



Raytheon Company  
2501 W. University  
M/S 8024  
McKinney, TX 75070  
USA

8 September 2011

In Reply Refer to:  
11-40022-463-1310

Department of the Navy  
NAVSUP Weapon Systems Support  
700 Robbins Ave.  
Philadelphia, PA 19111-5098

ATTENTION: Ms. Kathy Andrews  
Contracting Officer

SUBJECT: Suspect Counterfeit Parts Notice

REFERENCE: (a) Contract N00383-03-D-006A-0008; AN/AAS-44 Performance Based Logistics (PBL)

Dear Ms. Andrews,

### SUMMARY

Raytheon Company has become aware of suspect counterfeit components used in five (5) Electro-Magnetic Interference (EMI) Filters (P/N 3169762-0001) having been sold to the US Navy as part of the AN/AAS-44(V) PBL program. These EMI Filters are used on the AN/AAS-44(V) FLIR Converter Control WRA2 (P/N 3154212-1). Of the five EMI Filters, three (3) have entered the AN/AAS-44(V) FLIR PBL supply chain, via recently repaired units out of FRCSE Jacksonville facility. The remaining two (2) EMI Filters have been quarantined, one at the Raytheon-McKinney facility and the other at the FRCSE-Jacksonville facility. Both EMI Filters are undergoing testing. This notice is being provided to the US Navy for information only. Raytheon does not recommend replacing these suspect counterfeit EMI Filters at this time.

### BACKGROUND

The EMI Filters, used on the AN/AAS-44(V) PBL program, are from Texas Spectrum Electronics (TSE). The suspect counterfeit component at issue, inside the EMI Filter, is a Fairchild MOSFET, part number [REDACTED], date code 0548. The five (5) EMI filters were supplied to Raytheon by TSE, under PO 4200275227 dated 09 June 2010. Around 24 January 2011, Raytheon received the five (5) EMI Filters ordered and subsequently shipped them to our third party logistics provider (AAR Defense Systems & Logistics) to support AN/AAS-44(V) PBL repairs at FRCSE – Jacksonville. Unbeknownst to Raytheon, around 19 JULY 2011, the Senate Armed Service Committee (SASC) identified TSE's component supplier, Technology Conservation Group Incorporated (TCGI), a parts broker, as having provided TSE with the suspect counterfeit Fairchild MOSFETs. On 15 August 2011, Raytheon was notified by TSE of the suspect counterfeit MOSFETs used in the EMI filters. Raytheon did a subsequent analysis of the status of the EMI Filters purchased and discovered that three (3) of them were incorporated into the AN/AAS-44(V) FLIR fleet via prior repairs out of FRCSE Jacksonville. It is our understanding, from TSE, that all suspect counterfeit EMI Filters passed acceptance testing at TSE, including vibration, burn-in, electrical testing, and inspection prior to shipment to Raytheon. Further, The WRA2's that shipped from FRCSE passed all Acceptance Testing prior to shipment after repairs were completed. Raytheon Quality Assurance is in the process of issuing a GIDEP alert regarding this incident. The two (2) remaining EMI Filters are now under Raytheon control and are quarantined. They will not enter the AN/AAS-44(V) repair supply chain. Their current status is as follows:

- EMI Filter S/N 0488 was shipped to Raytheon-McKinney on 31 August 2011 for further testing, and
- EMI Filter S/N 0489 was shipped to FRCSE-Jacksonville and is installed in a test asset to confirm laboratory testing of the suspect counterfeit part. The installation of the EMI filter in the test asset is to simulate the filter's performance and reliability at full system operation and to have the EMI filter undergo typical electrical loads and accrue operational hours to assess reliability performance.

The most current status of the suspect counterfeit EMI Filters is provided under **TABLE I**, below:

**TABLE I. SUSPECT COUNTERFEIT PARTS SHIPMENTS**

EMI SERIAL NO.	CURRENT STATUS	SHIP DATE	SHIP TO (DoDAAC)
0487	Shipped in WRA2 TKW00066	16 June 2011	U.S. Naval Station Mayport, FL (N60201)
0488	Pulled from inventory and quarantined	N/A	Resident at Raytheon-McKinney
0489	Removed and installed in lab asset for testing	N/A	Resident at FRCSE – Jacksonville under Raytheon control
0490	Shipped in WRA2 TKW00036	09 March 2011	Sasebo DET (SW3143)
0491	Shipped in WRA2 TKW00079	01 June 2011	HSL 60 Mayport (N60201)

At this time, Raytheon continues to assess the impact of the incorporation of these suspect counterfeit EMI Filters in the fielded systems. Should they fail, the Converter Control WRA may or may not fail. However, a failure of the Converter Control WRA will result in the Turret Unit (TU) to cease operation. There is no danger to crew or a safety of flight issues as a result of this issue.

**RECOMMENDATION**

This notice is being provided for information only. Until this issue is resolved, or test data indicate otherwise, Raytheon is not recommending a forced replacement of these suspect counterfeit EMI Filters at this time. As additional information is forthcoming, or should additional testing indicated a change in course, Raytheon will immediately so notify the US Navy.

If you have any additional questions, please do not hesitate to call [REDACTED] [w], [REDACTED] [c], or email at [REDACTED]@raytheon.com.

Regards,

**RAYTHEON COMPANY**  
Space and Airborne Systems



Daniel B. Forbes  
Manager, Contracts  
Intelligence, Surveillance, and Reconnaissance Systems (ISRS)