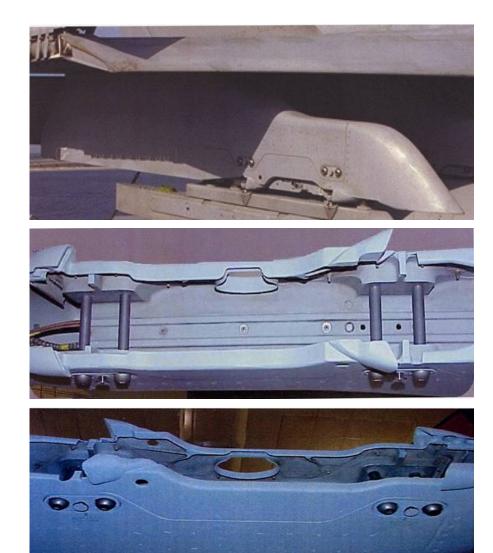


services. With the help of several classes and one-on-one technical assistance, Chavez's company now relies on the Internet for securing government contracts. Today, the machine shop has contracts with seven Air Force bases. Chavez employs 16 people full-time and has doubled her revenues, from \$600,000 in 1991 to more than \$1.2 million last year. None of this would have been possible, she believes, without the Electronic

Summary: High Quality Machine Shop, an aircraft parts manufacturer in San Antonio, TX, pleaded guilty in U.S. District Court in Raleigh, NC, for falsely representing to the U.S. Coast Guard Aircraft Repair and Supply Center in Elizabeth City, NC, that it had inspected a bellcrank spacer sleeve—a critical part for USCG



SUU-63/BRU-32 Pylon Bolt





Bolts Attach Bomb Rack to Pylon

- Pylons Provided w/Bolts By Contractor
- "Forged" Bolt Heads Required
 - 70 Pylons w/Machined Bolt Heads Delivered (293 Bolts Total)
- Non-Approved Source
 - No Supplier Eval Prior To Award
 - QA Not IAW W/Requirements
 - "New" Owners Reported Problem
- Useful Life < 3 Years vice 10 Years

NAV

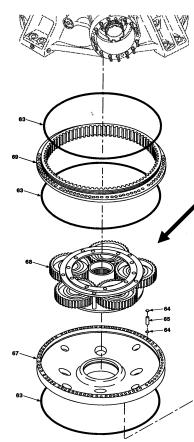
Army H-60 Planetary Carrier "Hasn't Failed Yet" ... "Will Never Fail"

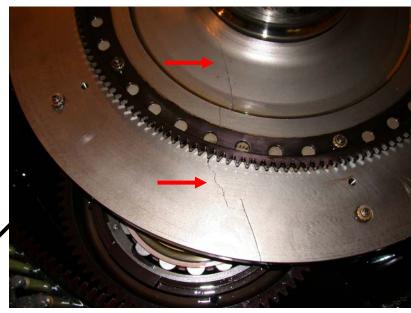
"Hasn't Failed Yet"...

- Catastrophic Consequences Well Understood, but because
 - Low Failure Probability
 - Tens of Thousands Hours of Failure Free Use
 - FSP/CSI Not Coded

<u>"Will Never Fail"</u> ...

- CAT 1 QDR ... Low Main Transmission Oil Pressure
 - CCAD Teardown Revealed Cracked Planetary Carrier
 - Abnormal Gear Loads
 Damaged Internal Shim
 - Shim Pieces Into Sump & Clogged Filter
- 2nd Failure Detected by Subsequent Inspection/Teardown
- 2+ Year Engineering Investigation
 - Poor Traceability/Tracking

