

**BY ORDER OF THE COMMANDER  
552D AIR CONTROL WING (ACC)**

**COMBAT AIR FORCE INSTRUCTION  
21-105**



**552D AIR CONTROL WING**

**Supplement**

**20 FEBRUARY 2018**

**Maintenance**

**FABRICATION PROGRAM**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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(COL Brian Moore)

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**(552 ACW)** This supplement implements AFPD 21-1, Maintenance of Military Materiel, and supersedes 552 MXG\_OI\_21-105, Corrosion Prevention and Control (Nov 2013). It provides the minimal essential guidance and procedures for safely and effectively preventing and controlling aircraft corrosion. It applies to all 552d Air Control Wing units involved in aircraft corrosion prevention and control or related activities. This publication does not pertain to the Air National Guard and Air Force Reserve units unless operationally assigned to 552 ACW. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, Management of Records, and disposed of in accordance with Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). Contact supporting records managers as required. Refer recommended changes and questions about this publication to the OPR listed above using the AF Form 847, Recommendation for Change of Publication; route AF Forms 847 from the field through the appropriate chain of command.

**SUMMARY OF CHANGES**

This publication has been substantially revised and must be reviewed in its entirety. Major changes include: 552d Air Control Wing Corrosion Program Manager responsibilities with the addition of unit marking requirements, Wash Rack Facility Manager Responsibilities, Wash

Crew Supervisor responsibilities, AGE Flight Chief responsibilities and the deletion of Aircraft Maintenance Squadron (AMXS) responsibilities along with the addition of a Wash Crew Supervisor Checklist.

3.5.2.1.1. **(Added)** All Maintenance personnel will receive Corrosion Prevention and Control training initially during Mission Orientation as well as annually by completing Refresher Training and the Corrosion Control CBT at <https://367trss.hill.af.mil>.

3.5.2.2.1. **(Added)** Figure A2.1 of this supplement contains detailed instructions for completion of the shadowed E-3 tail markings pertaining to the 552 ACW/CC aircraft.

3.5.2.2.2. **(Added)** 552 ACW/CC aircraft will follow same style and size and the standard crew block with the following exceptions; the lettering will be all black with a white shadowing towards the aft of the aircraft. Furthermore, the titles will be changed as follows: Under the Commander's window left side will be the words "Wing Commander" followed by the Commander's name with rank. Under Pilot's window right side will be the words "Wing Vice Commander" followed by the Wing Vice Commander's name with rank. Dedicated Crew Chief and Assistant Dedicated Crew Chief titles and names remain the same.

3.5.2.3.1. **(Added)** Figure A2.2 of this supplement contains detailed instructions for completion of standard E-3 tail markings.

3.5.2.4.1. **(Added)** Figure A2.3 of this supplement contains instructions for completion of paint identification placard.

3.5.7.3. **(Added)** Conduct Wash Crew Supervisor training for appointed, experienced, qualified AMXS SSgt or above, using slide show found on the 552 ACW Wing Corrosion SharePoint.

3.5.11.1. **(Added)** Performs a yearly review of local corrosion training requirements.

3.7.3.1. **(Added)** The AMXS will provide an experienced/qualified SSgt or higher as the Wash Crew Supervisor. The wash crew will consist of eight AMXS personnel in addition to the Wash Crew Supervisor and eight MXS personnel assigned for no less than a 30-day rotation.

3.8.4.1. **(Added)** Will ensure ASM personnel are readily available for any questions in regards to supplies, safety, or facility.

3.8.4.2. **(Added)** Measure and annotate soap usage each month using the Wash Soap Tracker located on the 552 ACW Wing Corrosion SharePoint.

3.9.1.1. **(Added)** Obtain and follow "Wash Crew Supervisor Checklist" (Attachment 9) from Fabrication Flight Support personnel, also located online on the 552 ACW Wing Corrosion SharePoint.

3.9.7.1. **(Added)** Ensure engine cowlings are removed and presoaked prior to or during isochronal aircraft washes.

