

**BY ORDER OF THE COMMANDER
19TH AIRLIFT WING**

**LITTLE ROCK AIR FORCE BASE
INSTRUCTION 21-202**



16 JULY 2013

Maintenance

**AIRCRAFT HANGAR SAFETY AND DOOR
OPERATION**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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(Colonel Daniel R. Lockert)

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This instruction implements AFPD 21-1, Air and Space Maintenance, AFI 21-101, *Aerospace Equipment Maintenance Management*, AFI 91-203, *Air Force Consolidation Occupational Safety Instruction* and (contract personnel are exempt from AF Form 55 requirements). It establishes procedures and responsibilities to ensure standardization in qualification of individuals assigned to the 19th Airlift Wing, 314th Airlift Wing, and the 189th Airlift Wing who perform hangar door operation (HDO) procedures on the following facilities: Hangars 222, 223, 228, 245, 250, 255, 276, 280, and 282. This instruction will be used in conjunction with established AFIs. The use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with AFMAN 33-363, *Management of Records*, and disposed of in accordance with the Air Force Records Disposition Schedule (RDS) located at <https://www.my.af.mil/gcss-af61a/afirms/afirms/>. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Form 847s from the field through the appropriate functional's chain of command.

1. Policies. Personnel are not authorized to operate or perform hangar door procedures until all provisions, including documentation of proficiency training, have been completed. The 19th Maintenance Group Quality Assurance (QA) flight will be the overall OPR for this publication and it applies to all individuals assigned to the 19th Airlift Wing, 314th Airlift Wing, and the

189th Airlift Wing. The 314th MXG/CC will be responsible for the training and documentation of the 314 AW personnel, IAW AFI 21-101, AETCSUP1, AFI 91-202 AETCSUP1, and AFI 91-203. The 189 MXG/CC will be responsible for the training and documentation of the 189AW personnel, IAW ANGI 21-101, and AFI 91-203.

2. Responsibilities

2.1. Squadron commanders (through their respective operations officers, superintendents, and supervisors as needed) will:

2.1.1. Ensure all personnel comply with this instruction.

2.1.2. Identify personnel who are required to operate hangar doors in the performance of routine duties, ensure these personnel are properly trained and qualified to perform hangar door operations, and ensure the training is properly documented. This requirement applies to all organizations (except for 19th Civil Engineering Squadron (CES) personnel) and is not limited to the 19 MXG or maintenance AFSCs.

2.1.3. Decertify personnel who fail to meet minimum proficiency training standards for door operators.

2.1.4. Identify personnel who routinely work in hangars (regardless of AFSC or duties), ensure these personnel receive proper hangar door awareness training, and ensure the training is properly documented.

2.2. Building custodians will:

2.2.1. Be responsible for ensuring hangar door serviceability in accordance with AFI 91-203, *Air Force Consolidated Occupational Safety Instruction*. As a minimum, building custodians will:

2.2.2. Ensure requirements outlined in AFI 91-203 are maintained.

2.2.3. Notify 19 MOS/MTF or 314 MOS/MTF of any changes to safety or operating procedures for their assigned hangar doors so the MTF can update the lesson plan and other training curriculum as necessary.

2.2.4. Provide a readily accessible location and maintain aircraft Hangaring/De-hangaring checklist AF IMT Form 2519 (approved by 19 MXG/QA and 19 CES), for their respective hangars, and post the checklists at each hangar door control panel (electrical controlled) or on the most utilized door on manually operated doors.

2.3. Hangar door operators will:

2.3.1. Operate only those hangar doors for which they are trained.

2.3.2. Operate each hangar IAW its attached checklist.

2.3.3. Ensure the hangar door tracks are FOD-free before operating the doors.

2.3.4. Immediately notify the 19th MOS (MOC) after discovering any hangar door discrepancy.

2.3.5. Report all hangar door discrepancies (in writing) to the respective facility manager and their squadron safety office not later than one duty day after the discrepancies are discovered.

