

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

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



14 APRIL 2021

Maintenance

**AIRCRAFT HANGAR SAFETY AND
DOOR OPERATION**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

ACCESSIBILITY: Publications and forms are available for downloading or ordering on the Publishing website at www.e-Publishing.af.mil

RELEASABILITY: There are no release ability restrictions on this publication

OPR: 19MXG/MXQ

Certified by: 19 MXG/CC
(Colonel James D. Hood)

Supersedes: LITTLE ROCK AFB I21-202,
15 September 2017

Pages: 16

This instruction implements AFD 21-1, Maintenance of Military Material, AFI 21-101, Aircraft and Equipment Maintenance Management, AFMAN 91-203, Air Force Occupational Safety, Fire and health Standards (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, 189th Airlift Wing, and 913th Airlift Group who perform hangar door operation (HDO) procedures on the following facilities: Hangars 228, 232, 233, 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 AFI 33-322, Records Management and Information Governance Program, and disposed of in accordance with the Air Force Records Disposition Schedule (RDS). 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.

SUMMARY OF CHANGES

This document has had minor administrative changes.

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, 189th Airlift Wing, and 913th Airlift Group. The 314th MXG/CC will be responsible for the training and documentation of the 314 AW personnel, IAW AFI 21-101 AETCSUP, AFI 91-202 AETCSUP, and AFMAN 91-203. The 189 MXG/CC will be responsible for the training and documentation of the 189 AW personnel, IAW AFI 21-101, and AFMAN 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 Engineer 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 AFMAN 91-203, *Air Force Occupational Safety, Fire and Health Standards*. As a minimum, building custodians will:

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

2.2.3. Notify 19 and 314 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 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 MXO (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 and 314 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 MXO/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 and 314 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 255N/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 AFMAN 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.

JOHN M. SCHUTTE, Col, USAF
Commander

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFMAN 91-203, *Air Force Occupational Safety, Fire and Health Standards*, 11 Dec 2018

AFI 21-101, *Aircraft and Equipment Maintenance Management*, 16 Jan 2020

AFI 21-101_AETCSUP, *Aircraft and Equipment Maintenance Management*, 10 Aug 2020

Adopted Forms

AF Form 55, *Employee Safety and Health Record*

AF Form 2519, *Manual/Powered Hangar Door Operation Procedures Checklists*

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

HANGARING 228, 232, 233, 235, 245, 250, 255N/S, 276, 280, 282 CHECKLIST

Figure A2.1. Hangaring 228, 232, 233, 235, 245, 250, 255N/S, 276, 280, 282 Checklist.

ALL PURPOSE CHECKLIST		PAGE 1	OF 2	PAGES
TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA HANGARING CHECKLIST Hangars 228, 232, 233, 235, 245, 250, 255 N/S, 276, 280 and 282		OPR 19 MXG/ QA	DATE	
NO.	ITEM <i>(Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)</i>	YES	NO	N/A
	WARNING: ACCOMPLISH THE FOLLOWING LAW APPLICABLE TECHNICAL DATA BEFORE ANY MAINTENANCE ACTION IS PERFORMED ON THE AIRCRAFT:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AIRCRAFT TAIL #: _____ OWNING AMU: _____ DATE/TIME: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	TOW SUPERVISOR: _____ PARKING LOCATION: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	EMPLOYEE NUMBER: DISCONNECT AND STOW HF LONG WIRES AS REQUIRED.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	EMPLOYEE NUMBER: FULLY OPEN HANGAR DOORS - QUALIFIED PERSONNEL ONLY. IF DOORS WILL NOT OPEN, NOTIFY THE 19TH MXO (MOC).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	EMPLOYEE NUMBER: MOVE OVERHEAD FALL RESTRAINT HARNESS REELS AS NECESSARY TO PREVENT CONTACT WITH AIRCRAFT.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	EMPLOYEE NUMBER: CONNECT FORE AND AFT GROUND WIRES IF GROUNDING POINT AVAILABLE, AND INSTALL WHEEL CHOCKS.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	EMPLOYEE NUMBER: INSTALL PROTECTIVE COVERS AS REQUIRED.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	EMPLOYEE NUMBER: POSITION DRIP PANS UNDER ALL ENGINES (N/A TO WASH RACK).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	EMPLOYEE NUMBER: ROTATE ENGINE PROPELLERS WITH THE #1 BLADE AT THE 12 O'CLOCK POSITION (N/A FOR C-130J). ENSURE PROPELLERS IN HGR DO NOT COME IN CONTACT WITH SUSPENDED AIR DUCTS.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	EMPLOYEE NUMBER: FOR HANGARS 228, 245, 255 N/S, 280, AND 282: CLOSE CARGO RAMP AND DOOR, DEACTIVATE AND LOCK OUT SYSTEM.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	EMPLOYEE NUMBER: MOOR AIRCRAFT TAIL AND NOSE WHERE POSSIBLE (HANGARS 245, 255 N/S, AND 280).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	EMPLOYEE NUMBER: CLOSE THE GTC/APU DOOR.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	EMPLOYEE NUMBER: C-130J ONLY: PULL ECB 403. ALL AIRCRAFT: EXTINGUISH EMERGENCY LIGHTS.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Attachment 3