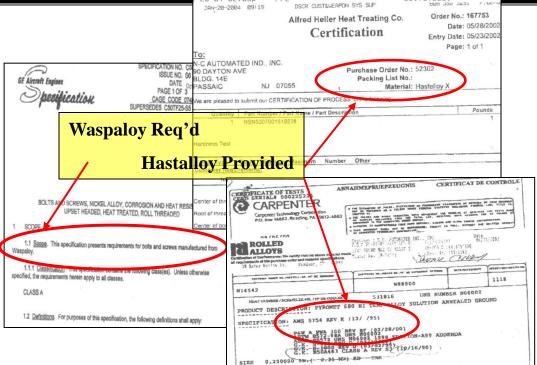


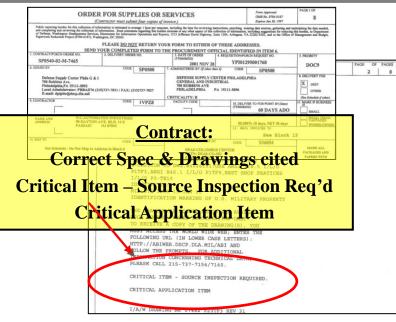


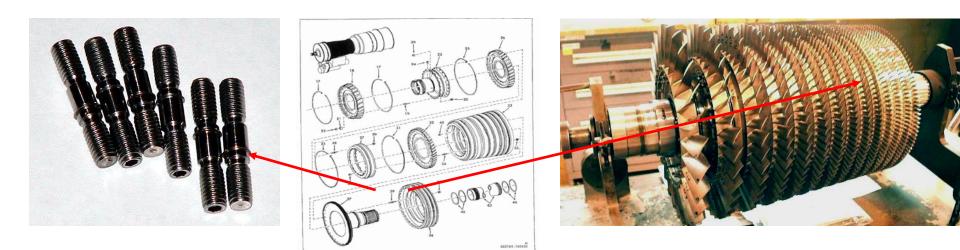
"Although in this instance the failure was detected prior to loss of main rotor drive, future planetary carrier failures may not provide an impending failure indication. If undetected, this failure mode could result in loss of drive to the main rotor shaft, which could result in loss of aircraft and/or injury/death of crew. (Hazard Severity – Catastrophic)."

(Army Risk Determination memorandum)

NAVMAIR T64 Compressor Assembly Shouldered Studs (P/N 4026T91 ... NSN 5307-00-151-9238)





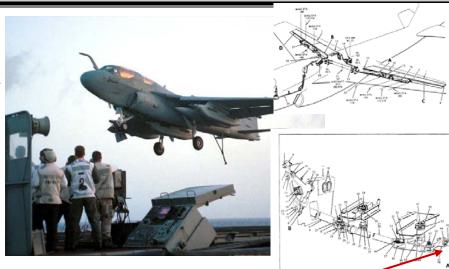




EA-6B Flaperon Hollow Pin P/N 1128CM42207-13 -- NSN 5315-01-240-7559

"VAQ-139 WAS UNABLE TO REMOVE WORN PIN ATTACHED TO FLAPERON AND AS SENT TO WORK CENTER 51A FOR REPAIR. UPON REMOVAL OF PIN THE TECHNICIAN NOTICED PIN WAS TOO SOFT OF A MATERIAL. AFTER TESTING THE PIN FOR HARDNESS TESTING THE RESULTS SHOWED AN ROCKWELL OF 10 INSTEAD OF ROCKWELL 39-45 OF 410 STAINLESS STEEL. THIS IS IAW GRUMMAN PRINT FROM NATEC (GAC515 REV 21076 200M REV 076)"

Engineering Investigation: RCN N44329-04-0445, 23 Dec 04





PIN, HOLLOW P/N	1128CM42207	-13 NSN	N 5315-01-24	40-7559			
Contract#	Clin	CAGE	SOURCE	Date	Unit Price	Quantity	Total Price
SP050003AB3120231	0001	5U074	DISC	2003-08-04	5.63	380	2,139.40
SP050003AB3120102	0001	5U074	DISC	2003-02-12	6.78	195	1,322.10
SP050002AB3523585	0001	1DAF1	DISC	2002-05-15	12.08	129	1,558.32
SP050000AA5711103		51792	DISC	2000-04-26	17.44	120	2092.80
SP054000MG441		66841	DISC	2000-03-22	11.25	125	1,406.25
SP050099AA6280715	-	06329	DISC	1999-05-28	20.45	100	2045.40
SP050098AB2181130		023T7	DISC	1998-08-26	21.50	100	2,150.00
SP050098AB2180183		023T7	DISC	1997-11-14	24.95	100	2,495.00
SP050096W4193MODF		5U074	DISC	1996-08-29	10.30	130	1339.00
DLA50093AA8610304		65811	DISC	1993-01-11	16.30	48	782.40
DLA50093AA8610305		65811	DISC	1993-01-11	16.30	134	2,184.20
DLA50093M8778MODF		5U074	DISC	1992-12-09	6.42	130	834.60
DLA50090MR046MODF		65777	DISC	1990-07-04	18.70	90	1683.00
DLA50090AA8610281		65811	DISC	1990-02-03	20.85	100	2085.00
DLA50090AA8610282		65811	DISC	1990-02-03	30.85	30	925.50
DLA50089W7337MODF		8N056	DISC	1989-05-03	17.75	38	674.50