2.3.6. Not operate any powered hangar doors in manual mode, unless properly trained.

3. Training

3.1. Maintenance personnel who routinely work in hangars must receive hangar door awareness training. Hangar door awareness training is provided during Block Training.

3.2. Maintenance personnel who are required to operate hangar doors in the performance of routine duties must be trained and certified to perform hangar door operations. Hangar door operator training is conducted IAW the, *Hangar Door Operation Training Program*, using the respective hangar door checklist. This training will adhere to the 19 MOS/MTF and 314 MOS/MTF plan of instruction. Hangar door operation will have its own G081 Course Code for each type of door.

3.3. Maintenance personnel who perform hangar door operation will receive annual awareness training during Block Training as a refresher and to identify any changes to safety or operating procedures.

3.4. Contract personnel who are required to operate hangar doors to fulfill their contractual duties will receive training from the government after award of the contract and prior to initiating work in hangar facilities. The Chief, Quality Assurance Evaluator for the awarded contract is responsible for arranging this training through the contracting officer and 19 MOS/MTF prior to the start of work in hangar facilities.

3.5. Only authorized personnel certified and appointed to conduct hangar door training will do so.

3.6. Guidance for manual operation of powered hangar door operation will be given to 19 MOS/MTF by CE. CE will also provide guidance on manual hangar door operation for the AF Form 2519 Hangar Door Operation Procedures Checklist for all types of hangar doors.

4. Hangar Door Operation

4.1. Only the checklist identified for that specific hangar door will be used to operate that respective hangar door.

4.2. All overhead hangar doors will be fully opened before aircraft are moved through the door entrance (Hangar 222N/S overhead tail doors only need to be opened if the HF long wires are installed). Horizontal sliding doors will be completely opened for maximum clearance at each wingtip. Follow additional applicable guidelines in AFI 91-203.

4.3. If a powered hangar door fails to operate properly, the door operator will inform the MOC of the problem.

4.4. Only 19 CES personnel, and personnel trained by them may manually operate powered hangar doors. The doors must be determined safe to operate, in manual mode, before opening.

BRIAN S. ROBINSON, Col, USAF
Commander

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

Air Force and MAJCOM Supplements and Local Instructions

AFI 91-203, *Air Force Consolidated Occupational Safety Instruction*, 15 Jun 2012

AFI 21-101, *Aerospace Equipment Maintenance Management*, 26 Jul 2010

AFMAN 33-363, *Records Management*, 1 March 2008

AETC 21-101, *Aerospace Equipment Maintenance Management*, 21 Oct 2010

Prescribed Forms

None

Adopted Forms

AF Form 55, *Employee Safety and Health Record*

AF Form 2519, *Manual Hangar Door Operation Procedures Checklist*

AF Form 2519, *Powered Hangar Door Operation Procedures Checklist*

AF Form 2519, *Powered Hangar Door Operation Procedures Checklist*

AF Form 2519, *Powered Hangar Door Operation Procedures Checklist*

AF Form 2519, *Manual Hangar Door Operation Procedures Checklist*

AF Form 2519, *Manual Hangar Door Operation Procedures Checklist*

AF Form 2519, *Hangaring Checklist*

AF Form 2519, *De-hangaring Checklist*

Abbreviations and Acronyms

AETCI—Air Education Training Command Instruction

AFI—Air Force Instruction

AFOSH—Air Force Occupational Safety

LRAFBI—Little Rock Air Force Base Instruction

MXG—Maintenance Group

Attachment 2

AF FORM 2519, MANUAL HANGAR DOOR OPERATION PROCEDURES
CHECKLIST (OVERPRINT)