3.9.7.2. **(Added)** Ensure all engine cowlings and sailboats are thoroughly cleaned, and inspected for cleanliness prior to aircraft acceptance into the isochronal inspection process. Contact ASM 7 level to inspect and accept engine cowlings and sailboat cleanliness.

3.9.7.3. **(Added)** Ensure washes do not start until ambient temperature in the hangar is above 40 degrees Fahrenheit IAW T.O. 1-1-691, Par 3.5.2.6.

- 3.9.9. **(Added)** Turn in completed “Wash Crew Supervisor Checklist” to Fabrication Flight Support personnel.
- 3.11.8.1. **(Added)** AGE Flight Chief will ensure AGE personnel perform paint scores and corrosion inspections on all assigned equipment.
- 3.11.8.2. **(Added)** AGE Flight Chief will appoint an individual to schedule equipment.
- 3.11.8.2.1. **(Added)** Equipment scheduler will schedule AGE units needing corrosion control treatment based on a “worst is first” principle unless the equipment requires tone down procedures. The weekly corrosion difficulty level will not exceed a factor of “5.” In addition, all equipment arriving on station requiring the tone down procedures will be painted within the first 60 days.
- 3.11.8.2.2. **(Added)** AGE equipment scheduler will attend the weekly shared resources meeting when required to reserve hangar space for large units. Aircraft parts have priority and may cause a delay.
- 3.11.8.3. **(Added)** Ensure corrosion prevention and treatment of equipment is accomplished according to applicable technical directives. ASM personnel will provide corrosion treatment for AGE when such maintenance is beyond AGE personnel technical abilities.
- 3.11.8.4. **(Added)** Ensure all units identified for corrosion treatment are inspected on Thursday by ASM and delivered to building 289 the Friday/or last duty day of the week prior.
- 3.11.8.5. **(Added)** Ensure batteries are disconnected on all powered units prior to delivery for corrosion treatment.
- 3.11.8.6. **(Added)** Ensure units that were de-painted using blast media are opened and cleaned from all residual blast media, all blast tape is removed, and units are free from all dirt, oil, tape, and grease residue.
- 3.11.8.7. **(Added)** Ensure technicians remove or mask off all items not requiring paint.
- 3.11.8.8. **(Added)** Ensure a properly filled out AFTO Form 350 and printed IMDS 122 screen accompany the unit.
- 3.11.8.9. **(Added)** Ensure AGE personnel sign-out all equipment in Corrosion Control’s logbook prior to any unit being picked up.
- 3.11.8.10. **(Added)** Ensure AGE personnel complete all required stenciling.
- 3.11.8.11. **(Added)** Ensure AGE scheduler updates the age copy of the AGE Paint Evaluation Listing.
- 3.14.2.1. **(Added)** Local aircraft paint score work sheet is located at the 552 ACW Wing Corrosion SharePoint.

GEOFFREY F. WEISS, Col, USAF  
Commander

**Attachment 1****GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

**(Added)** T.O. 00-20-1, *Aerospace Equipment Maintenance Inspection, Documentation, Policy and Procedures*, 11 July 2016

**(Added)** T.O. 1E-3A-6WC-5, *Wash and Lubrication Workcards*, 01 October 2016

**(Added)** T.O. 1E-3A-2-7, *Ground Handling*, 01 May 2017

**(Added)** T.O. 1E-3A-23, *Corrosion Control*, 01 May 2017

***Prescribed Forms***

None

***Adopted Forms***

**(Added)** AF IMPT 2519, *All Purpose Checklist – Wash Crew Supervisor Checklist*

**(Added)** AFTO Form 350, *Reparable Item Processing Tag*

***Abbreviations and Acronyms***

**(Added)** **APECS**—All Purpose Environmental Clothing System

**(Added)** **CBT**—Computer Based Training

**(Added)** **MOF**—Maintenance Operations Flight

**(Added)** **MXG**—Maintenance Group

**(Added)** **MXS**—Maintenance Squadron

**(Added)** **PPE**—Personal Protective Equipment

**(Added)** **PS&D**—Plans, Scheduling, and Documentation

Attachment 2

AIRCRAFT MARKING SPECIFICATIONS

E-3

Figure A2.1. (Added) Example of 552 ACW/CC Aircraft Tail.