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Search Criteria: Date From = '1-JAN-2005'; Date To = '24-JAN-2005'; Website Action = 'DR Submission'

Discrepancy Report Search has returned 392 records

iges: <u>2 3 4 5 6 7 8</u>

RCN <u>N09159-04-0014</u> N09239-05-0009	ICN WC3PQDR-F14-0001-05S	Nomen TRANSMISSION ASSY FUEL CONTROL UNIT	Type CAT I PQDR	Last Completed Step Closed - Reclassified as El	Date
	WC3PODR-F14-0001-059			Closed - Reclassified as El	40 1001 0005
N09239-05-0009	WC3PODR-F14-0001-059	FUEL CONTROL UNIT			13-JAN-2005
1400200-00000	WC3PODR-E14-0001-059		CATIPQDR	Data Review Approved	12-JAN-2005
<u>N09560-05-0001</u>	44001 @DIVEL14-0001-000	DAMPER UNIT NOSE WHEEL STEERING DAMPER	CATIPQDR	Preliminary Report Approval	24-JAN-2005
N44326-05-0008		MAIN ROTOR TIP CAP	CATIPQDR	Data Review Approved	24-JAN-2005
<u>N55138-05-0001</u>	WC2PQDR-H60-0008-05S	MIXER ASSEMBLY	CATIPQDR	Preliminary Report Approval	20-JAN-2005
N55616-05-0001		POWERTURBINE ASSEMBLY	CATIPQDR	Acknowledge Receipt	21-JAN-2005
<u>N65886-05-0003</u>	WC3PQDR-EA6B-0003-058	CLAMP, HOSE	CATIPQDR	Tracer Request Submitted	24-JAN-2005
<u>N65886-05-0006</u>	WC3PQDR-F18-0001-05S	Transducer, Motional Pickup	CATIPQDR	Tracer Request Submitted	24-JAN-2005
R09199-05-0004		INDICATOR SPECIAL	CATIPQDR	Data Review Approved	19-JAN-2005
R09412-05-0050		STRUT, MAIN LANDING GEAR	CATIPQDR	Closed - Reclassified as HMR/EI	04-JAN-2005
R09930-05-0006		ANTENNA, DOGLEG	CATIPQDR	PQDR Submitted	24-JAN-2005
R09969-05-0002	WC3PQDR-EA6B-0005-05S	POWER LEVEL CONTROL QUADRANT	CATIPQDR	Preliminary Report Approval	14-JAN-2005
R09985-05-0001		EVAPORATOR UNIT	CATIPQDR	PQDR Record Closed	05-JAN-2005
R53973-05-0001	WC2PQDR-H46-0002-058	GYRO, DISPLACEMENT	CATIPQDR	Tracer Request Approval	24-JAN-2005
<u>R63923-04-0027</u>		OUTBOARD LEADING EDGE FLAP TRANSMISSION	CATIPQDR	PQDR Record Closed	12-JAN-2005
<u>V09287-05-0004</u>	WC3PQDR-S3-0002-05S	BAR, CATAPULT LAUNCH	CATIPQDR	Preliminary Report Approval	19-JAN-2005
<u>V09526-05-0001</u>		NP2000 PROPELLER SYSTEM	CATIPQDR	PQDR Record Closed	21-JAN-2005
<u>V55149-05-4001</u>		Navigational Switching Unit	CATIPQDR	Acknowledge Receipt	10-JAN-2005
078286-05-0004	WC2PQDR-H60-0007-05R	RECEIVER-TRANSMITTER RADIO	CAT II PQDR	Preliminary Report Approval	20-JAN-2005
078286-05-0005	WC2PODR-H60-0009-05R	ALTIMETER ENCODER	CATILEODE	Preliminan/ Report Approval	201AN-2005
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I/HMRs Submitted Report Details

nerated By: GS-15 Jeffrey S Allan on 24-JAN-2005 12:17

ecified Report Criteria: Date Range = '1-JAN-2005' to '31-DEC-2005'; Report Type = 'EI,HMR,HMR/EI'; Classification = 'S'