| ALL PURPOSE CHECKLIST | | PAGE | 1 | OF | 1 |
|---|--|-----------|------|----|---|
| TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA | | OPR | DATE | | |
| Buildings 222 N/S, 245, 255 N/S Hangar Door Operation Procedures | | 19 MXG/QA | | | |
| NO. | ITEM (Assign a paragraph number to each item. Draw a horizontal line between each major) | YES | NO | NA | |
| | <p>Only authorized personnel are permitted to operate hangar doors. All personnel will adhere to the following operating procedures when opening or closing the hangar doors at building 222N/S, 245, 255 N/S.</p> <p>1 Inspect hangar door tracks for obstructions, debris and foreign objects</p> <p>2 Inspect for obstructions on outside of hangar doors.</p> <p>3 Make certain all emergency exit (personnel) doors are fully closed.</p> <p>4 Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points).</p> <p>5 Ensure all personnel in hangar are aware that doors will be opening or closing.</p> <p style="text-align: center;">CAUTION CONFORMED DOORS MAY CAUSE AIRCRAFT DAMAGE, ENSURE DOORS NOT IN USE ARE PLACED IN FULL OPEN POSITION</p> <p style="text-align: center;">WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH</p> <p style="text-align: center;">CAUTION WHEN MAIN HANGAR DOORS ARE TO BE OPENED FOR OTHER THAN AIRCRAFT, MAINTAIN A MINIMUM 10 FEET CLEARANCE</p> <p>6 Alert personnel that you are starting opening or closing operations.</p> <p style="text-align: center;">CAUTION USE EXTREME CAUTION WHEN APPROACHING AIRCRAFT OR HANGAR DOOR STOPS(PINCH POINTS ARE IDENTIFIED BY YELLOW AND BLACK STRIPES)DO NOT EXCEED ½ WALKING SPEED</p> <p>7 When moving hangar door, push or pull the doors to desired position while maintaining a minimum of 10 feet clearance (minimum 10 feet clearance marked on the hangar floor).</p> <p>NOSE DOCK DOORS</p> <p>1 When moving hangar door, push or pull the doors to desired position (1/2 walking speed maximum).</p> <p>2 Open or close door fully, or stop as needed.</p> <p>3 When personnel use nose dock door for entrance or exit, door WILL BE opened a minimum of 10 feet clearance.</p> <p>If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19 MOS (MOC).</p> | | | | |

Attachment 3

**AF FORM 2519, POWERED HANGAR DOOR OPERATION PROCEDURES
CHECKLIST (OVERPRINT)**

| ALL PURPOSE CHECKLIST | | PAGE | 1 | OF | 1 |
|--|--|------------------|------|----|---|
| TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA | | OPR 19 MXG/QA | DATE | | |
| Buildings 228 and 233 Hangar Door Operation Procedures | | | | | |
| NO. | ITEM (Assign a paragraph number to each item. Draw a horizontal line between each major) | YES | NO | NA | |
| | <p>Only authorized personnel are permitted to operate hangar doors.</p> <p>All personnel will adhere to the following operating procedures when opening or closing the hangar doors at building 228, 233.</p> <p>1 Inspect hangar door tracks for obstructions, debris and foreign objects</p> <p>2 Inspect for obstructions on outside of hangar doors.</p> <p>3 Make certain all emergency exit (personnel) doors are fully closed.</p> <p>4 Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points).</p> <p>5 Ensure all personnel in hangar are aware that doors will be opening or closing.</p> <p style="text-align: center;">WARNING STOP OPERATION IF HORN DOES NOT SOUND!</p> <p style="text-align: center;">WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH</p> <p style="text-align: center;">CAUTION WHEN MAIN HANGAR DOORS ARE TO BE OPENED FOR OTHER THAN AIRCRAFT, MAINTAIN A MINIMUM 10 FEET CLEARANCE</p> <p>6 Alert personnel that you are starting opening or closing operations.</p> <p style="text-align: center;">CAUTION USE EXTREME CAUTION WHEN APPROACHING AIRCRAFT OR HANGAR DOOR STOPS(PINCH POINTS ARE IDENTIFIED BY YELLOW AND BLACK STRIPES)DO NOT EXCEED ½ WALKING SPEED</p> <p>7 Depress and hold OPEN or CLOSE button (warning horn sounds for approximately 5 seconds before door will start travel). Select appropriate directional switch for door travel for OPENING and CLOSING the doors.</p> <p>8 Allow doors NO# 1 and NO#2 to open or close to desired position then release control button.</p> <p>9 Allow doors NO# 1 and NO#2 to open or close to desired position then release control button.</p> <p>10 Door #3 must be fully open (above RED indicator line) before moving aircraft in or out of the hangar.(Only applicable for hangar 228).</p> <p>11 If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19 MOS (MOC).</p> | | | | |