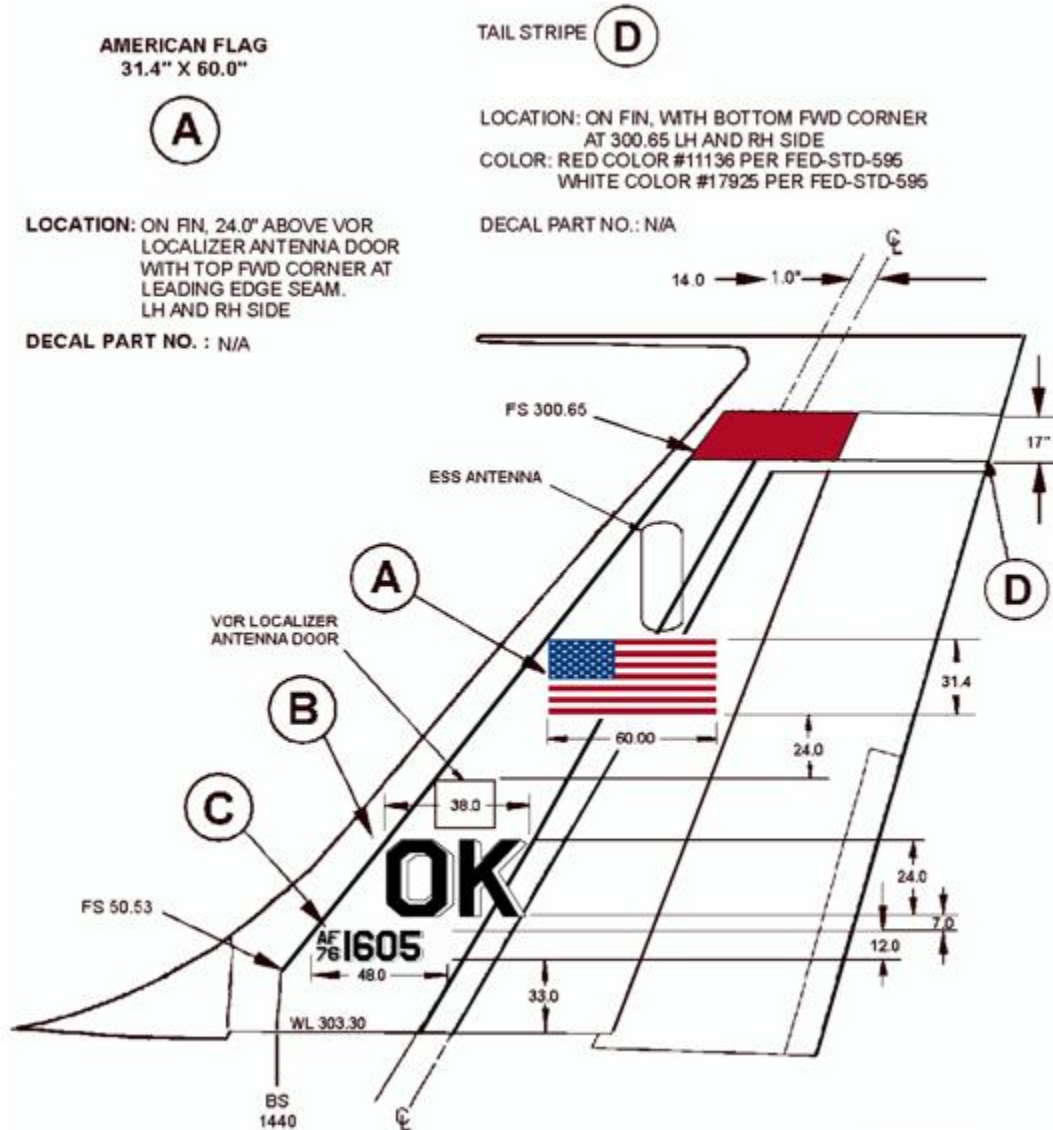


Figure A2.2. (Added) Example of Standard E-3 Tail Flash.