arch Results: 33

CN	FST	ICN	NOMENCLATURE	TYPE	SUBMITTING UNIT	EIR DATE	Last Step Completed	Date of Last Step	Reassign- ment	Re- addressal
<u> 19971-05-0003</u>	AES FST	WC2EI- AES- 0002- 05S	GUN ASSEMBLY, DROGUE	HMR/EI	VAQ-135	06-JAN-05	Exhibit Receipt	20-JAN-05		
1853-04-6002	ALRE Launcher FST		Repeatable Release Holdback Bar, F-18	HMR	USS Harry S Truman V-2 Division	18-JAN-05	Go / No Go Recommend Submitted	20-JAN-05		
44321-05-0001	AOS FST	WEIEI- AOS- 0005- 05S	OXYGEN MANIFOLD	EI	COMSTRKFIGHTWINGPAC DET AIMD	05-JAN-05	Preliminary Report Approval	19-JAN-05		
44321-05-0002	AOS FST	WEIEI- AOS- 0006- 05S	OXYGEN MANIFOLD	EI	COMSTRKFIGHTWINGPAC DET AIMD	05-JAN-05	Preliminary Report Approval	19-JAN-05		
44321-05-0005	AOS FST	WEIEI- AOS- 0008- 05S	OXYGEN MANIFOLD	EI	COMSTRKFIGHTWINGPAC DET AIMD	11-JAN-05	Preliminary Report Approval	19-JAN-05		
<u>99173-05-0001</u>	AOS FST	WEIEI- AOS- 0010-	VALVE, REGULATING, SYSTEM PRESSURE	HMR/EI	VP-65	14-JAN-05	Exhibit Shipped	20-JAN-05		
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🕗 Depar	tment of Transportation			Office of Pub	UNAPPROVED PARTS NOTIFICATION	2
Off	ice of Inspecto Rebuilt Parts Sold As	n Genei New		www.dot.gov/br		U.S. Depar of Transpo Federal / Administ
	Rebuilt Faits Sold The		FOR IMMEDIATE RELEASE Wednesday, July 7, 1999		UPNs are posted on the internet at http://www.faa.gov/avr/sups.htm	No. 2001 March 15
Item:	Supplier Pleads Guilty to Selling Substandard Mil	itary Helicopter Parts	Contact: Jeff Nelligan Telephone: (202) 366-6312		Published by: FAA, AFS-610, P.O. Box 26460, Oklahoma City, OK 73125	
Date:	March 4, 2002		OIG 11-99 FIRM, VICE-PRESIDENT PLEAD GUIL TY IN SUBSTANDARD AIRCRAFT PARTS CA		NFFECTED PARTS Assorted O-rings, seals, and gaskets manufactured for military aircraft. PURPOSE	
Туре:	Investigation		A Florida maker and distributor of aircraft hoses guilty to making false representations about the r made by the firm, the U.S. Department of Transp	regulatory conformance of products	The purpose of this notification is to advise all aircraft owners, operators, mai nanufacturers, and parts distributors regarding the manufacture of non-confor seals, Inc.	
Summary:	Gunter Kohlke, owner of Aircraft Components, Z pleaded guilty in U.S. District Court in New York substandard military helicopter parts to foreign co Arms Export Control Act. A middleman, Kohlke Mike Turner, president of Air Technology, in Nar	, NY, to selling untries in violation of the purchased parts from les FL, and resold them,	years in False Cortic	t for September, the firm has agreed to ndard parts and improve its quality sperations manager, faces up to five	ACCGROUND nformation received during a Defense Criminal Investigation Service suspect nvestigation revealed that L&T Seals, Inc. (CAGE Code 0ZF09), 319 West 1 troduced non-conforming O-rings, seals, and gaskets of various sizes and cos is having been manufactured to a military specification (MIL-SPEC). Further ome of the parts failed during use, and when tested, were found to be manufa the MIL-SPEC required that the parts be made of nitrile. however, testing dis f neoprene. After this disclosure, L&T Seals, Inc., ceased operation.	7 th Street, Galena, t. These parts we r investigation rev tetured using inco sclosed that the pa
	Sportmani of Sortation Differ of the Asalistant Secretary for Public Visability. D.C. 20380 http://www.dot.gov/briefing.htm	-2000 Kohlke told an aviation parts. In the re of \$107,000, the cost has Alay 14. OIG was aided	A fode and co hem a Administration are more than 6-8 years now more applications that are more than 6-8 years now more hoses carry aircraft fuel, oil or hydraulic fluid an The investigation also found that Air Pro had sub protective sleeves for certain hoses. Teflon is more temperatures of up to about 400 degrees, while p	d are parts critical for fight and can withstand water and the safety.	The following O-rings have been identified by Normal States and St	
Wetness Contact. (202) 366 OKG 8-89 STIEF SI IN STOL The Depa the senter armed rol A 12-yea resident of by a U.S. A second sentence "These a Inspecto because i not airwo how strii Costal es' informati parts in in buyers ab The fiele aircraft p Acrothmu robberies staten air The stole staten air The stole staten air	ENTENCES GIVEN TRAFFICKERS ENATRCRAFT PARTS atment of Transportation's Office of Inspector General (OIG) today announce ning of two trafficters in stolen aircraft parts, including same obtained by bbry, prison term and a fine of \$1.3 million were given to Jose Costales Vir. 32, a of Davie, Fla, followed by 3 years of supervised release. Costales was convid District Court in Florida. I defendat, Guy Salom, who pleated with reliable of the state was state scare, said state scare, said y serious nature Fake Certifications	d Item: Aviation Parts M Date: February 2, 2001 Type: Investigation Summary: Dan Massey, ow U.S. District Con halfway house for supervised releas critical applicatic commercial avial months' probatio parts were traced aviation business investigated this	tation Inspector Gene Parts fanufacturer and Owner Fined, Incarcerated	E January 9, 2002 E January 9, 2002 E Investigati to 56 months in pris District Court judge as approved parts. B Lear Jets were shipp General Electric Eng pleaded guilty in An scheduled for senter	Although produced for military aircraft produced by L&T S pplication. At the present time, there is no indication that the referenced part ave been installed on civil aircraft.	Seals, Inc., may ha ts produced by L&