Attachment 4

**AF FORM 2519, POWERED HANGAR DOOR OPERATION PROCEDURES
CHECKLIST (OVERPRINT)**

| ALL PURPOSE CHECKLIST | | PAGE | | 1 | OF | 1 |
|---|---|-----------|----|------|----|---|
| TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA | | OPR | | DATE | | |
| Building 250 Hangar Door Operation Procedures | | 19 MXG/QA | | | | |
| NO. | ITEM (Assign a paragraph number to each item. Draw a horizontal line between each major) | YES | NO | NA | | |
| | <p>Only authorized personnel are permitted to operate hangar doors. All personnel will adhere to the following operating procedures when opening or closing the hangar doors at building 250.</p> | | | | | |
| 1 | Inspect hangar door tracks for obstructions, debris and foreign objects | | | | | |
| 2 | Inspect for obstructions on outside of hangar doors. | | | | | |
| 3 | Ensure safety edge and personnel door warning lights are not illuminated. | | | | | |
| | <p>WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH</p> | | | | | |
| 4 | Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points which are identified by yellow and black stripes). | | | | | |
| | <p>WARNING STOP OPERATION IF HORN DOES NOT SOUND! ALERT HANGAR PERSONNEL, USE A SAFETY OBSERVER AND PROCEED WITH CAUTION</p> | | | | | |
| 5 | Operate only one door at a time per individual. | | | | | |
| 6 | Depress both buttons for hangar door operation. | | | | | |
| 7 | Open doors until clear of red marks on floor to ensure maximum clearance for aircraft towing. (Doors must be opened at least 10 feet when moving equipment, supplies etc. in and out of hangar). | | | | | |
| 8 | Release both buttons when hangar doors reached desired position. | | | | | |
| 9 | When closing hangar doors ensure the yellow lines on hangar doors are aligned with yellow marks on hangar floor. | | | | | |
| 10 | If hangar doors do not operate, contact (7-5152) or Mike 1 for assistance. | | | | | |
| 11 | If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19th MOS (MOC). | | | | | |
| | <p>WARNING DO NOT MOVE DOORS WITH A VEHICLE OR ANOTHER DOOR. THIS COULD CAUSE DAMAGE TO THE SAFETY EDGE OR THE DRIVE TRAIN OF THE HANGAR DOOR.</p> | | | | | |

Attachment 5

AF FORM 2519, POWERED DOOR OPERATION PROCEDURES CHECKLIST
(OVERPRINT)

| ALL PURPOSE CHECKLIST | | PAGE | 1 | OF | 1 |
|---|--|------------------|------|----|---|
| TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA | | OPR 19 MXG/QA | DATE | | |
| Building 276 Hangar Door Operation Procedures | | | | | |
| NO. | ITEM (Assign a paragraph number to each item. Draw a horizontal line between each major) | YES | NO | NA | |
| | <p>Only authorized personnel are permitted to operate hangar doors. All personnel will adhere to the following operating procedures when opening or closing the hangar doors at building 276.</p> <p>1 Inspect hangar door tracks for obstructions, debris and foreign objects</p> <p>2 Inspect for obstructions on outside of hangar doors.</p> <p>3 Ensure safety edge and personnel door warning lights are not illuminated.</p> <p style="text-align: center;">WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH</p> <p>4 Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points which are identified by yellow and black stripes).</p> <p style="text-align: center;">WARNING STOP OPERATION IF HORN DOES NOT SOUND! ALERT HANGAR PERSONNEL, USE A SAFETY OBSERVER AND PROCEED WITH CAUTION</p> <p>5 Operate only one door at a time per individual.</p> <p>6 Depress both buttons for hangar door operation.</p> <p>7 Open doors until clear of red marks on floor to ensure maximum clearance for aircraft towing. (Doors must be opened at least 10 feet when moving equipment, supplies etc. in and out of hangar).</p> <p>8 Release both buttons when hangar doors reached desired position.</p> <p>9 When closing hangar doors ensure the yellow lines on hangar doors are aligned with yellow marks on hangar floor.</p> <p>10 If hangar doors do not operate, contact (7-5152) or Mike 1 for assistance.</p> <p>11 If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19 MOS (MOC).</p> <p style="text-align: center;">WARNING DO NOT MOVE DOORS WITH A VEHICLE OR ANOTHER DOOR. THIS COULD CAUSE DAMAGE TO THE SAFETY EDGE OR THE DRIVE TRAIN OF THE HANGAR DOOR.</p> | | | | |

