Packaging Information for Vendors	Engineer	Approved			
Hard Copies Uncontrolled. Verify Revision	K Sinders	D A Vorfaillia			
Prior to Use.	K. Shiders	D.A. venanne	D.A. Verfaillie		
omenclature	Part or Drawing No.	Date Revision			
General Vendor Packaging	PIV2000	17-Sep-19 M	[
nstructions:		Sheet No.			
		1 of 3			
I. <u>General Packaging Information</u>					
A. This specification is provided to inform	n vendors of Raytheon Systems C	Company's minimum packaging			
B The part shall be packaged in accorder	eded by any special requirements	6 instea on drawings of specifications.			
D. The part shall be packaged in accordant 1 . The latest revision of PIV	5012 covers the base packaging r	equirements			
2 This specification provides	s additional packaging requireme	nts and details beyond those covered			
in PIV6012	additional packaging requireme				
C. Failure to comply with the requirement	ts specified herein may result in a	rejection and return of consignment(s)			
to the supplier at their expense.					
D. For questions related to the application	n of this Packaging Information, p	blease contact the Raytheon Buyer.			
E. Any exceptions to this document must	be authorized by the Supplier Qu	ality Representative.			
II. <u>Definitions</u>					
A. Unit Container - The first container a	pplied to a single item or quantit	y thereof, or to a group of items of a			
single part number, which constitutes	s a complete or identifiable packa	age. The unit container should be			
overpacked for shipment unless the un	it container is specifically design	ed to provide shipping protection.			
B. Intermediate Container - A wrap, bo	x, bundle or assembly which con	tains two or more unit containers			
of identical items .					
C. Exterior Shipping Container - A con	itainer, bundle or assembly which	is sufficient by reason of material, desig	n an		
construction to protect material during	shipment and storage. This can	be the unit container or a container with	i any		
combination of unit or intermediate of	containers.				
A Cleaning - Items shall be clean and fr	a of contaminants Any process	may be utilized which will attain this con	nditi		
without damage to the items	te of contaminants. They process	may be utilized which will attain this col	luiti		
B. Drving - Items shall be thoroughly dri	ed to remove cleaning solutions of	or residue moisture by any process which	is n		
injurious to the items. The items must	be dry, both internally and exter	nally, if their configuration requires it.	10 11		
All entrapped cleaning fluid shall be co	ompletely drained from the items				
C. Preservation of Non-Electric Items -	Immediately after cleaning and	drying of items, a continuous coating of c	onta		
preservative shall be applied to bare fe	rrous items which require protect	tion against corrosion and deterioration.			
1. Unpainted and Unplated	${\bf Surfaces}$ of partially painted or	plated surfaces shall be coated.			
2. Completely Non-Ferrous	, Painted or Plated Items shall	not require preservation.			
(Examples: gold plate, silv	ver plate, cadmium plate, zinc pla	te, tin plate, stainless steel)			
3. Complex Items requiring	interior preservation shall be slos	shed, sprayed or dipped.			
a) Preservation sl	hall be applied in such a manner	as to insure complete coverage of			
both interior and	nd exterior surfaces.	· · · · · · · ·			
b) The preservation	on shall be thoroughly drained to	avoid entrapment of preservative,			
which could st	ibsequently damage the package.	the openings shall be seeled with ears	r nlu		
4 Castings or Forgings shall	linot be sealed by design features If he individually wrapped or sen	arated	i più		
5 Grease Fittings - Items su	ich as universal joints and flexibl	e cables that are equipped with grease fit	tings		
shall be preserved with gree	ease per MIL-PRF-10924	e custes that are equipped with grouse hit	ing		
6. Volatile Corrosion Inhib	itor (VCI) - In lieu of contact pro	eservation, bare ferrous items may be pro-	tecte		
with the following VCI ma	aterials:	,			
a) VCI treated tra	ansparent bags per MIL-DTL-220	020			
b) VCI treated tra	ansparent barrier material per MI	L-PRF-22019			
c) VCI treated with	rapping material per MIL-PRF-3	420			
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			Sheet NO.	2 of 3				
IV. Part Surface Protection								
A. Individual part protection is required if	grouping together mutiple items of the	se types (se	e list below	v, Section C)				
in the same unit container .								
B. Types listing a requirement for a heat s	ealed bag (see list below, Section C) m	ust either:						
1. Bag and heat seal the group of parts as a whole utilizing the bag specificed. If the item weighs over 1/2 pound,								
then the item must be indiv	idually bagged and heat sealed utilizing	g the bag sp	ecified.					
2. Individually bag and heat s	eal the parts utilizing the bag specified							
c. The following types of items shall be in	and a second s	oped in a no	n-tarnisning	g and non-adrasive				
1 Items weighing more than	1/4 pound							
1. Items weigning more than 1/4 pound a) Does not apply to hardware items (E.C., puts weakers, etc.)								
a) Does not apply to threaded bolts as long as bolts are restrained from movement								
c) Does not apply to raw stock material to be machined								
2. Items of a critical nature								
3. Painted or Plated Items which could be damaged by scratching or abrasion								
4. All precision finished items								
5. Precious Metal Items								
a) Wrapping Material: If individually wrapping items, utilize lens paper per A-A-50177								
or equivalent.								
b) All items of thi	s type shall be placed in a bag conform	ing to MIL-	DIL-11/, 0	Class E or F				
and heat sealed	to protect against tarnisning of corrost	on.						