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COMMERCE BUSINESS DAILY ISSUE OF J AWARDS	IULY 10, 2001 PSA #288	DCIS DCIS
15 SKIN, RIB ASSEMBLY, A	AIRCRAFT	Th anu Me a F CA
Notice Date July 6, 2001		vol lie
Contracting Office Supply Directorate, Contracting Departmen Point, NC 28533-0018 ZIP Code 28533-0018 Point of Contracting Department Characteristic Contracteristic Contracte	and Electro	onic o obser
28533-0018 Point of Control of C	& Whitney JT9D of repair, to inclu surface gouges or	and/or and J] de stag
Award Number M00146-01-M-9015 Award Date	and packaged for to sell the repaire	sale, w d blade
July 5, 2001 JOHN S. GORDON United States A florney Central District of California Thom Mrozek, Public Affairs Officer (213) 894-6947	Further in been observed on customers. Howe None of the other addition, when su	every ever, th UAE
April 4, 2002	Office	o f
T WO ORANGE COUNTY MEN INDICTED IN FRAUD SCHEME INVOLVING AIRCRAFT PARTS Two men were arrested today on federal fraud charges that allege false certifications concerning aircraft parts that they sold.	Item: Aircraft P	arts Ow
A federal grand jury in Santa Ana yesterday indicted Amanullah 1 Ziad Jamil Gammoh, 52, of Tustin, on charges of conspiracy and 1 parts. Khan was arrested this morning by federal agents, and Gam custody when he surrendered this morning at the United States Co	Date: May 22, 2	002
Both men are scheduled to make their initial court appearance this Khan and Gammoh operated United A ircraft & Electronics in An and sold aircraft parts. The indictment alleges that Khan and Gam	Type: Investigat	ion

Defense Criminal Investigative Service

Press Release

e Office of the Inspector General (OIG), Department of Defense (DoD), nounced today that on April 4, 2002, Amanullah Khan, a.k.a. "Wali erchant," was arrested subsequent to being indicted on April 3, 2002, by ederal grand jury within the Central District of California, Santa Ana, Fellow defendant, Ziad Jamil Gammoh, a k.a. "Al Gammoh," luntarily surrendered himself through his attorney on April 4, 2002, in arrested. The April 3, 2002, indictment charged each Khan

with one count of alleged conspiracy and nine counts of representing material facts regarding the sale of aircraft parts the Aircraft Safety Act of 2000.

rved during the search, that UAE was apparen surplus fan blades known to be components u [3D jet engines. These fan blades were in var ges wherein welded material had been added t s. Hundreds of fan blades, apparently refinish vere viewed next to documents indicating UA es back to commercial customers as if they we

ation disclosed that, to date, Oscar Munoz' sig CoC that UAE issued with parts destined for ere is no evidence that Oscar Munoz actually employees questioned had ever heard of Osca aed. UAE could not produce documentation a