Attachment 6

AF FORM 2519, MANUAL HANGAR DOOR OPERATION PROCEDURES
CHECKLIST (OVERPRINT)

| ALL PURPOSE CHECKLIST | | PAGE | 1 | OF | 1 |
|---|---|---------------|------|----|---|
| TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA | | OPR 19 MXG/QA | DATE | | |
| Building 280 Hangar Door Operation Procedures | | | | | |
| NO. | ITEM (Assign a paragraph number to each item. Draw a horizontal line between each major) | YES | NO | NA | |
| | <p>Only authorized personnel are permitted to operate hangar doors. All personnel will adhere to the following operating procedures when opening or closing the hangar doors at building 280.</p> <p>1 Inspect hangar door tracks for obstructions, debris and foreign objects</p> <p>2 Inspect for obstructions on outside of hangar doors.</p> <p>3 Make certain all emergency exit (personnel) doors are fully closed.</p> <p>4 Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points).</p> <p>5 Ensure all personnel in hangar are aware that doors will be opening or closing.</p> <p style="text-align: center;">WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH</p> <p style="text-align: center;">CAUTION WHEN MAIN HANGAR DOORS ARE TO BE OPENED FOR OTHER THAN AIRCRAFT, MAINTAIN A MINIMUM 10 FEET CLEARANCE</p> <p>6 Alert personnel that you are starting opening or closing operations.</p> <p style="text-align: center;">CAUTION USE EXTREME CAUTION WHEN APPROACHING AIRCRAFT OR HANGAR DOOR STOPS(PINCH POINTS ARE IDENTIFIED BY YELLOW AND BLACK STRIPES)DO NOT EXCEED ½ WALKING SPEED</p> <p>7 When moving hangar door, push or pull the doors to desired position while maintaining a minimum of 10 feet clearance (minimum 10 feet clearance marked on the hangar floor). NOSE DOCK DOORS</p> <p>When moving hangar door, push or pull the doors to desired position (1/2 walking speed maximum).</p> <p>1 Open or close door fully, or stop as needed.</p> <p>2 When personnel use nose dock door for entrance or exit, door WILL BE opened a minimum of 10 feet clearance.</p> <p>3 If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19 MOS (MOC).</p> | | | | |