0. The and Shver Flated Ren a) Wrapping Ma	terial. If individually wrapping items	utilize chem	nically neutr	ral (non-corrosive)				
wrapping pape	r conforming to MII -DTI -17667 Equ	ivalent nor	n-tarnishing	materials may be used				
b) All items of this type shall be placed in a bag conforming to MIL-DTL-117, Class E or F								
and heat sealed to protect against tarnishing or corrosion.								
c) If necessary to prevent tarnishing, desiccant shall be placed inside the bag, but not in direct contact								
with the parts.								
D. Silk-Screened Plexiglass Items should have a protective tape placed on the item surface. The tape should not leave								
benind a residue.								
A Fragile and Delicate Items shall be cu	shioned to prevent damage							
B. Blocking and Bracing of items within their shinning containers shall be accomplished by utilizing cushioning to prevent								
movement and damage.								
C. Cushioning shall conform to:								
1. Cellulosic Cushioning: A-A-1898								
2. Corrugated Fiberboard: ASTM D4727								
3. Flexible Closed Cell Plastic Film: PPP-C-795								
4. Foam Sheet: A-A-59135, Class 1 (polyethylene) or Class 2 (polypropylene), Grade A (standard) or								
Grade B (static dissipative)								
5. Polyeurylene Foam Flamk: A-A-39150, Type I, Class 1, Grade A (standard) or Grade B (static dissipative) 6. Paperboard Wrapping and Cushioning: A-A-1051								
7. Flexible Open Cell Plastic Film: A-A-3129 Type I Style R Class 2 Grade R								
8. Polyurethane Foam: MIL-PRF-26514, Type II. Clas 2. Grade B								
a) Foreign Object Debris (FOD) - Due to the nature of conductive polyurethane foam and								
ester polyurethane foam disintegrating over time to create FOD, they are <u>NOT ACCEPTABLE</u> .								
b) Ether polyurethane foam is <u>ACCEPTABLE</u> because it does not disintegrate over time.								
9. Semi-Rigid Foam-In-Bag: MIL-PRF-83671, Class 3								
10. 3-Ply Kraft Paper: A-A-59	311							

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General Vendor Packaging	PIV2000	17-Sep	o-19	Μ					
Instructions:		SI	heet No.	2 62					
VI. Unit Containor				3 of 3					
A Size - The size shall provide a spug fit for the item									
B. Separation - Items requiring separation from each other because of a delicate nature shall be backed in a compartmentized									
unit container to prevent shifting or movement of the items.									
C. Multiple Quantities - Containers with multiple quantities shall allow easy access to the individual parts without disturbing									
the remaining items.									
D. Maximums - When practical, the unit packages shall not exceed fifty (50) pieces or twenty-five (25) pounds, whichever									
cccurs first. One kit, one set or one par	occurs first. One kit, one set or one pair of items shall always be utilized as one (1) regardless of weight.								
E. Bulk items - The unit container quantity for bulk items shall be specified on the purchase order.									
separated from one another.	ship of items that come in matched sets	shun be puck	uged so us	to keep the sets					
G. Unit Containers shall conform to the f	ollowing, equivalent or better than:								
1. Folding Paperboard Box: F	PPP-B-566								
2. Set-up Box: PPP-B-676									
3. Heat Sealable Bag: MIL-D	TL-117								
4. Fiberboard Box: ASTM DS	5118								
A Use of intermediate containers are pref.	erred but not mandatory for large quant	ities of small	items						
B. Limitations	ened but not mandatory for large quant	ities of sinali	items.						
1. Quantity: one hundred (10	00) unit containers								
2. Weight: a maximum net lo	ad of forty (40) pounds								
3. Size: a maximum size of 1.	5 cubic feet								
C. Any remaining quantities over the above	ve restrictions shall be placed in the sma	allest containe	er which w	vill accommodate					
the unit packages.									
D. Intermediate containers shall conform to AS1M D5118.									
A. Exterior shipping containers shall be of a minimum size to contain the packages									
 B. Exterior shipping containers shall conform to the list of usable container specifications for shipping containers stated in the latest revision of PIV6012 									
C. Parcel Post Shipments - Containers shall conform to any container capable of meeting postal regulations. The container									
must be of sufficient strength to retain and protect its contents from the weight of other mail shipments.									
D. Palletized Loads									
1. Efficient Pallet Utilization - When four (4) or more exterior shipping containers (except skidded containers)									
are being shipped to the same destination, the pallet load will utilize eighty-five (85) percent of the pallet base									
2 Maximum Load Height -	The load shall not exceed a height of fo	orty-one (41) i	inches may	ximum, including					
the height of the pallet.	the height of the pallet.								
3. Balanced Loading - Containers which are stacked during shipment shall have the weight of the top container									
evenly distributed over the top of the lower container.									
IX. <u>Marking</u> - Per the latest revision of PIV6012									

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