Inspector Gen

mer Jailed for Violating Pretrial Order Regarding SU

The DOTIG and FBI investigation determined that, in or about August 2001, UAE delivered sixty "steel" grip assemblies (Bell-Textron part number 205-011-711-101) to a company called Turboanalisis, Inc., located in Phoenix, AZ. The grip assemblies connect the tail rotor to the hub on the Bell 205 helicopter, and are considered to be critical to flight safety. UAE included a CoC signed by "Oscar Munoz", UAE's quality control manager, as well as an FAA Form 8130-3. The DOTIG and FBI subsequently determined that the "grip assemblies" UAE supplied were, in fact, sixty surplus Bell-Textron part number 204-011-728, manufactured from "aluminum". Their investigation likewise determined that the FAA Form 8130-3 provided by UAE with the grip assemblies was a fabrication, and that UAE was a fictitious business formed by a college student named Tony

of United Aircraft ond time, in this business concernit first arrested on A craft parts used in lion bail after being A, on charges ertifications. A thir that Kahn sold the Force F-15 fighter ntil his scheduled t

The investigation also disclosed that Khan had previously been convicted during the early 1990s and served time in Federal prison for prior crimes involving Defense contracting fraud and tax evasion. As a result of that earlier conviction, the U.S. Air Force, in March 1995, officially debarred Khan from contracting with the U.S. Government until July 21, 2010.

If convicted of conspiracy, Khan and Gammoh each face



	No. of Debar Transactions : 1
Name:	United Aircraft & Electronics, I
Class:	Firm
Exclusion Type:	Reciprocal
Address:	1140 North Kraemer Ave, Anah
Action Date:	16-OCT-2002
Term Date:	07-JUL-2052



VICE CHIEF OF NAVAL OPERATIONS FAY COMPD COMPO

CDR AND TO: NAVSOF Phone number: J-717 Fax number. 1-717 Total number of pages (ir and the second second second second second Comments:

Doma, Anos, SAME DEIL AS LAST TIME. CAM WE PERASE Check OUR CONTRACES AND Then WORK WITH DIA TO. FLOURE OUT WHERE WE MANY HAVE THIS STUFF OUT IN THE FLEE GLES WE WELL HAVE TO

SEAD AMOTHER MARL SCIELA AS

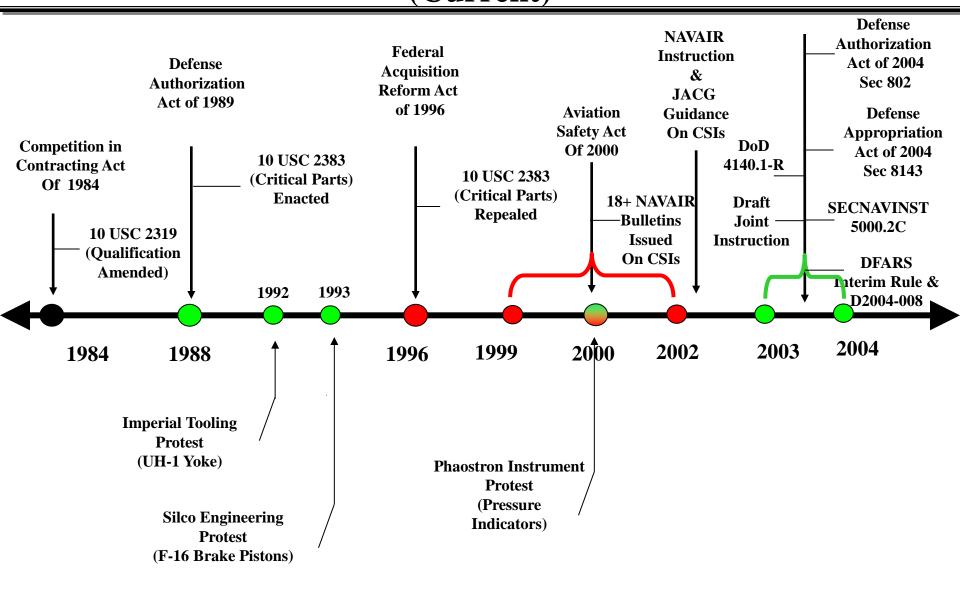


Aviation Critical Safety Items (Pre-2002)

ISSUES	Law	Policy & Regs
CSIs & Critical Characteristics Not Always Identified		Confusing
Different Qual Req's, Incomplete Approved Source List, & No Reciprocity		
Acquisition & Log Processes Not Bound By CSI Procedures	Counter	Counter
Defective Surplus CSIs Repurchased & Local Purchases Work-Arounds		Minimum
1-Time Mfg & Reverse Eng		
QA Requirements Waived or Ignored (QALIs, FAT, PLT)		Changing
Technical Changes (ECPs & Waivers) Approved Without Consultation		Counter
Technical Directives (e.g., Bulletins) Not Always Fully Followed		
Disposal Did Not Mutilate Defective/Suspect CSIs		
Management Oversight & Awareness Spotty		
Poor Notification By Suppliers of Safety Deficiencies In Delivered Products		