Attachment 7

**AF FORM 2519, MANUAL HANGAR DOOR OPERATION PROCEDURES
CHECKLIST (OVERPRINT)**

| ALL PURPOSE CHECKLIST | | PAGE | | 1 | OF | 1 |
|---|--|------------------|----|------|----|---|
| TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA | | OPR 19 MXG/QA | | DATE | | |
| Building 282 Hangar Door Operation Procedures | | | | | | |
| NO. | ITEM (Assign a paragraph number to each item. Draw a horizontal line between each major) | YES | NO | NA | | |
| | <p>Only authorized personnel are permitted to operate hangar doors.</p> <p>All personnel will adhere to the following operating procedures when opening or closing the hangar doors at building 282.</p> <p>1 Inspect hangar door tracks for obstructions, debris and foreign objects</p> <p>2 Inspect for obstructions on outside of hangar doors.</p> <p>3 Make certain all emergency exit (personnel) doors are fully closed.</p> <p>4 Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points).</p> <p>5 Ensure all personnel in hangar are aware that doors will be opening or closing.</p> <p style="text-align: center;">WARNING STOP OPERATION IF HORN DOES NOT SOUND!</p> <p style="text-align: center;">WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH</p> <p style="text-align: center;">CAUTION WHEN MAIN HANGAR DOORS ARE TO BE OPENED FOR OTHER THAN AIRCRAFT, MAINTAIN A MINIMUM 10 FEET CLEARANCE</p> <p>6 Alert personnel that you are starting opening or closing operations.</p> <p style="text-align: center;">CAUTION USE EXTREME CAUTION WHEN APPROACHING AIRCRAFT OR HANGAR DOOR STOPS (PINCH POINTS ARE IDENTIFIED BY YELLOW AND BLACK STRIPES) DO NOT EXCEED ½ WALKING SPEED</p> <p>7 Depress and hold OPEN or CLOSE button (warning horn sounds for approximately 5 seconds before door will start travel). Allow doors to open or close to desired position then release control button. Doors will stop when the OPEN or CLOSE limit switch is tripped</p> <p>11 If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19 MOS (MOC).</p> | | | | | |

Attachment 8
HANGAR CHECKLIST

| ALL PURPOSE CHECKLIST | | Page | 1 | OF | 2 |
|---|---|------------------|------|----|---|
| TITLE/SUBJECT/ACTIVITY/FUNCTION AREA HANGAR AND DEHANGAR CHECKLIST Hangars (HGR) 222 N/S, 228, 233, 245,235, 250, 255 N/S, 276, 280 and 282 | | OPR 19 MXG/QA | DATE | | |
| <p>WARNING: ACCOMPLISH THE FOLLOWING I.A.W. APPLICABLE TECHNICAL DATA BEFORE ANY MAINTENANCE ACTION IS PERFORMED ON THE AIRCRAFT:</p> <p style="text-align: right;">AIRCRAFT TAIL #:</p> <p>_____ OWNING AMU _____ DATE/TIME _____</p> <p>TOW SUPERVISOR _____ PARKING LOCATION _____</p> | | | | | |
| | HANGARNG | EMP NO. | | | |
| 1 | DISCONNECT AND STOW HF LONG WIRES AS REQUIRED FOR MAINTENANCE. | | | | |
| 2 | FULLY OPEN HANGAR DOORS - QUALIFIED PERSONNEL ONLY. IF DOORS WILL NOT OPEN, NOTIFY THE 19TH MOS (MOC). | | | | |
| 3 | MOVE OVERHEAD FALL RESTRAINT HARNESS REELS AS NECESSARY TO PREVENT CONTACT WITH AIRCRAFT. | | | | |
| 4 | CONNECT FORE AND AFT GROUNDING WIRES, AND INSTALL WHEEL CHOCKS. | | | | |
| 5 | INSTALL ALL PROTECTIVE COVERS; ENGINE, AIR CONDITIONING, PITOT, ETC. | | | | |
| 6 | POSITION DRIP PANS UNDER ALL ENGINES. (N/A TO WASH RACK) | | | | |
| 7 | ROTATE ENGINE PROPELLERS WITH THE #1 BLADE AT 12 O'CLOCK POSITION (N/A FOR C-103J). ENSURE PROPELLERS IN HGR DO NOT COME IN CONTACT WITH SUSPENDED AIR DUCTS. | | | | |
| 8 | IN HANGARs 222 N/S, 228, 245, 255 N/S, 280, AND 282. CLOSE CARGO RAMP AND DOOR. DEACTIVATE AND LOCK OUT SYSTEM AND ATTACH WARNING TAGS. | | | | |
| 9 | MOOR AIRCRAFT TAIL AND NOSE WHERE POSSIBLE (HANGARs 222 N/S, 245, 255 N/S, AND 280). | | | | |
| 10 | CLOSE THE GTC/APU DOOR | | | | |
| 11 | J-MODEL ONLY: PULL ECB 403. ALL AIRCRAFT, EXTINGUISH EMERGENCY LIGHTS | | | | |
| 12 | DEplete ALL HYDRAULIC PRESSURE FROM BRAKE ACCUMULATORS. | | | | |
| 13 | DISCONNECT AIRCRAFT AND SCNS BATTERY FOR FUEL CELL MAINTENANCE, WASH RACK OR PAINT. ATTACH WARNING TAG. ENTER ALL APPROPRIATE DISCREPANCIES IN THE AFTO 781 SERIES FORMS. | | | | |
| 14 | ENSURE HANGAR DOORS ARE CLOSED BY QUALIFIED PERSONNEL. | | | | |
| 15 | INSPECT FOR AND REMOVE F.O. AROUND AIRCRAFT. | | | | |
| 16 | PLACE THIS CHECKLIST IN FRONT OF AIRCRAFT FORMS BINDER. | | | | |