DE-HANGARING 228, 232, 233, 235, 245, 250, 255N/S, 276, 280, 282 CHECKLIST

Figure A3.1. De-Hangaring 228, 232, 233, 235, 245, 250, 255N/S, 276, 280, 282 Checklist.

ALL PURPOSE CHECKLIST		PAGE 1	OF 2	PAGES
TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA DE-HANGARING CHECKLIST Hangars 228, 232, 233, 235, 245, 250, 255 N/S, 276, 280 and 282		OPR 19 MXG/ QA	DATE	
NO.	ITEM <i>(Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)</i>	YES	NO	N/A
	WARNING: ACCOMPLISH THE FOLLOWING IAW APPLICABLE TECHNICAL DATA BEFORE ANY MAINTENANCE ACTION IS PERFORMED ON THE AIRCRAFT:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AIRCRAFT TAIL #: _____ OWNING AMU: _____ DATE/TIME: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	TOW SUPERVISOR: _____ PARKING LOCATION: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	EMPLOYEE NUMBER: FULLY OPEN HANGAR DOORS - QUALIFIED PERSONNEL ONLY. IF DOORS WILL NOT OPEN, NOTIFY THE 19TH MXO (MOC).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	EMPLOYEE NUMBER: CLEAN ALL FLUID LEAKS AND DISPOSE OF ALL ABSORBENT MATERIAL PROPERLY.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	EMPLOYEE NUMBER: CLEAN AND PLACE DRIP PANS INTO THE STORAGE RACK PROVIDED.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	EMPLOYEE NUMBER: ENSURE AIRCRAFT JACKS AND ALL AGE EQUIPMENT ARE PROPERLY STOWED IN DESIGNATED AREAS. REMOVE SNATCH CABLES IF INSTALLED.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	EMPLOYEE NUMBER: MOVE OVERHEAD FALL RESTRAINT HARNESS REELS AS NECESSARY TO PREVENT CONTACT WITH AIRCRAFT.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	EMPLOYEE NUMBER: RECONNECT UTILITY AND AVIONICS BATTERIES IF DISCONNECTED.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	EMPLOYEE NUMBER: C-130J: RESET ECB 403.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	EMPLOYEE NUMBER: ENSURE PROPELLERS DO NOT COME IN CONTACT WITH SUSPENDED AIR DUCTS.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	EMPLOYEE NUMBER: REACTIVATE CARGO RAMP AND DOORS IF DEACTIVATED.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	EMPLOYEE NUMBER: INSPECT FOR AND REMOVE F.O. (TRASH, HARDWARE, PARTS BAGS ECT.).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	EMPLOYEE NUMBER: ENSURE HANGAR DOORS ARE CLOSED BY QUALIFIED PERSONNEL.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Attachment 4

MANUAL HANGAR DOOR OPERATIONS FOR HANGARS 245, 255 N/S

Figure A4.1. Manual Hangar Door Operations for Hangars 245, 255 N/S.

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

Attachment 5

MANUAL HANGAR DOOR OPERATIONS FOR HANGAR 280

Figure A5.1. Manual Hangar Door Operations for Hangar 280.