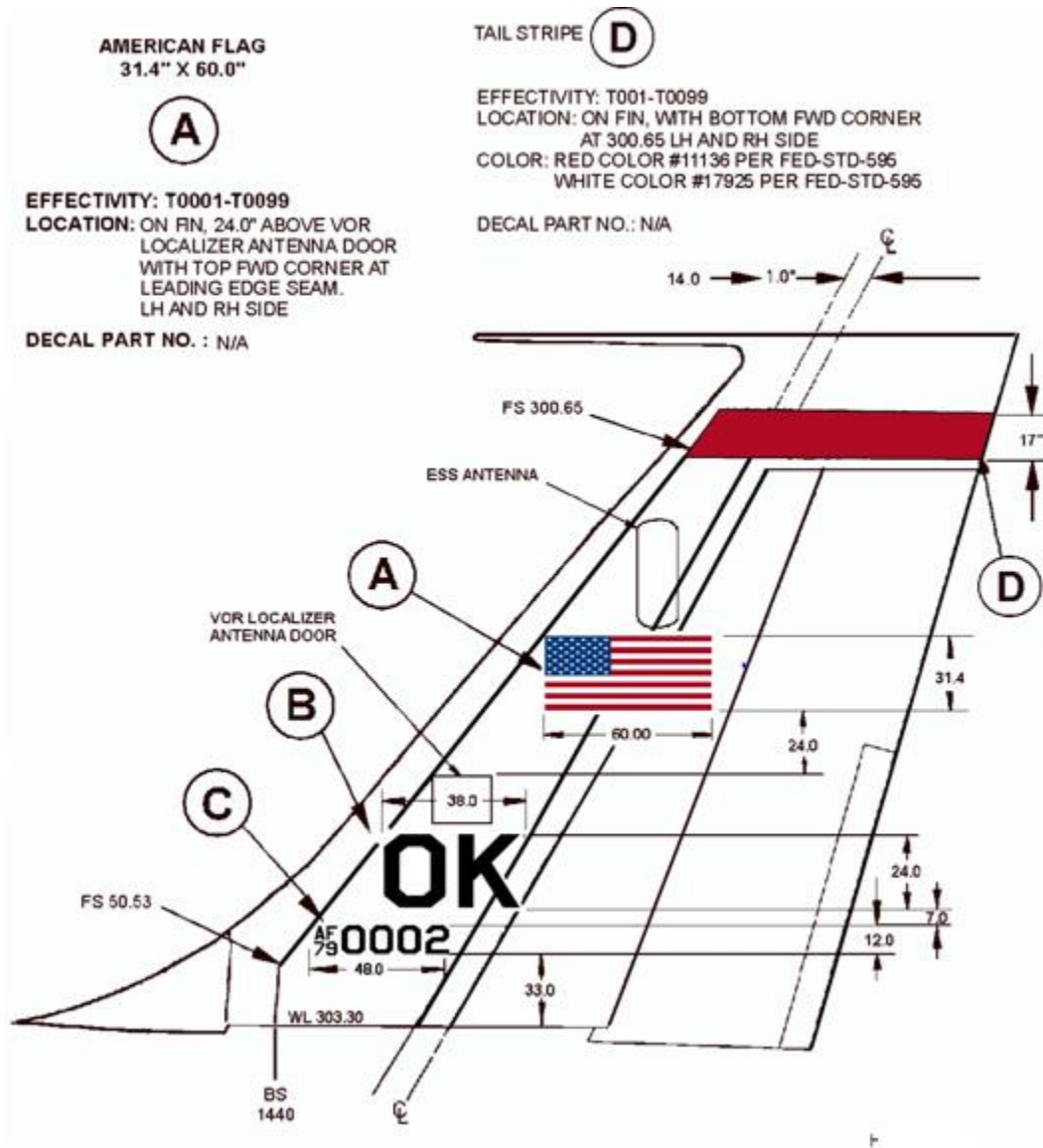