CSI Timeline (Current)





- Background:
 - Qualified Products List (QPL) For Critical Pressure Indicators
 - 2 Firms Listed on QPL ... Phaostron Was Listed
 - DSCR Contract Award to Unlisted Firm (AIC) in November 1999
 - Determined AIC Was Qualified And Should Be Added To QPL
 - Phaostron Protested Award As Improper
- GAO Determination (April 20, 2000):
 - "... applicable statute, 10 U.S.C. 2319 (1998) is designed to encourage competition ... by providing prospective offerors an enhanced opportunity to have their products qualified prior to award of a contract. To that end, the statute affords contracting officers the authority to find that a product meets (or will meet) a qualification requirement by the time of contract award, regardless of whether the item is listed on the QPL (10 U.S.C S 2319(c)(3); FAR 9.202(c). Nothing in statute limits the contracting officer's authority to approve a product for a procurement based on whether the product has been tested or approved by a particular entity."



10 U.S.C. 2319 "Encouragement of New Competitors"

10 U.S.C. 2319 (pertains to qualification req'ts after Oct 19, 1984):

- a) "... qualification requirement means a requirement for testing or other quality assurance demonstration that must be completed by an offeror before award of a contract"
- b) "... The head of the agency shall, before establishing a qualification requirement:"
 - 1) **Prepare written justification**
 - 2) Make all qualification requirements available to offers ... limited to least restrictive to meet purposes
 - 3) Estimate costs of testing & evaluation
 - 4) **Prompt opportunity to demonstrate ability**
 - 5) If testing provided under contract, use contractor not expected to benefit by results
 - 6) Advise offerors of results promptly
- c) ((3) "A potential offeror may not be denied the opportunity to submit and have considered an offer ... if the potential offer can <u>demonstrate to the satisfaction of the contracting officer</u> that the potential offeror or its product meets the standards established for qualification or can meet such standards before the date specified for award of the contract".
- (d)(2)(f) "Except in an emergency as determined by the head of the agency, whenever the head of the agency determines <u>not</u> to <u>enforce</u> a <u>qualification requirement</u> for a solicitation, the agency may <u>not therafter</u> <u>enforce</u> that qualification requirement <u>unless</u> the agency <u>complies</u> with the requirements of <u>subsection</u> <u>(b)</u>."



Aviation Critical Safety Items Policy, Regulation, & Statutory Initiatives

ISSUES	NAVAIRINST 4200.25D (June 02)	JACG CSI Guidance (August 2002)	Numbered DoD- Wide Instruction (Coordinated)	DoD Regulation 4140.1-R (May 03)	DFARS (Interim Rule)	P.L 108-136 (FY04 Auth Act Sec 802 (Nov 03)	SECNAV INST 5000.2C & Guides
ID CSIs & Critical Char's	K	K	\checkmark	V	K	K	K
Qual Req'ts, App'd Sources & Reciprocity	\mathbf{V}	\mathbf{V}	\checkmark	V	V	N	
Acquisition & Log Processes	V	R	\checkmark	V	V	V	V
Surplus CSIs & Local Purchases	\checkmark	\checkmark	\checkmark	\checkmark	Local Purch		
1-Time Mfg & Reverse Eng	V	R	\checkmark		Rev Eng		
QA Req'ts (QALIs, FAT, PLT)	V	R	\checkmark	\mathbf{V}			
Tech Changes (ECPs, W & Ds)	V	V	\checkmark	\checkmark	\mathbf{V}		
Tech Directives (e.g., Bulletins)	\checkmark	V	\checkmark				
Disposal	\mathbf{V}	Z	\checkmark	\checkmark			
Management	$\mathbf{\nabla}$	\mathbf{V}	\checkmark		\checkmark		
Notification of Safety/ Supplier Deficiencies			\checkmark		2004 -D008		

NAVIAL R QUALITY CONTROL IN PROCUREMENT OF AVIATION CRITICAL SAFETY ITEMS AND RELATED SERVICES. (P.L. 108-136, Sec 802 ... FY 2004 National Defense Authorization Act)

(a) QUALITY CONTROL POLICY.—The Secretary of Defense shall prescribe a quality control policy for the procurement of aviation critical safety items and the procurement of modifications, repair, and overhaul of such items.