ALL PURPOSE CHECKLIST		PAGE 1	OF 1	PAGES
TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA Building 280 Manual Hangar Door Operation Procedures		OPR 19 MXG/ QA	DATE	
NO.	ITEM <i>(Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)</i>	Yes	No	N/A
	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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	Inspect hangar door tracks for obstructions, debris and foreign objects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Inspect for obstructions on outside of hangar doors.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Make certain all emergency exit (personnel) doors are fully closed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Ensure all personnel in hangar are aware that doors will be opening or closing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CAUTION WHEN MAIN HANGAR DOORS ARE TO BE OPENED FOR OTHER THAN AIRCRAFT, MAINTAIN A MINIMUM 10 FEET CLEARANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING STOP OPERATION IF HORN DOES NOT SOUND! ALERT HANGAR PERSONNEL, USE A SAFETY OBSERVER AND PROCEED WITH CAUTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Alert personnel that you are starting opening or closing operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CAUTION USE EXTREME CAUTION WHEN APPROACHING AIRCRAFT OR HANGAR DOOR STOPS (PINCH POINTS ARE IDENTIFIED BY YELLOW AND BLACK STRIPES) DO NOT EXCEED 1/2 WALKING SPEED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	NOSE DOCK DOORS When moving hangar door, push or pull the doors to desired position (1/2 walking speed maximum).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	Open or close door fully, or stop as needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	When personnel use nose dock door for entrance or exit, door WILL BE opened a minimum of 10 feet clearance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19th MXO (MOC).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Attachment 6

POWERED HANGAR DOOR OPERATION FOR HANGARS 228 AND 233

Figure A6.1. Powered Hangar Door Operation for Hangars 228 and 233.

ALL PURPOSE CHECKLIST		PAGE 1	OF 1	PAGES
TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA Buildings 228 and 233 Powered Hangar Door Operation Procedures		OPR 19 MXO/ QA	DATE	
NO.	ITEM <i>(Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)</i>	Yes	No	N/A
	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 228, 233	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	Inspect hangar door tracks for obstructions, debris and foreign objects.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Inspect for obstructions on outside of hangar doors.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Make certain all emergency exit (personnel) doors are fully closed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Ensure all personnel in hangar are aware that doors will be opening or closing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING STOP OPERATION IF HORN DOES NOT SOUND!	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CAUTION WHEN MAIN HANGAR DOORS ARE TO BE OPENED FOR OTHER THAN AIRCRAFT, MAINTAIN A MINIMUM 10 FEET CLEARANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Alert personnel that you are starting opening or closing operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CAUTION USE EXTREME CAUTION WHEN APPROACHING AIRCRAFT OR HANGAR DOOR STOPS (PINCH POINTS ARE IDENTIFIED BY YELLOW AND BLACK STRIPES) DO NOT EXCEED 1/2 WALKING SPEED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Allow doors NO#1 and NO#2 to open or close to desired position then release control button. (Doors must be opened at least 10 feet when moving equipment, supplies etc. in and out of hangar).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Door #3 must be fully open (above RED indicator line) before moving aircraft in or out of the hangar. (Only applicable for hangar 228).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19 MXO (MOC).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Attachment 7

POWERED HANGAR DOOR OPERATION FOR HANGAR 232

Figure A7.1. Powered Hangar Door Operation for Hangar 232.

ALL PURPOSE CHECKLIST		PAGE 1	OF 1	PAGES
TITLE/SUBJECT/ISSUE/ISSUE FUNCTIONAL AREA Building 232 Powered Hangar Door Operation Procedures		OPN 19 MXG/ QA	DATE:	
NO.	ITEM <i>(Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)</i>	Yes	No	N/A
	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 232	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	Inspect hangar door tracks for obstructions, debris and foreign objects.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Inspect for obstructions on outside of hangar doors.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Make certain all emergency exit (personnel) doors are fully closed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Ensure all personnel in hangar are aware that doors will be opening or closing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING STOP OPERATION IF HORN DOES NOT SOUND!	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CAUTION WHEN MAIN HANGAR DOORS ARE TO BE OPENED FOR OTHER THAN AIRCRAFT, MAINTAIN A MINIMUM 10 FEET CLEARANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Alert personnel that you are starting opening or closing operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CAUTION USE EXTREME CAUTION WHEN APPROACHING AIRCRAFT OR HANGAR DOOR STOPS (PINCH POINTS ARE IDENTIFIED BY YELLOW AND BLACK STRIPES) DO NOT EXCEED 1/2 WALKING SPEED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Depress and hold OPEN or CLOSE button (warning horn sounds for approximately 5 seconds before door will start travel). Release button when hangar door reaches desired position.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Doors must be in the full open position for aircraft hangaring/de-hangaring. (Doors must be opened at least 10 feet when moving equipment, supplies etc. in and out of hangar).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19 MXO (MOC).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Attachment 8

POWERED HANGAR DOOR OPERATION FOR HANGAR 250

Figure A8.1. Powered Hangar Door Operation for Hangar 250.