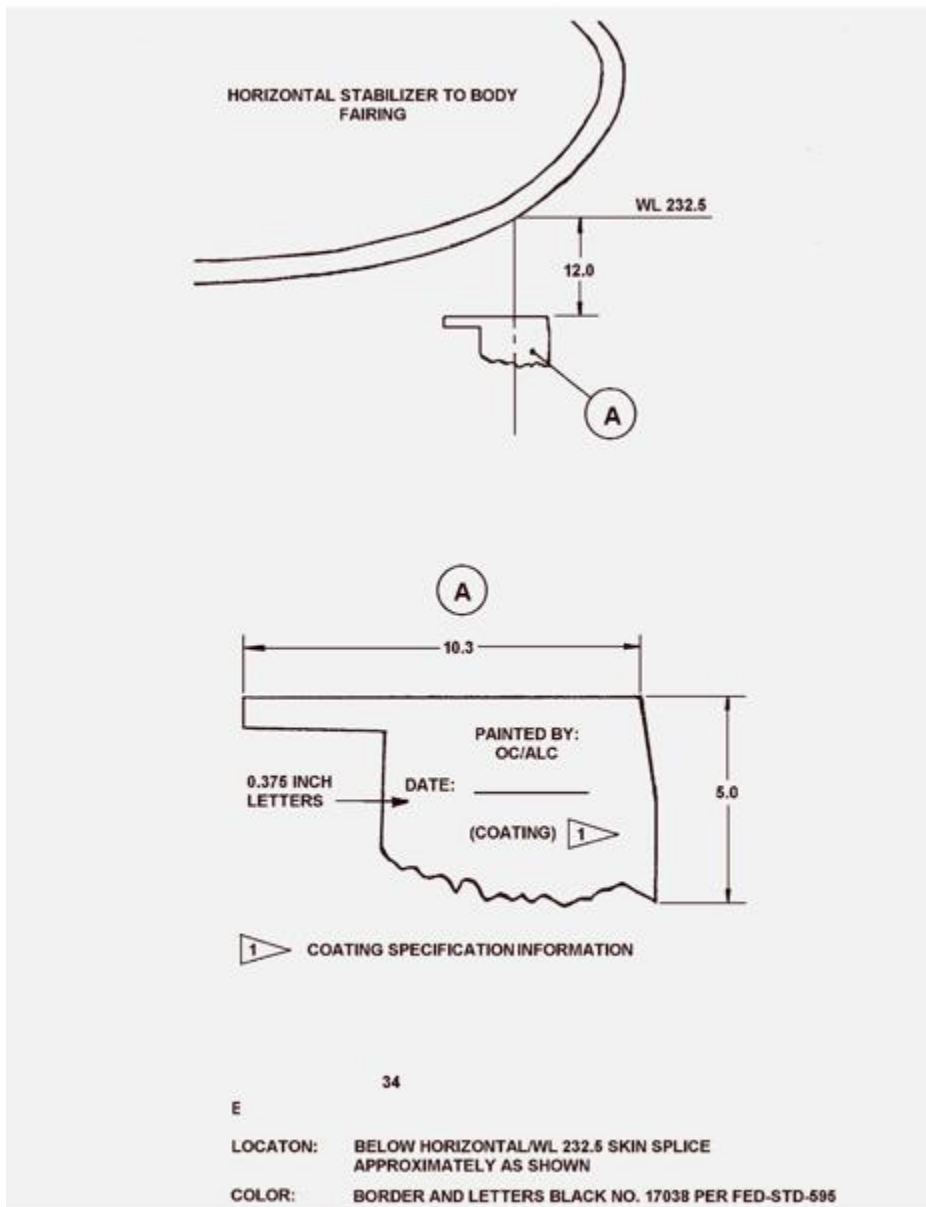