Attachment 9

DE-HANGAR CHECKLIST

| ALL PURPOSE CHECKLIST | | Page | 2 | OF | 2 |
|--|--|------------------|------|----|---|
| TITLE/SUBJECT/ACTIVITY/FUNCTION AREA HANGAR AND DE-HANGAR CHECKLIST | | OPR 19 MXG/QA | DATE | | |
| Hangars (HGR) 222 N/S, 228, 233, 245,235, 250, 255 N/S, 276, 280 and 282 | | | | | |
| WARNING: ACCOMPLISH THE FOLLOWING I.A.W. APPLICABLE TECHNICAL DATA BEFORE ANY MAINTENANCE ACTION IS PERFORMED ON THE AIRCRAFT: | | | | | |
| AIRCRAFT TAIL #: _____ OWNING AMU _____ DATE/TIME _____ | | | | | |
| TOW SUPERVISOR _____ PARKING LOCATION _____ | | | | | |
| | DEHANGARNG | EMP NO. | | | |
| 1 | ENSURE HANGAR DOORS ARE FULLY OPEN BY QUALIFIED PERSONNEL. IF DOORS WILL NOT OPEN, FOLLOW ESTABLISHED PROCEDURES. | | | | |
| 2 | CLEAN ALL FLUID LEAKS AND DISPOSE OF ALL ABSORBENT MATERIAL PROPERLY | | | | |
| 3 | CLEAN AND PLACE DRIP PANS INTO THE STORAGE RACK PROVIDED | | | | |
| 4 | ENSURE AIRCRAFT JACKS AND ALL AGE EQUIPMENT ARE PROPERLY STOWED IN DESIGNATED AREAS. REMOVE SNATCH CABLES IF INSTALLED | | | | |
| 5 | MOVE OVERHEAD FALL RESTRAINT HARNESS REELS AS NECESSARY TO PREVENT CONTACT WITH AIRCRAFT | | | | |
| 6 | (IF REQUIRED) RECONNECT AIRCRAFT AND SCNS BATTERY IF DISCONNECTED AND REMOVE WARNING TAG. | | | | |
| 7 | FOR J-MODEL AIRCRAFT: (IF REQUIRED) RESET ECB 403 BEFORE MOVING AIRCRAFT | | | | |
| 8 | ENSURE PROPELLERS DO NOT COME IN CONTACT WITH SUSPENDED AIR DUCTS | | | | |
| 9 | (IF REQUIRED) REACTIVATE CARG90 RAMP AND DOORS AND REMOVE TAGS. | | | | |
| 10 | INSPECT FOR AND REMOVE F.O. IN HANGAR TO INCLUDE TRASH, HARDWARE, SODA CANS, CUPS, PARTS BAGS ETC. | | | | |
| 11 | ENSURE HANGAR DOORS ARE CLOSED BY QUALIFIED PERSONNEL. | | | | |
| 12 | TURN COMPLETED CHECKLIST IN TO SHOP PERSONNEL OR PLACE IN DESIGNATED LOCATION. | | | | |