ALL PURPOSE CHECKLIST		PAGE 1	OF 1	PAGES
TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA		OPR	DATE	
Building 250 Powered Hangar Door Operation Procedures		19 MXG/ QA		
NO.	ITEM <i>(Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)</i>	Yes	No	N/A
	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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	Inspect hangar door tracks for obstructions, debris and foreign objects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Inspect for obstructions on outside of hangar doors.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Ensure safety edge and personnel door warning lights are not illuminated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points which are identified by yellow and black stripes).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING STOP OPERATION IF HORN DOES NOT SOUND! ALERT HANGAR PERSONNEL, USE A SAFETY OBSERVER AND PROCEED WITH CAUTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Operate only one door at a time per individual.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Depress both buttons for hangar door operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Release both buttons when hangar doors reached desired position.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	When closing hangar doors ensure the yellow lines on hangar doors are aligned with yellow marks on hangar floor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	If hangar doors do not operate, contact (7-5152) or MXS Pro-Super for assistance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19th MXO (MOC).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Attachment 9

POWERED HANGAR DOOR OPERATION FOR HANGAR 276

Figure A9.1. Powered Hangar Door Operation for Hangar 276.

ALL PURPOSE CHECKLIST		PAGE 1	OF 1	PAGES
TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA Building 276 Powered Hangar Door Operation Procedures		OPR 19 MXG/ QA	DATE	
NO.	ITEM <i>(Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)</i>	Yes	No	N/A
	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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	Inspect hangar door tracks for obstructions, debris and foreign objects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Inspect for obstructions on outside of hangar doors.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Ensure safety edge and personnel door warning lights are not illuminated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points which are identified by yellow and black stripes).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING STOP OPERATION IF HORN DOES NOT SOUND! ALERT HANGAR PERSONNEL, USE A SAFETY OBSERVER AND PROCEED WITH CAUTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Operate only one door at a time per individual.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Depress both buttons for hangar door operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Release both buttons when hangar doors reached desired position.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	When closing hangar doors ensure the yellow lines on hangar doors are aligned with yellow marks on hangar floor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	If hangar doors do not operate, contact (7-5152) or MXS Pro-Super for assistance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19th MXO (MOC).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Attachment 10

POWERED HANGAR DOOR OPERATION FOR HANGAR 282

Figure A10.1. Powered Hangar Door Operation for Hangar 282.

ALL PURPOSE CHECKLIST		PAGE 1	OF 1	PAGES
TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA Building 282 Powered Hangar Door Operation Procedures		OPR 19 MXG/ QA	DATE	
NO.	ITEM <i>(Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)</i>	Yes	No	N/A
	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 282.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	Inspect hangar door tracks for obstructions, debris and foreign objects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Inspect for obstructions on outside of hangar doors.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Make certain all emergency exit (personnel) doors are fully closed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Ensure all personnel and equipment are clear of hangar doors path including recesses (pinch points).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Ensure all personnel in hangar are aware that doors will be opening or closing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING STOP OPERATION IF HORN DOES NOT SOUND!	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	WARNING FAILURE TO STAY CLEAR OF HANGAR DOORS DURING OPENING OR CLOSING OPERATIONS COULD RESULT IN SERIOUS INJURY OR DEATH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CAUTION WHEN MAIN HANGAR DOORS ARE TO BE OPENED FOR OTHER THAN AIRCRAFT, MAINTAIN A MINIMUM 10 FEET CLEARANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Alert personnel that you are starting opening or closing operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CAUTION USE EXTREME CAUTION WHEN APPROACHING AIRCRAFT OR HANGAR DOOR STOPS (PINCH POINTS ARE IDENTIFIED BY YELLOW AND BLACK STRIPES) DO NOT EXCEED 1/2 WALKING SPEED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If any problems are encountered during door operation, (i.e. door jams), stop operation immediately and notify the 19th MXO (MOC).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>