(b) CONTENT OF POLICY.—The policy shall include the following requirements:

(1) That the head of the design control activity for aviation critical safety items establish processes to identify and manage aviation critical safety items and modifications, repair, and overhaul of such items.

(2) That the head of the contracting activity for an aviation critical safety item enter into a contract for such item only with a source approved by the design control activity in accordance with section 2319 of title 10, United States Code.

(3) That the aviation critical safety items delivered, and the services performed with respect to aviation critical safety items, meet all technical and quality requirements specified by the design control activity.

(c) DEFINITIONS.—In this section, the terms "aviation critical safety item" and "design control activity" have the meanings given such terms in section 2319(g) of title 10, United States Code, as amended by subsection (d).

(d) CONFORMING AMENDMENT TO TITLE 10.—Section 2319 of title 10, United States Code, is amended—

(1) in subsection (c)(3), by inserting after "the contracting officer" the following: "(or, in the case of a contract for the procurement of an aviation critical item, the head of the design control activity for such item)"; and

(2) by adding at the end the following new subsection:

"(g) DEFINITIONS.—In this section:

"(1) The term 'aviation critical safety item' means a part, an assembly, installation equipment, launch equipment, recovery equipment, or support equipment for an aircraft or aviation weapon system if the part, assembly, or equipment contains a characteristic any failure, malfunction, or absence of which could cause a catastrophic or critical failure resulting in the loss of or serious damage to the aircraft or weapon system, an unacceptable risk of personal injury or loss of life, an uncommanded engine shutdown that jeopardizes safety.

"(2) The term 'design control activity', with respect to an aviation critical safety item, means the systems command of a military department that is specifically responsible for ensuring the airworthiness of an aviation system or equipment in which the item is to be used.".



Interim DFARS Rule

Sept 17, 2004 Federal Register:

PART 209 CONTRACTOR QUALIFICATIONS

209.270 Aviation Critical Safety Items

209.270-3 Policy

- (a) Contracts only with Design Control Activity Approved Sources
- (b) Approval Authorities Specified in This Section Apply To CSIs

209-270-4 Procedures

(a) Design Control Activity Shall:

- (1) Approve Qualification Requirements
- (2) Qualify & ID Aviation CSI Suppliers and Products

(b) Contracting Officer Shall:

- (1) Ensure Design Control Activity Approves CSI Contractors
- (2) Refer Unapproved Sources to Design Control Activity

PART 246 QUALITY ASSURANCE

246.407 (S-70) Nonconforming Supplies or Services

Design Control Activity Approves --- May Delegate "Minors"

246.504 Certificate of Conformance

Design Control Activity Concurrence Required

NAVNAIRINST 4200.25D & Joint Guidance/Instruction

Application:

• All Aviation Programs (Acquisition and Repair/Overhaul)

Criticality Determination

- Service Design Control Activity Decision
 - Determining Factor Is Failure Consequence ... Not Probability

Sourcing

- Approved Sources Only ... 3-Year Re-Evaluation
- Source Approval Reciprocity Across Services
- Surplus Buys, Local Purchase, & Organic Mfg ... When Approved

Quality

- ECPs, Waivers, & Deviations Approved by Design Control Activity
 - Minors <u>may</u> be delgated
- Government Source QA Required
- Reverse Engineering As Last Resort

Disposal

• Mutilate Defective, Suspect, & Undocumented CSIs

NAVMAIR Aviation Critical Item Management "User's Guide"

<u>NEW *</u> Process Coverage Areas	NAVAIR ASQ Desktop Guide 1999	NAVAIR CIM Desktop Guide 2004	JACG DOD CSI Management Handbook**	
Checklist for CSI Determination		\mathbf{V}		
Detailed Service Process Flowcharts	\bigcirc	\checkmark		
Logistics Documentation of CSIs	\bigcirc	\checkmark		No Coverage
Organic CSI Manufacturing		\checkmark		Partial Coverage
1-Time Mfg & Reverse Eng	\bigcirc	\mathbf{V}		Guidance Coverage
Procedures/Checklists	—	\mathbf{V}		Planned
Manufacturing Capability Surveys	—	\checkmark		Coverage
Tie-in to DLA 339 System	\bigcirc	\checkmark		
Disposal		\checkmark		
Common Use Item Management				

Existing Comparable Coverage Areas Not Indicated * Will Only Address Aviation CSIs **