Figure A2.3. (Added) Example of E-3 Paint Identification Placard.



Attachment 9 (Added)

WASH CREW SUPERVISOR CHECKLIST

Figure A9.1. Wash Crew Supervisor Checklist.

ALL PURPOSE CHECKLIST		PAGE 1	OF 1	PAGES
TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA		OPR	DATE	
Wash Crew Supervisor Checklist		MXS		
NO.	ITEM <i>(Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)</i>	Yes	No	N/A
-----1. Prior to Wash-----				
a	Complete Wash Crew Supervisor Training on 552 ACW Corrosion Manager Sharepoint.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Ensure wash crews are task trained.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Provide daily safety briefings to crew.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Wash Supervisor must personally sign out CTK in Fabrication Flight Support Section.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Ensure all inventoried equipment is accounted for and serviceable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Sign off prior to use inspections (AFTO Form 244) on harnesses, soap foamers and maintenance stands.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g	Ensure all wash crew members possess required PPE in serviceable condition at the scheduled start time of the aircraft wash activity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h	Ensure that all wash gear is clean and dry prior to the wash crew donning their rain gear. NOTE: Gortex/APECS are not authorized PPE for aircraft wash.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i	Ensure only authorized aircraft cleaning chemicals IAW TO 1-1-691 ch. 3, and supplies provided by Aircraft Structural Maintenance are used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j	Verify aircraft forms have been documented and ensure all required warning tags have been installed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k	Verify serviceability of all wash rack equipment prior to use, i.e., water hoses, pumps, air hoses, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l	Verify the aircraft has been taped, plugged, and grounded and flight control locks have been installed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m	Ensure fall protection is serviceable and inspected prior to use, ref AFI 91-203.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
n	Ensure aircraft are properly grounded IAW TO 00-25-172.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
o	Ensure wash personnel are assigned to designated wash areas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
p	Ensure proper use of maintenance stands, i.e. wheels and castor swivels are locked and ram locks/pins are installed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-----2. During Wash-----				
a	Monitor the wash and be readily available to assist the wash crew with any problems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Ensure harnesses with lanyards are used by all personnel working on Universal Maintenance Stands and aircraft wings and that lanyards are attached to appropriate attach point/cable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Ensure proper safety equipment, PPE, and cleaning materials are available, serviceable and properly used IAW AFI 91-203 and TO 1-1-691.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Exclusively control the use of aircraft cleaning pads to wash crew members (one for one swap).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-----3. After Wash-----				
a	Notify the AMU Pro Super after the wash is completed to request a QA inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Notify the MXS Pro Super when the aircraft wash is complete and has passed final inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Ensure the wash dock area floor, maintenance stands, assigned AGE, and all equipment (including PPE) used during the wash are cleaned, rinsed, secured and properly stored.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Ensure all covers, buckets, face masks, brushes and boots are rinsed off prior to return to CTK.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Ensure all face masks are clean and wiped off prior to being hung up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Check stands and powered AGE for trash and debris.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g	Coordinate placement and removal of any additional AGE that is required to accommodate unusual situations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h	Ensure the wash dock and break area trash cans are emptied to include cleanliness of the authorized smoking area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i	Ensure the hallway, break areas, and restrooms are swept and mopped.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j	Spray excess soap and debris from hangar floor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k	Conduct FOD walk.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l	Contact Fabrication Flight Support personnel to turn in wash rack. Inspection will be performed by both the Wash Crew Supervisor and Fabrication Flight Support personnel.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m	Inform Fabrication Flight Support Section of any equipment/PPE discrepancies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



